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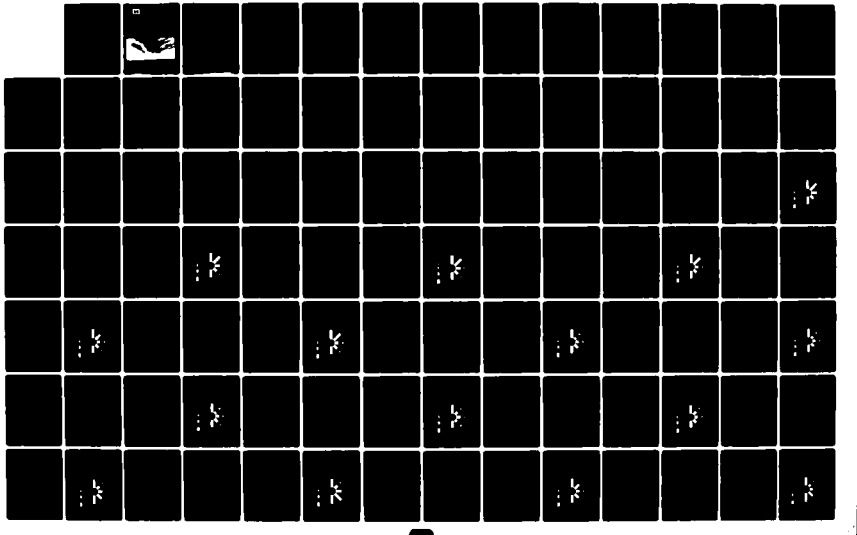

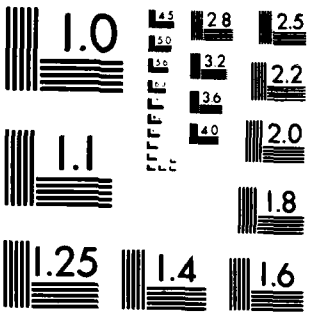

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ATLANTIC COAST HINDCAST, SHALLOW-WATER, SIGNIFICANT WAVE INFORMATION

by

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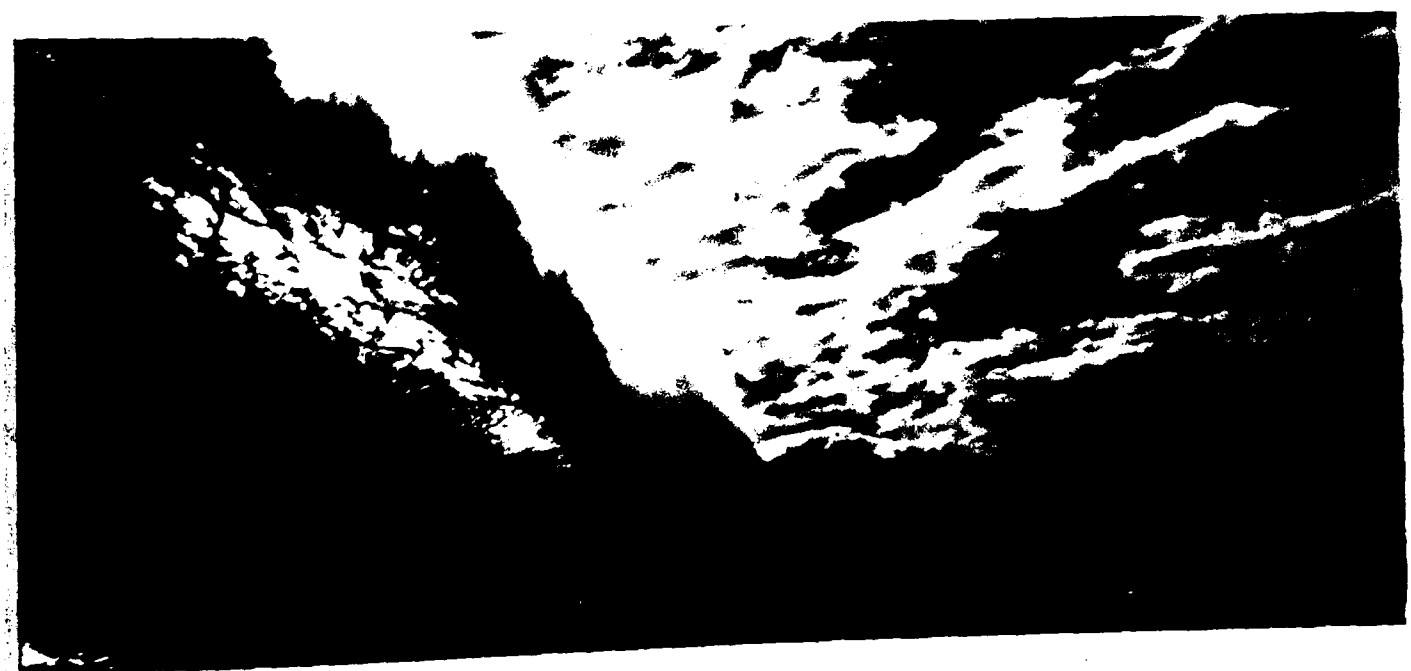

WAVE INFORMATION STUDIES OF U.S. COASTLINES

Prepared for Office, Chief of Engineers, U.S. Army
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Using a numerical transformation technique, significant wave data (height, peak period, and direction) have been computed for the 20-year interval 1956 through 1975 for the U. S. Atlantic coast. The wave data are presented for 166 stations in six data products:

1. Geographical variation in the wave climate.
2. Twenty-year percent occurrence tables.

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20. ABSTRACT (Continued).

3. Wave rose diagrams;
4. Mean and largest wave-height tables;
5. Return period tables, including wave parameter statistics;
6. "Over" duration tables.

A brief description of each product is given and some sections on use of the products, including examples, are provided.

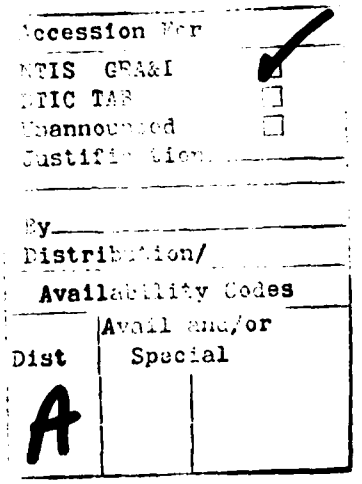
Preface

In late 1976, a study to produce a wave climate for U. S. coastal waters was initiated at the U. S. Army Engineer Waterways Experiment Station (WES). This Wave Information Study (WIS) was authorized by the Office, Chief of Engineers, U. S. Army, as a part of the Field Data Collection Program which is managed by the U. S. Army Coastal Engineering Research Center. The U. S. Army Engineer Division, South Atlantic, and the U. S. Army Engineer Division, New England, also authorized funds during the initial year of this study (FY 1978) to expedite execution of the Atlantic coast portion of this program.

This report, the ninth in a series, presents hindcast, significant wave data for the U. S. Atlantic coast. The study was conducted in the Hydraulics Laboratory under the direction of Mr. H. B. Simmons, Chief of the Hydraulics Laboratory, Dr. R. W. Whalin, former Chief of the Wave Dynamics Division, Mr. C. E. Chatham, Jr., present Chief of the Wave Dynamics Division. This report was prepared by Mr. R. E. Jensen. A special acknowledgement is due the Wave Information Study personnel, R. M. Brooks, W. D. Corson, B. A. Ebersole, J. E. Main, D. S. Ragsdale, T. L. Smith, Dr. D. T. Resio, and B. A. Tracy for their assistance in this work. Also, M. B. Habeeb and B. F. Vavra coordinated all activities associated with the final publication of this report.

Commanders and Directors of WES during the conduct of the study and the preparation and publication of this report were COL Nelson P. Conover, CE, and COL Tilford C. Creel, CE. Technical Director was Mr. F. R. Brown.





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ATLANTIC COAST HINDCAST, SHALLOW-WATER, SIGNIFICANT WAVE INFORMATION

Introduction

1. The Atlantic Coast Wave Information Study (ACWIS) separated the wave climatology of the U. S. Atlantic coast into three phases:

Phase I - Numerical hindcast of deepwater wave data from historical surface pressure and wind data.

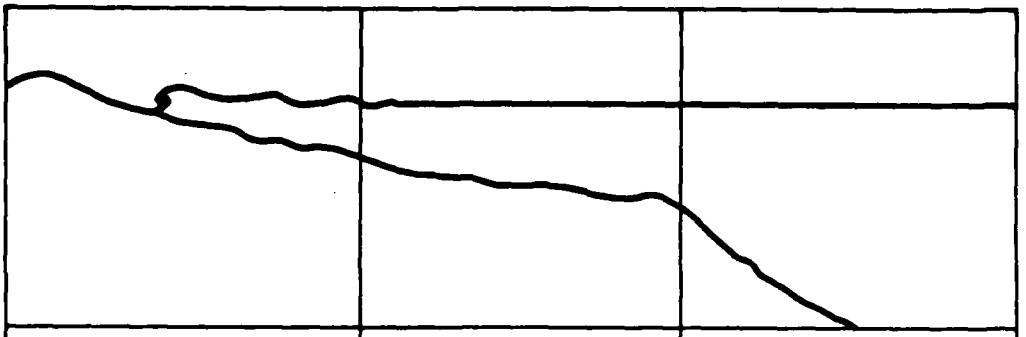
Phase II - Numerical hindcast at a finer scale than Phase I to better resolve the sheltering effects of the continental geometry. Phase I data serve as the boundary conditions at the seaward edge of the Phase II grid.

Phase III - Transformation of Phase II wave data into shallow water and inclusion of long waves.

Figure 1 presents a schematic of the relationships of the three phases and their approximate boundaries.

2. Phase III wave data have been computed for 166 shoreline stations approximately 10 miles (16 km) in length along the Atlantic coast (Plates 1-6). All station locations have been selected for data analysis (Plates 1-6 and Table 1). These stations have 20 years (1956-1975) of hindcast, shallow-water (10-m water depths), significant wave data (height, period, and direction) stored at 3-hr intervals. The water depth (10 m) remained constant throughout the analysis. Any differences in the wave characteristics caused by fluctuations in the water depth (due to tides and surges) were neglected. Waves generated from tropical storms were excluded in the analysis of this report. Water levels and wave heights from tropical storms will be analyzed in a separate section of ACWIS. The purpose of this report is to present various analyses of the ACWIS Phase III hindcast, significant wave data. This report is similar in format to WIS Reports 2 and 6 (Corson et al. 1981, Corson et al. 1982). Portions of the text provide the same types of products similar to the Phase I and II wave data.

3. The Phase III wave characteristics were generated from a different type of procedure common to the Phase I and II computations.



	NEARSHORE ZONE	SHELF ZONE	DEEP OCEAN
ATMOSPHERIC RESPONSE SCALES	SYNOPTIC, MESOSCALE CONVECTIVE	MESOSCALE AND SYNOPTIC	SYNOPTIC AND LARGE SCALE
	Δx LESS THAN 10 MILES Δt LESS THAN 3 HOURS	Δx 10'S OF MILES Δt 3 TO 6 HOURS	Δx 100'S OF MILES Δt GREATER THAN 6 HOURS
WAVE PROCESSES	AIR-SEA INTERACTION REFRACTION DIFFRACTION SHOALING BOTTOM FRICTION LONG WAVES (TIDES AND SURGE)	AIR-SEA INTERACTION REFRACTION DIFFRACTION SHOALING BOTTOM FRICTION	AIR-SEA INTERACTION
	WAVE TRANSFORMATION	SECONDARY ENERGY SOURCE WAVE TRANSFORMATIONS	PRIMARY ENERGY SOURCE

Figure 1. Conceptual diagram of the three phases of the Wave Information Study (WIS)

Phase I and II wave characteristics were generated from a numerical wave model which simultaneously propagated and transformed the data over a discrete grid. This approach could not be employed for the evaluation of the nearshore wave characteristics because of its relative computational costs; but more importantly, the transforming mechanisms within finite water depths have not been clearly defined in terms of their importance to the changes in wave conditions. The Phase III wave data were generated assuming straight and parallel bottom contours, and no additional energy sources were added to existing Phase II wave conditions.

4. There were two basic steps in the calculation of the

shallow-water wave climate. First, the given Phase II sea wave parameters (H_s , T_p , and Ψ) were used to construct a two-dimensional (frequency and wave direction) discrete spectrum. Only the energy bands (in the direction space) that were within ±90 deg to shore normal for a given Phase III station were retained. The analysis became slightly more complex when wave sheltering was introduced (Table 2). The swell was assumed to be a unidirectional, monochromatic wave. If the deep-water swell mean direction of wave propagation was ±90 deg to shore normal, then the data were analyzed.

5. The second step in the Phase III analysis assumed that the two wave populations were independent; thus the analysis of the sea and swell transformations into 10 m could be carried out separately. The transformation mechanisms common to both populations were refraction, shoaling, wave breaking, and wave sheltering (when applicable). One additional mechanism involved in the sea wave transformation was the influence due to nonlinear transfers of spectral energy, known as wave-wave interactions. As the understanding of shallow-water wave transformation mechanisms becomes more clearly understood, the Phase III data presented in this report will be updated. At the present time, the processes included in the Phase III methodology provide an accurate basis in the generation of a shallow-water wave climate.

6. In certain cases along the Atlantic coast, the assumption of straight and parallel offshore contours does not apply. Sheltering effects associated with the geometry of the coastline introduce significant deviations from the results derived from a straight coastline approximation. The amount of wave sheltering (or the selection of the sheltering angle) depends upon the location of the input Phase II station, relative to the given Phase III station being considered, and the location of the Phase II land boundary points relative to the actual shoreline. The Phase II wave conditions were then adjusted to compensate for these changes. A limited amount of subjectivity was involved in the selection of sheltered angles when the above variables were considered. Table 2 displays the values of sheltering angles used in the analysis of the shallow-water wave climate.

7. This report is intended only to serve as a general description of simple wave characteristics such as height, period, and direction. The wave data represent generalized conditions along each 10-mile (16 km) shoreline segment. Any man-made structures, or bottom topographic features smaller than the 10-mile (16 km) shoreline segments, were considered as subscale features and thus neglected. Only first-order shoreline changes were considered, namely the shoreline angle. The shoreline orientation for each Phase III station was measured clockwise in degrees from true north (0 deg, Figure 2). Generally, the shoreline angle will fall within a range between ±90 deg from true north. Details concerning the Phase III wave calculations are given in WIS Report 8 (Jensen, in preparation).

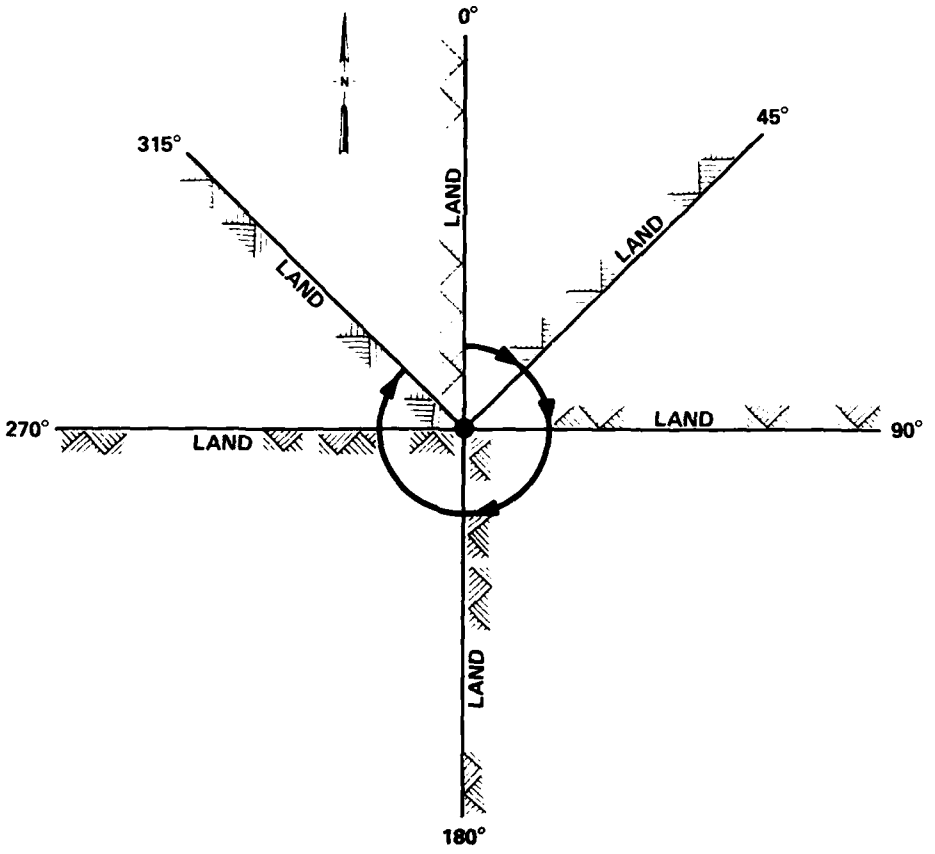


Figure 2. Schematic representation of the shoreline orientation

8. The significant wave height (H_s) analyzed represents the combined sea and swell; that is, the square root of the sum of the squares of the sea and swell significant wave heights $\left(H_s = \sqrt{H^2_{swell} + H^2_{sea}}\right)$. The wave period ($T_p$) and direction ($\Psi$) are of the dominant wave (i.e., if the sea H_s is larger, then the sea T and Ψ are given). The period is the period of the spectral peak (T_p). The value of the wave direction is the mean direction from which the waves are coming, relative to the shoreline orientation (Figure 3).

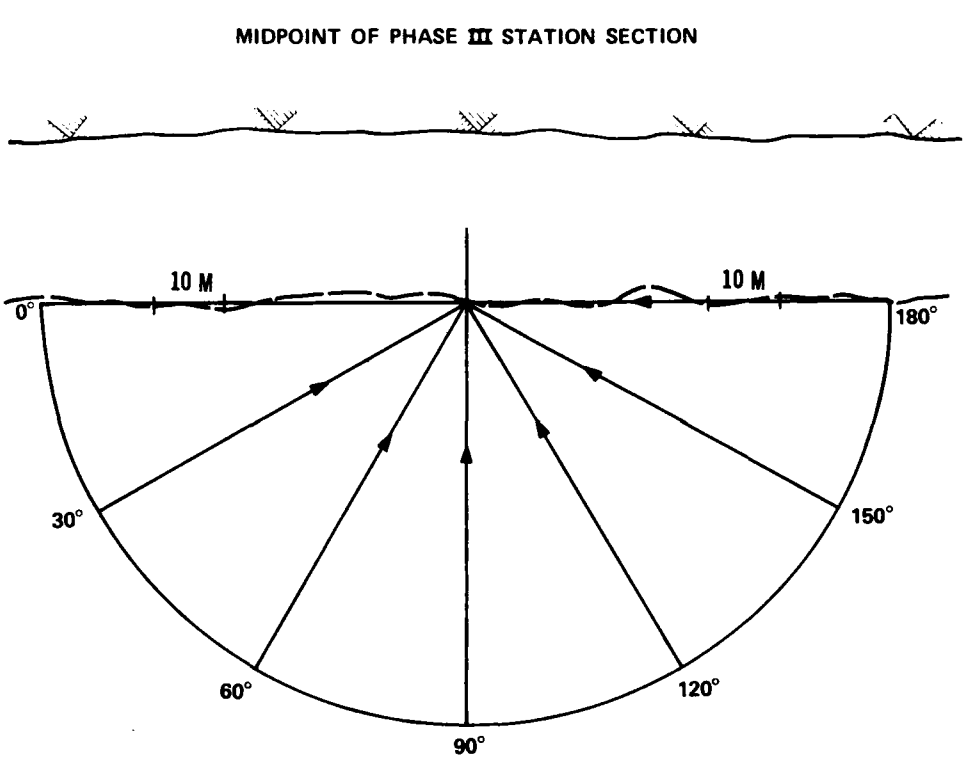


Figure 3. Coordinate system defining the direction of wave propagation (Ψ)

9. Six products are presented:

   a. Geographical variability of the mean H_s, and the maximum H_s, the standard deviation about the mean H_s, the mean T_p, and Ψ.

   b. Twenty-Year Percent Occurrence Tables.

   c. Wave Rose Diagrams.

d. Mean and Largest H_s Tables.

e. Return Period Tables, including the mean and standard deviation of H_s, the mean T_p, and the mean Ψ.

f. Duration Tables for H_s over various specified values.

A brief description of each product is given and additional sections are provided on use of the products, including examples. The geographical variablities of the mean parameters are presented in Appendix A. The percent occurrence tables, the wave rose diagrams, and the mean-largest H_s tables are provided for each individual station in Appendices B-G. These appendices are arranged by geographical regions shown in Plates 1-6. The return period and duration tables provide information for all stations and are presented in Appendices H and I.

Geographical Variation in the Wave Climate

Description

10. Six diagrams are presented in Appendix A that provide an overall view of the wave climate along the Atlantic coast. The geographical variation diagrams utilize the 20-year records (58,440) of H_s, T_p, and Ψ every 3 hr to compute the mean H_s, the standard deviation about the mean H_s, the maximum H_s, the mean T_p, and the mean Ψ. The mean Ψ's are plotted relative to each shoreline orientation (Table 1 provides the shoreline angle) from 0 to 180 deg as shown in Figure 3. The geographical variation of the shoreline angle also is shown in Appendix A.

Use of the diagrams

11. The diagrams are intended as visual aids and are not appropriate for detailed analyses.

Twenty-Year Percent Occurrence Tables

12. Two types of tables are printed, 20-year azimuth tables and 20-year all direction tables. These data are based on the full 20-year Phase III hindcast record. In order to maintain a workable report size,

the seasonal tables provided in WIS Reports 2 and 6 were replaced by the 20-year percent occurrence tables.

13. The azimuth tables give the percent occurrence of significant waves in height and period ranges for all Phase III stations and directions. The title to each table identifies the station, water depth, shoreline angle (relative to true north), and wave approach direction range. The wave period ranges are in 1-sec intervals (except for the first increment where the range is from 0 to 2.9 sec and the last increment where the range is all periods greater than 11.0 sec). The height ranges are in half-metre increments. The direction ranges are in 30-deg intervals and are referenced to the shoreline orientation (Figure 3). Values in the direction tables represent the percent of the 20 years that waves occur from the specified direction bands for the indicated height and period ranges. The values have been multiplied by 1,000 to allow more accuracy with less printing space. Summations are provided in the last column and row of each table. The last line in each direction table contains the following information for the specified direction range:

a. The average H_s .

b. The largest H_s .

c. The percent of waves occurring in the specified direction range.

14. The all-directions table is printed after the 150- to 179.9-deg direction table. The all-directions tables give the percent occurrence of significant waves within specified height and period ranges coming from all directions for 20 years for the indicated station. Values in the all-directions tables are multiplied by 100. The parameters listed in the last line of the all-directions tables are derived from all preceding directional tables for the full 20 years. There are always 58,440 cases analyzed, but not all cases resulted in finite wave conditions. If a "calm" condition exists in the Phase III data set, both sea and swell significant wave heights must be equivalent to zero. The Phase II sea wave characteristics (H_s , T_p , Ψ) are generated into a two-dimensional spectrum, in frequency and direction

bands. The energy density distribution over the discrete direction bands is assumed to be symmetric about the mean direction, Ψ , and distributed ±90 deg from Ψ . If Ψ found in the Phase II data was directed 180 deg from normal to a given Phase III station (or all energy is propagating away from shore), the sea significant wave height found in the Phase III data is equal to zero. If the swell mean direction of wave propagation in the Phase II data were directed offshore, a zero swell significant wave height would result in the Phase III data set. Also, wave sheltering could limit wave conditions from propagation out of an offshore region such that measurable wave conditions would not occur at the shore. Therefore, the total sum for all occurrences at a given station may not be 100 percent, and that percentage can be considered as times of calm wave conditions. The angle class percentage found in each angle class table has been rounded to the nearest 0.1 percent which causes a slight difference in the total percent in the all-directions table and in summing the percent occurrence found in the individual angle class table.

Use of the tables

15. The tables have been developed to produce reliable information when applying the data sets under the aforementioned assumptions and constraints.

Example

16. In order to find the number of hours that waves between 3.0 and 3.5 m and 9.0 to 9.9 sec are expected to occur from 60 to 90 deg relative to the shoreline at Station 1 for the 20-year interval, the value read in the table for specified station, direction of wave propagation, height, and period should first be divided by 1,000 which for this example yields 0.013 percent (Appendix B, page B-1). Then 0.013 is divided by 100 to give the probability, and multiplied by the number of hours for the 20-year period (approximately 8,766 hr per year) to yield the number of hours that the specified wave is expected to occur. The simple conversion process is:

$$\left(\frac{\text{value read in table}}{1{,}000}\right) \div 100 \times \text{number of hours in time interval} = \text{number of hours specified wave is expected to occur}$$

For this example:

$$\frac{13}{1{,}000} \div 100 \times 175{,}320 = 23 \text{ hours}$$

17. The all-directions tables can be used in a similar fashion. To find the number of hours waves between 3.0 and 3.5 m are expected to occur within a year for Station 1 for all directions and periods, divide the value in the total column for the specified H_s range by 100 which yields a percent of 0.03 (page B-3). Divide 0.03 by 100 to get the probability, then multiply by the number of hours in one year; that is:

$$\frac{3}{100} \div 100 \times 8{,}766 = 3 \text{ hours}$$

18. To find the percentage of calms for the 20-year hindcast record at Station 1 (page B-3), add the total column for all H_s and divide by 100 which yields a percentage of 85.16. Subtract 85.16 from 100, which results in 14.84 percent of the wave conditions at Station 1 that are considered calm, or approximately 8,672 calm wave conditions.

Wave Rose Diagrams

Description

19. The wave rose diagrams utilize H_s and Ψ for the 20 years of hindcast data. The wave rose diagrams show the percent occurrence of H_s ranges from five direction ranges and the percent of waves occurring from the separate directions.

20. Similar to most wave rose diagrams, the width of each bar segment indicates the H_s range and the length of the bar segment indicates the percent occurrence of waves from a specified direction. The distance between each circle in the diagram is 10 percent. Each leg of the diagram represents 22.5 deg to either side of the primary direction

of the leg (except for 0 and 180 deg; for example, see Appendix B, page B-3). For example, the leg identified as 90 (or shore normal wave propagation), represents waves coming from 67.5 to 112.5 deg relative to the shoreline. The legs identified as 0 and 180 represent waves coming from 0 to 22.5 and 157.5 to 180 deg, respectively. The total percent in each angle class (found in the triangle at the end of each leg) is truncated at the nearest whole percent. When a zero appears in the triangle, and the H_s class is represented by only one class, that total percent of wave conditions coming from the range of angle bands is considered to be equal to zero. For example, Station 1 (Appendix B, page B-3) displays a zero in the leg identified as 180 and also the following leg (wave approach angles from 112.5 to 157.5 deg). The percent occurrences from these direction classes are equal to zero with no waves coming from the above angles.

Use of the diagrams

21. The diagrams are intended as visual aids and are not appropriate for detailed analysis.

Examples

22. The wave rose diagram for Station 1 indicates that in the 20-year hindcast, 58 percent of the waves were propagating from 22.5 to 67.5 deg relative to the shoreline (or coming from a southeasterly direction relative to the shoreline). Of the 58 percent, approximately 54 percent were less than 0.5 m, approximately 34 percent were between 0.5 and 1.0 m, approximately 9 percent were between 1.0 and 1.5 m, approximately 2 percent were between 1.5 and 2.0 m, and approximately 1 percent was between 2.0 and 2.5 m (page B-3).

Mean and Largest H_s Tables

Description

23. Two tables that summarize the mean and largest H_s for each month and year are provided for each station. The mean table also provides a mean monthly value and mean yearly value of H_s. The largest H_s table provides the largest H_s hindcast for each month in each

year, as well as the largest H_s hindcast for the specified station.

Use of the tables

24. The tables can be used as a quick reference in determining gross estimates of the wave climate of an area. Due to extreme variations in wave heights, the mean H_s value is of little use beyond gross estimates. The largest H_s value provides an idea of what extreme significant wave heights might occur; however, other data products presented in this report can assist in determining how often to expect extreme values and how long they are expected to occur.

Example

25. To determine the mean H_s at Station 1 for January 1956, simply read the value in the specified column and row (page B-4). The mean H_s for 1956 is given in the MEAN column opposite 1956. The mean H_s for all January's is given in the MEAN row under JAN. For this example:

a. The mean H_s for JAN 1956 = 0.1 m.

b. The mean H_s for 1956 = 0.4 m.

c. The mean H_s for all JAN's = 0.5 m.

The largest H_s table can be read in a similar fashion, and by scanning the columns and rows, additional information can be determined:

a. The largest H_s for JAN 1956 = 1.3 m.

b. The largest H_s for 1956 = 2.6 m.

c. The largest H_s for all JAN's = 3.2 m.

Return Period for H_s and Mean Wave Parameter Tables

Description

26. Since extreme wave conditions are important in most coastal design procedures, a careful analysis of extreme wave heights was performed. In order to obtain a reasonably homogeneous, independent sample of wave heights for the analysis of wave extremes along the east coast, wave heights are first separated into events associated with particular meteorological conditions. Basically, the concept here is to obtain

representative groupings of storm conditions before proceeding with the usual kind of statistical analysis of extremes. The return period portion of the table found in Appendix H shows the results of applying this procedure to isolate extreme waves from "northeasters" (tropical storms were excluded) along the east coast. It should be noted that the extremal analysis for Phase III depends significantly on the water depth and that a constant depth of 10 m was used in this analysis. An upper limit on the maximum H_s will result, assuming no changes in water depth. A conservative approximation to this would be to assume $H_{s_{max}}$ = 7.8 m (or $H_{s_{max}}$ = 0.78 × depth, via solitary wave theory). Vincent (1981) discusses an alternate method which could also be considered. For more detailed analyses, one would need to consider the changes in the water depth caused by storm surges and tides.

27. Also provided in the table are estimates for the mean H_s, the standard deviation about the mean, the mean wave period, and mean direction of wave propagation, measured relative to the shoreline at each Phase III station. All values were derived from the full 20 years of hindcast data.

Use of the tables

28. One type of error that could affect the results of extreme analysis would be a bias between the hindcast waves for a station and waves occurring at that site. The assumption of constant water depth within the Phase III analysis will bias those storm conditions producing significant changes in the water depth (caused by surge effects), thus resulting in the capability of producing even larger H_s results (because of the depth dependence on the maximum H_s). Additionally, bias in the results can be expected in the extremal distribution if the random error in the transformation technique employed in the Phase III analysis is larger compared with the expected natural variation in wave height. It is expected that the hindcast extremes presented in the tables (Appendix H) provide a valid representation of shallow-water extremes produced by northeasters along the U. S. Atlantic coast. For points south of Cape Hatteras, tropical storms will probably dominate

the extremal wave-height distribution, and along the entire Atlantic coast south of Cape Cod, tropical storms should be considered along with northeasters in any design consideration.

29. The mean wave condition variables as well as the standard deviation about the mean H_s can be used as a quick reference in determining gross estimates of the wave climate at a Phase III station. Due to extreme variations in wave heights, peak wave periods, and directions of wave propagation, the mean H_s, T_p, and Ψ values are of little use beyond gross estimates. The largest H_s value (given in the table as the 21-year return period for H_s), provides an idea of what extreme significant wave heights might occur; however, other data products presented in this report can assist in determining how often to expect extreme values and how long they are expected to occur.

Duration Table

Description

30. This table (Appendix I) contains H_s duration information for all Atlantic coast shallow-water stations. The values given in the table are the mean duration in hours ($\bar{x}$) and the maximum duration in hours (mx). Duration is defined as the length of time a wave height (H_s) persists once the wave height has been exceeded. The computations used data from the 20-year hindcast wave data.

Use of the table

31. For shallow-water sequences of wave heights, discretized sets of durations are formed of wave heights above a specified level after that level is exceeded. Each element of an individual set is a single duration event and the expected duration above a specified level is equal to the mean of all elements in the set. Thus:

$$\bar{x}_j = \sum_{i=1}^{n_j} x_{ij}$$

where the subscript j is an incremented wave-height counter for significant wave height H_j, i is a counter for duration events, n_j is the number of times that a particular significant wave height was exceeded, and x_{ij} is the duration of a single event with significant wave heights above level H_j. In this formulation, a number of other useful duration parameters from the 20-year sample can be estimated:

a. x_{jmax} - the maximum duration of significant waves above H_j.

b. x_{jmin} - the minimum duration of significant waves greater than H_j.*

c. $p(x_j)$ - the probability of occurrence of a particular duration of significant wave heights greater than H_j.

d. $F(x_j)$ - the cumulative probability of occurrence of durations less than x for a particular H_j category.

e. $F'(x_j)$ - the cumulative probability that a duration event in category H_j will exceed length x.

32. In particular, the parameter $F'(x_j)$ plays a significant role in the assessment of design criteria when such criteria are based on expected damage as a function of duration of given wave conditions. For example, if the wave height associated with a 20-year return period has an expected duration of 3 hr and it takes a 6-hr duration to significantly damage a structure, it becomes relevant to determine the probability of a 6-hr (or greater) duration at this wave height. In this sense, the design wave height would become a function of both wave height and duration, and optimization of design would require the consideration of both $F(x_j)$ and $F'(x_j)$.

Example

33. To find the mean and maximum duration for significant waves greater than 3 *m* and less than 3.5 *m* for Station 1, look up Station 1

---

* Since this is calculated only when H_j is exceeded, this number is not zero; however, for most intermediate to high wave heights, the value of x_{jmin} is equal to the duration associated with one sample. Only for small waves does this parameter have some significance.

in the table and read the values in the greater than 3.0-m row. For this example, 7 hr is the mean and 24 hr is the maximum (page I-1).

Summary

34. The data presented in this report were produced by transforming two populations of wave conditions (sea and swell) from deep water (Phase II) into 10 m of water. The three most important assumptions governing the Phase III methodology were: (a) bottom contours were straight and parallel, (b) no additional energy sources were presented between the input location (Phase II stations) and the resulting nearshore station (Phase III shoreline segment), and (c) sea and swell were independent of each other. Also, data presented for each Phase III station are assumed to be generalized wave conditions occurring along the 10-mile (16 km) station segment.

35. Since coastal problems require various methods of data analysis, and since all desired methods for data analysis cannot be presented in a report, plans have been made to make the hindcast wave data available through a computer-based analytical system (to be called Sea-State Engineering Analysis System, or SEAS). Once operative, this system will enable the engineer or scientist to access the wave information for all Phase III stations and process the information as desired. However, until the system is operative, reports will be prepared that attempt to provide the wave data in forms most widely used by engineers and scientists.

References

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_____. 1982 (Mar). "Wave Information Studies of U. S. Coastlines; Atlantic Coast Hindcast, Phase II Wave Information," WIS Report 6, U. S. Army Engineer Waterways Experiment Station, CE, Vicksburg, Miss.

Jensen, R. E. "Wave Information Studies of U. S. Coastlines; Methodology for the Calculation of a Shallow-Water Wave Climate," WIS Report 8 (in preparation), U. S. Army Engineer Waterways Experiment Station, CE, Vicksburg, Miss.

Vincent, C. L. 1981. "A Method for Estimating Depth-Limited Wave Energy," Coastal Engineering Technical Aid, No. 81-16, U. S. Army Coastal Engineering Research Center, CE, Fort Belvoir, Va.

Table 1

Shoreline Points for Atlantic Coast Phase III Wave Information Study

Station Number	Latitude	Longitude	Shoreline Angle, deg	Description
1	44.82°	66.95°	54	West Quoddy Head, Maine
2	44.70°	67.12°	59	~2 nautical miles south of Moose Cove, Maine
3	44.60°	67.30°	62	Cross Island, Maine
4	44.49°	67.42°	68	Black Head Island, Maine
5	44.42°	67.86°	56	Mois Subert Island, Maine
6	44.33°	68.03°	55	Schoodic Island, Maine
7	44.24°	68.20°	37	Baker Island, Maine
8	44.13°	68.31°	63	Long Island Head, Maine
9	44.04°	68.55°	50	Great Spoon Island, Maine
10	43.86°	68.81°	78	Wooden Ball Island, Maine
11	43.77°	69.42°	73	Mohegan Island, Maine
12	43.68°	69.58°	90	Pumpkin Island, Maine
13	43.70°	69.84°	90	Cape Small (Small Point), Maine
14	43.68°	70.09°	30	Jewell Island, Maine
15	43.54°	70.23°	53	Richmond Island (Adam Head), Maine
16	43.41°	70.38°	54	Hoyt Neck, Maine
17	43.31°	70.56°	14	Wells Beach, Maine
18	43.16°	70.59°	33	Cape Neddick, Maine
19	43.04°	70.71°	28	Odiornes Point, New Hampshire
20	42.89°	70.70°	359	Hampton Harbor Entrance, New Hampshire
21	42.73°	70.78°	295	Plum Island, Massachusetts
22	42.64°	70.57°	49	Thacker Island, Massachusetts
23	42.56°	70.77°	35	Gales Point (Manchester), Massachusetts
24	42.42°	70.90°	335	East Point (Nahant), Massachusetts
25	42.27°	70.82°	321	Near Nantasket Beach, Massachusetts
26	42.13°	70.68°	335	Humarock Beach, Massachusetts
27	42.00°	70.58°	244	Rocky Point (Plymouth Bay), Massachusetts
28	42.08°	70.17°	308	Near Race Point (Cape Cod), Massachusetts
29	41.97°	70.00°	343	Highlands (Cape Cod), Massachusetts
30	41.82°	69.94°	1	1/2 nautical mile north of Nauset Harbor Entrance, Massachusetts
31	41.65°	69.95°	17	1/2 nautical mile north of Chatham Harbor Entrance, Massachusetts
32	41.37°	70.02°	326	Great Point (Nantucket Island), Massachusetts
33	41.28°	69.97°	98	Sankaty Head (Nantucket Island), Massachusetts
34	41.26°	70.16°	108	Madaket (Nantucket Island), Massachusetts
35	41.35°	70.46°	83	Wasque Point (Chappaquiddick Island), Massachusetts
36	41.35°	70.66°	48	Near Tisbury Great Pond (Marthas Vineyard), Massachusetts
37	41.25°	70.82°	143	Nomans Land Island, Massachusetts
38	41.41°	70.95°	99	Cuttyhunk Island, Massachusetts
39	41.46°	71.17°	88	Warren Point, Rhode Island
40	41.45°	71.39°	43	Beavertail Point (Conanicut Island), Rhode Island
41	41.36°	71.48°	11	Point Judith, Rhode Island
42	41.15°	71.55°	70	Southeast Point (Block Island), New York
43	41.07°	71.86°	67	Montauk Point (Long Island), New York
44	40.99°	72.05°	68	Hither Hills Saint Park Beach (Long Island), New York
45	40.92°	72.25°	65	~1 nautical mile south of Georgica Pond (Long Island), New York
46	40.85°	72.45°	69	~1.5 nautical miles north of Shinnecock Inlet, New York
47	40.79°	72.65°	68	Weathampton Beach (Long Island), New York
48	40.74°	72.86°	67	Great South Beach (Fire Island), New York
49	40.67°	73.05°	77	Great South Beach (Fire Island), New York
50	40.62°	73.42°	74	~2 nautical miles north of Democrat Point (Fire Island), New York
51	40.60°	73.48°	90	Tobay Beach, New York
52	40.58°	73.70°	90	Long Beach, New York
53	40.56°	73.91°	19	~1.5 nautical miles north of Rockaway Point, New York
54	40.40°	73.94°	4	Sandy Hook, New Jersey
55	40.23°	74.00°	13	~2.5 nautical miles north of Shark River Inlet, New Jersey
56	40.07°	74.04°	9	Bay Head, New Jersey
57	39.90°	74.08°	12	Seaside Park, New Jersey
58	39.74°	74.12°	12	~1 nautical mile south of Barnegat Inlet, New Jersey
59	39.59°	74.23°	33	Spray Beach, New Jersey
60	39.46°	74.32°	34	Between Brigantine and Little Egg Inlets, New Jersey
61	39.34°	74.47°	54	Atlantic City, New Jersey
62	39.23°	74.63°	31	Peck Beach, New Jersey
63	39.09°	74.73°	35	Seven Mile Beach, New Jersey
64	38.95°	74.85°	51	Two Mile Beach, New Jersey
65	38.78°	75.09°	353	Cape Henlopen, Delaware
66	38.62°	75.06°	357	Near Indian River Inlet, Delaware
67	38.46°	75.05°	12	Near Fenwich Island Light, Delaware
68	38.30°	75.11°	27	~1.5 nautical miles south of Ocean City, Maryland
69	38.14°	75.17°	26	Assateague Island (North), Maryland
70	37.99°	75.27°	35	Assateague Island (South), Virginia
71	37.86°	75.36°	53	Assateague Island (South), Virginia
72	37.77°	75.54°	22	~1/2 nautical mile south of Gargathy Inlet, Virginia
73	37.61°	75.61°	20	Cedar Island, Virginia
74	37.45°	75.66°	28	Hog Island, Virginia
75	37.31°	75.77°	30	Cobb Island, Virginia
76	37.15°	75.86°	28	Smith Island, Virginia
77	36.92°	75.99°	342	Cape Henry, Virginia
78	36.73°	75.94°	339	Sand Bridge, Virginia
79	36.57°	75.87°	348	False Cape, Virginia
80	36.41°	75.83°	346	Corolla, North Carolina
81	36.25°	75.71°	340	Duck, North Carolina
82	36.09°	75.70°	332	Kitty Hawk Beach, North Carolina
83	35.94°	75.61°	335	Nags Head, North Carolina
84	35.81°	75.55°	339	~1.5 nautical miles north of Oregon Inlet, Bodie Island, North Carolina
85	35.66°	75.48°	2	~3.5 nautical miles north of Rodanthe (Hatteras Island), North Carolina
86	35.49°	75.48°	12	~3 nautical miles south of Salvo (Hatteras Island), North Carolina
87	35.32°	75.51°	8	~2 nautical miles south of Avon (Harreras Island), North Carolina
88	35.25°	75.49°	76	Tip of Cape Hatteras to ~8 nautical miles west southwest of Cape
89	35.22°	75.66°	68	~7 nautical miles southwest of Cape Hatteras (Hatteras Island), North Carolina
90	35.15°	75.85°	54	~4 nautical miles south of Hatteral Inlet (Ocracoke Island), North Carolina
91	35.07°	76.00°	52	Ocracoke, North Carolina
92	34.97°	76.16°	48	Portsmouth Island, North Carolina
93	34.86°	76.30°	43	~1 nautical mile north of Drum Inlet, North Carolina
94	34.74°	76.43°	34	Core Banks, North Carolina
95	34.59°	76.54°	121	Cape Lookout, North Carolina
96	34.68°	76.70°	87	~1 nautical mile south of Beaufort Inlet, North Carolina
97	34.68°	76.90°	75	Bogue Banks, North Carolina
98	34.64°	77.09°	64	~1/2 nautical miles north of Bogue Inlet, North Carolina
99	34.57°	77.27°	56	Onslow Beach, North Carolina
100	34.48°	77.44°	54	Sea Haven Beach, North Carolina

(Continued)

Table 1 (Concluded)

Station Number	Latitude	Longitude	Shoreline Angle, deg	Description
101	34.38°	77.61°	44	Topsail Beach, North Carolina
102	34.23°	77.75°	29	Figure Eight Island, North Carolina
103	34.12°	77.85°	20	~2.5 nautical miles north of Carolina Beach Inlet, North Carolina
104	33.96°	77.92°	19	Kure Beach, North Carolina
105	33.85°	77.97°	118	Tip of Cape Fear to 4 nautical miles east northeast of Cape
106	33.91°	78.11°	90	~2.5 nautical miles west of Cape Fear River Entrance, North Carolina
107	33.91°	78.31°	74	Holden Beach, North Carolina
108	33.87°	78.50°	70	Sunset Beach, North Carolina
109	33.81°	78.69°	56	Crescent Beach, South Carolina
110	33.71°	78.85°	41	Myrtle Beach, South Carolina
111	33.59°	78.99°	37	Surfside Beach, South Carolina
112	33.45°	79.10°	20	Litchfield Beach, South Carolina
113	33.30°	79.17°	17	North Island, South Carolina
114	33.14°	79.24°	36	Santee Point, South Carolina
115	33.00°	79.36°	65	Cape Romain, South Carolina
116	32.92°	79.58°	50	Bull Island, South Carolina
117	32.81°	79.72°	53	Isle of Palms, South Carolina
118	32.71°	79.88°	45	Morris Island (2 nautical miles south of Charleston Harbor), South Carolina
119	32.61°	80.04°	71	Kiawah Island, South Carolina
120	32.56°	80.22°	49	Botany Bay Island, South Carolina
121	32.39°	80.43°	48	Hunting Island, South Carolina
122	32.27°	80.58°	49	Bull Point at Port Royal Sound, South Carolina
123	32.16°	80.72°	34	Hilton Head Island, South Carolina
124	32.02°	80.83°	37	Tybee Island, Georgia
125	31.89°	80.96°	42	Wassaw Island, Georgia
126	31.76°	81.09°	18	Ossabaw Island, Georgia
127	31.60°	81.15°	25	Saint Catherines Island, Georgia
128	31.50°	81.23°	21	Blackbeard Island, Georgia
129	31.29°	81.28°	24	Little Saint Simons Island, Georgia
130	31.14°	81.38°	14	Saint Simons Island, Georgia
131	30.98°	81.41°	9	Little Cumberland Island, Georgia
132	30.81°	81.45°	357	Cumberland Island, Georgia
133	30.64°	81.43°	352	Fernandina Beach, Florida
134	30.48°	81.41°	350	Little Talbot Island, Florida
135	30.31°	81.39°	348	Jacksonville Beach, Florida
136	30.15°	81.35°	349	Mickler Landing, Florida
137	29.99°	81.31°	344	~5 nautical miles north of Saint Augustine, Florida
138	29.82°	81.26°	346	Saint Augustine Beach, Florida
139	29.66°	81.21°	340	~3 nautical miles south of Matanzas Inlet, Florida
140	29.51°	81.14°	338	Flagler Beach, Florida
141	29.35°	81.07°	337	Ormond Beach, Florida
142	29.20°	81.00°	334	Seabreeze, Florida
143	29.05°	80.90°	331	New Smyrna Beach, Florida
144	28.90°	80.81°	330	Eldora, Florida
145	28.76°	80.71°	326	Mosquito Lagoon Beach, Florida
146	28.62°	80.60°	337	Titusville Beach, Florida
147	28.47°	80.53°	24	Cape Canaveral, Florida
148	28.31°	80.61°	354	Cocoa Beach, Florida
149	28.15°	80.58°	340	Satellite Beach, Florida
150	27.99°	80.52°	334	Melbourne Beach, Florida
151	27.85°	80.44°	337	~1.5 nautical miles south of Sebastian Inlet, Florida
152	27.68°	80.37°	337	Riomar, Florida
153	27.52°	80.31°	339	~3 nautical miles north of Fort Pierce Inlet, Florida
154	27.37°	80.25°	338	Hutchinson Island, Florida
155	27.21°	80.17°	338	~2.5 nautical miles north of Saint Lucie Inlet, Florida
156	27.06°	80.11°	342	Jupiter Island, Florida
157	26.89°	80.06°	347	~3 nautical miles south of Jupiter Inlet, Florida
158	26.73°	80.03°	1	Palm Beach, Florida
159	26.56°	80.04°	12	Delray Beach, Florida
160	26.39°	80.07°	7	Boca Raton, Florida
161	26.23°	80.09°	8	Pompano Beach, Florida
162	26.06°	80.11°	7	Hollywood Beach, Florida
163	25.90°	80.12°	6	Miami Beach, Florida
164	25.72°	80.15°	11	Key Biscayne, Florida
165	25.52°	80.17°	18	Boca Chita Key, Florida
166	25.37°	80.24°	30	Old Rhodes Key, Florida

Table 2

Sheltered Phase III Stations

Station No.	Sheltered Angle, deg	Station No.	Sheltered Angle, deg
1	80-180	77	140-180
2	90-180	78	150-180
3	110-180	79	160-180
4	120-180	89	0-20
5	130-180	91	160-180
6	120-180	92	160-180
12	0-50	93	160-180
13	0-70	94	150-180
14	140-180	95	0-60
15	0-30	96	160-180
16	0-50	97	0-30; 160-180
17	0-30; 150-180	98	0-20; 150-180
18	0-50	99	0-20; 150-280
19	0-60; 160-180	100	0-20; 150-180
20	0-30; 140-180	101	0-20; 150-180
21	91-180	102	0-10; 130-180
22	0-90	103	140-180
23	0-90	104	140 0
24	0-40; 120-180	105	0-70
25	0-40; 130-180	106	0-40; 160-180
26	0-70; 150-180	107	0-30; 160-180
27	80-180	108	0-30; 160-180
28	150-180	109	0-20; 150-180
37	0-80	110	0-20; 140-180
39	0-50; 150-180	111	0-20; 150-180
40	0-30; 120-180	112	140-180
41	100-180	113	150-180
49	0-30	115	0-10
50	0-40	119	0-20
51	0-50	121	0-20; 170-180
52	0-60	122	0-10
53	120-180	123	160-180
54	120-180	124	0-10; 170-180
55	130-180	125	0-20
56	140-180	126	150-180
57	150-180	127	170-180
64	0-40	129	0-20
65	130-180	130	0-20; 160-180
66	140-180	131	0-20; 170-180
67	160-180	132	0-10; 160-180
71	0-30	133	160-180
72	150-180	134	170-180
73	160-180	147	0-40
74	0-30	148	0-20; 150-180
75	0-40	149	160-180
76	0-40	150	160-180

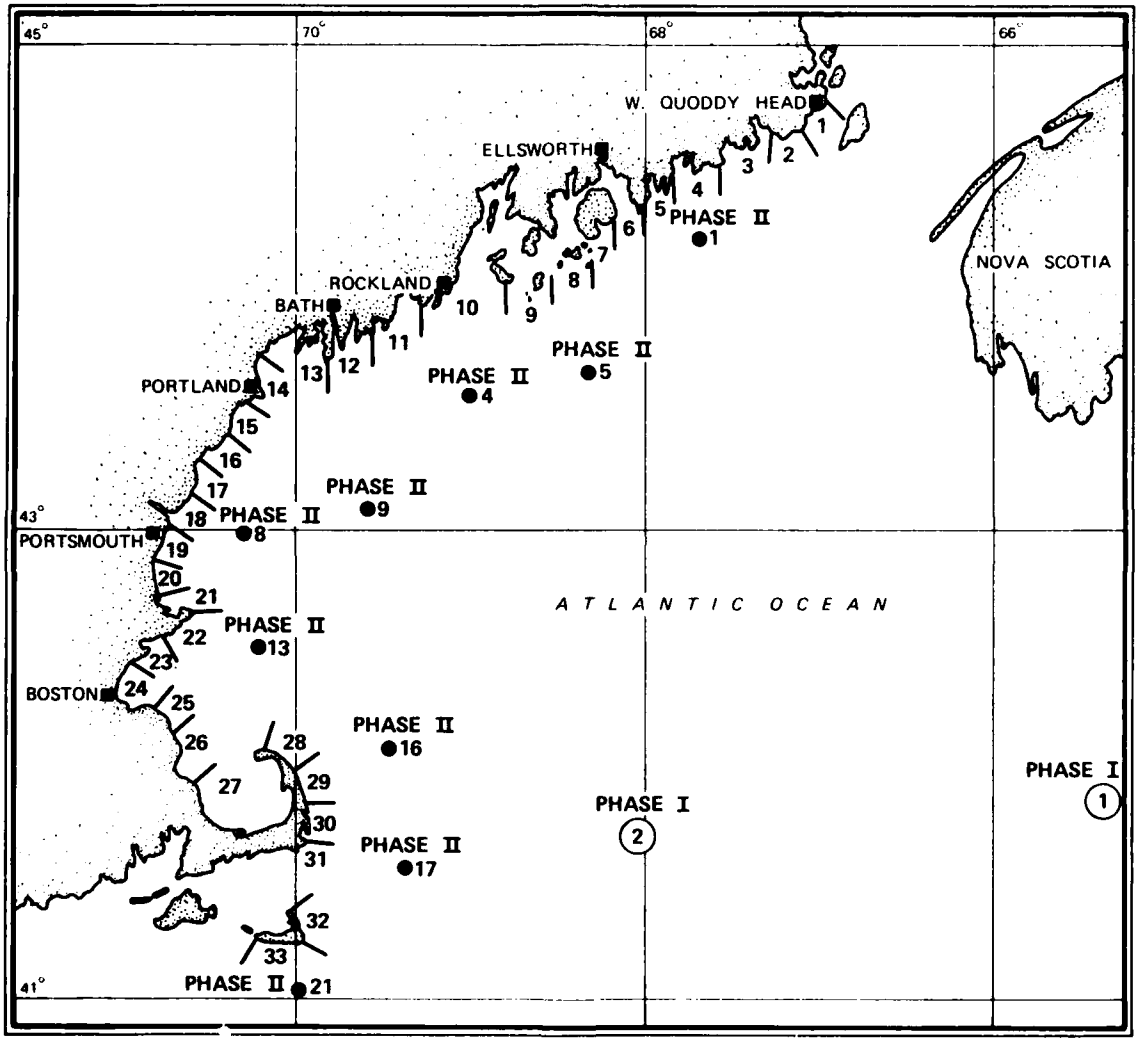


Plate 1. Locations of Phase III stations for shallow-water wave information along the Atlantic coast, region 1

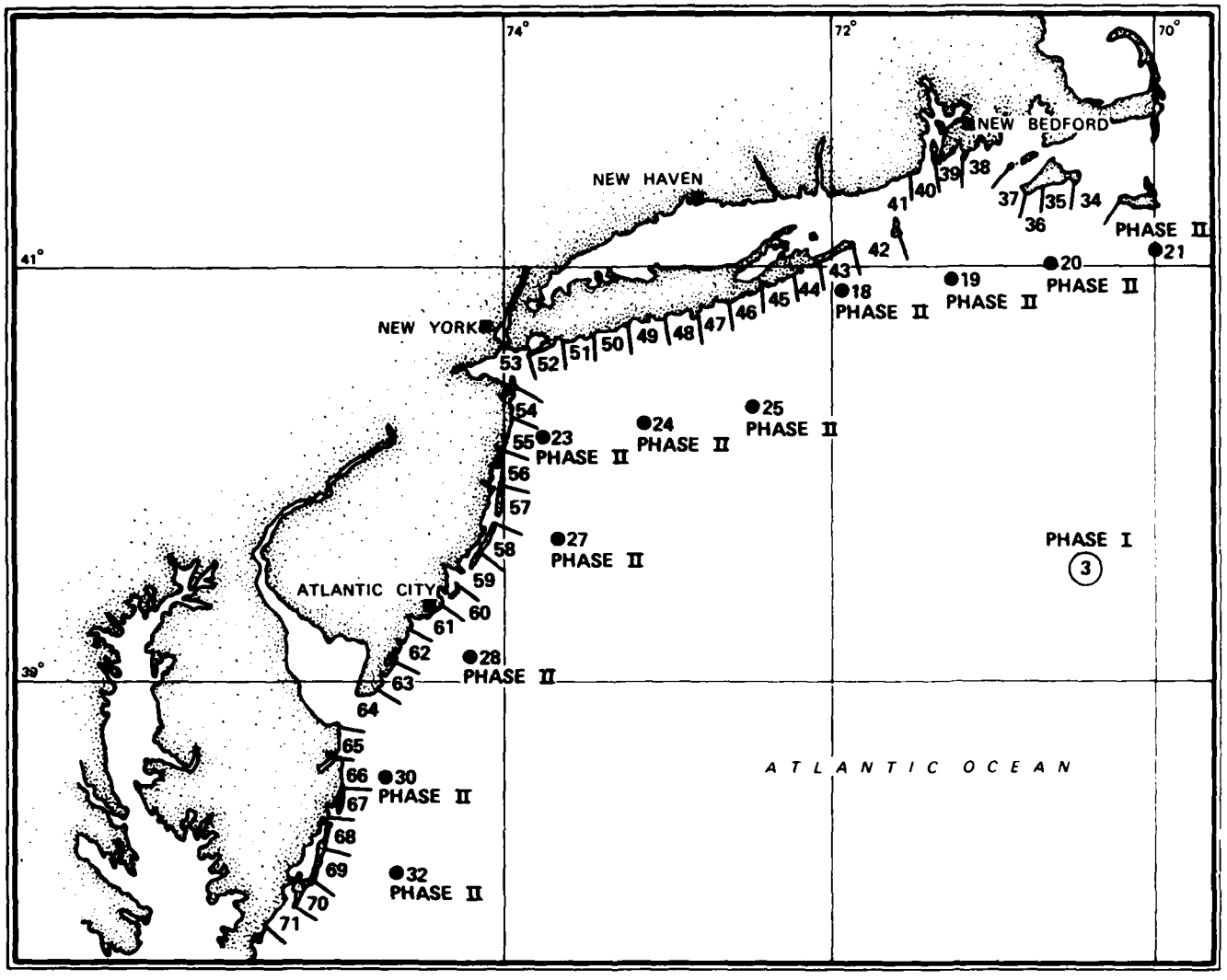


Plate 2. Locations of Phase II stations for shallow-water wave information along the Atlantic coast, region 2

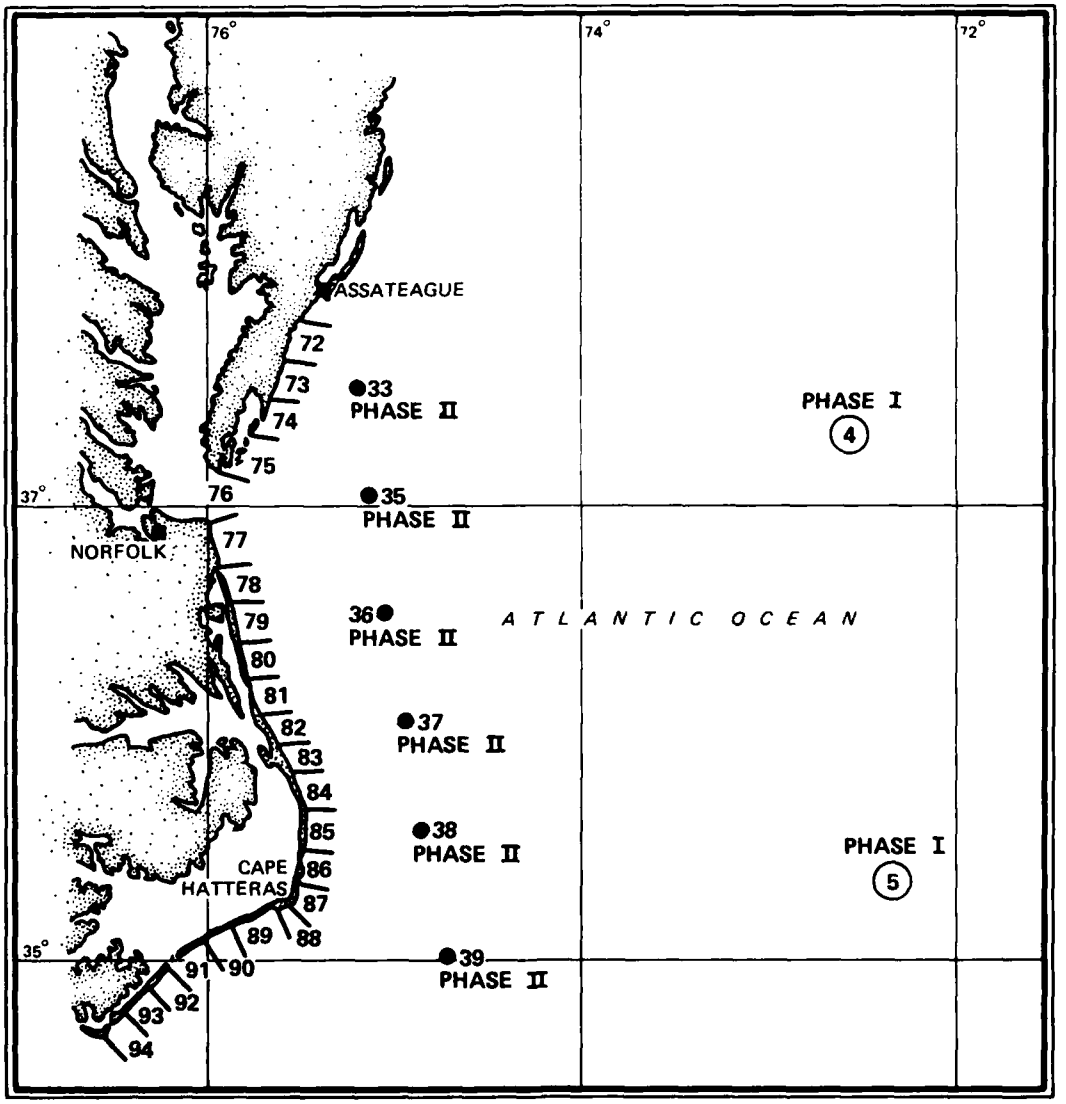


Plate 3. Locations of Phase III stations for shallow-water wave information along the Atlantic coast, region 3

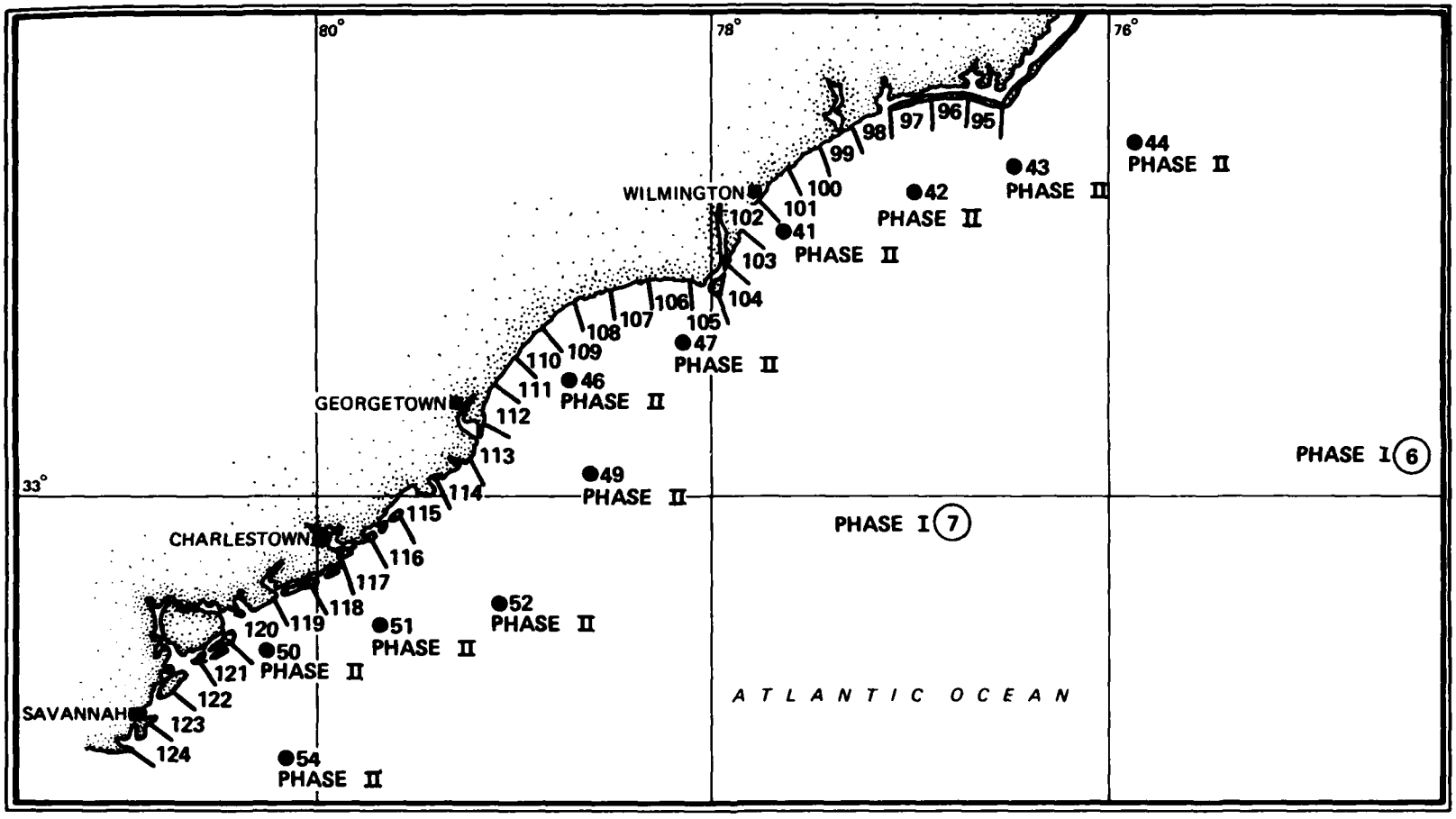


Plate 4. Locations of Phase III stations for shallow-water wave information along the Atlantic coast, region 4

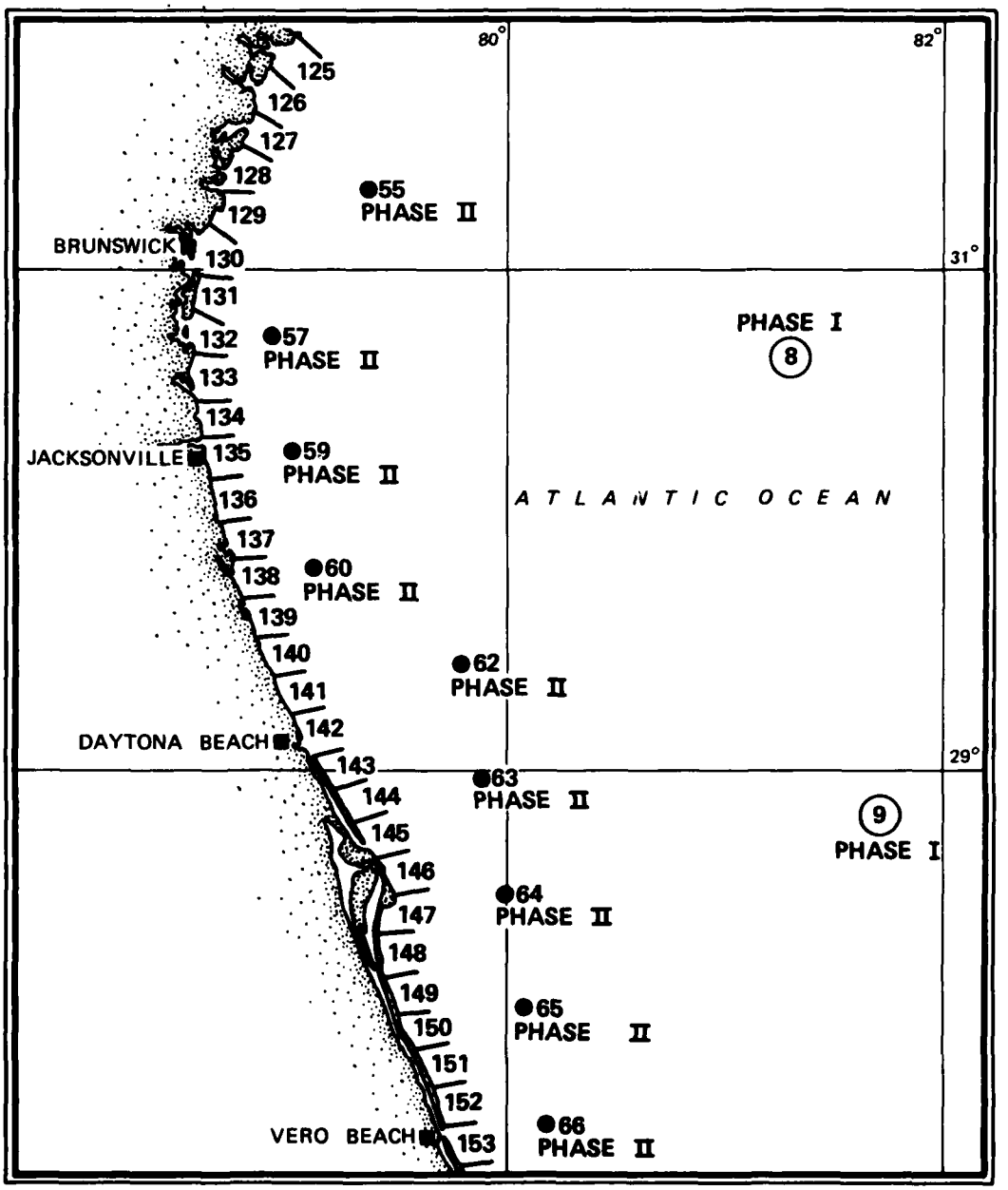


Plate 5. Locations of Phase III stations for shallow-water wave information along the Atlantic coast, region 5

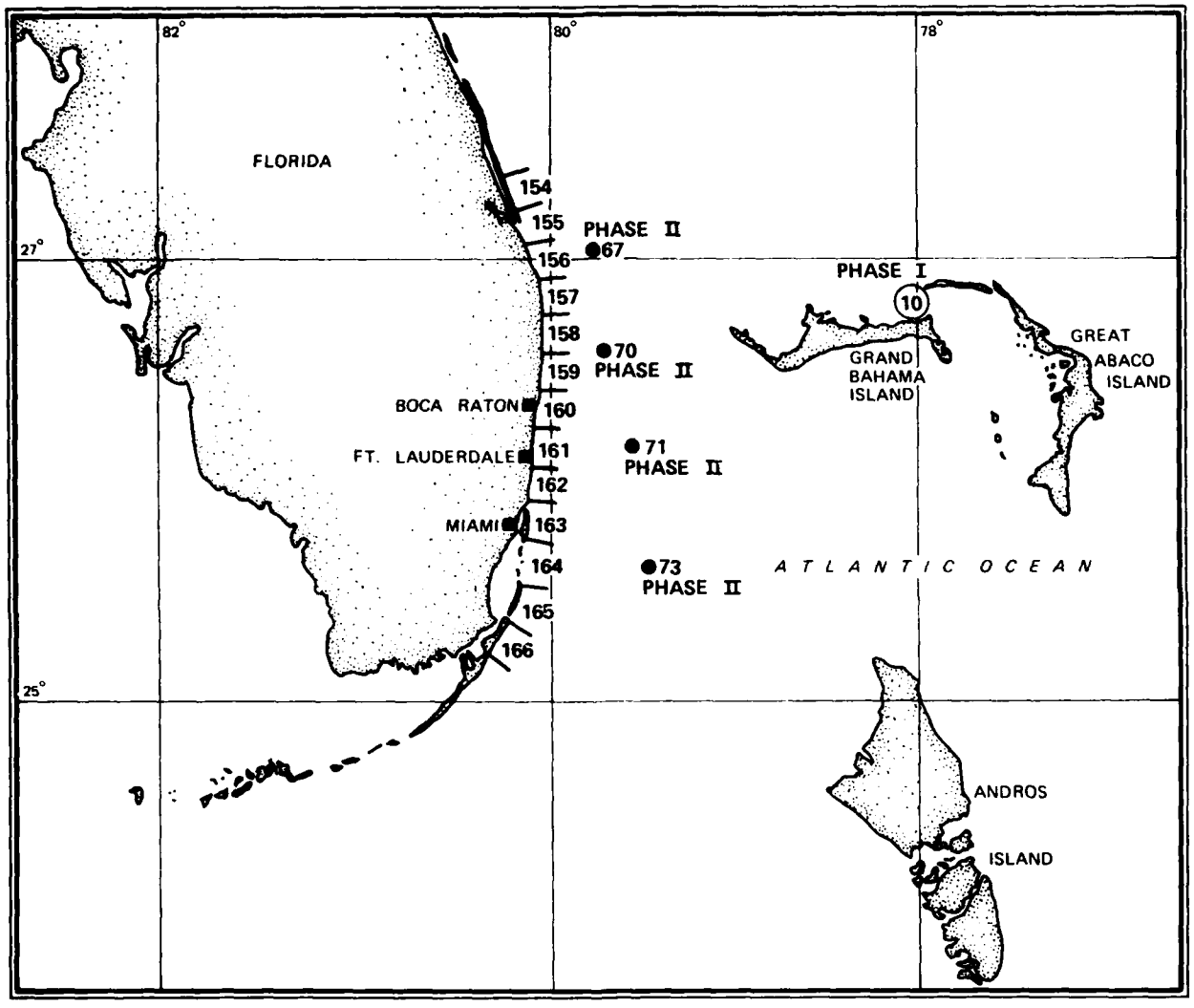
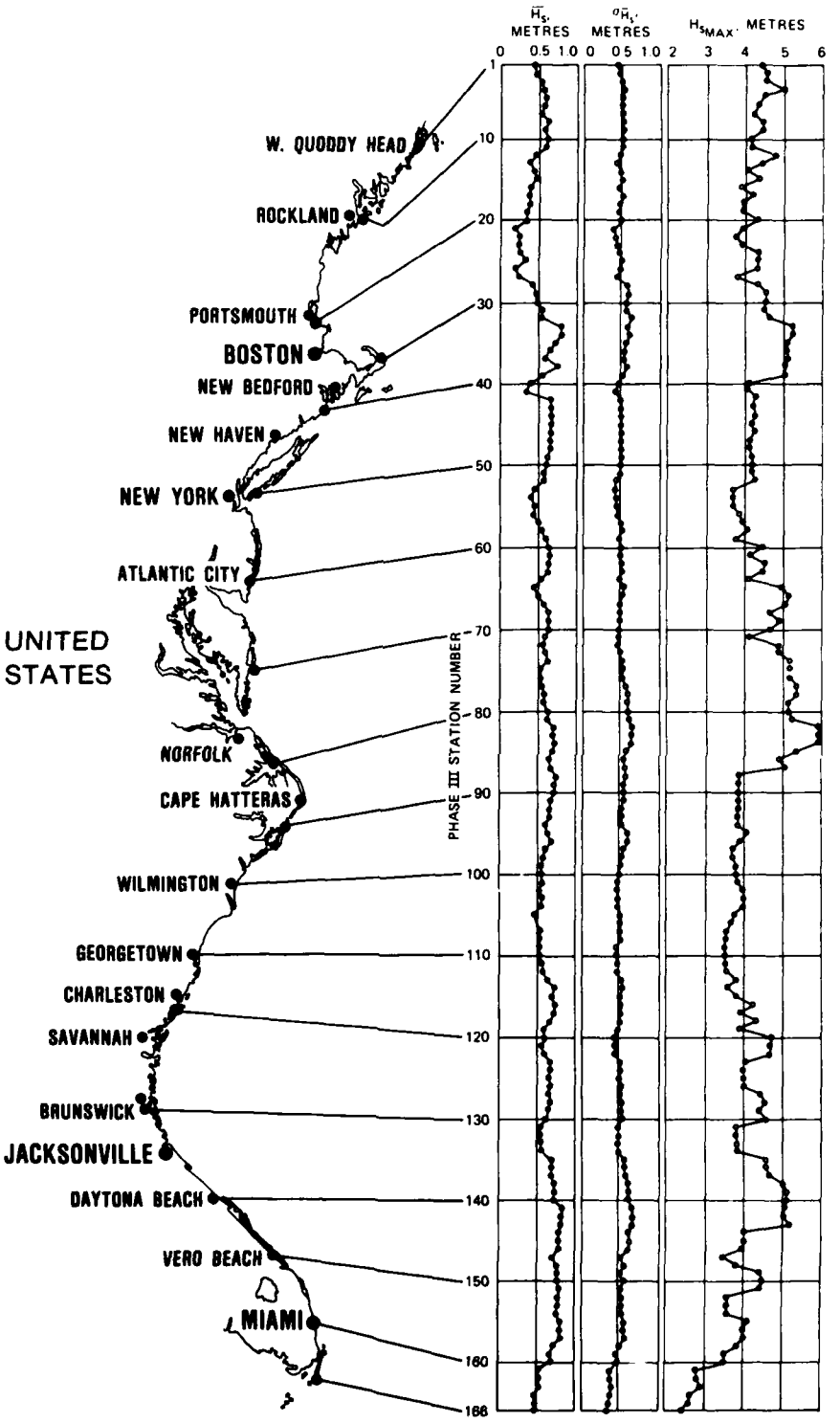


Plate 6. Locations of Phase III stations for shallow-water wave information along the Atlantic coast, region 6

APPENDIX A

GEOGRAPHICAL VARIATION IN THE WAVE CLIMATE


$\bar{H}_s$, METRES
0 0.5 1.0
$\sigma_{\bar{H}_s}$, METRES
0 0.5 1.0
$H_{s_{MAX}}$, METRES
2 3 4 5 6
1
10
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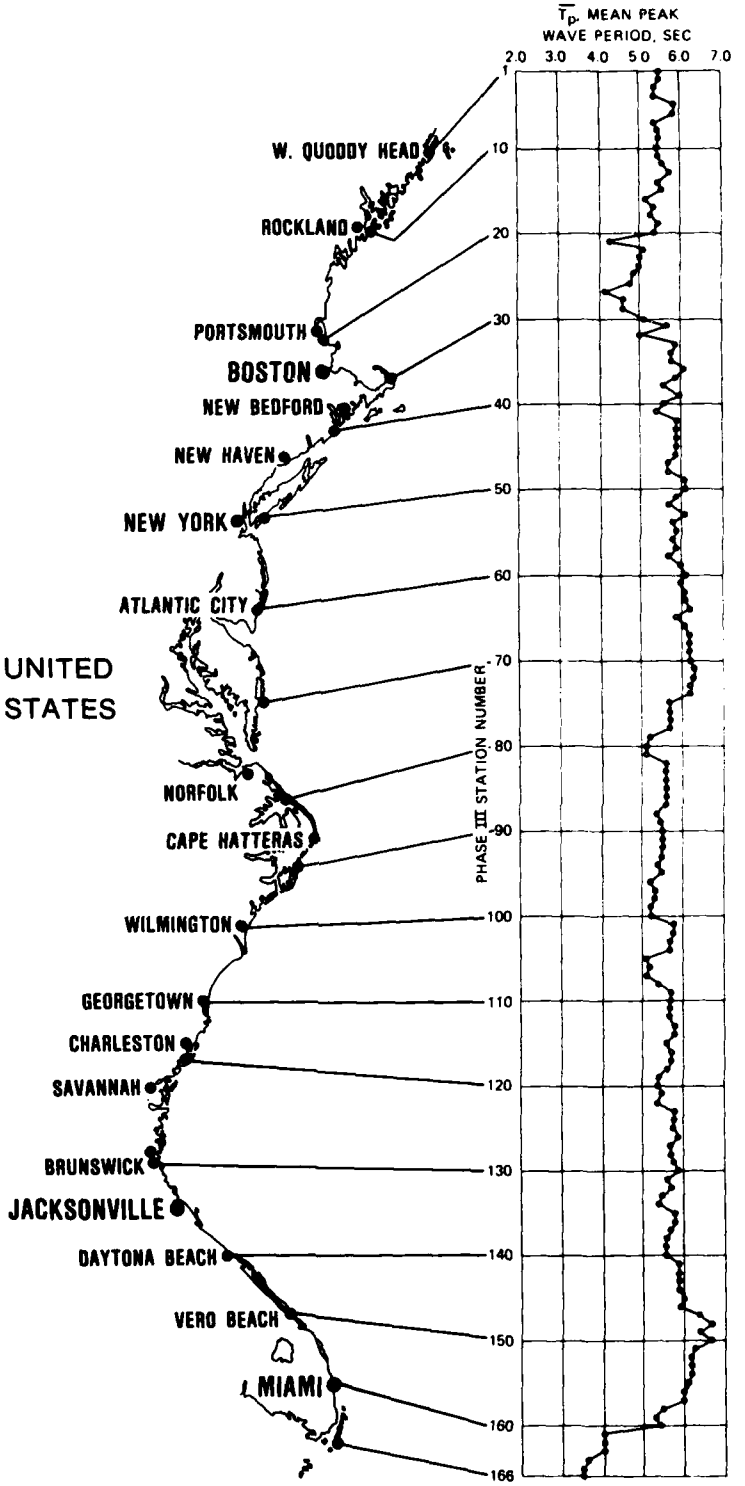
30
40
50
60
70
80
90
100
110
120
130
140
150
160
166
PHASE III STATION NUMBER
W. QUODDY HEAD
ROCKLAND
PORTSMOUTH
BOSTON
NEW BEDFORD
NEW HAVEN
NEW YORK
ATLANTIC CITY
UNITED STATES
NORFOLK
CAPE HATTERAS
WILMINGTON
GEORGETOWN
CHARLESTON
SAVANNAH
BRUNSWICK
JACKSONVILLE
DAYTONA BEACH
VERO BEACH
MIAMI


$\overline{T_p}$, MEAN PEAK
WAVE PERIOD, SEC
2.0
3.0
4.0
5.0
6.0
7.0
W. QUODDY HEAD
ROCKLAND
PORTSMOUTH
BOSTON
NEW BEDFORD
NEW HAVEN
NEW YORK
ATLANTIC CITY
UNITED
STATES
NORFOLK
CAPE HATTERAS
WILMINGTON
GEORGETOWN
CHARLESTON
SAVANNAH
BRUNSWICK
JACKSONVILLE
DAYTONA BEACH
VERO BEACH
MIAMI
PHASE III STATION NUMBER
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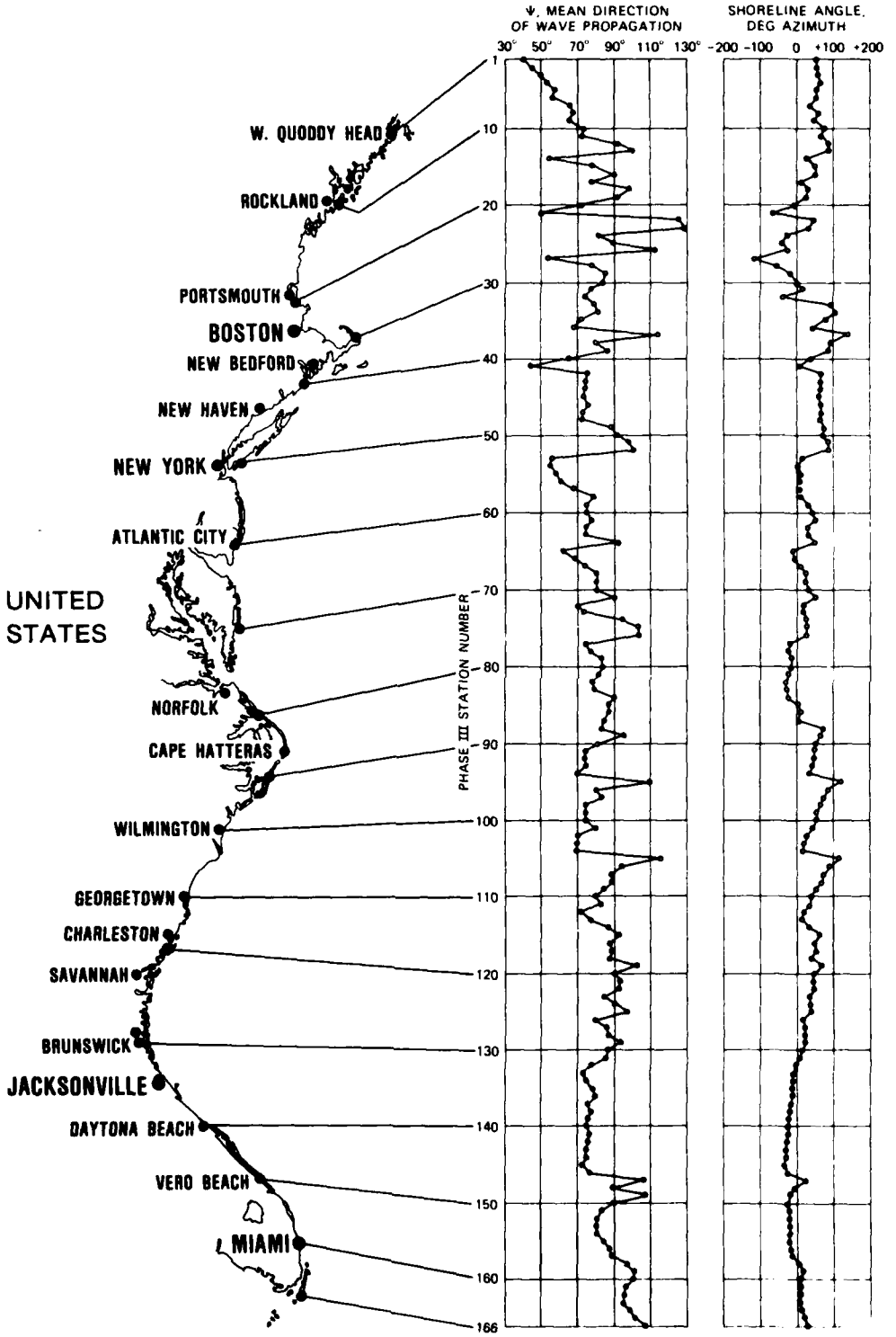
166


Ψ, MEAN DIRECTION OF WAVE PROPAGATION
30° 50° 70° 90° 110° 130°
SHORELINE ANGLE, DEG AZIMUTH
-200 -100 0 +100 +200
PHASE III STATION NUMBER
1
10
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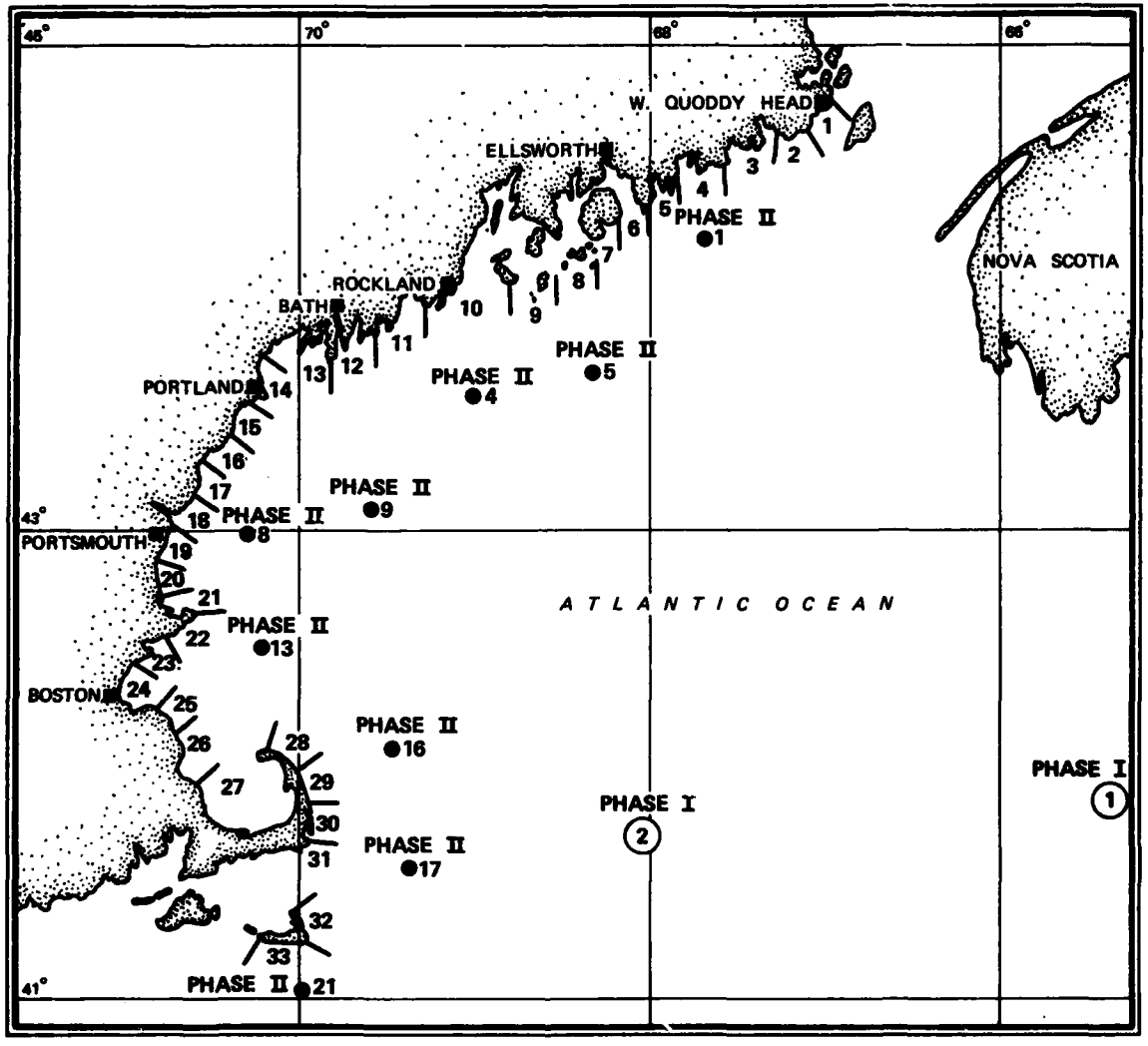
30
40
50
60
70
80
90
100
110
120
130
140
150
160
166
W. QUODDY HEAD
ROCKLAND
PORTSMOUTH
BOSTON
NEW BEDFORD
NEW HAVEN
NEW YORK
ATLANTIC CITY
UNITED STATES
NORFOLK
CAPE HATTERAS
WILMINGTON
GEORGETOWN
CHARLESTON
SAVANNAH
BRUNSWICK
JACKSONVILLE
DAYTONA BEACH
VERO BEACH
MIAMI


45°
70°
68°
66°
43°
41°
W. QUODDY HEAD
ELLSWORTH
ROCKLAND
BATH
PORTLAND
PORTSMOUTH
BOSTON
NOVA SCOTIA
ATLANTIC OCEAN
PHASE II
PHASE I
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STATION 1 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3578	6750	4447	3163	1192	316	78	.	.	.	19524
0.50 - 0.99	.	492	2987	1950	186	39	17	.	.	.	5671
1.00 - 1.49	.	.	29	196	73	6	.	.	.	.	304
1.50 - 1.99	.	.	.	.	5	1	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3578	7242	7463	5309	1456	362	95	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.71 ANGLE CLASS % = 25.5

STATION 1 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2055	2989	11	.	5497	10042	2973	270	354	.	24191
0.50 - 0.99	.	1071	3610	1014	220	4536	2648	272	349	.	13720
1.00 - 1.49	.	.	118	1548	826	1096	629	73	109	.	4399
1.50 - 1.99	.	.	.	27	436	908	400	71	10	.	1852
2.00 - 2.49	.	.	.	.	73	318	224	92	11	.	718
2.50 - 2.99	.	.	.	.	1	13	46	41	15	3	119
3.00 - 3.49	.	.	.	.	.	.	.	5	3	6	14
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2055	4060	3739	2589	7053	16913	6920	824	852	10	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 3.77 ANGLE CLASS % = 45.0

STATION 1 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	889	1728	1148	520	942	1925	539	273	44	651	8659
0.50 - 0.99	.	13	390	506	328	980	311	174	152	564	3418
1.00 - 1.49	.	.	1	58	220	503	179	135	94	212	1402
1.50 - 1.99	.	.	.	.	58	412	189	39	44	97	839
2.00 - 2.49	.	.	.	.	11	100	155	41	17	46	370
2.50 - 2.99	.	.	.	.	.	3	46	42	6	18	115
3.00 - 3.49	.	.	.	.	.	.	1	13	6	8	28
3.50 - 3.99	.	.	.	.	.	.	.	.	8	6	14
4.00 - 4.49	.	.	.	.	.	.	.	.	1	3	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	889	1741	1539	1084	1559	3923	1420	717	372	1605	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 4.37 ANGLE CLASS % = 14.9

STATION 1 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 1 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 1 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

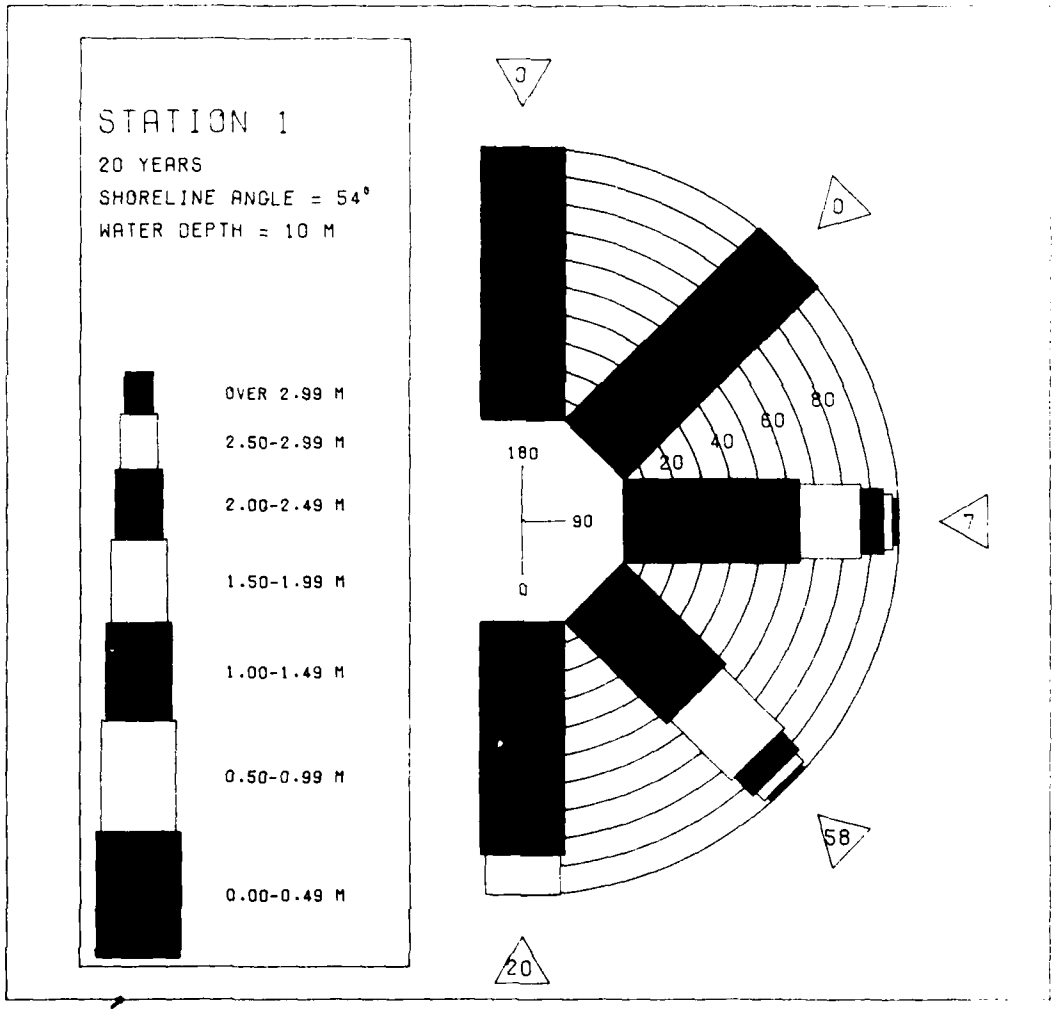
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 1 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	652	1146	560	368	763	1028	359	54	39	65	5234
0.50 - 0.99	.	157	698	347	73	555	297	44	50	56	2277
1.00 - 1.49	.	.	14	180	112	160	80	20	20	21	607
1.50 - 1.99	.	.	.	2	49	132	59	11	5	9	267
2.00 - 2.49	.	.	.	.	8	41	37	13	2	4	105
2.50 - 2.99	.	.	.	.	.	1	9	8	2	2	22
3.00 - 3.49	.	.	.	.	.	.	.	1	1	1	3
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	652	1303	1272	897	1005	2117	841	151	120	158	

AVE HS(M) = 0.44 LARGEST HS(M) = 4.37 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 1

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.1	0.5	0.3	0.5	0.4	0.4	0.5	0.2	0.2	0.3	0.4	0.4	0.4
1957	0.3	0.4	0.2	0.4	0.3	0.3	0.3	0.2	0.7	0.3	0.5	0.8	0.4
1958	0.3	0.3	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.3	0.3
1959	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.2	0.2	0.4	0.6	0.4	0.4
1960	0.3	0.5	0.3	0.7	0.3	0.4	0.4	0.3	0.3	0.3	0.6	0.4	0.4
1961	0.4	0.4	0.3	0.4	0.6	0.4	0.3	0.2	0.3	0.2	0.2	0.5	0.4
1962	0.8	0.3	0.2	0.6	0.2	0.5	0.4	0.4	0.3	0.4	0.3	0.8	0.4
1963	0.5	0.4	0.6	0.3	0.5	0.4	0.4	0.3	0.3	0.3	0.8	0.7	0.5
1964	0.6	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.5	0.5	0.5
1965	0.4	0.6	0.5	0.3	0.4	0.4	0.5	0.5	0.3	0.6	0.6	0.4	0.4
1966	0.3	0.4	0.5	0.3	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5	0.4
1967	0.5	0.5	0.4	0.3	0.5	0.4	0.6	0.5	0.4	0.5	0.4	0.4	0.5
1968	0.3	0.4	0.7	0.6	0.4	0.4	0.3	0.3	0.2	0.4	0.5	0.7	0.4
1969	0.4	0.8	0.6	0.6	0.7	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.5
1970	0.3	0.5	0.3	0.4	0.4	0.5	0.6	0.4	0.4	0.3	0.4	0.2	0.4
1971	0.5	0.7	0.6	0.4	0.6	0.4	0.6	0.4	0.3	0.4	0.3	0.4	0.5
1972	0.7	0.7	0.8	0.4	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5
1973	0.7	0.4	0.5	0.5	0.5	0.5	0.6	0.4	0.6	0.4	0.8	1.3	0.6
1974	0.6	0.5	0.9	0.8	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5
1975	0.5	0.3	0.3	0.4	0.3	0.5	0.6	0.2	0.3	0.3	1.0	0.9	0.5
MEAN	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 1

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.6	2.1	2.1	1.9	1.4	1.6	0.9	1.3	1.8	2.4	2.4
1957	1.8	1.7	2.1	2.3	1.1	2.2	1.4	0.9	1.9	1.3	2.7	2.9
1958	1.8	3.0	1.2	1.7	1.3	1.3	1.0	1.6	1.4	1.3	2.2	1.2
1959	3.0	2.4	2.7	1.7	1.3	1.3	1.3	1.1	1.2	2.1	2.8	2.6
1960	2.4	2.9	1.5	2.6	0.9	1.1	2.1	1.5	2.8	1.6	2.3	2.8
1961	2.3	1.9	2.6	1.8	3.3	1.6	1.2	1.3	2.3	1.1	1.6	2.5
1962	2.5	2.2	1.0	2.4	1.5	1.9	1.4	2.0	1.6	2.0	2.4	3.1
1963	2.9	2.1	2.6	2.0	2.1	1.7	1.3	1.6	2.0	1.4	4.0	3.5
1964	2.6	1.8	2.0	2.0	1.8	1.7	1.7	1.4	2.2	1.9	2.3	2.2
1965	2.2	2.4	2.0	2.1	1.2	1.7	1.1	1.4	1.8	2.1	2.1	2.2
1966	3.2	2.8	2.3	1.0	1.6	1.7	1.5	1.1	2.0	1.7	2.1	2.6
1967	2.4	2.2	1.9	2.3	2.1	1.2	1.3	2.1	1.6	2.1	2.1	2.1
1968	1.8	2.4	2.7	2.4	1.1	1.8	1.3	1.1	2.0	1.9	3.1	2.6
1969	2.2	2.7	2.0	2.3	2.4	1.3	1.3	1.4	2.4	1.3	2.2	2.8
1970	2.0	3.5	2.1	2.3	2.2	1.8	2.0	1.2	1.8	2.1	2.8	2.3
1971	2.5	2.5	3.5	2.3	2.0	1.2	1.2	1.7	1.1	2.0	2.4	2.0
1972	2.3	3.8	2.4	1.1	1 9	2.1	1.7	1.6	2.3	2.4	2.8	3.0
1973	2.6	2.5	2.7	1.9	2.1	1.3	2.0	1.2	2.0	2.4	3.1	4.4
1974	2.5	2.8	3.5	2.3	2.3	1.4	1.5	2.1	2.3	2.0	2.5	2.3
1975	2.5	2.8	2.6	2.7	1.3	2.1	1.7	1.2	2.4	1.2	2.8	3.1

LARGEST HS(METRES) FOR STATION 1 = 4.4

STATION 2 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 59.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3451	6415	4241	2517	800	284	99	15	8	3	17833
0.50 - 0.99	.	491	2973	2009	169	29	.	.	.	.	5670
1.00 - 1.49	.	.	34	195	46	6	.	.	.	.	281
1.50 - 1.99	.	.	.	1	3	1	.	.	.	.	5
2.00 - 2.49	.	.	.	.	1	1	.	.	.	.	2
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3451	6906	7248	4721	1019	321	99	15	8	3	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 2.05 ANGLE CLASS % = 23.8

STATION 2 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 59.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1942	2630	.	.	4909	8863	266	.	.	.	18610
0.50 - 0.99	.	1190	3408	838	224	5159	730	1	1	.	11551
1.00 - 1.49	.	.	186	1603	727	1117	595	6	1	.	4235
1.50 - 1.99	.	.	.	65	444	824	395	37	6	.	1771
2.00 - 2.49	.	.	.	.	68	333	222	85	8	.	716
2.50 - 2.99	.	.	.	.	1	22	53	53	6	3	138
3.00 - 3.49	.	.	.	.	.	.	.	10	6	3	19
3.50 - 3.99	.	.	.	.	.	.	.	.	.	3	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1942	3820	3594	2506	6373	16318	2261	192	28	9	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.66 ANGLE CLASS % = 37.1

STATION 2 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 59.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1365	2503	1067	477	1254	2186	2958	509	362	598	13279
0.50 - 0.99	.	201	1250	706	317	1209	2453	436	476	547	7669
1.00 - 1.49	.	.	15	347	396	653	975	264	241	320	3371
1.50 - 1.99	.	.	.	.	183	569	527	58	61	106	1504
2.00 - 2.49	.	.	.	.	41	232	210	39	22	54	598
2.50 - 2.99	.	.	.	.	1	23	100	54	6	20	204
3.00 - 3.49	.	.	.	.	.	.	5	18	11	8	42
3.50 - 3.99	.	.	.	.	.	.	.	3	11	6	20
4.00 - 4.49	.	.	.	.	.	.	.	.	1	6	7
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1365	2704	2332	1530	2212	4949	6228	1341	1187	1565	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 4.49 ANGLE CLASS % = 25.4

STATION 2 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 59.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	18	42	6	.	.	.	.	.	.	.	66
0.50 - 0.99	.	.	23	20	.	.	.	.	.	.	43
1.00 - 1.49	.	.	.	5	8	5	.	.	.	.	18
1.50 - 1.99	.	.	.	.	1	10	3	.	.	.	14
2.00 - 2.49	.	.	.	.	.	1	1	.	.	.	2
2.50 - 2.99	.	.	.	.	.	.	.	1	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	18	42	29	25	9	16	4	1	0	0	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 2.66 ANGLE CLASS % = 0.2

STATION 2 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 59.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 2 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 59.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

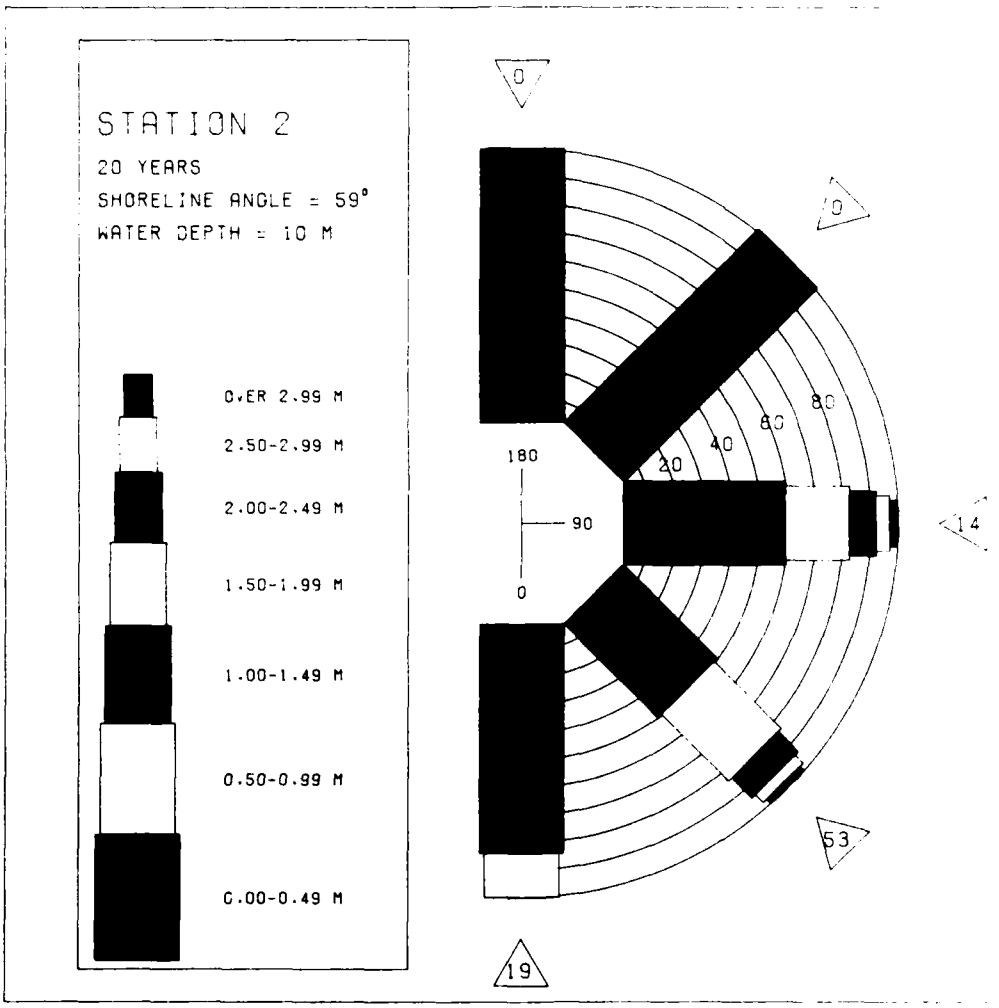
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 2 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 59.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	677	1159	531	299	696	1133	332	52	37	60	4976
0.50 - 0.99	.	188	765	357	73	647	318	43	47	54	2492
1.00 - 1.49	.	.	23	215	117	178	87	23	24	22	689
1.50 - 1.99	.	.	.	6	63	140	62	9	6	10	296
2.00 - 2.49	.	.	.	.	11	56	43	12	3	5	130
2.50 - 2.99	.	.	.	.	.	4	15	10	1	2	32
3.00 - 3.49	.	.	.	.	.	.	.	2	1	1	4
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	677	1347	1319	877	960	2158	857	151	120	155	

AVE HS(M) = 0.48 LARGEST HS(M) = 4.49 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 2

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.1	0.6	0.4	0.5	0.5	0.4	0.5	0.2	0.2	0.3	0.5	0.4	0.4
1957	0.4	0.4	0.2	0.5	0.4	0.4	0.4	0.2	0.7	0.3	0.5	0.9	0.4
1958	0.3	0.4	0.2	0.5	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.3	0.4
1959	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.3	0.3	0.4	0.7	0.5	0.5
1960	0.3	0.6	0.3	0.7	0.3	0.4	0.4	0.4	0.4	0.4	0.6	0.5	0.4
1961	0.4	0.5	0.3	0.5	0.7	0.5	0.3	0.3	0.4	0.3	0.3	0.5	0.4
1962	0.9	0.3	0.2	0.7	0.3	0.5	0.4	0.4	0.3	0.4	0.4	0.9	0.5
1963	0.6	0.5	0.6	0.3	0.6	0.4	0.5	0.3	0.3	0.3	0.8	0.7	0.5
1964	0.6	0.4	0.6	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.5
1965	0.5	0.6	0.5	0.3	0.4	0.5	0.5	0.5	0.3	0.6	0.7	0.4	0.5
1966	0.4	0.5	0.6	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
1967	0.6	0.6	0.4	0.3	0.5	0.4	0.6	0.6	0.4	0.6	0.5	0.4	0.5
1968	0.3	0.4	0.7	0.6	0.4	0.4	0.4	0.3	0.3	0.4	0.5	0.8	0.5
1969	0.5	0.9	0.7	0.7	0.7	0.4	0.3	0.5	0.3	0.4	0.5	0.5	0.5
1970	0.3	0.5	0.3	0.5	0.5	0.5	0.6	0.4	0.4	0.3	0.4	0.3	0.4
1971	0.5	0.7	0.7	0.5	0.6	0.4	0.6	0.5	0.4	0.4	0.4	0.5	0.5
1972	0.8	0.7	0.8	0.5	0.6	0.6	0.4	0.5	0.4	0.5	0.4	0.5	0.6
1973	0.8	0.4	0.5	0.6	0.6	0.5	0.7	0.4	0.6	0.4	0.9	1.4	0.6
1974	0.6	0.5	1.0	0.9	0.4	0.4	0.5	0.6	0.5	0.5	0.6	0.5	0.6
1975	0.6	0.4	0.4	0.5	0.3	0.5	0.7	0.2	0.4	0.3	1.0	1.0	0.5
MEAN	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 2

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.7	2.1	2.3	1.9	1.4	1.6	0.9	1.3	1.9	2.5	2.5
1957	2.0	1.7	2.1	2.3	1.2	2.3	1.5	0.9	2.0	1.4	2.7	2.9
1958	1.9	3.0	1.5	1.8	1.3	1.3	1.0	1.7	1.5	1.4	2.3	1.2
1959	3.0	2.5	3.0	1.9	1.4	1.3	1.4	1.2	1.2	2.4	3.0	3.1
1960	2.6	2.9	1.5	2.7	0.9	1.1	2.2	1.5	2.8	1.7	2.4	2.9
1961	2.5	2.0	2.7	1.8	3.4	1.7	1.3	1.3	2.4	1.1	1.6	2.6
1962	2.6	2.3	1.1	2.5	1.9	1.9	1.4	2.0	1.6	2.2	2.5	3.3
1963	3.1	2.2	2.6	2.0	2.1	1.8	1.3	1.7	2.1	1.4	4.1	3.6
1964	2.8	1.9	2.1	2.0	1.9	1.8	1.9	1.6	2.2	2.0	2.4	2.3
1965	2.3	2.4	2.2	2.2	1.2	1.9	1.2	1.4	1.9	2.1	2.2	2.3
1966	3.2	2.8	2.4	1.1	1.6	1.7	1.5	1.2	2.0	1.8	2.5	2.8
1967	2.5	2.3	1.9	2.3	2.1	1.3	1.3	2.1	1.6	2.2	2.3	2.3
1968	1.9	2.5	2.9	2.6	1.1	1.8	1.3	1.2	2.1	1.9	3.1	2.3
1969	2.2	2.8	2.1	2.4	2.4	1.3	1.4	1.4	2.4	1.3	2.3	2.9
1970	2.0	3.5	2.2	3.2	2.2	1.9	2.0	1.2	1.9	2.2	2.9	2.3
1971	2.6	2.7	3.8	2.3	2.0	1.3	1.3	1.8	1.1	2.1	2.4	2.1
1972	2.4	3.9	2.6	1.2	2.1	2.2	1.7	1.6	2.3	2.5	2.9	3.0
1973	3.0	2.6	2.8	2.0	2.2	1.3	2.1	1.2	2.1	2.4	3.4	4.5
1974	2.6	2.9	3.5	2.3	2.4	1.5	1.6	2.3	2.4	2.2	2.5	2.4
1975	2.7	3.4	2.7	2.8	1.3	2.2	1.9	1.2	2.4	1.2	2.9	3.1

LARGEST HS(METRES) FOR STATION 2 = 4.5

STATION 3 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 62.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3297	6235	4106	2525	811	143	39	6	.	.	17162
0.50 - 0.99	.	451	2973	2046	155	17	.	.	.	.	5642
1.00 - 1.49	.	.	42	251	37	1	.	.	.	.	331
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3297	6686	7121	4822	1004	161	39	6	0	0	

AVERAGE HS(M) = 0.35 LARGEST HS(M) = 1.91 ANGLE CLASS % = 23.1

STATION 3 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 62.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1822	2239	.	.	4341	8187	296	17	8	3	16913
0.50 - 0.99	.	1379	3240	689	203	5001	667	.	.	.	11179
1.00 - 1.49	.	.	246	1586	665	1078	549	5	.	.	4129
1.50 - 1.99	.	.	.	75	436	807	386	29	3	.	1736
2.00 - 2.49	.	.	.	.	65	328	231	82	5	.	711
2.50 - 2.99	.	.	.	.	1	15	59	56	5	1	137
3.00 - 3.49	.	.	.	.	.	.	.	13	6	3	22
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1822	3618	3486	2350	5711	15416	2188	202	27	9	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 4.51 ANGLE CLASS % = 34.8

STATION 3 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 62.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1129	1555	18	.	1170	1873	2830	480	390	557	10002
0.50 - 0.99	.	672	1683	316	68	1458	2409	419	516	530	8081
1.00 - 1.49	.	.	100	770	292	479	319	212	251	220	2643
1.50 - 1.99	.	.	.	29	359	513	155	56	68	106	1326
2.00 - 2.49	.	.	.	.	100	446	222	23	25	54	870
2.50 - 2.99	.	.	.	.	1	87	176	54	11	23	352
3.00 - 3.49	.	.	.	.	.	.	11	39	8	6	64
3.50 - 3.99	.	.	.	.	.	.	.	10	13	10	33
4.00 - 4.49	.	.	.	.	.	.	.	.	3	5	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1129	2227	1801	1115	1990	4866	6162	1293	1285	1511	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 4.49 ANGLE CLASS % = 23.4

STATION 3 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 62.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	826	1531	1059	759	592	583	95	10	.	.	5455
0.50 - 0.99	.	30	357	390	278	438	46	6	.	.	1539
1.00 - 1.49	.	.	.	42	176	328	25	6	.	.	577
1.50 - 1.99	.	.	.	.	29	159	25	13	1	.	227
2.00 - 2.49	.	.	.	.	1	30	18	3	1	.	53
2.50 - 2.99	.	.	.	.	.	1	6	.	.	.	7
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	826	1561	1416	1191	1076	1539	215	34	3	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 3.87 ANGLE CLASS % = 7.9

STATION 3 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 62.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 3 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 62.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

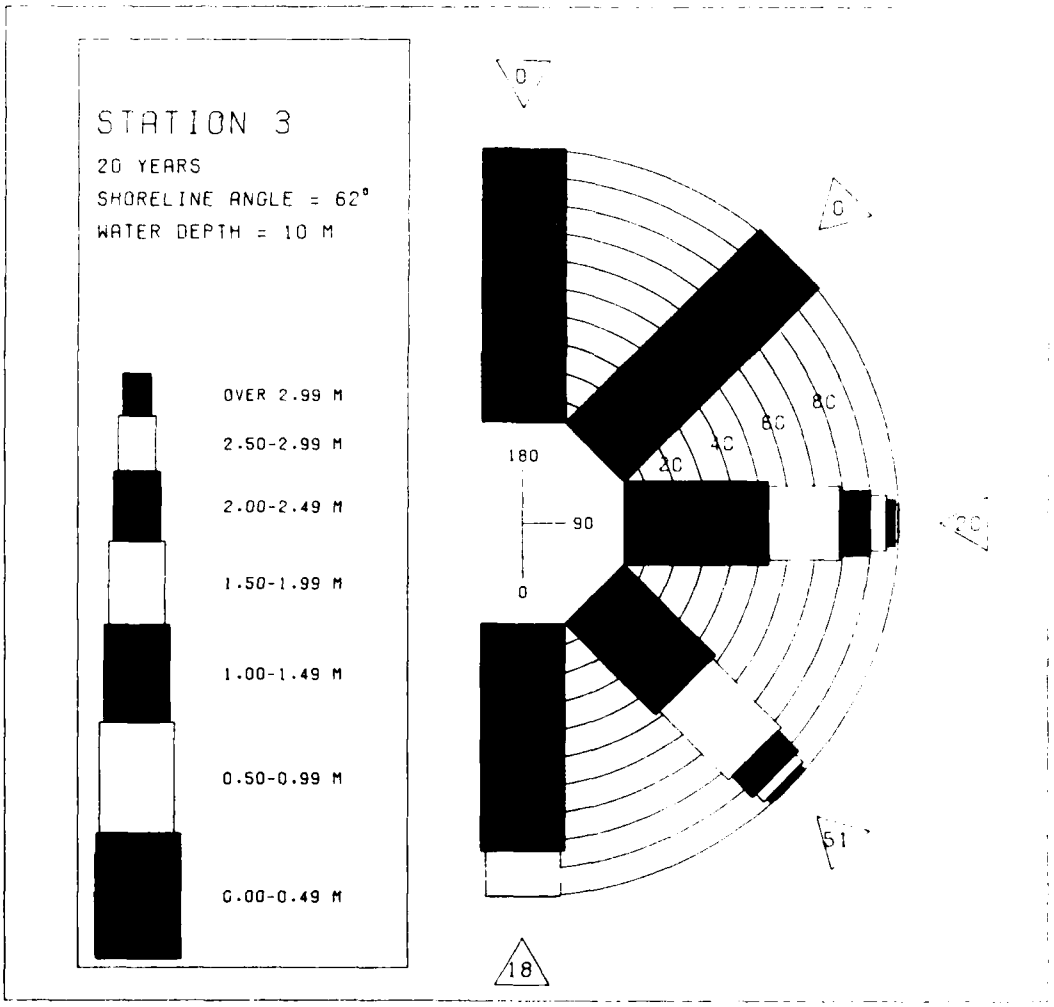
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 3 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 62.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	707	1156	518	308	691	1078	306	51	39	56	4950
0.50 - 0.99	.	253	805	434	70	692	312	41	51	53	2941
1.00 - 1.49	.	.	39	265	117	168	69	23	25	22	767
1.50 - 1.99	.	.	.	10	82	148	60	9	7	10	326
2.00 - 2.49	.	.	.	.	16	80	47	10	3	5	161
2.50 - 2.99	.	.	.	.	.	10	24	11	1	2	48
3.00 - 3.49	.	.	.	.	.	.	1	5	1	1	8
3.50 - 3.99	.	.	.	.	.	.	.	1	1	1	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	707	1409	1382	947	976	2196	859	150	128	150	

AVE HS(M) = 0.52 LARGEST HS(M) = 4.51 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 3

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.6	0.4	0.6	0.5	0.4	0.5	0.3	0.2	0.3	0.5	0.5	0.4
1957	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.2	0.7	0.3	0.6	0.9	0.5
1958	0.4	0.4	0.2	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.6	0.3	0.4
1959	0.6	0.7	0.7	0.5	0.4	0.4	0.5	0.3	0.3	0.6	0.7	0.6	0.5
1960	0.3	0.7	0.3	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.6	0.5
1961	0.5	0.5	0.4	0.5	0.8	0.5	0.3	0.3	0.4	0.3	0.3	0.6	0.4
1962	0.9	0.4	0.2	0.7	0.3	0.5	0.4	0.4	0.4	0.5	0.4	0.9	0.5
1963	0.6	0.5	0.7	0.4	0.6	0.5	0.5	0.3	0.3	0.4	0.9	0.7	0.5
1964	0.7	0.5	0.6	0.5	0.6	0.5	0.4	0.5	0.4	0.4	0.5	0.6	0.5
1965	0.5	0.7	0.6	0.3	0.4	0.5	0.5	0.5	0.3	0.7	0.7	0.5	0.5
1966	0.4	0.5	0.6	0.3	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5
1967	0.6	0.7	0.4	0.4	0.5	0.5	0.6	0.6	0.4	0.6	0.5	0.5	0.5
1968	0.3	0.5	0.8	0.6	0.4	0.4	0.4	0.3	0.3	0.4	0.6	0.9	0.5
1969	0.5	0.9	0.7	0.7	0.7	0.4	0.4	0.5	0.4	0.4	0.7	0.6	0.6
1970	0.3	0.6	0.4	0.5	0.5	0.5	0.6	0.4	0.4	0.4	0.5	0.3	0.5
1971	0.6	0.8	0.7	0.5	0.7	0.4	0.6	0.5	0.4	0.5	0.4	0.5	0.5
1972	0.8	0.8	0.9	0.5	0.6	0.6	0.4	0.5	0.4	0.5	0.5	0.6	0.6
1973	0.8	0.4	0.6	0.6	0.6	0.6	0.7	0.4	0.6	0.5	0.9	1.4	0.7
1974	0.7	0.6	1.1	0.9	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.6
1975	0.6	0.5	0.5	0.5	0.3	0.6	0.7	0.2	0.4	0.3	1.1	1.1	0.6
MEAN	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 3

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.9	2.2	2.3	2.1	1.4	1.6	0.9	1.3	2.0	2.6	2.6
1957	2.0	1.9	2.1	2.4	1.2	2.4	1.5	0.9	2.0	1.4	2.7	3.0
1958	2.2	3.0	1.5	2.0	1.4	1.4	1.3	1.7	1.5	1.4	2.4	1.3
1959	3.3	2.5	3.0	2.1	1.5	1.4	1.4	1.2	1.4	2.8	3.2	3.1
1960	2.7	2.9	1.6	2.8	0.9	1.1	2.2	1.5	2.8	2.0	2.5	3.0
1961	2.7	2.1	2.9	1.9	3.7	1.7	1.3	1.3	2.6	1.1	1.6	2.7
1962	2.7	2.4	1.1	2.6	1.9	2.0	1.4	2.1	1.6	2.2	2.6	3.3
1963	3.2	2.2	2.8	2.0	2.4	1.8	1.3	1.7	2.2	1.4	4.2	3.8
1964	2.8	1.9	2.1	2.0	1.9	1.8	1.9	1.8	2.2	2.0	2.5	2.4
1965	2.4	2.9	2.4	2.4	1.3	1.9	1.3	1.5	2.0	2.1	2.3	2.3
1966	3.3	2.8	2.5	1.1	1.7	1.8	1.7	1.2	2.1	1.8	2.6	3.1
1967	2.6	2.4	2.0	2.3	2.1	1.4	1.4	2.1	1.7	2.3	2.3	2.6
1968	2.0	2.9	2.9	2.6	1.2	1.9	1.4	1.2	2.1	1.9	3.2	3.0
1969	2.3	2.8	2.2	2.4	2.5	1.4	1.5	1.4	2.4	1.3	2.3	2.9
1970	2.1	3.9	2.3	3.3	2.2	1.9	2.1	1.2	2.0	2.2	3.0	2.3
1971	2.7	2.8	3.8	2.3	2.0	1.3	1.3	1.8	1.1	2.2	2.4	2.2
1972	2.4	3.9	2.7	1.2	2.1	2.2	1.8	1.7	2.5	2.6	3.0	3.0
1973	3.0	2.8	3.0	2.2	2.2	1.4	2.1	1.2	2.2	2.8	3.4	4.5
1974	2.7	3.0	3.5	2.4	2.4	1.5	1.6	2.3	2.5	2.2	2.5	2.5
1975	2.7	3.4	3.9	2.9	1.4	2.3	1.9	1.2	2.4	1.3	2.9	3.2

LARGEST HS(METRES) FOR STATION 3 = 4.5

STATION 4 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3158	5809	3851	2636	958	51	.	.	.	.	16463
0.50 - 0.99	.	479	3027	2243	140	25	.	.	.	.	5914
1.00 - 1.49	.	.	42	302	66	8	.	.	.	.	418
1.50 - 1.99	.	.	.	1	1	1	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3158	6288	6920	5182	1165	85	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.95 ANGLE CLASS % = 22.8

STATION 4 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1806	2332	.	.	1863	2677	319	20	8	3	9028
0.50 - 0.99	.	1452	3386	696	143	3651	723	1	.	.	10052
1.00 - 1.49	.	.	263	1605	539	963	462	3	.	.	3835
1.50 - 1.99	.	.	.	87	422	758	366	10	1	.	1644
2.00 - 2.49	.	.	.	.	75	378	263	61	1	.	778
2.50 - 2.99	.	.	.	.	1	15	71	54	3	.	144
3.00 - 3.49	.	.	.	.	.	.	3	20	1	1	25
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1806	3784	3649	2388	3043	8442	2207	169	15	4	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 3.53 ANGLE CLASS % = 25.5

STATION 4 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1086	1249	.	.	3146	6428	2446	441	304	525	15625
0.50 - 0.99	.	870	1637	181	100	3039	2462	436	441	539	9705
1.00 - 1.49	.	.	154	901	208	619	405	205	258	205	2955
1.50 - 1.99	.	.	.	47	408	407	237	77	71	114	1361
2.00 - 2.49	.	.	.	.	95	475	177	18	29	59	853
2.50 - 2.99	.	.	.	.	1	121	198	68	13	25	426
3.00 - 3.49	.	.	.	.	.	.	20	51	13	10	94
3.50 - 3.99	.	.	.	.	.	.	.	10	15	5	30
4.00 - 4.49	.	.	.	.	.	.	.	.	5	11	16
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	1086	2119	1791	1129	3958	11089	5945	1306	1149	1495	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 5.02 ANGLE CLASS % = 31.1

STATION 4 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1131	2031	1054	763	942	704	142	10	59	.	6836
0.50 - 0.99	.	130	814	506	302	667	68	.	65	.	2552
1.00 - 1.49	.	.	17	229	314	463	59	13	13	.	1108
1.50 - 1.99	.	.	.	1	109	386	42	13	3	.	554
2.00 - 2.49	.	.	.	.	34	97	47	5	23	.	205
2.50 - 2.99	.	.	.	.	.	8	32	11	8	.	59
3.00 - 3.49	.	.	.	.	.	.	3	5	3	.	11
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1131	2161	1885	1499	1701	2325	393	60	175	0	

AVERAGE HS(M) = 0.55 LARGEST HS(M) = 3.89 ANGLE CLASS % = 11.4

STATION 4 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	15	.	.	.	.	.	.	.	.	.	15
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	15	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 4 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

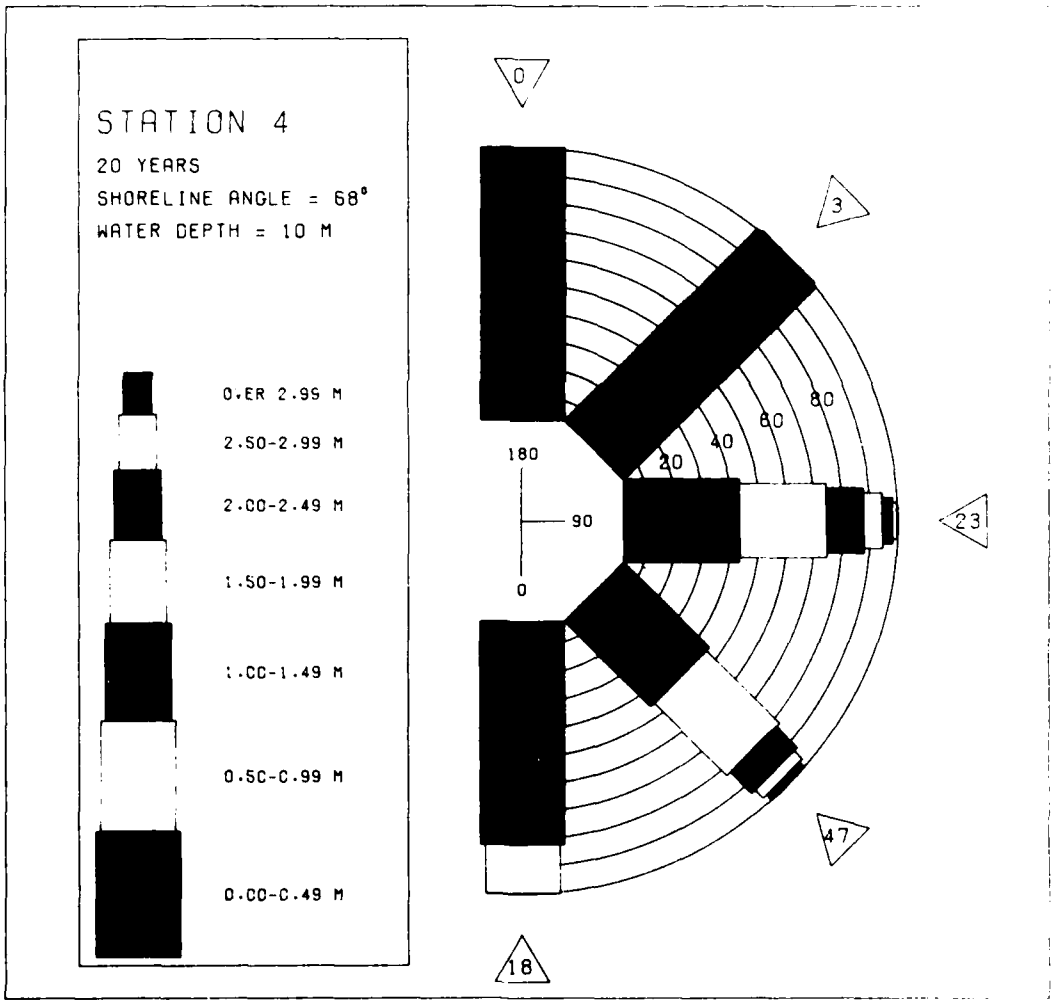
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 4 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	719	1142	490	340	691	986	290	47	37	52	4794
0.50 - 0.99	.	293	886	362	68	738	325	43	50	53	2818
1.00 - 1.49	.	.	47	303	112	205	92	22	27	20	828
1.50 - 1.99	.	.	.	13	94	155	64	10	7	11	354
2.00 - 2.49	.	.	.	.	20	95	48	8	5	5	181
2.50 - 2.99	.	.	.	.	.	14	30	13	2	2	61
3.00 - 3.49	.	.	.	.	.	.	2	7	1	1	11
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	719	1435	1423	1018	985	2193	851	151	130	145	

AVE HS(M) = 0.55 LARGEST HS(M) = 5.02 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 4

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.6	0.5	0.6	0.5	0.4	0.5	0.3	0.3	0.3	0.5	0.5	0.4
1957	0.4	0.5	0.3	0.6	0.4	0.4	0.4	0.2	0.7	0.4	0.6	1.0	0.5
1958	0.5	0.4	0.2	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.6	0.4	0.5
1959	0.7	0.7	0.7	0.5	0.4	0.4	0.6	0.3	0.3	0.6	0.8	0.6	0.5
1960	0.4	0.7	0.3	0.7	0.4	0.4	0.4	0.4	0.4	0.5	0.7	0.6	0.5
1961	0.5	0.5	0.4	0.5	0.8	0.5	0.3	0.3	0.4	0.3	0.3	0.6	0.5
1962	1.0	0.4	0.2	0.8	0.3	0.5	0.4	0.4	0.4	0.6	0.5	1.0	0.5
1963	0.7	0.6	0.7	0.4	0.7	0.5	0.5	0.4	0.3	0.4	1.0	0.8	0.6
1964	0.7	0.5	0.6	0.6	0.6	0.5	0.4	0.5	0.4	0.4	0.6	0.7	0.6
1965	0.5	0.7	0.6	0.4	0.4	0.5	0.5	0.6	0.3	0.7	0.8	0.5	0.5
1966	0.4	0.6	0.7	0.4	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.5
1967	0.7	0.8	0.5	0.4	0.6	0.5	0.6	0.6	0.4	0.6	0.6	0.5	0.6
1968	0.4	0.5	0.8	0.7	0.4	0.5	0.4	0.4	0.3	0.5	0.6	1.0	0.5
1969	0.5	1.0	0.7	0.8	0.7	0.4	0.4	0.5	0.4	0.4	0.7	0.7	0.6
1970	0.4	0.8	0.4	0.5	0.6	0.6	0.7	0.4	0.4	0.4	0.5	0.4	0.5
1971	0.6	0.9	0.7	0.5	0.7	0.4	0.6	0.5	0.4	0.5	0.4	0.6	0.6
1972	0.8	0.9	1.0	0.5	0.6	0.7	0.5	0.5	0.4	0.6	0.5	0.6	0.6
1973	0.9	0.5	0.6	0.7	0.6	0.6	0.7	0.4	0.6	0.5	1.0	1.5	0.7
1974	0.7	0.6	1.1	1.0	0.5	0.5	0.5	0.6	0.5	0.5	0.7	0.6	0.6
1975	0.7	0.5	0.5	0.5	0.3	0.6	0.7	0.2	0.4	0.3	1.1	1.1	0.6
MEAN	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 4

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.7	2.9	2.3	2.4	2.1	1.5	1.7	0.9	1.3	2.0	2.6	2.7
1957	2.0	1.9	2.1	2.4	1.2	2.4	1.5	0.9	2.0	1.4	2.8	3.1
1958	2.2	3.1	1.4	2.0	1.4	1.4	1.3	1.7	1.5	1.4	2.5	1.4
1959	3.3	2.5	3.3	2.1	1.5	1.4	1.4	1.2	1.4	2.9	3.2	3.4
1960	2.8	2.9	1.6	2.3	0.9	1.1	2.3	1.5	2.9	2.0	2.5	3.1
1961	2.7	2.1	2.9	1.9	3.8	1.9	1.3	1.4	2.6	1.2	1.7	2.8
1962	2.8	2.4	1.2	2.6	1.9	2.0	1.5	2.1	1.7	2.4	2.7	3.4
1963	3.2	2.2	2.8	2.0	2.4	1.8	1.4	1.8	2.3	1.5	4.2	4.0
1964	2.8	2.0	2.1	2.0	2.0	1.9	2.0	1.9	2.2	2.1	2.6	2.5
1965	2.4	3.1	2.4	2.4	1.3	1.9	1.3	1.5	2.0	2.1	2.3	2.3
1966	3.5	3.0	2.6	1.1	1.8	1.8	1.7	1.2	2.1	1.8	2.6	3.1
1967	2.7	2.5	2.1	2.3	2.2	1.4	1.4	2.1	1.7	2.3	2.3	2.6
1968	2.1	2.9	3.2	2.7	1.2	1.9	1.4	1.2	2.1	1.9	3.2	3.0
1969	2.3	2.8	2.3	2.6	2.5	1.4	1.6	1.5	2.4	1.4	2.3	3.2
1970	2.2	3.9	2.3	3.3	2.2	2.0	2.1	1.3	2.0	2.2	3.0	2.4
1971	2.8	2.9	3.9	2.4	2.0	1.3	1.3	1.9	1.1	2.2	2.4	2.3
1972	2.5	4.0	2.7	1.2	2.1	2.3	1.8	1.7	2.5	2.7	3.0	3.1
1973	3.3	2.8	3.0	2.1	2.3	1.4	2.2	1.3	2.2	2.8	3.6	5.0
1974	2.7	3.0	3.7	2.4	2.5	1.5	1.6	2.4	2.5	2.3	2.7	2.5
1975	2.8	3.7	3.9	2.9	1.4	2.3	1.9	1.2	2.6	1.3	3.0	3.2

LARGEST HS(METRES) FOR STATION 4 = 5.0

STATION 5 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2267	4869	3049	1726	655	237	56	.	.	.	12859
0.50 - 0.99	.	580	2997	1786	160	34	.	.	.	.	5557
1.00 - 1.49	.	.	35	219	71	5	.	.	.	.	330
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2267	5449	6081	3731	890	276	56	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 2.02 ANGLE CLASS % = 18.8

STATION 5 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1329	1764	.	.	4680	9077	2662	231	.	.	19743
0.50 - 0.99	.	1271	2753	651	213	4572	2522	239	.	.	12221
1.00 - 1.49	.	.	251	1478	604	1090	610	59	3	.	4095
1.50 - 1.99	.	.	.	71	444	763	422	51	6	.	1757
2.00 - 2.49	.	.	.	.	59	306	193	87	8	.	653
2.50 - 2.99	.	.	.	.	1	23	56	49	8	1	138
3.00 - 3.49	.	.	.	.	.	.	1	5	5	3	14
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1329	3035	3004	2200	6001	15831	6466	721	30	5	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.66 ANGLE CLASS % = 38.6

STATION 5 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	648	797	.	.	807	1605	525	253	385	535	5555
0.50 - 0.99	.	677	1146	87	37	1040	393	159	527	528	4594
1.00 - 1.49	.	.	171	718	136	407	193	150	220	225	2220
1.50 - 1.99	.	.	.	56	276	328	160	47	47	100	1114
2.00 - 2.49	.	.	.	.	112	446	133	15	22	49	777
2.50 - 2.99	.	.	.	.	1	123	167	44	6	20	361
3.00 - 3.49	.	.	.	.	.	.	20	39	8	10	77
3.50 - 3.99	.	.	.	.	.	.	.	11	10	6	27
4.00 - 4.49	.	.	.	.	.	.	.	.	5	6	11
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	648	1474	1317	861	1469	3949	1591	718	1230	1479	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 4.49 ANGLE CLASS % = 14.8

STATION 5 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	674	1209	227	37	2174	1875	511	63	11	309	7090
0.50 - 0.99	.	270	1074	516	355	2492	829	63	285	1663	7519
1.00 - 1.49	.	.	51	385	369	537	366	87	420	521	2696
1.50 - 1.99	.	.	.	10	177	386	119	47	100	15	854
2.00 - 2.49	.	.	.	.	34	168	35	5	39	8	309
2.50 - 2.99	.	.	.	.	1	20	37	15	11	5	89
3.00 - 3.49	.	.	.	.	.	.	6	5	8	.	19
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	674	1479	1352	950	3150	5488	1863	286	815	2521	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 3.92 ANGLE CLASS % = 18.6

STATION 5 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	193	487	571	826	489	142	.	.	.	.	2708
0.50 - 0.99	.	.	5	6	18	10	.	.	.	.	39
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	193	487	576	832	507	152	0	0	0	0	

AVERAGE HS(M) = 0.15 LARGEST HS(M) = 0.82 ANGLE CLASS % = 2.8

STATION 5 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

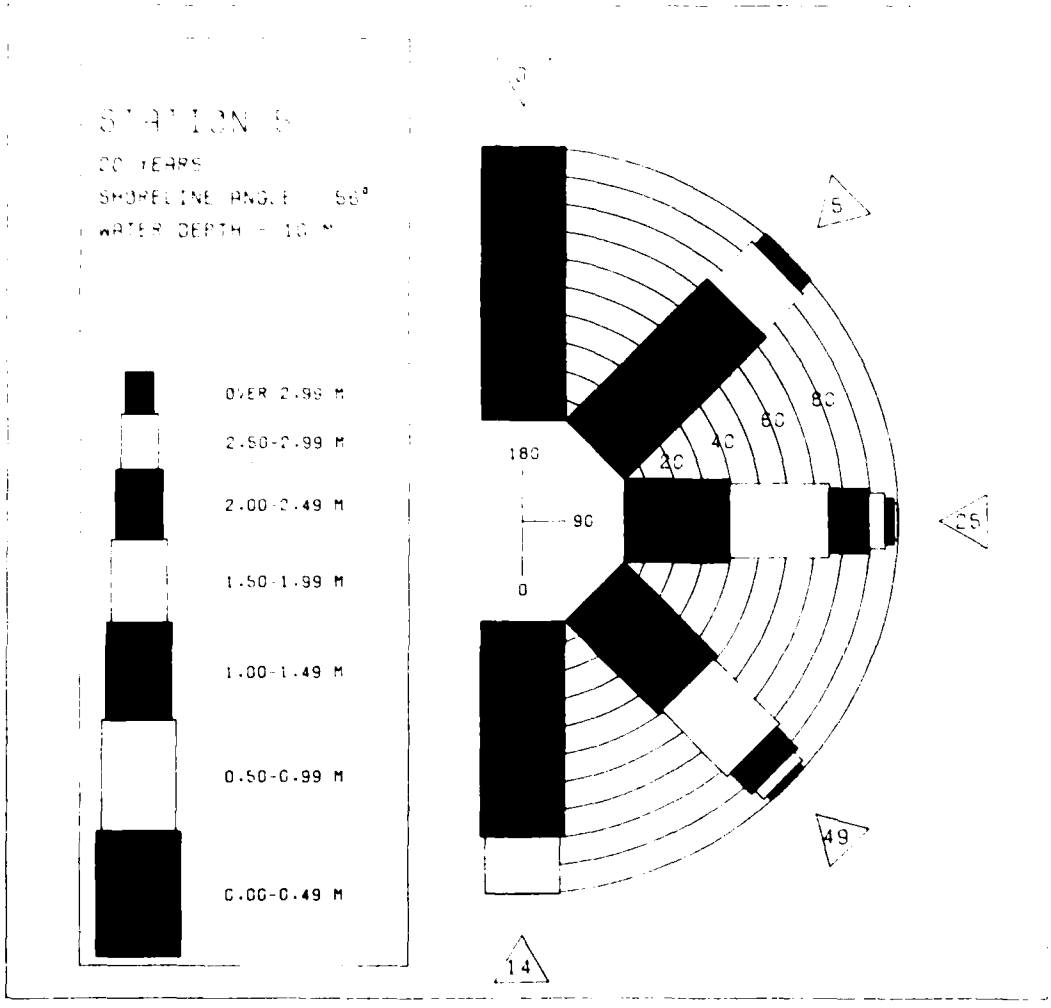
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 5 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	511	912	384	259	830	1293	375	54	39	64	4721
0.50 - 0.99	.	279	797	455	813	1273	449	75	219	74	4334
1.00 - 1.49	.	.	50	130	1555	1113	449	84	74	63	3518
1.50 - 1.99	.	.	.	13	100	167	170	14	16	11	1371
2.00 - 2.49	.	.	.	.	20	34	36	10	5	5	1711
2.50 - 2.99	.	.	.	.	.	16	6	10	2	1	513
3.00 - 3.49	.	.	.	.	.	.	.	1	1	1	93
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	511	1191	1231	857	1200	2566	996	168	205	396	

AVE HS(M) = 0.58 LARGEST HS(M) = 4.49 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 5

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.6	0.6	0.6	0.5	0.4	0.5	0.3	0.2	0.3	0.5	0.6	0.4
1957	0.4	0.4	0.3	0.5	0.4	0.4	0.6	0.4	0.7	0.3	0.9	1.1	0.5
1958	0.7	0.4	0.4	0.6	0.5	0.4	0.5	0.6	0.4	0.4	0.6	0.3	0.5
1959	0.6	0.7	0.7	0.5	0.4	0.4	0.5	0.3	0.3	0.6	0.8	0.6	0.5
1960	0.3	0.7	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.6	0.5
1961	0.5	0.5	0.4	0.6	1.0	1.1	1.0	0.9	1.0	0.7	0.5	0.6	0.7
1962	0.9	0.6	0.2	0.8	0.4	0.5	0.4	0.4	0.5	0.6	0.5	1.0	0.6
1963	0.6	0.5	0.7	0.3	0.7	0.4	0.5	0.3	0.3	0.4	1.0	0.7	0.6
1964	0.7	0.5	0.6	0.5	0.6	0.5	0.4	0.7	0.4	0.4	0.5	0.8	0.5
1965	0.5	0.7	0.5	0.5	0.4	0.5	0.5	0.5	0.3	0.6	0.7	0.5	0.5
1966	0.5	0.5	0.7	0.3	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5
1967	0.6	0.7	0.7	0.4	0.6	0.5	0.6	0.6	0.4	0.6	0.5	0.6	0.6
1968	0.5	1.1	0.8	0.7	0.4	0.5	0.4	0.3	0.3	0.4	0.6	0.9	0.6
1969	0.5	1.0	0.8	0.8	0.7	0.5	0.4	0.5	0.4	0.4	0.8	1.0	0.6
1970	0.3	1.5	0.9	0.6	0.8	0.8	0.7	0.5	0.4	0.6	0.6	0.6	0.7
1971	0.6	0.9	0.7	0.6	0.7	0.4	0.6	0.5	0.4	0.5	0.5	0.5	0.6
1972	0.8	0.9	1.1	0.5	0.7	0.7	0.4	0.5	0.4	0.7	0.6	0.6	0.7
1973	0.8	0.5	0.7	0.7	0.7	0.6	0.7	0.4	0.6	0.5	0.9	1.5	0.7
1974	0.7	0.6	1.2	0.9	0.5	0.6	0.5	0.6	0.5	0.4	0.7	0.5	0.6
1975	0.6	0.5	1.0	1.2	0.3	0.6	0.7	0.2	0.4	0.3	1.1	1.2	0.7
MEAN	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 5

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.8	2.1	2.3	1.9	1.4	1.6	0.9	1.3	1.9	2.6	2.6
1957	1.8	1.9	2.3	2.4	1.1	2.3	1.4	0.9	2.0	1.4	2.7	3.1
1958	2.3	3.0	1.7	2.1	1.4	1.4	1.3	1.7	1.5	1.4	2.4	1.2
1959	3.1	2.4	3.0	2.1	1.4	1.4	1.4	1.2	1.2	3.1	3.2	2.8
1960	2.7	2.9	1.6	2.6	1.1	1.3	2.1	1.5	2.8	2.4	2.5	3.1
1961	2.7	2.0	2.9	2.0	3.7	1.9	1.6	1.6	2.6	1.3	1.6	2.7
1962	2.8	2.4	1.1	2.6	1.9	1.9	1.4	2.0	1.7	2.1	2.6	3.1
1963	3.0	2.1	2.8	2.0	2.4	1.7	1.3	1.7	2.2	1.4	4.2	3.5
1964	2.8	2.2	2.0	2.0	1.9	1.8	1.7	1.9	2.2	2.0	2.6	2.3
1965	2.3	3.2	2.4	2.5	1.3	1.7	1.3	1.4	2.0	2.2	2.3	2.3
1966	3.3	2.8	2.5	1.0	1.7	1.7	1.6	1.1	2.1	2.0	2.6	2.8
1967	2.7	2.4	2.0	2.3	2.1	1.2	1.4	2.1	1.7	2.2	2.3	2.7
1968	2.0	3.0	2.7	2.6	1.1	2.1	1.4	1.1	2.1	1.9	3.1	3.0
1969	2.3	2.7	2.5	2.5	2.4	1.3	1.6	1.4	2.4	1.3	2.3	3.3
1970	2.1	3.9	2.3	2.9	2.2	1.9	2.0	1.3	1.9	2.2	2.9	2.3
1971	2.7	2.8	3.8	2.3	2.0	1.2	1.2	1.8	1.3	2.2	2.4	2.2
1972	2.3	3.9	2.7	1.2	2.1	2.1	1.7	1.6	2.5	2.6	3.0	3.0
1973	2.9	2.8	2.8	2.4	2.2	1.4	2.0	1.2	2.1	2.4	3.1	4.5
1974	2.6	2.8	3.5	2.3	2.4	1.5	1.5	2.1	2.5	2.1	2.8	2.5
1975	2.6	2.9	3.9	2.9	1.3	2.3	1.7	1.2	2.4	1.2	2.8	3.1

LARGEST HS(METRES) FOR STATION 5 = 4.5

STATION 6 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 55.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2292	4940	3054	1706	655	266	66	.	.	.	12979
0.50 - 0.99	.	525	2972	1788	162	32	5	.	.	.	5484
1.00 - 1.49	.	.	29	224	70	3	.	.	.	.	326
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2292	5465	6055	3718	893	301	71	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 2.02 ANGLE CLASS % = 18.8

STATION 6 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 55.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1303	1753	.	.	4924	9377	2713	236	.	.	20306
0.50 - 0.99	.	1271	2772	650	217	4532	2571	248	1	.	12262
1.00 - 1.49	.	.	246	1514	607	1079	639	59	13	.	4157
1.50 - 1.99	.	.	.	71	438	761	403	61	6	.	1740
2.00 - 2.49	.	.	.	.	65	304	184	90	10	.	653
2.50 - 2.99	.	.	.	.	1	20	53	41	10	1	126
3.00 - 3.49	.	.	.	.	.	.	1	5	5	5	16
3.50 - 3.99	.	.	.	.	.	.	.	.	1	3	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1303	3024	3018	2235	6252	16073	6564	740	46	9	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 3.77 ANGLE CLASS % = 39.3

STATION 6 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 55.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	687	936	.	.	730	1574	547	260	390	559	5683
0.50 - 0.99	.	675	1259	100	39	973	349	162	530	533	4520
1.00 - 1.49	.	.	150	718	177	385	176	143	203	207	2159
1.50 - 1.99	.	.	.	41	388	364	154	39	46	99	1131
2.00 - 2.49	.	.	.	.	104	439	143	17	20	51	774
2.50 - 2.99	.	.	.	.	1	111	172	46	6	18	354
3.00 - 3.49	.	.	.	.	.	.	15	41	6	10	72
3.50 - 3.99	.	.	.	.	.	.	.	10	8	6	24
4.00 - 4.49	.	.	.	.	.	.	.	.	5	3	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	687	1611	1409	859	1439	3846	1556	718	1214	1486	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.37 ANGLE CLASS % = 14.8

STATION 6 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 55.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	703	1483	855	718	2600	2188	545	68	11	311	9482
0.50 - 0.99	.	121	725	475	417	2446	838	68	225	1687	7002
1.00 - 1.49	.	.	18	217	297	540	335	80	422	513	2422
1.50 - 1.99	.	.	.	3	99	306	102	49	100	15	674
2.00 - 2.49	.	.	.	.	22	109	27	11	39	8	216
2.50 - 2.99	.	.	.	.	.	8	23	6	11	5	53
3.00 - 3.49	.	.	.	.	.	.	3	3	6	.	12
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	703	1604	1598	1413	3435	5597	1873	286	817	2539	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 3.92 ANGLE CLASS % = 19.9

STATION 6 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 55.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	5	.	.	.	.	.	.	.	.	.	5
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	5	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 6 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 55.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

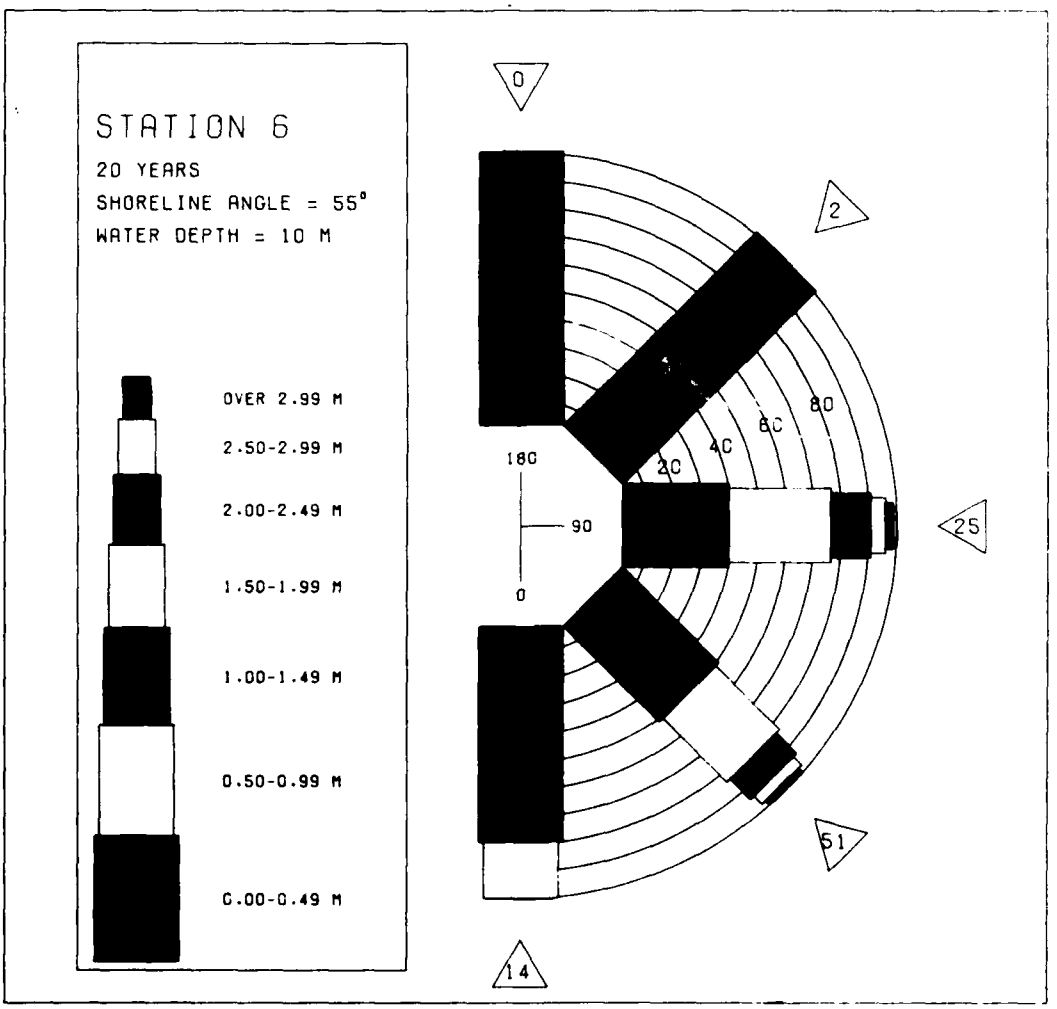
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 6 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 55.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	499	911	390	242	891	1340	387	56	40	87	4843
0.50 - 0.99	.	259	772	301	83	798	376	47	75	222	2933
1.00 - 1.49	.	.	44	267	115	200	115	28	63	76	904
1.50 - 1.99	.	.	.	11	93	143	66	15	15	11	354
2.00 - 2.49	.	.	.	.	19	85	35	11	7	5	162
2.50 - 2.99	.	.	.	.	.	14	24	9	2	2	51
3.00 - 3.49	.	.	.	.	.	.	2	4	1	1	8
3.50 - 3.99	.	.	.	.	.	.	.	1	1	1	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	499	1170	1206	821	1201	2580	1005	171	204	401	

AVE HS(M) = 0.57 LARGEST HS(M) = 4.37 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 6

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.6	0.6	0.6	0.5	0.4	0.5	0.3	0.2	0.3	0.5	0.5	0.4
1957	0.4	0.4	0.3	0.5	0.3	0.4	0.6	0.4	0.7	0.3	0.9	1.1	0.5
1958	0.7	0.4	0.4	0.6	0.5	0.4	0.5	0.6	0.4	0.4	0.6	0.3	0.5
1959	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.3	0.3	0.6	0.8	0.6	0.5
1960	0.3	0.7	0.3	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.5	0.5
1961	0.5	0.5	0.4	0.5	1.0	1.1	1.0	0.9	1.0	0.7	0.5	0.5	0.7
1962	0.9	0.5	0.2	0.8	0.4	0.5	0.4	0.4	0.4	0.6	0.5	1.0	0.6
1963	0.6	0.5	0.7	0.3	0.7	0.4	0.5	0.3	0.3	0.4	1.0	0.7	0.5
1964	0.7	0.5	0.6	0.5	0.6	0.5	0.4	0.7	0.4	0.4	0.5	0.7	0.5
1965	0.5	0.7	0.5	0.5	0.4	0.4	0.5	0.5	0.3	0.6	0.7	0.5	0.5
1966	0.4	0.5	0.7	0.3	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5
1967	0.6	0.7	0.7	0.4	0.5	0.5	0.6	0.6	0.4	0.6	0.5	0.6	0.6
1968	0.5	1.0	0.8	0.7	0.4	0.5	0.4	0.3	0.3	0.4	0.6	0.8	0.6
1969	0.5	1.0	0.7	0.8	0.7	0.5	0.4	0.5	0.4	0.4	0.7	0.9	0.6
1970	0.3	1.4	0.9	0.5	0.8	0.8	0.7	0.5	0.4	0.6	0.6	0.6	0.7
1971	0.5	0.8	0.7	0.5	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.5	0.5
1972	0.8	0.9	1.1	0.5	0.7	0.7	0.4	0.5	0.4	0.7	0.6	0.6	0.6
1973	0.8	0.5	0.7	0.7	0.7	0.5	0.7	0.4	0.6	0.5	0.9	1.4	0.7
1974	0.7	0.6	1.1	0.9	0.5	0.5	0.5	0.5	0.5	0.4	0.7	0.5	0.6
1975	0.6	0.5	1.0	1.1	0.3	0.6	0.6	0.2	0.4	0.3	1.0	1.1	0.6
MEAN	0.5	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 6

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.8	2.1	2.3	1.9	1.4	1.6	0.9	1.3	1.9	2.5	2.5
1957	1.8	1.9	2.2	2.3	1.1	2.3	1.4	0.9	2.0	1.4	2.7	3.1
1958	2.3	3.0	1.4	2.1	1.4	1.4	1.3	1.7	1.5	1.4	2.4	1.2
1959	3.1	2.4	2.9	2.1	1.4	1.4	1.4	1.1	1.2	3.1	3.2	2.7
1960	2.5	2.9	1.6	2.6	1.0	1.2	2.1	1.5	2.8	2.2	2.5	3.0
1961	2.7	2.0	2.9	1.9	3.7	1.9	1.6	1.6	2.6	1.3	1.6	2.6
1962	2.7	2.4	1.1	2.6	1.9	1.9	1.4	2.0	1.6	2.1	2.6	3.1
1963	3.0	2.1	2.8	2.0	2.4	1.7	1.3	1.7	2.2	1.4	4.0	3.5
1964	2.8	2.1	2.0	2.0	1.8	1.8	1.7	1.9	2.2	2.0	2.5	2.3
1965	2.3	3.2	2.4	2.5	1.3	1.7	1.3	1.4	2.0	2.1	2.3	2.3
1966	3.2	2.8	2.5	1.0	1.7	1.7	1.6	1.1	2.1	1.9	2.6	2.8
1967	2.6	2.4	2.0	2.3	2.1	1.2	1.4	2.1	1.7	2.2	2.1	2.7
1968	2.0	3.0	2.7	2.5	1.1	2.0	1.3	1.1	2.1	1.9	3.1	2.9
1969	2.2	2.7	2.4	2.5	2.4	1.3	1.6	1.4	2.4	1.3	2.3	3.3
1970	2.1	3.9	2.3	2.9	2.2	1.8	2.0	1.3	1.9	2.2	2.9	2.3
1971	2.7	2.7	3.6	2.3	2.0	1.2	1.2	1.7	1.3	2.2	2.4	2.0
1972	2.3	3.8	2.7	1.1	2.1	2.1	1.7	1.6	2.5	2.6	3.0	3.0
1973	2.9	2.8	2.8	2.4	2.2	1.4	2.0	1.2	2.1	2.4	3.1	4.4
1974	2.6	2.8	3.5	2.3	2.4	1.5	1.5	2.1	2.5	2.0	2.8	2.4
1975	2.6	2.9	3.9	2.9	1.3	2.3	1.7	1.2	2.4	1.2	2.8	3.1

LARGEST HS(METRES) FOR STATION 6 = 4.4

STATION 7 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2763	5667	3677	1581	1220	2065	1	.	.	.	16974
0.50 - 0.99	.	479	3068	1382	479	497	10	.	.	.	5915
1.00 - 1.49	.	.	17	95	165	22	.	.	.	.	299
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2763	6146	6762	3058	1872	2584	11	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.59 ANGLE CLASS % = 23.2

STATION 7 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1365	1704	.	.	5128	8976	3131	331	232	34	20901
0.50 - 0.99	.	1156	2248	657	258	3292	1505	152	323	23	9614
1.00 - 1.49	.	.	179	1101	627	1033	475	94	75	25	3609
1.50 - 1.99	.	.	.	29	354	636	241	73	25	10	1368
2.00 - 2.49	.	.	.	.	61	224	148	51	22	3	509
2.50 - 2.99	.	.	.	.	1	18	34	23	8	3	87
3.00 - 3.49	.	.	.	.	.	.	.	3	5	1	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1365	2860	2427	1787	6429	14179	5534	727	690	100	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.91 ANGLE CLASS % = 36.1

STATION 7 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	545	592	.	.	881	1288	759	42	128	448	4683
0.50 - 0.99	.	552	845	82	56	1480	484	224	195	260	4178
1.00 - 1.49	.	.	130	597	97	419	160	162	88	171	1824
1.50 - 1.99	.	.	.	23	239	258	83	30	29	77	739
2.00 - 2.49	.	.	.	.	71	335	124	10	10	6	555
2.50 - 2.99	.	.	.	.	.	73	102	42	.	5	222
3.00 - 3.49	.	.	.	.	.	.	23	41	1	1	66
3.50 - 3.99	.	.	.	.	.	.	1	6	5	.	12
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	545	1144	975	702	1344	3853	1736	557	457	969	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 4.22 ANGLE CLASS % = 12.3

STATION 7 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	539	501	.	.	451	225	11	1	10	234	1972
0.50 - 0.99	.	492	804	42	13	121	49	8	.	176	1705
1.00 - 1.49	.	.	100	460	126	58	11	1	.	54	810
1.50 - 1.99	.	.	3	30	244	159	1	1	.	3	441
2.00 - 2.49	.	.	.	.	68	345	53	1	.	.	467
2.50 - 2.99	.	.	.	.	.	124	124	15	.	.	263
3.00 - 3.49	.	.	.	.	.	1	17	25	.	.	43
3.50 - 3.99	.	.	.	.	.	.	1	5	.	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	539	993	907	532	902	1033	267	57	10	467	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 3.69 ANGLE CLASS % = 5.7

STATION 7 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	359	574	1	.	88	164	11	.	.	.	1197
0.50 - 0.99	.	289	917	331	73	282	23	.	.	.	1915
1.00 - 1.49	.	.	53	494	417	286	25	.	.	.	1375
1.50 - 1.99	.	.	.	6	155	501	111	6	.	.	779
2.00 - 2.49	.	.	.	.	34	169	82	8	.	.	293
2.50 - 2.99	.	.	.	.	.	10	20	29	.	.	59
3.00 - 3.49	.	.	.	.	.	.	1	1	.	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	359	863	971	831	767	1512	273	44	0	0	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 3.02 ANGLE CLASS % = 5.6

STATION 7 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

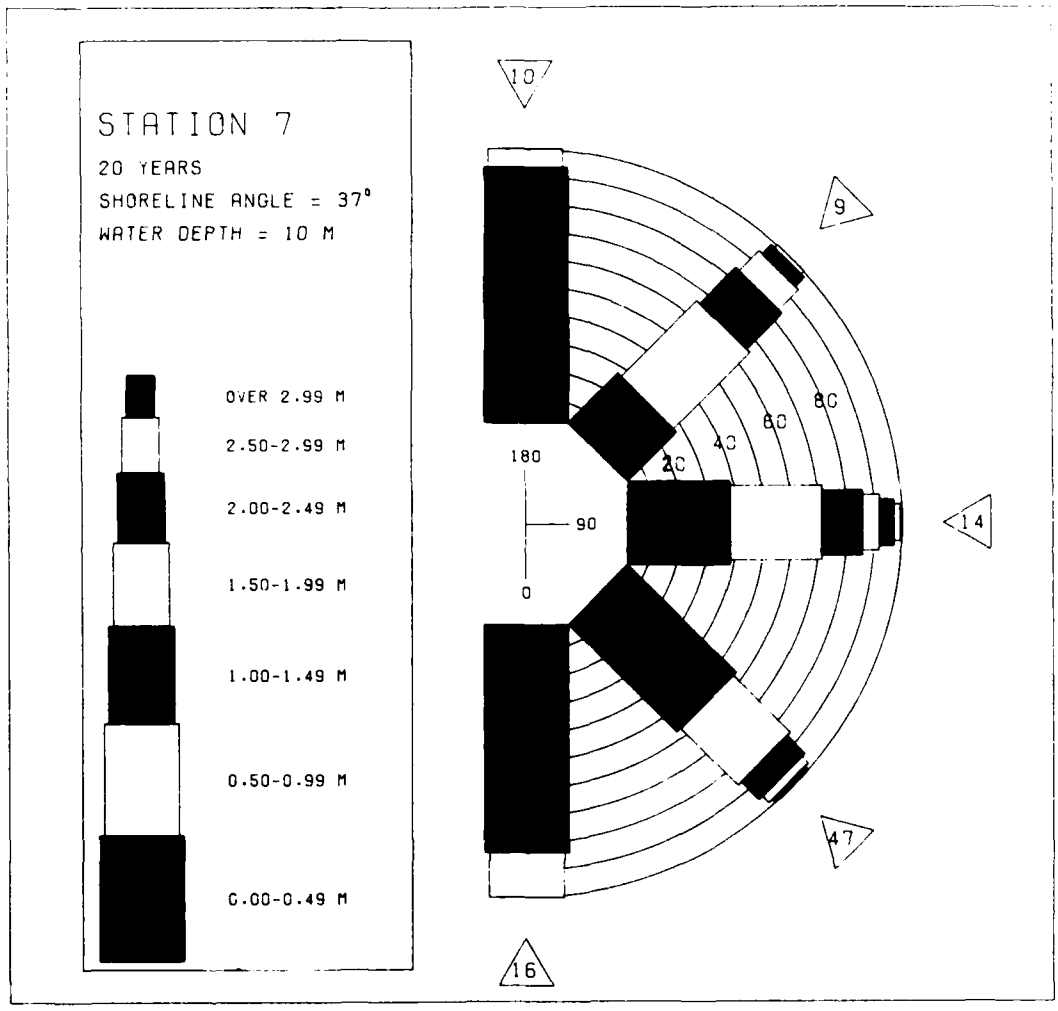
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	918	1707	1966	3547	1647	130	.	.	.	.	9915
0.50 - 0.99	.	51	605	881	275	20	.	.	.	.	1832
1.00 - 1.49	.	.	.	30	27	.	.	.	.	.	57
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	918	1758	2571	4458	1949	150	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.39 ANGLE CLASS % = 11.8

STATION 7 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	649	1074	564	512	941	1285	391	37	37	71	5561
0.50 - 0.99	.	302	848	337	115	569	207	38	51	46	2513
1.00 - 1.49	.	.	48	278	146	191	67	25	16	25	795
1.50 - 1.99	.	.	.	9	103	155	43	11	5	9	332
2.00 - 2.49	.	.	.	.	23	107	40	7	3	1	181
2.50 - 2.99	.	.	.	.	.	22	28	11	.	.	61
3.00 - 3.49	.	.	.	.	.	.	4	7	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	649	1376	1460	1136	1325	2329	780	137	112	152	

AVE HS(M) = 0.53 LARGEST HS(M) = 4.22 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 7

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.6	0.5	0.6	0.4	0.7	0.5	0.3	0.3	0.4	0.5	0.6	0.5
1957	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.4	0.5	0.3	0.7	0.9	0.5
1958	0.8	0.4	0.6	0.7	0.5	0.4	0.4	0.6	0.4	0.5	0.4	0.3	0.5
1959	0.4	0.5	0.5	0.6	0.3	0.4	0.4	0.3	0.2	0.7	1.1	0.6	0.5
1960	0.3	0.6	0.4	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.5	0.4	0.4
1961	0.5	0.5	0.5	0.6	0.8	0.6	0.5	0.3	0.6	0.6	0.4	0.4	0.5
1962	0.6	0.6	0.4	0.7	0.3	0.4	0.3	0.5	0.5	0.6	0.6	0.9	0.5
1963	0.6	0.4	0.6	0.3	0.7	0.4	0.4	0.3	0.4	0.4	1.1	0.5	0.5
1964	0.6	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.8	0.5
1965	0.6	0.6	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.5	0.6	0.5	0.4
1966	0.6	0.4	0.7	0.3	0.5	0.4	0.4	0.4	0.5	0.3	0.6	0.6	0.5
1967	0.6	0.6	0.6	0.6	0.7	0.5	0.4	0.4	0.4	0.6	0.4	0.6	0.5
1968	0.5	0.6	0.7	0.6	0.4	0.4	0.3	0.2	0.3	0.4	0.6	0.6	0.5
1969	0.5	1.3	0.8	0.7	0.6	0.4	0.4	0.4	0.4	0.4	0.8	1.0	0.6
1970	0.3	0.8	0.5	0.5	0.8	0.7	0.6	0.5	0.4	0.6	0.7	0.7	0.6
1971	0.4	0.8	0.6	0.5	0.6	0.4	0.5	0.4	0.3	0.5	0.5	0.5	0.5
1972	0.6	1.0	1.1	0.5	0.8	0.7	0.4	0.4	0.5	0.6	0.7	0.7	0.7
1973	0.6	0.7	0.8	0.7	0.7	0.5	0.6	0.4	0.5	0.5	0.6	1.2	0.7
1974	0.6	0.6	1.0	0.8	0.5	0.6	0.4	0.4	0.5	0.3	0.7	0.6	0.6
1975	0.7	0.4	0.7	0.6	0.3	0.6	0.6	0.2	0.4	0.4	0.8	1.1	0.6
MEAN	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 7

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.1	2.5	2.4	2.2	1.4	1.5	1.6	1.3	1.3	2.3	2.4	2.5
1957	2.3	1.7	2.6	2.4	1.1	1.8	1.2	0.9	2.0	1.4	2.4	3.0
1958	2.7	3.1	2.9	2.2	1.4	1.4	1.3	1.6	1.4	2.3	2.6	1.8
1959	2.6	2.2	3.1	2.2	1.1	1.2	1.7	1.0	1.0	3.4	3.0	2.5
1960	2.4	2.9	2.6	2.3	1.3	1.4	1.9	1.1	2.3	2.2	2.3	2.9
1961	2.6	2.4	3.1	2.1	3.2	1.4	1.3	1.0	2.7	2.1	2.7	2.8
1962	2.5	2.4	2.2	2.6	1.7	1.6	1.1	1.7	2.5	2.4	2.6	3.3
1963	2.7	1.8	2.9	1.7	2.4	1.3	1.2	1.6	2.2	2.3	3.8	2.7
1964	2.7	2.3	2.2	1.6	1.2	1.5	1.2	1.6	2.1	2.1	2.8	2.2
1965	2.3	3.5	2.4	2.5	1.3	1.1	1.2	1.2	1.3	2.4	2.2	2.3
1966	3.4	2.6	2.2	1.1	1.4	1.4	2.1	0.8	1.8	1.2	2.9	2.9
1967	3.0	2.1	2.0	2.4	2.8	1.6	1.2	1.8	1.9	2.0	1.8	2.6
1968	2.3	2.4	2.7	2.5	1.3	2.5	1.2	0.9	1.7	1.5	2.9	2.9
1969	2.6	3.0	2.7	2.9	2.1	1.1	1.8	2.0	1.7	1.1	2.2	3.7
1970	1.7	3.1	2.6	2.8	2.2	2.0	1.8	1.7	1.7	2.3	2.6	3.0
1971	2.5	2.6	3.6	2.3	2.0	1.1	1.2	1.6	1.5	2.3	3.2	2.5
1972	2.0	3.5	3.0	1.4	2.1	2.3	1.3	1.3	3.0	2.3	2.7	2.8
1973	2.9	2.8	2.8	2.9	2.1	1.4	2.0	1.2	1.5	2.9	2.8	4.2
1974	2.3	2.6	2.8	2.0	2.2	1.9	1.3	1.5	2.1	1.8	2.9	2.9
1975	2.4	2.7	3.3	2.9	1.6	2.3	1.5	1.5	2.0	1.9	2.6	3.2

LARGEST HS(METRES) FOR STATION 7 = 4.2

STATION 8 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 63.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2231	4505	2946	1846	1478	1842	10	.	.	.	14858
0.50 - 0.99	.	650	3158	1411	513	959	.	.	.	.	6691
1.00 - 1.49	.	.	35	222	162	39	.	.	.	.	458
1.50 - 1.99	.	.	.	.	10	.	.	.	.	.	10
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2231	5155	6139	3479	2163	2840	10	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.84 ANGLE CLASS % = 22.0

STATION 8 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 63.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1432	1974	.	.	3798	6144	1995	6	1	1	15351
0.50 - 0.99	.	1447	3160	592	319	3997	2373	.	.	.	11888
1.00 - 1.49	.	.	285	1421	674	1310	362	5	.	.	4057
1.50 - 1.99	.	.	.	61	470	812	193	25	.	.	1561
2.00 - 2.49	.	.	.	.	66	272	155	59	3	.	555
2.50 - 2.99	.	.	.	.	1	27	42	39	5	1	115
3.00 - 3.49	.	.	.	.	.	.	.	5	.	3	8
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1432	3421	3445	2074	5328	12562	5120	139	10	6	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 3.71 ANGLE CLASS % = 33.6

STATION 8 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 63.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	783	771	.	.	1324	1901	561	224	299	361	6224
0.50 - 0.99	.	740	1088	73	107	1683	571	301	455	280	5298
1.00 - 1.49	.	.	171	701	138	444	207	42	220	201	2124
1.50 - 1.99	.	.	.	37	309	287	181	54	65	121	1054
2.00 - 2.49	.	.	.	.	88	369	169	13	15	25	679
2.50 - 2.99	.	.	.	.	.	77	143	53	11	6	290
3.00 - 3.49	.	.	.	.	.	5	18	44	11	3	81
3.50 - 3.99	.	.	.	.	.	.	.	13	13	3	29
4.00 - 4.49	.	.	.	.	.	.	.	.	3	5	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	783	1511	1259	811	1966	4766	1850	744	1092	1005	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 4.44 ANGLE CLASS % = 15.8

STATION 8 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 63.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	665	694			879	1285	321	17	10	289	4160
0.50 - 0.99	.	698	1048	71	58	1387	219	253	42	169	3945
1.00 - 1.49	.	.	184	633	136	408	130	133	27	47	1698
1.50 - 1.99	.	.	.	32	292	272	66	22	17	1	702
2.00 - 2.49	.	.	.	.	73	378	95	5	8	.	559
2.50 - 2.99	.	.	.	.	.	85	104	23	.	.	212
3.00 - 3.49	.	.	.	.	.	.	29	34	.	.	63
3.50 - 3.99	.	.	.	.	.	.	.	5	.	.	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	
TOTAL	665	1392	1232	736	1438	3815	964	492	104	506	

AVERAGE HS(M) = 0.83 LARGEST HS(M) = 3.53 ANGLE CLASS % = 11.4

STATION 8 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 63.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	424	600			224	266	29	.	.	.	1543
0.50 - 0.99	.	371	864	256	116	335	92	1	.	.	2037
1.00 - 1.49	.	.	65	431	335	484	130	8	.	.	1453
1.50 - 1.99	.	.	1	10	121	368	75	25	.	.	620
2.00 - 2.49	.	.	.	.	37	112	75	30	.	.	254
2.50 - 2.99	.	.	.	.	.	8	13	.	.	.	21
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	
TOTAL	424	971	930	697	835	1593	414	64	0	0	

AVERAGE HS(M) = 0.92 LARGEST HS(M) = 2.83 ANGLE CLASS % = 5.9

STATION 8 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 63.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

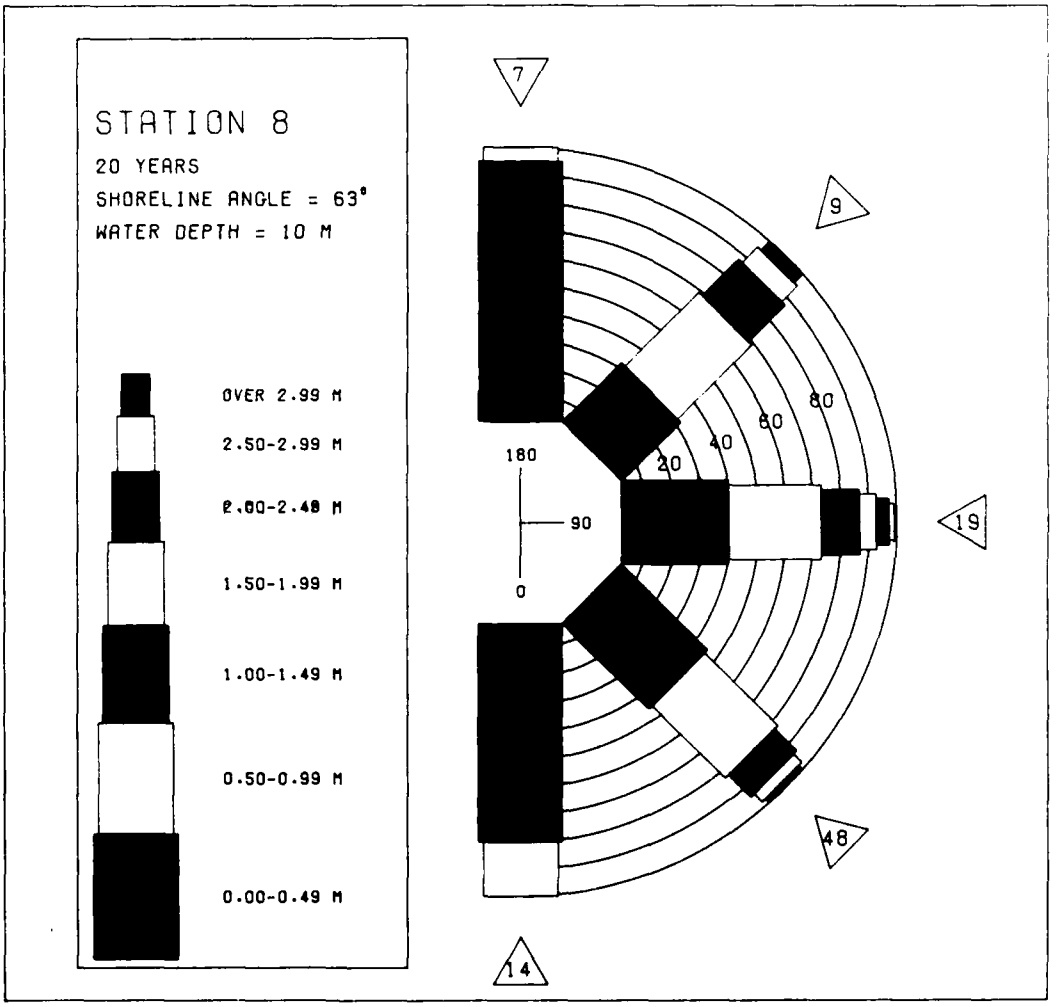
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	758	1360	1504	2328	1057	131	.	.	.	.	7138
0.50 - 0.99	.	51	530	429	210	114	.	.	.	.	1334
1.00 - 1.49	.	.	.	20	27	.	.	.	.	.	47
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	
TOTAL	758	1411	2034	2777	1294	245	0	0	0	0	

AVERAGE HS(M) = 0.24 LARGEST HS(M) = 1.26 ANGLE CLASS % = 8.5

STATION 8 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 63.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	629	990	445	417	876	1157	291	24	31	65	4925
0.50 - 0.99	.	395	985	283	132	647	325	55	49	45	3116
1.00 - 1.49	.	.	74	343	147	268	82	18	24	24	980
1.50 - 1.99	.	.	.	14	120	176	51	12	8	12	393
2.00 - 2.49	.	.	.	.	26	113	49	10	2	2	202
2.50 - 2.99	.	.	.	.	.	19	30	11	1	.	61
3.00 - 3.49	.	.	.	.	.	.	4	8	1	.	13
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	629	1385	1504	1057	1301	2580	832	139	117	148	

AVE HS(M) = 0.61 LARGEST HS(M) = 4.44 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 8

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.7	0.6	0.7	0.5	0.7	0.6	0.3	0.3	0.4	0.6	0.7	0.6
1957	0.4	0.5	0.4	0.6	0.5	0.4	0.6	0.5	0.6	0.4	0.8	1.0	0.5
1958	0.7	0.5	0.5	0.7	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.4	0.5
1959	0.6	0.7	0.7	0.6	0.4	0.4	0.5	0.3	0.3	0.8	1.1	0.7	0.6
1960	0.4	0.8	0.4	0.8	0.5	0.5	0.4	0.4	0.5	0.5	0.7	0.6	0.5
1961	0.6	0.6	0.5	0.6	0.9	0.7	0.6	0.4	0.7	0.6	0.4	0.6	0.6
1962	0.8	0.6	0.4	0.9	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.9	0.6
1963	0.7	0.5	0.7	0.4	0.8	0.5	0.5	0.4	0.4	0.5	1.1	0.6	0.6
1964	0.7	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.8	0.6
1965	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.6	0.8	0.6	0.6
1966	0.6	0.5	0.8	0.4	0.6	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5
1967	0.7	0.8	0.6	0.6	0.7	0.5	0.6	0.6	0.4	0.6	0.5	0.6	0.6
1968	0.5	0.7	0.8	0.7	0.5	0.5	0.4	0.3	0.3	0.5	0.7	0.9	0.6
1969	0.6	1.2	0.8	0.8	0.8	0.4	0.5	0.5	0.5	0.4	0.8	0.9	0.7
1970	0.3	1.0	0.6	0.6	0.8	0.8	0.7	0.5	0.4	0.6	0.7	0.6	0.6
1971	0.6	1.0	0.8	0.6	0.7	0.4	0.6	0.5	0.4	0.6	0.5	0.5	0.6
1972	0.8	1.0	1.1	0.5	0.8	0.8	0.5	0.5	0.5	0.7	0.7	0.8	0.7
1973	0.8	0.6	0.8	0.8	0.7	0.6	0.7	0.5	0.6	0.6	0.9	1.4	0.8
1974	0.7	0.6	1.2	1.0	0.6	0.6	0.5	0.5	0.6	0.5	0.8	0.6	0.7
1975	0.7	0.5	0.7	0.6	0.4	0.6	0.8	0.2	0.4	0.4	0.9	1.2	0.6
MEAN	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 8

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.4	2.7	2.2	2.4	1.8	1.6	1.9	0.9	1.2	2.0	2.6	2.6
1957	2.1	1.9	2.5	2.8	1.4	2.0	1.4	1.1	2.2	1.4	2.8	3.2
1958	2.4	3.5	2.6	2.1	1.4	1.4	1.4	1.8	1.8	2.0	2.6	1.5
1959	3.0	2.6	3.2	2.3	1.4	1.3	1.8	1.2	1.4	3.4	3.1	2.9
1960	2.6	2.9	2.0	2.6	1.3	1.4	2.2	1.4	2.7	2.1	2.4	3.0
1961	2.7	2.4	3.2	2.1	3.7	1.7	1.4	1.3	2.8	1.5	2.2	2.8
1962	2.6	2.2	1.5	2.5	1.8	2.0	1.4	1.7	2.3	2.3	2.7	3.3
1963	3.0	1.7	2.9	1.9	2.5	1.5	1.4	2.0	2.4	2.2	4.0	3.1
1964	2.7	2.2	2.3	1.8	1.7	1.9	1.4	1.8	1.7	2.0	2.9	2.3
1965	2.5	3.5	2.4	2.6	1.3	1.5	1.3	1.4	1.3	2.4	2.4	2.2
1966	3.5	2.5	2.4	1.5	1.7	1.6	2.5	1.1	1.8	1.3	2.8	3.0
1967	2.9	2.7	2.3	2.2	2.8	1.3	1.3	2.4	1.6	2.1	2.2	2.5
1968	2.2	2.7	2.5	2.5	1.3	2.4	1.3	1.0	1.8	1.5	2.7	3.0
1969	2.6	3.1	2.7	2.9	2.4	1.3	1.8	2.0	1.8	1.3	2.1	3.5
1970	2.1	3.3	2.6	3.0	2.3	2.1	2.0	1.4	1.9	2.1	3.0	2.6
1971	2.7	2.9	3.9	2.5	2.4	1.4	1.5	1.8	1.5	2.3	3.0	2.6
1972	2.4	4.0	3.0	1.2	1.9	2.3	1.4	1.6	2.7	2.3	2.7	2.9
1973	3.1	3.0	3.4	2.7	2.2	1.4	2.1	1.2	1.8	2.8	3.2	4.4
1974	2.8	2.8	2.9	2.4	2.4	1.9	1.6	2.0	2.6	2.2	3.0	2.9
1975	2.9	3.1	3.6	3.3	1.5	2.4	2.0	1.5	2.7	1.5	2.8	3.1

LARGEST HS(METRES) FOR STATION 8 = 4.4

STATION 9 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2371	4883	3311	1676	1401	2464	5	.	.	.	16111
0.50 - 0.99	.	547	2987	1380	506	617	.	.	.	.	6037
1.00 - 1.49	.	.	41	181	102	30	.	.	.	.	354
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2371	5430	6339	3237	2014	3111	5	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.88 ANGLE CLASS % = 22.5

STATION 9 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1425	1930	.	.	4751	7169	2318	246	.	.	17839
0.50 - 0.99	.	1327	2754	581	326	4305	2450	241	11	.	11995
1.00 - 1.49	.	.	234	1232	730	1249	497	59	6	.	4007
1.50 - 1.99	.	.	.	39	408	742	260	68	11	.	1528
2.00 - 2.49	.	.	.	.	65	261	181	59	6	1	573
2.50 - 2.99	.	.	.	.	1	23	29	32	6	3	94
3.00 - 3.49	.	.	.	.	.	.	.	3	3	3	9
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1425	3257	2988	1852	6281	13749	5735	708	44	8	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.73 ANGLE CLASS % = 36.1

STATION 9 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	682	624	.	.	800	1344	482	23	323	396	4674
0.50 - 0.99	.	617	961	71	56	657	296	25	453	272	3408
1.00 - 1.49	.	.	145	663	100	212	63	1	203	196	1583
1.50 - 1.99	.	.	.	32	268	191	70	29	44	111	745
2.00 - 2.49	.	.	.	.	56	345	123	8	11	23	566
2.50 - 2.99	.	.	.	.	.	80	119	47	6	5	257
3.00 - 3.49	.	.	.	.	.	.	20	47	8	1	76
3.50 - 3.99	.	.	.	.	.	.	.	10	8	1	19
4.00 - 4.49	.	.	.	.	.	.	.	.	1	3	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	682	1241	1106	766	1280	2829	1173	190	1057	1008	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 4.44 ANGLE CLASS % = 11.4

STATION 9 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	533	559	.	.	1052	1392	330	20	10	296	4192
0.50 - 0.99	.	547	917	53	54	1480	284	229	35	177	3776
1.00 - 1.49	.	.	154	527	116	396	136	150	30	56	1565
1.50 - 1.99	.	.	1	27	260	253	59	27	18	3	648
2.00 - 2.49	.	.	.	.	82	343	83	3	11	.	522
2.50 - 2.99	.	.	.	.	.	88	130	10	.	.	228
3.00 - 3.49	.	.	.	.	.	1	18	29	.	.	48
3.50 - 3.99	.	.	.	.	.	.	1	3	.	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	533	1106	1072	607	1564	3953	1041	471	104	532	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.69 ANGLE CLASS % = 11.0

STATION 9 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	398	559	10	.	90	145	5	.	.	.	1207
0.50 - 0.99	.	361	874	249	116	301	8	1	.	.	1909
1.00 - 1.49	.	.	61	477	369	480	87	1	.	.	1475
1.50 - 1.99	.	.	.	11	152	448	104	10	.	.	725
2.00 - 2.49	.	.	.	.	34	147	71	35	.	.	287
2.50 - 2.99	.	.	.	.	.	11	13	15	.	.	39
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	398	920	945	737	761	1532	288	61	0	0	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 2.97 ANGLE CLASS % = 5.7

STATION 9 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

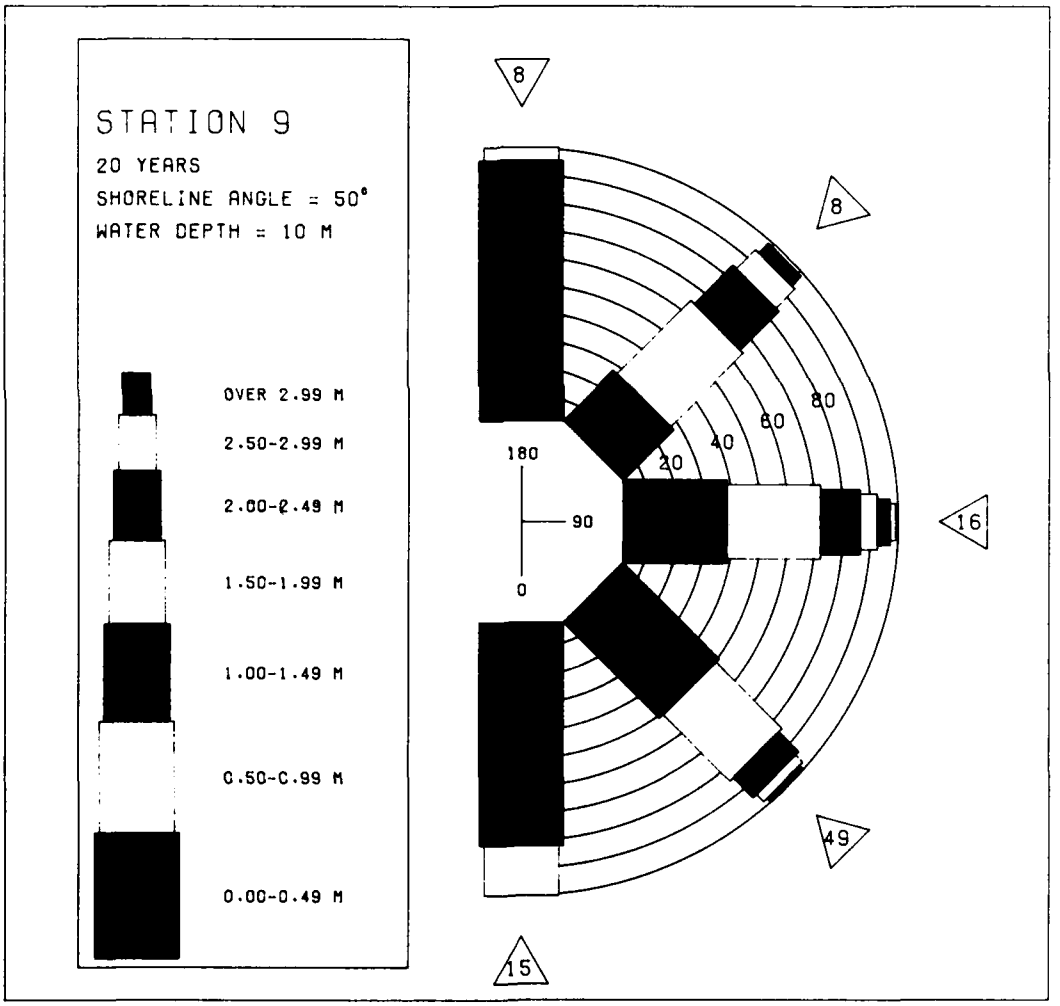
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	809	1483	1649	2695	1119	78	.	.	.	.	7833
0.50 - 0.99	.	70	521	552	201	46	.	.	.	.	1390
1.00 - 1.49	.	.	3	25	30	.	.	.	.	.	58
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	809	1553	2173	3272	1350	124	0	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.50 ANGLE CLASS % = 9.3

STATION 9 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	622	1004	497	437	921	1259	314	29	33	69	5185
0.50 - 0.99	.	347	901	269	126	740	303	49	50	45	2850
1.00 - 1.49	.	.	63	310	145	236	78	21	24	25	902
1.50 - 1.99	.	.	.	11	109	163	49	13	7	11	363
2.00 - 2.49	.	.	.	.	23	109	46	10	3	2	193
2.50 - 2.99	.	.	.	.	.	20	29	10	1	.	60
3.00 - 3.49	.	.	.	.	.	.	3	8	1	.	12
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	622	1351	1461	1047	1324	2527	822	141	120	152	

AVE HS(M) = 0.57 LARGEST HS(M) = 4.44 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 9

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.6	0.6	0.7	0.5	0.7	0.6	0.3	0.3	0.4	0.6	0.6	0.6
1957	0.4	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.8	0.9	0.5
1958	0.8	0.5	0.5	0.7	0.5	0.4	0.5	0.6	0.4	0.5	0.5	0.4	0.5
1959	0.5	0.6	0.6	0.6	0.4	0.4	0.5	0.3	0.3	0.8	1.1	0.6	0.6
1960	0.3	0.7	0.4	0.7	0.4	0.5	0.4	0.4	0.4	0.5	0.6	0.5	0.5
1961	0.5	0.5	0.5	0.6	0.8	0.6	0.5	0.4	0.7	0.6	0.4	0.5	0.6
1962	0.7	0.6	0.4	0.8	0.4	0.5	0.4	0.5	0.5	0.6	0.6	0.9	0.6
1963	0.6	0.4	0.7	0.4	0.7	0.4	0.5	0.3	0.4	0.5	1.1	0.5	0.5
1964	0.7	0.5	0.6	0.6	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.8	0.5
1965	0.6	0.7	0.4	0.5	0.4	0.4	0.5	0.5	0.3	0.6	0.7	0.5	0.5
1966	0.6	0.4	0.7	0.3	0.5	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.5
1967	0.7	0.7	0.6	0.6	0.7	0.5	0.5	0.5	0.4	0.6	0.5	0.6	0.6
1968	0.5	0.7	0.7	0.7	0.5	0.5	0.3	0.3	0.3	0.4	0.6	0.7	0.5
1969	0.5	1.2	0.8	0.8	0.7	0.4	0.5	0.5	0.4	0.4	0.8	1.0	0.7
1970	0.3	0.9	0.5	0.6	0.8	0.7	0.7	0.5	0.4	0.6	0.7	0.6	0.6
1971	0.5	0.9	0.7	0.5	0.7	0.4	0.6	0.5	0.4	0.6	0.5	0.5	0.6
1972	0.7	1.0	1.1	0.5	0.8	0.8	0.4	0.5	0.5	0.6	0.7	0.8	0.7
1973	0.7	0.7	0.8	0.8	0.7	0.6	0.7	0.5	0.5	0.6	0.7	1.3	0.7
1974	0.7	0.6	1.1	0.9	0.6	0.6	0.5	0.5	0.5	0.4	0.8	0.6	0.6
1975	0.7	0.5	0.7	0.6	0.4	0.6	0.7	0.2	0.4	0.4	0.8	1.2	0.6
MEAN	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 9

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.7	2.6	2.2	2.4	1.5	1.6	1.8	1.0	1.2	2.0	2.5	2.6
1957	2.2	1.8	2.6	2.6	1.3	1.9	1.3	1.0	2.1	1.4	2.6	3.0
1958	2.7	3.4	2.7	2.1	1.4	1.4	1.3	1.7	1.6	2.2	2.6	1.7
1959	2.8	2.3	3.1	2.2	1.3	1.3	1.8	1.2	1.3	3.4	3.1	2.6
1960	2.5	2.9	2.3	2.5	1.3	1.4	2.0	1.3	2.6	2.2	2.3	3.0
1961	2.6	2.3	3.1	2.1	3.6	1.5	1.4	1.2	2.8	1.8	2.4	2.8
1962	2.5	2.4	2.0	2.5	1.7	1.8	1.3	1.5	2.4	2.4	2.6	3.2
1963	2.8	1.7	2.9	1.8	2.5	1.4	1.3	1.8	2.3	2.2	4.0	2.7
1964	2.7	2.3	2.3	1.7	1.4	1.8	1.3	1.7	1.6	2.1	2.8	2.2
1965	2.4	3.5	2.4	2.5	1.3	1.4	1.3	1.3	1.3	2.4	2.2	2.2
1966	3.4	2.5	2.3	1.3	1.5	1.4	2.4	1.0	1.8	1.3	2.9	2.9
1967	3.0	2.5	2.2	2.1	2.8	1.4	1.2	2.0	1.6	2.1	2.0	2.5
1968	2.2	2.6	2.4	2.5	1.3	2.4	1.3	1.0	1.8	1.4	2.7	3.0
1969	2.6	3.0	2.7	2.9	2.2	1.2	1.8	2.0	1.8	1.2	2.2	3.7
1970	1.9	3.2	2.6	2.8	2.2	2.1	1.9	1.4	1.8	2.2	2.8	2.9
1971	2.6	2.7	3.7	2.4	2.2	1.3	1.3	1.7	1.5	2.3	3.2	2.6
1972	2.3	3.9	3.0	1.4	1.8	2.2	1.4	1.4	2.9	2.3	2.7	2.7
1973	3.1	3.0	3.1	2.8	2.1	1.4	2.1	1.2	1.6	2.9	3.0	4.4
1974	2.5	2.7	2.9	2.1	2.3	1.9	1.5	1.9	2.5	2.0	2.9	2.9
1975	2.7	2.9	3.4	3.2	1.4	2.4	1.8	1.4	2.3	1.7	2.8	3.1

LARGEST HS(METRES) FOR STATION 9 = 4.4

STATION 10 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 78.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2296	4277	2953	2518	977	75	.	.	.	.	13096
0.50 - 0.99	.	588	2941	2674	248	11	.	.	.	.	6462
1.00 - 1.49	.	.	32	354	92	1	.	.	.	.	479
1.50 - 1.99	.	.	.	6	11	.	.	.	.	.	17
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2296	4865	5926	5552	1328	87	0	0	0	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 1.99 ANGLE CLASS % = 20.1

STATION 10 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 78.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1522	2126	.	.	417	951	104	20	53	.	5193
0.50 - 0.99	.	1784	3584	698	30	1442	160	8	.	.	7706
1.00 - 1.49	.	.	265	1581	513	374	99	1	.	.	2833
1.50 - 1.99	.	.	.	54	393	444	82	.	.	.	973
2.00 - 2.49	.	.	.	.	58	248	82	.	.	.	388
2.50 - 2.99	.	.	.	.	.	34	51	.	.	.	85
3.00 - 3.49	.	.	.	.	.	.	1	5	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1522	3910	3849	2333	1411	3493	579	37	53	0	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.64 ANGLE CLASS % = 17.2

STATION 10 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 78.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	932	1066	.	.	3360	6637	2677	323	130	787	15912
0.50 - 0.99	.	980	1666	78	193	3348	1736	171	179	780	9131
1.00 - 1.49	.	.	201	977	165	860	499	73	20	47	2842
1.50 - 1.99	.	.	.	53	338	462	318	30	11	15	1227
2.00 - 2.49	.	.	.	.	71	453	220	15	11	6	776
2.50 - 2.99	.	.	.	.	.	92	198	46	.	5	341
3.00 - 3.49	.	.	.	.	.	.	23	42	1	.	66
3.50 - 3.99	.	.	.	.	.	.	.	3	8	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	3	.	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	932	2046	1867	1108	4127	11852	5671	703	363	1640	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 4.16 ANGLE CLASS % = 30.3

STATION 10 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 78.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	840	864			467	2523	1972	87	171	805	7729
0.50 - 0.99	.	833	1309	83	15	1404	927	200	328	438	5537
1.00 - 1.49	.	.	201	706	136	311	171	99	51	109	1784
1.50 - 1.99	.	.	.	39	296	290	78	34	5	1	743
2.00 - 2.49	.	.	.	.	97	391	102	10	.	3	603
2.50 - 2.99	.	.	.	.	.	80	131	32	.	.	243
3.00 - 3.49	.	.	.	.	.	.	17	41	1	.	59
3.50 - 3.99	.	.	.	.	.	.	.	10	1	1	12
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	840	1697	1510	828	1011	4999	3398	513	557	1358	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 4.04 ANGLE CLASS % = 16.7

STATION 10 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 78.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	509	610	1		278	331	56	1	.	.	1786
0.50 - 0.99	.	450	920	266	112	436	77	8	.	.	2269
1.00 - 1.49	.	.	65	417	309	424	99	15	.	.	1329
1.50 - 1.99	.	.	.	3	119	354	104	10	.	.	590
2.00 - 2.49	.	.	.	.	30	94	85	13	.	.	222
2.50 - 2.99	.	.	.	.	.	5	5	5	.	.	15
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	509	1060	986	686	848	1644	426	53	0	0	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.16 ANGLE CLASS % = 6.2

STATION 10 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 78.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

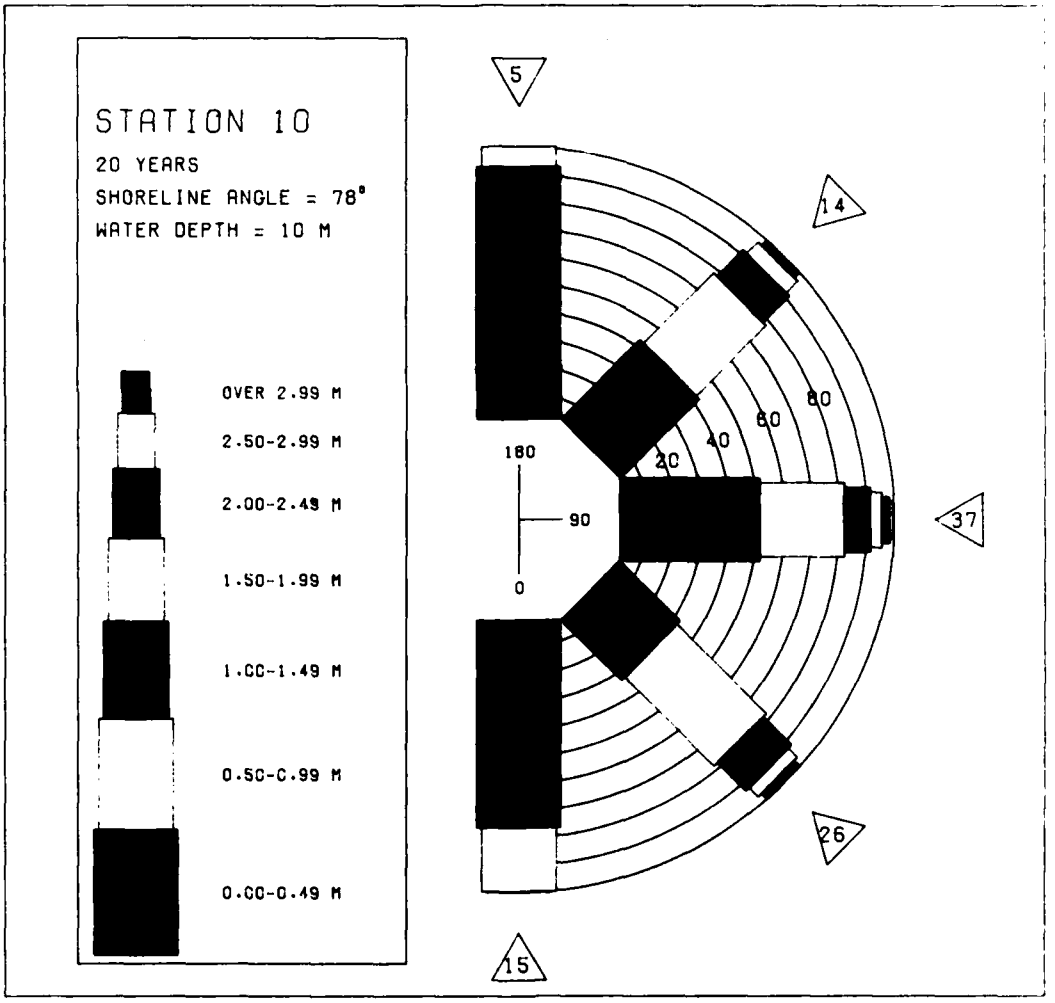
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	735	1391	1071	1605	862	61	.	.	.	.	5725
0.50 - 0.99	.	66	497	477	198	68	.	.	.	.	1306
1.00 - 1.49	.	.	3	11	10	.	.	.	.	.	24
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	735	1457	1571	2093	1075	129	0	0	0	0	

AVERAGE HS(M) = 0.28 LARGEST HS(M) = 1.70 ANGLE CLASS % = 7.1

STATION 10 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 78.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	683	1033	402	412	636	1058	481	43	35	159	4942
0.50 - 0.99	.	470	1092	427	79	671	250	38	50	121	3218
1.00 - 1.49	.	.	77	404	122	197	66	18	7	15	926
1.50 - 1.99	.	.	.	15	116	155	58	7	1	1	353
2.00 - 2.49	.	.	.	.	25	118	49	3	1	1	197
2.50 - 2.99	.	.	.	.	.	21	38	8	.	.	67
3.00 - 3.49	.	.	.	.	.	.	4	9	.	.	13
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	683	1503	1571	1258	978	2220	1006	127	95	297	

AVE HS(M) = 0.61 LARGEST HS(M) = 4.16 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 10

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.3	0.3	0.4	0.6	0.7	0.5
1957	0.5	0.5	0.4	0.6	0.5	0.4	0.5	0.4	0.6	0.4	0.8	1.0	0.5
1958	0.8	0.6	0.5	0.7	0.5	0.6	0.5	0.6	0.5	0.5	0.7	0.4	0.6
1959	0.7	0.7	0.7	0.5	0.4	0.4	0.5	0.3	0.3	0.7	1.0	0.6	0.6
1960	0.4	0.8	0.7	0.9	0.4	0.5	0.4	0.3	0.4	0.5	0.8	0.6	0.6
1961	0.6	0.5	0.6	0.6	0.8	0.7	0.5	0.4	0.7	0.6	0.4	0.7	0.6
1962	0.9	0.5	0.4	0.8	0.4	0.5	0.4	0.4	0.5	0.6	0.6	0.9	0.6
1963	0.6	0.6	0.8	0.4	0.7	0.4	0.5	0.4	0.5	0.5	1.0	0.5	0.6
1964	0.8	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.7	0.8	0.6
1965	0.7	0.8	0.5	0.5	0.4	0.6	0.6	0.5	0.4	0.7	0.9	0.6	0.6
1966	0.6	0.5	0.7	0.4	0.6	0.5	0.5	0.5	0.6	0.5	0.7	0.7	0.6
1967	0.7	0.8	0.5	0.5	0.7	0.7	0.7	0.6	0.5	0.7	0.6	0.6	0.6
1968	0.5	0.7	0.7	0.7	0.4	0.5	0.6	0.5	0.4	0.5	0.7	0.9	0.6
1969	0.7	0.8	0.7	0.9	0.8	0.5	0.6	0.5	0.5	0.4	0.8	0.9	0.7
1970	0.4	0.9	0.6	0.6	0.8	0.7	0.8	0.6	0.4	0.5	0.6	0.6	0.6
1971	0.6	0.9	0.7	0.5	0.6	0.4	0.6	0.5	0.4	0.6	0.5	0.6	0.6
1972	0.8	1.0	1.0	0.5	0.7	0.7	0.5	0.5	0.6	0.6	0.6	0.8	0.7
1973	0.8	0.6	0.7	0.8	0.8	0.6	0.7	0.5	0.5	0.6	1.0	1.4	0.7
1974	0.7	0.6	1.3	1.1	0.5	0.5	0.5	0.5	0.6	0.5	0.7	0.7	0.7
1975	0.7	0.5	0.7	0.6	0.4	0.6	0.7	0.2	0.4	0.4	0.9	1.1	0.6
MEAN	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 10

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.7	2.8	2.2	2.5	1.5	1.5	2.0	0.9	1.4	2.0	2.6	2.7
1957	2.0	1.5	2.3	2.8	1.4	2.2	1.3	1.2	2.2	1.5	2.9	2.9
1958	2.3	3.4	2.4	2.0	1.4	1.5	1.3	1.8	1.7	1.4	2.6	1.6
1959	3.1	2.6	3.3	2.4	2.1	1.5	2.0	1.3	1.4	3.4	3.0	3.0
1960	2.6	3.0	2.2	2.7	1.1	1.4	2.5	1.2	2.9	2.1	2.5	3.1
1961	2.8	2.6	2.5	1.9	3.1	1.7	1.5	1.4	3.2	1.3	1.7	2.7
1962	2.6	2.0	1.6	2.5	1.6	1.4	1.4	2.4	2.1	2.1	2.4	3.2
1963	3.2	2.1	2.7	1.6	2.4	1.4	1.4	2.4	2.4	1.8	3.9	3.6
1964	2.8	2.3	2.4	2.0	2.0	1.8	1.4	2.0	1.8	2.0	2.9	2.4
1965	2.6	3.6	2.0	2.3	1.3	1.5	1.4	1.3	1.6	2.3	2.6	2.2
1966	3.3	2.6	2.4	1.4	1.5	1.6	2.5	1.3	2.1	1.3	2.9	3.4
1967	2.7	2.5	1.8	2.1	2.8	1.4	1.2	2.4	1.6	2.1	1.7	2.7
1968	1.9	2.6	2.7	2.6	1.5	2.5	1.4	1.4	2.0	1.6	2.8	2.8
1969	2.6	2.0	2.5	2.8	2.5	1.4	1.9	1.8	1.7	1.5	2.2	3.4
1970	2.6	3.5	2.4	3.1	2.3	2.2	2.2	1.3	1.8	1.8	2.9	2.6
1971	2.8	2.9	3.5	2.6	1.9	1.4	1.5	2.1	1.1	2.1	2.5	2.6
1972	2.4	4.2	2.9	1.2	1.7	2.3	1.4	1.5	2.8	2.4	2.6	3.4
1973	3.2	2.8	3.3	2.5	2.2	1.5	2.1	1.3	2.2	2.9	3.3	4.0
1974	2.9	2.8	3.1	2.6	2.4	2.1	1.6	2.0	2.7	2.3	2.9	3.1
1975	2.9	3.3	2.9	2.9	1.6	2.4	2.3	1.4	2.6	1.3	2.7	3.4

LARGEST HS(METRES) FOR STATION 10 = 4.2

STATION 11 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 73.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2361	4380	2960	2373	882	71	.	.	.	.	13027
0.50 - 0.99	.	658	2968	2518	220	17	.	.	.	.	6381
1.00 - 1.49	.	.	22	277	56	3	.	.	.	.	358
1.50 - 1.99	.	.	.	3	6	.	.	.	.	.	9
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2361	5038	5950	5171	1164	91	0	0	0	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.78 ANGLE CLASS % = 19.8

STATION 11 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 73.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1557	2137	.	.	1846	4777	128	25	58	.	10528
0.50 - 0.99	.	1718	3603	638	41	2022	208	8	.	.	8238
1.00 - 1.49	.	.	260	1540	564	422	97	1	.	.	2884
1.50 - 1.99	.	.	.	53	424	477	92	.	.	.	1046
2.00 - 2.49	.	.	.	.	51	249	107	.	.	.	407
2.50 - 2.99	.	.	.	.	.	25	53	1	.	.	79
3.00 - 3.49	.	.	.	.	.	.	3	6	.	.	9
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1557	3855	3863	2231	2926	7972	688	42	58	0	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 3.64 ANGLE CLASS % = 23.2

STATION 11 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 73.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	835	937	.	.	2181	3314	2758	335	133	898	11391
0.50 - 0.99	.	876	1439	99	168	2749	1700	160	176	788	8175
1.00 - 1.49	.	.	186	853	160	841	491	73	22	42	2668
1.50 - 1.99	.	.	.	51	313	455	302	32	10	15	1178
2.00 - 2.49	.	.	.	.	78	467	222	15	11	8	801
2.50 - 2.99	.	.	.	.	.	83	171	53	.	6	313
3.00 - 3.49	.	.	.	.	.	.	13	44	1	1	59
3.50 - 3.99	.	.	.	.	.	.	.	6	8	1	15
4.00 - 4.49	.	.	.	.	.	.	.	.	5	.	5
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	835	1813	1625	1003	2920	7909	5657	718	366	1759	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 4.16 ANGLE CLASS % = 24.6

STATION 11 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 73.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	780	805	.	.	345	2676	2070	88	160	735	7659
0.50 - 0.99	.	809	1196	68	15	1516	953	201	328	456	5542
1.00 - 1.49	.	.	191	689	123	328	177	100	49	109	1766
1.50 - 1.99	.	.	.	29	280	277	85	35	10	.	716
2.00 - 2.49	.	.	.	.	92	361	107	10	.	.	570
2.50 - 2.99	.	.	.	.	.	82	126	30	.	.	238
3.00 - 3.49	.	.	.	.	.	.	17	34	.	.	51
3.50 - 3.99	.	.	.	.	.	.	.	6	1	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	780	1614	1387	786	855	5240	3535	504	548	1300	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.63 ANGLE CLASS % = 16.6

STATION 11 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 73.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	513	602	1	.	405	249	20	1	10	.	1801
0.50 - 0.99	.	410	898	263	102	367	80	8	1	.	2129
1.00 - 1.49	.	.	70	412	316	395	63	10	.	.	1266
1.50 - 1.99	.	.	.	11	109	398	104	13	.	.	635
2.00 - 2.49	.	.	.	.	37	94	92	8	.	.	231
2.50 - 2.99	.	.	.	.	1	3	15	10	.	.	29
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	513	1012	969	686	970	1506	374	51	11	0	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.06 ANGLE CLASS % = 6.1

STATION 11 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 73.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

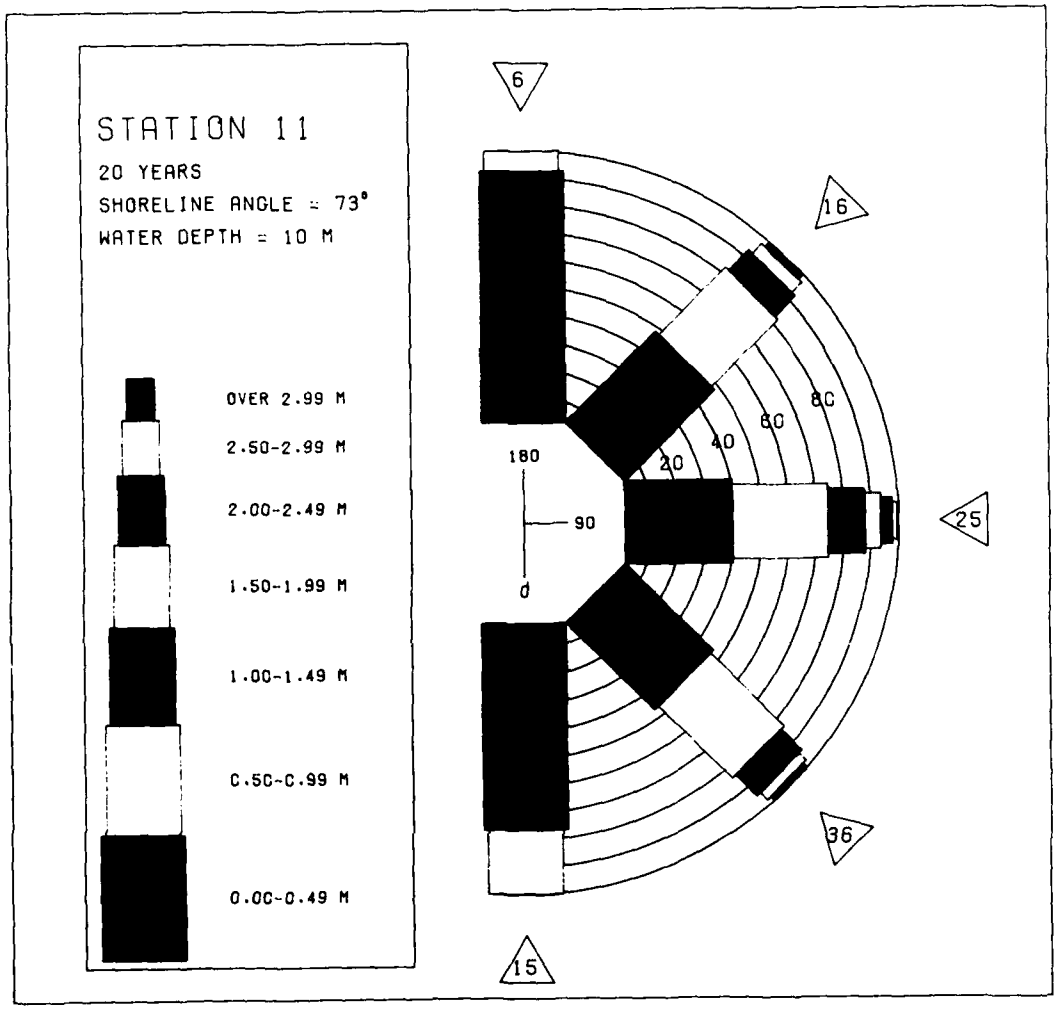
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	735	1382	1136	1750	857	61	.	.	.	.	5921
0.50 - 0.99	.	68	506	525	254	37	.	.	.	.	1390
1.00 - 1.49	.	.	3	22	8	1	.	.	.	.	34
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	735	1450	1645	2297	1119	99	0	0	0	0	

AVERAGE HS(M) = 0.28 LARGEST HS(M) = 1.21 ANGLE CLASS % = 7.4

STATION 11 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 73.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	678	1024	409	412	651	1115	497	45	36	163	5030
0.50 - 0.99	.	454	1061	411	82	671	294	37	50	124	3184
1.00 - 1.49	.	.	73	379	123	199	82	18	7	15	896
1.50 - 1.99	.	.	.	14	113	160	58	8	2	1	356
2.00 - 2.49	.	.	.	.	26	117	53	3	1	.	200
2.50 - 2.99	.	.	.	.	.	19	36	9	.	.	64
3.00 - 3.49	.	.	.	.	.	.	3	8	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	678	1478	1543	1216	995	2281	1023	129	97	303	

AVE HS(M) = 0.60 LARGEST HS(M) = 4.16 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 11

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.6	0.5	0.7	0.5	0.5	0.5	0.3	0.3	0.4	0.6	0.7	0.5
1957	0.5	0.5	0.4	0.6	0.5	0.4	0.4	0.4	0.6	0.4	0.8	1.0	0.5
1958	0.8	0.6	0.5	0.7	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.4	0.6
1959	0.7	0.7	0.7	0.5	0.4	0.4	0.5	0.3	0.3	0.7	1.0	0.6	0.6
1960	0.4	0.8	0.7	0.8	0.4	0.5	0.4	0.3	0.4	0.5	0.8	0.6	0.6
1961	0.6	0.5	0.6	0.6	0.8	0.6	0.5	0.4	0.7	0.6	0.4	0.6	0.6
1962	0.9	0.6	0.4	0.8	0.4	0.5	0.4	0.4	0.5	0.6	0.6	0.9	0.6
1963	0.6	0.6	0.8	0.4	0.7	0.4	0.5	0.4	0.5	0.5	1.0	0.5	0.6
1964	0.8	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.8	0.6
1965	0.6	0.8	0.4	0.5	0.4	0.6	0.6	0.5	0.3	0.6	0.8	0.5	0.6
1966	0.6	0.5	0.7	0.4	0.5	0.5	0.5	0.5	0.6	0.5	0.7	0.7	0.5
1967	0.7	0.8	0.5	0.5	0.7	0.7	0.7	0.6	0.5	0.7	0.6	0.6	0.6
1968	0.5	0.7	0.7	0.7	0.4	0.5	0.6	0.5	0.4	0.5	0.7	0.9	0.6
1969	0.7	0.9	0.7	0.9	0.8	0.5	0.6	0.5	0.5	0.4	0.8	0.9	0.7
1970	0.3	0.9	0.6	0.5	0.8	0.7	0.8	0.6	0.4	0.5	0.6	0.6	0.6
1971	0.6	0.8	0.7	0.5	0.6	0.4	0.6	0.5	0.4	0.6	0.5	0.6	0.6
1972	0.8	1.0	1.0	0.5	0.7	0.7	0.4	0.5	0.6	0.6	0.6	0.8	0.7
1973	0.8	0.6	0.7	0.8	0.8	0.6	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1974	0.7	0.6	1.2	1.1	0.5	0.5	0.5	0.5	0.6	0.5	0.7	0.7	0.7
1975	0.7	0.5	0.7	0.5	0.4	0.6	0.7	0.2	0.4	0.4	0.9	1.1	0.6
MEAN	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 11

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.1	2.8	2.2	2.5	1.5	1.5	2.0	0.9	1.4	2.0	2.6	2.7
1957	2.0	1.5	2.4	2.8	1.4	2.1	1.3	1.1	2.2	1.5	2.9	2.9
1958	2.3	3.4	2.5	2.0	1.4	1.4	1.3	1.8	1.7	1.5	2.6	1.6
1959	3.0	2.6	3.3	2.4	2.0	1.3	2.1	1.3	1.4	3.4	3.0	3.0
1960	2.6	3.0	2.2	2.7	1.2	1.4	2.4	1.2	2.9	2.1	2.5	3.0
1961	2.8	2.6	2.6	1.9	3.1	1.7	1.5	1.3	3.2	1.3	1.8	2.7
1962	2.6	2.0	1.7	2.5	1.6	1.4	1.4	2.2	2.1	2.2	2.4	3.2
1963	3.1	2.1	2.7	1.6	2.4	1.4	1.4	2.4	2.4	1.8	3.9	3.5
1964	2.8	2.4	2.4	2.0	2.0	1.8	1.4	2.0	1.8	2.0	2.9	2.3
1965	2.6	3.6	2.0	2.3	1.3	1.5	1.4	1.2	1.5	2.3	2.5	2.2
1966	3.3	2.6	2.4	1.3	1.5	1.6	2.5	1.3	2.1	1.3	2.9	3.3
1967	2.9	2.4	1.6	2.1	2.8	1.4	1.2	2.4	1.6	2.1	1.7	2.7
1968	2.0	2.6	2.5	2.6	1.5	2.5	1.3	1.4	2.0	1.6	2.8	2.8
1969	2.6	2.2	2.5	2.9	2.5	1.4	1.9	1.7	1.7	1.4	2.2	3.4
1970	2.5	3.5	2.4	2.8	2.3	2.2	2.1	1.3	1.8	1.9	2.9	2.6
1971	2.7	2.9	3.5	2.5	1.9	1.3	1.4	2.1	1.1	2.1	2.5	2.6
1972	2.4	4.2	3.0	1.2	1.7	2.3	1.4	1.5	2.8	2.3	2.6	3.4
1973	3.1	2.8	3.2	2.5	2.2	1.5	2.1	1.3	2.1	2.9	3.2	4.0
1974	2.9	2.8	3.1	2.4	2.3	2.1	1.6	2.0	2.6	2.3	2.9	3.1
1975	2.9	3.1	2.9	2.9	1.5	2.4	2.1	1.4	2.6	1.4	2.7	3.4

LARGEST HS(METRES) FOR STATION 11 = 4.2

STATION 12 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 12 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1269	2753	2799	1485	1514	1622	54	.	.	.	11496
0.50 - 0.99	.	.	191	234	306	193	.	.	.	.	924
1.00 - 1.49	.	.	.	.	15	47	3	.	.	.	65
1.50 - 1.99	.	.	.	.	.	5	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1269	2753	2990	1719	1835	1867	57	0	0	0	

AVERAGE HS(M) = 0.23 LARGEST HS(M) = 1.61 ANGLE CLASS % = 12.5

STATION 12 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2561	4464	701	.	3762	6317	2565	242	244	18	20874
0.50 - 0.99	.	922	4372	1524	345	1921	727	65	237	8	10191
1.00 - 1.49	.	.	102	1100	727	627	193	29	54	18	2850
1.50 - 1.99	.	.	.	32	373	516	111	17	11	6	1066
2.00 - 2.49	.	.	.	.	63	309	112	10	6	8	508
2.50 - 2.99	.	.	.	.	.	51	61	22	5	1	140
3.00 - 3.49	.	.	.	.	.	.	1	18	1	.	20
3.50 - 3.99	.	.	.	.	.	.	.	.	15	.	15
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2561	5386	5175	2656	5270	9811	3770	403	574	61	

AVERAGE HS(M) = 0.56 LARGEST HS(M) = 4.79 ANGLE CLASS % = 35.7

STATION 12 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1302	1392	.	.	3177	2000	648	112	56	1615	10302
0.50 - 0.99	.	1014	1685	114	174	1086	542	49	147	2683	7494
1.00 - 1.49	.	.	152	778	164	484	116	44	54	343	2155
1.50 - 1.99	.	.	.	44	321	386	140	17	10	102	1020
2.00 - 2.49	.	.	.	.	95	422	150	11	5	10	693
2.50 - 2.99	.	.	.	.	.	71	142	42	6	1	262
3.00 - 3.49	.	.	.	.	.	.	13	53	8	1	75
3.50 - 3.99	.	.	.	.	.	.	.	10	11	.	21
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1302	2406	1837	936	3951	4449	1751	338	298	4756	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 4.24 ANGLE CLASS % = 22.1

STATION 12 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	723	942	6	.	1505	593	213	35	61	78	4156
0.50 - 0.99	.	501	1125	326	152	675	234	59	13	3	3088
1.00 - 1.49	.	.	70	444	330	444	140	49	25	.	1502
1.50 - 1.99	.	.	.	5	111	306	116	42	1	.	581
2.00 - 2.49	.	.	.	.	18	75	47	29	6	.	175
2.50 - 2.99	.	.	.	.	.	1	11	10	1	.	23
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	723	1443	1201	775	2116	2094	761	224	107	81	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 2.91 ANGLE CLASS % = 9.5

STATION 12 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

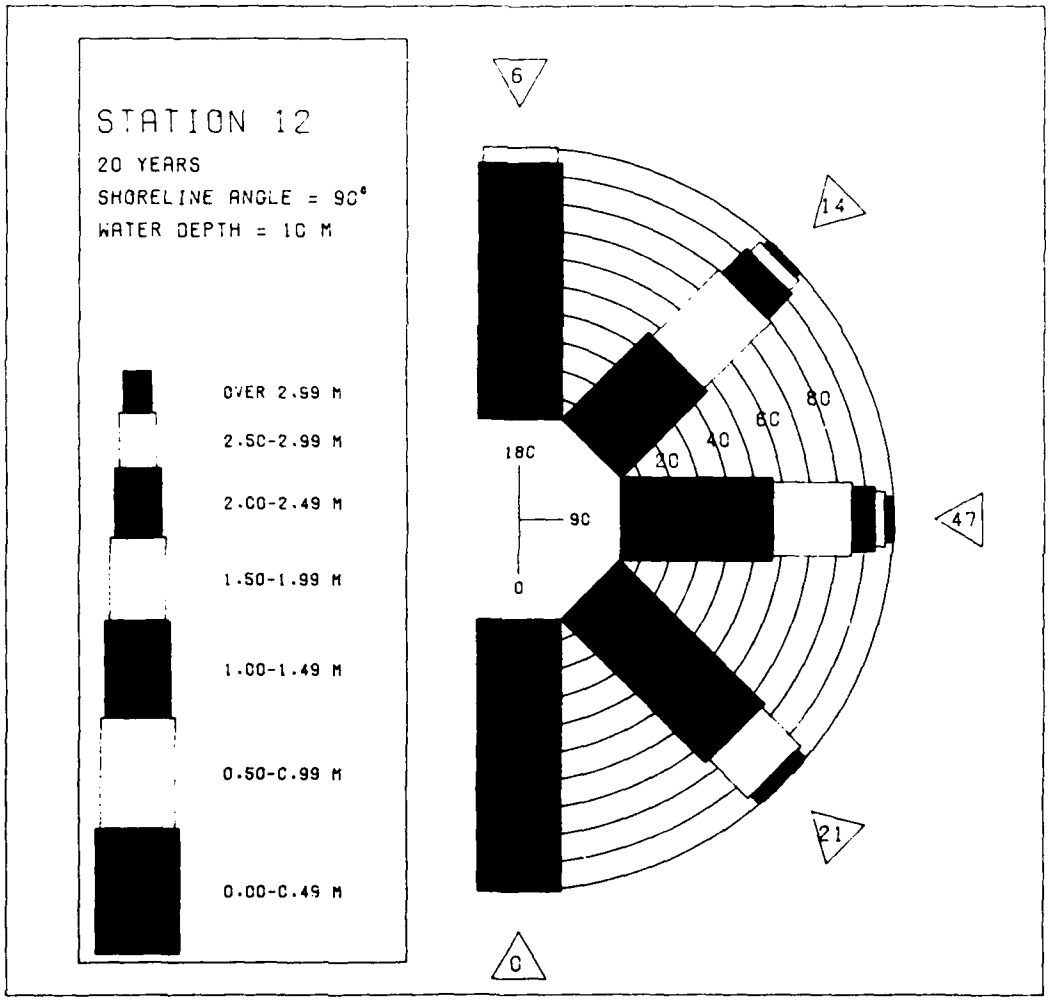
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	941	1711	1409	1214	622	525	.	.	.	.	6422
0.50 - 0.99	.	63	540	420	208	142	.	.	.	.	1373
1.00 - 1.49	.	.	3	8	11	.	.	.	.	.	22
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	941	1774	1952	1642	842	667	0	0	0	0	

AVERAGE HS(M) = 0.28 LARGEST HS(M) = 1.56 ANGLE CLASS % = 7.8

STATION 12 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	679	1126	491	270	1058	1105	348	39	36	171	5323
0.50 - 0.99	.	250	791	262	118	403	150	17	39	269	2304
1.00 - 1.49	.	.	32	233	126	160	45	12	13	76	657
1.50 - 1.99	.	.	.	8	80	121	36	7	2	10	264
2.00 - 2.49	.	.	.	.	17	80	31	5	1	1	135
2.50 - 2.99	.	.	.	.	.	12	21	7	1	.	41
3.00 - 3.49	.	.	.	.	.	.	1	7	1	.	9
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	679	1376	1314	773	1399	1886	632	95	95	487	

AVE HS(M) = 0.47 LARGEST HS(M) = 4.79 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 12

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.5	0.5	0.6	0.5	0.5	0.4	0.2	0.2	0.3	0.5	0.5	0.4
1957	0.3	0.4	0.3	0.5	0.4	0.3	0.4	0.2	0.5	0.3	0.6	0.8	0.4
1958	0.5	0.3	0.3	0.6	0.4	0.4	0.4	0.4	0.3	0.4	0.5	0.3	0.4
1959	0.5	0.5	0.5	0.5	0.3	0.3	0.5	0.3	0.2	0.6	0.7	0.5	0.4
1960	0.3	0.6	0.3	0.6	0.4	0.4	0.4	0.3	0.3	0.4	0.6	0.4	0.4
1961	0.3	0.4	0.3	0.5	0.5	0.7	0.3	0.3	0.6	0.4	0.3	0.4	0.4
1962	0.6	0.4	0.3	0.6	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.7	0.4
1963	0.4	0.4	0.7	0.3	0.6	0.3	0.4	0.3	0.4	0.3	0.8	0.3	0.4
1964	0.6	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.5	0.7	0.5
1965	0.5	0.5	0.3	0.4	0.3	0.4	0.5	0.4	0.3	0.5	0.6	0.4	0.4
1966	0.4	0.3	0.5	0.3	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.5	0.4
1967	0.6	0.6	0.4	0.4	0.6	0.7	0.7	0.6	0.5	0.6	0.5	0.5	0.6
1968	0.3	0.4	0.5	0.5	0.4	0.4	0.3	0.2	0.3	0.4	0.4	0.6	0.4
1969	0.5	0.6	0.5	0.7	0.6	0.3	0.4	0.4	0.3	0.3	0.7	0.7	0.5
1970	0.2	0.8	0.4	0.4	0.6	0.5	0.7	0.4	0.3	0.4	0.5	0.4	0.5
1971	0.4	0.7	0.5	0.4	0.5	0.3	0.5	0.4	0.3	0.4	0.3	0.4	0.4
1972	0.6	0.9	1.1	0.7	0.8	0.8	0.6	0.6	0.4	0.5	0.5	0.5	0.7
1973	0.6	0.5	0.5	0.6	0.6	0.5	0.6	0.4	0.4	0.5	0.7	1.2	0.6
1974	0.6	0.5	1.3	1.1	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.6
1975	0.6	0.4	0.5	0.5	0.3	0.5	0.6	0.2	0.3	0.3	0.7	0.9	0.5
MEAN	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 12

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.8	2.0	3.1	1.5	1.4	2.0	0.7	1.3	2.0	2.8	2.6
1957	2.0	1.6	2.4	3.1	1.4	2.0	1.1	1.0	2.0	1.4	2.6	2.9
1958	2.7	3.3	2.6	2.1	1.4	1.4	1.2	1.7	1.7	1.5	2.5	1.7
1959	2.9	2.5	3.4	2.3	1.3	1.2	2.2	1.2	1.0	3.4	2.8	2.9
1960	2.5	3.0	2.1	2.8	1.1	1.3	2.4	1.1	2.6	1.9	2.2	2.6
1961	2.7	3.2	2.4	1.7	2.9	1.7	1.5	1.2	3.3	1.1	1.5	2.6
1962	2.7	2.1	2.1	2.5	1.4	1.2	1.1	2.0	2.0	1.9	2.3	3.3
1963	2.9	2.2	2.6	1.6	2.5	1.2	1.2	2.5	2.3	1.5	3.9	2.7
1964	2.9	2.2	2.4	2.2	1.4	1.6	1.2	2.1	1.5	1.2	3.0	2.3
1965	2.5	3.6	1.3	2.2	1.4	1.2	1.2	0.8	1.3	2.0	2.3	1.9
1966	3.5	2.4	2.2	1.3	2.0	2.0	2.5	1.2	2.0	1.7	2.4	3.8
1967	2.7	2.6	1.5	2.0	2.8	1.2	1.1	2.0	1.4	1.9	1.4	2.6
1968	1.8	2.4	2.6	2.4	2.2	2.3	1.2	1.1	1.5	1.3	3.0	2.7
1969	2.6	1.9	2.4	2.5	2.5	1.1	1.4	1.3	1.4	1.2	2.1	3.3
1970	2.4	3.8	2.4	2.6	2.2	1.9	2.1	1.1	1.7	2.0	2.4	3.3
1971	2.9	2.6	4.0	2.7	1.7	1.4	1.6	1.4	1.0	2.0	1.8	2.7
1972	2.2	4.2	2.9	1.5	2.0	2.4	1.3	1.5	2.4	2.3	2.5	1.8
1973	3.0	2.7	3.1	2.2	2.1	1.5	2.0	1.1	1.7	2.9	3.1	4.8
1974	2.7	2.9	3.3	2.3	2.3	2.1	1.4	1.8	2.5	2.2	2.6	3.2
1975	2.7	2.8	3.2	2.8	1.4	2.2	2.1	0.9	2.3	1.0	2.3	3.4

LARGEST HS(METRES) FOR STATION 12 = 4.8

STATION 13 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 13 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 13 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2662	5438	3596	1322	5506	8148	2890	290	261	25	30138
0.50 - 0.99	.	162	2113	1519	586	1219	698	65	251	8	7321
1.00 - 1.49	.	.	8	266	417	501	222	30	51	20	1515
1.50 - 1.99	.	.	.	3	90	354	126	25	13	6	617
2.00 - 2.49	.	.	.	.	17	90	54	15	10	6	190
2.50 - 2.99	.	.	.	.	.	.	8	14	3	1	25
3.00 - 3.49	.	.	.	.	.	.	.	5	10	.	15
3.50 - 3.99	.	.	.	.	.	.	.	.	3	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2662	5600	5717	3110	6616	11012	3998	441	602	69	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 4.44 ANGLE CLASS % = 39.9

STATION 13 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1560	1952			3795	2275	778	123	58	1878	12419
0.50 - 0.99	.	927	2200	251	212	1124	550	53	145	2739	8201
1.00 - 1.49	.	.	111	894	297	523	124	47	54	350	2400
1.50 - 1.99	.	.	.	23	359	482	142	13	10	94	1123
2.00 - 2.49	.	.	.	.	83	432	189	13	5	10	732
2.50 - 2.99	.	.	.	.	.	56	126	47	6	1	236
3.00 - 3.49	.	.	.	.	.	.	10	56	10	1	77
3.50 - 3.99	.	.	.	.	.	.	.	6	11	.	17
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1560	2879	2311	1168	4746	4892	1919	358	300	5074	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 4.24 ANGLE CLASS % = 25.2

STATION 13 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	758	966	6		1836	681	272	37	63	90	4669
0.50 - 0.99	.	521	1158	326	142	710	239	58	13	1	3168
1.00 - 1.49	.	.	75	444	333	448	135	49	25	.	1509
1.50 - 1.99	.	.	.	5	116	309	116	42	1	.	589
2.00 - 2.49	.	.	.	.	18	75	47	29	6	.	175
2.50 - 2.99	.	.	.	.	.	1	11	10	1	.	23
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	758	1487	1239	775	2445	2224	780	225	109	91	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 2.91 ANGLE CLASS % = 10.2

STATION 13 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

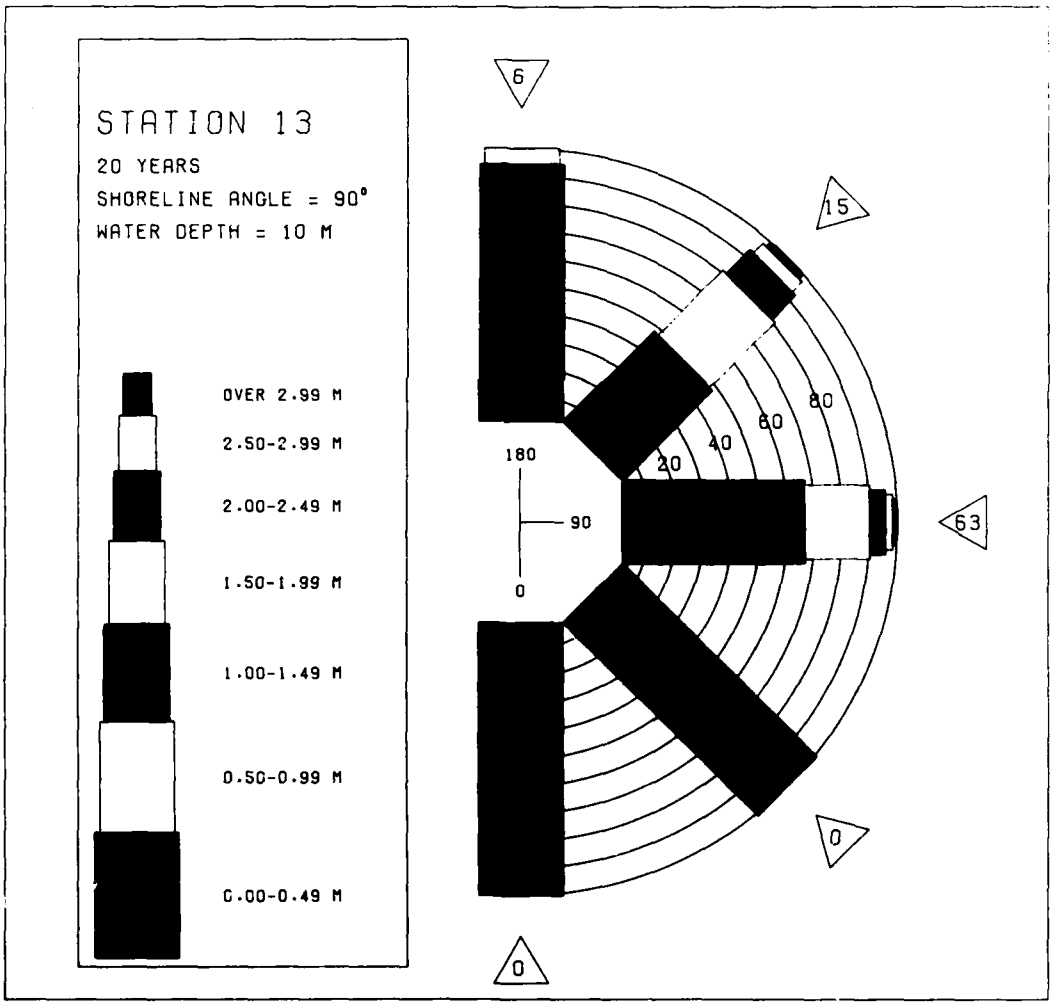
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	946	1712	1409	1214	624	525	.	.	.	.	6430
0.50 - 0.99	.	63	540	420	208	142	.	.	.	.	1373
1.00 - 1.49	.	.	3	8	11	.	.	.	.	.	22
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	946	1775	1952	1642	844	667	0	0	0	0	

AVERAGE HS(M) = 0.28 LARGEST HS(M) = 1.56 ANGLE CLASS % = 7.8

STATION 13 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	592	1007	501	253	1176	1163	390	45	38	199	5364
0.50 - 0.99	.	167	601	251	114	389	148	17	41	274	2002
1.00 - 1.49	.	.	19	161	106	147	48	12	13	37	543
1.50 - 1.99	.	.	.	3	56	114	38	8	2	10	231
2.00 - 2.49	.	.	.	.	11	59	29	5	2	1	107
2.50 - 2.99	.	.	.	.	.	5	14	7	1	.	27
3.00 - 3.49	.	.	.	.	.	.	1	6	2	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	592	1174	1121	668	1463	1877	668	100	100	521	

AVE HS(M) = 0.41 LARGEST HS(M) = 4.44 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 13

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.4	0.4	0.6	0.4	0.5	0.4	0.2	0.2	0.3	0.5	0.4	0.4
1957	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.6	0.7	0.4
1958	0.5	0.3	0.3	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.2	0.4
1959	0.4	0.4	0.4	0.5	0.2	0.3	0.4	0.2	0.2	0.5	0.6	0.4	0.4
1960	0.2	0.5	0.3	0.6	0.3	0.4	0.3	0.3	0.3	0.3	0.5	0.3	0.4
1961	0.3	0.4	0.3	0.4	0.4	0.6	0.3	0.2	0.5	0.3	0.2	0.4	0.4
1962	0.5	0.4	0.3	0.6	0.2	0.4	0.3	0.3	0.3	0.4	0.4	0.6	0.4
1963	0.4	0.3	0.6	0.3	0.6	0.3	0.3	0.3	0.3	0.3	0.7	0.3	0.4
1964	0.5	0.4	0.4	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.6	0.4
1965	0.4	0.5	0.2	0.4	0.3	0.3	0.5	0.3	0.2	0.4	0.5	0.3	0.4
1966	0.3	0.3	0.4	0.2	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.4	0.4
1967	0.5	0.5	0.3	0.3	0.6	0.7	0.6	0.6	0.5	0.6	0.4	0.4	0.5
1968	0.3	0.3	0.5	0.5	0.3	0.4	0.2	0.2	0.2	0.3	0.4	0.5	0.3
1969	0.4	0.6	0.4	0.6	0.6	0.3	0.4	0.3	0.3	0.2	0.6	0.6	0.4
1970	0.2	0.7	0.3	0.4	0.5	0.5	0.6	0.4	0.3	0.3	0.5	0.4	0.4
1971	0.3	0.6	0.5	0.3	0.5	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4
1972	0.5	0.9	1.1	0.6	0.7	0.7	0.5	0.6	0.3	0.5	0.4	0.4	0.6
1973	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.4	0.5	1.1	0.5
1974	0.5	0.4	1.2	1.1	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.4	0.5
1975	0.5	0.3	0.4	0.4	0.2	0.4	0.5	0.1	0.3	0.2	0.6	0.8	0.4
MEAN	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 13

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.5	2.0	3.1	1.3	1.4	1.9	0.7	1.3	1.9	2.8	2.5
1957	1.7	1.6	2.4	3.0	1.2	1.8	1.0	0.8	2.0	1.4	2.4	2.8
1958	2.7	3.3	2.6	2.0	1.3	1.3	1.0	1.6	1.1	1.4	2.3	1.1
1959	2.7	2.2	3.3	2.3	1.0	1.1	2.2	0.9	0.8	3.4	2.8	2.7
1960	2.3	3.0	2.1	2.7	1.1	1.3	2.0	1.0	2.4	1.7	2.1	2.6
1961	2.7	3.1	2.4	1.6	2.9	1.5	1.4	1.0	3.2	1.0	1.5	2.4
1962	2.6	2.0	2.1	2.4	1.4	1.0	1.0	1.5	1.8	1.9	2.3	3.2
1963	2.8	2.1	2.4	1.5	2.5	1.2	1.0	2.4	2.2	1.1	3.5	2.7
1964	2.8	2.1	2.1	2.0	1.2	1.5	1.1	2.1	1.5	1.1	2.9	2.3
1965	2.4	3.6	1.3	2.1	1.4	1.0	1.0	0.7	1.2	2.0	2.1	1.9
1966	3.4	2.3	2.2	0.9	1.6	1.8	1.8	1.0	2.0	1.7	2.4	3.8
1967	2.7	2.2	1.5	2.0	2.7	1.1	1.1	2.0	1.4	1.9	1.4	2.6
1968	1.8	2.3	2.5	2.3	2.2	2.3	1.0	0.8	1.5	1.3	3.0	2.5
1969	2.6	1.9	2.4	2.5	2.4	1.0	1.4	1.3	1.3	1.1	2.1	3.3
1970	2.2	3.8	2.4	2.3	2.1	1.7	1.9	1.0	1.5	2.0	2.3	3.3
1971	2.9	2.5	3.9	2.5	1.7	1.0	1.5	1.3	0.8	1.9	1.8	2.5
1972	1.8	4.2	2.8	1.5	2.0	2.4	1.2	1.3	2.4	2.0	2.5	1.8
1973	3.0	2.6	2.7	2.2	2.0	1.5	1.7	1.0	1.3	2.9	2.7	4.4
1974	2.5	2.6	3.1	2.3	2.2	2.1	1.2	1.7	2.1	2.1	2.4	3.1
1975	2.6	2.7	3.2	2.8	1.3	2.1	1.6	0.9	2.3	1.0	2.3	3.3

LARGEST HS(METRES) FOR STATION 13 = 4.4

STATION 14 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3655	7010	4241	1656	1433	1449	.	.	.	.	19444
0.50 - 0.99	.	443	2763	1505	566	333	.	.	.	.	5610
1.00 - 1.49	.	.	11	118	140	17	.	.	.	.	286
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3655	7453	7015	3279	2142	1799	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.56 ANGLE CLASS % = 25.4

STATION 14 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1312	1598	.	.	6795	8821	3338	296	350	11	22521
0.50 - 0.99	.	903	1923	444	246	1793	859	95	114	10	6387
1.00 - 1.49	.	.	97	845	545	927	314	47	29	.	2804
1.50 - 1.99	.	.	.	22	287	586	242	17	10	3	1167
2.00 - 2.49	.	.	.	.	53	201	109	27	8	1	399
2.50 - 2.99	.	.	.	.	.	17	13	25	8	.	63
3.00 - 3.49	.	.	.	.	.	.	.	3	5	1	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1312	2501	2020	1311	7926	12345	4875	510	524	27	

AVERAGE HS(M) = 0.49 LARGEST HS(M) = 3.74 ANGLE CLASS % = 33.4

STATION 14 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	708	681	.	.	771	179	150	53	73	2145	4760
0.50 - 0.99	.	542	860	61	65	301	54	6	82	1647	3618
1.00 - 1.49	.	.	119	487	130	177	46	22	78	273	1332
1.50 - 1.99	.	.	.	22	244	179	39	11	23	25	543
2.00 - 2.49	.	.	.	.	51	302	85	3	10	3	454
2.50 - 2.99	.	.	.	.	.	54	99	37	3	1	194
3.00 - 3.49	.	.	.	.	.	.	20	46	8	.	74
3.50 - 3.99	.	.	.	.	.	.	.	10	6	1	17
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	708	1223	979	570	1261	1192	493	188	284	4095	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 4.01 ANGLE CLASS % = 11.0

STATION 14 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	713	932	29	.	1163	468	41	10	58	364	3778
0.50 - 0.99	.	378	1182	265	59	513	73	11	11	246	2738
1.00 - 1.49	.	.	49	515	258	385	112	20	6	68	1413
1.50 - 1.99	.	.	.	15	212	535	154	17	6	35	973
2.00 - 2.49	.	.	.	.	39	306	142	42	1	6	536
2.50 - 2.99	.	.	.	.	.	49	88	54	17	6	214
3.00 - 3.49	.	.	.	.	.	.	10	44	13	.	67
3.50 - 3.99	.	.	.	.	.	.	.	5	5	.	10
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	713	1310	1260	795	1731	2256	620	203	117	725	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 4.03 ANGLE CLASS % = 9.8

STATION 14 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	790	1475	1476	2020	799	119	6	1	.	.	6686
0.50 - 0.99	.	5	333	388	273	265	34	1	.	.	1299
1.00 - 1.49	.	.	1	11	104	234	68	.	.	.	418
1.50 - 1.99	.	.	.	.	6	5	.	.	.	.	11
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	790	1480	1810	2419	1183	623	108	2	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 2.01 ANGLE CLASS % = 8.4

STATION 14 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

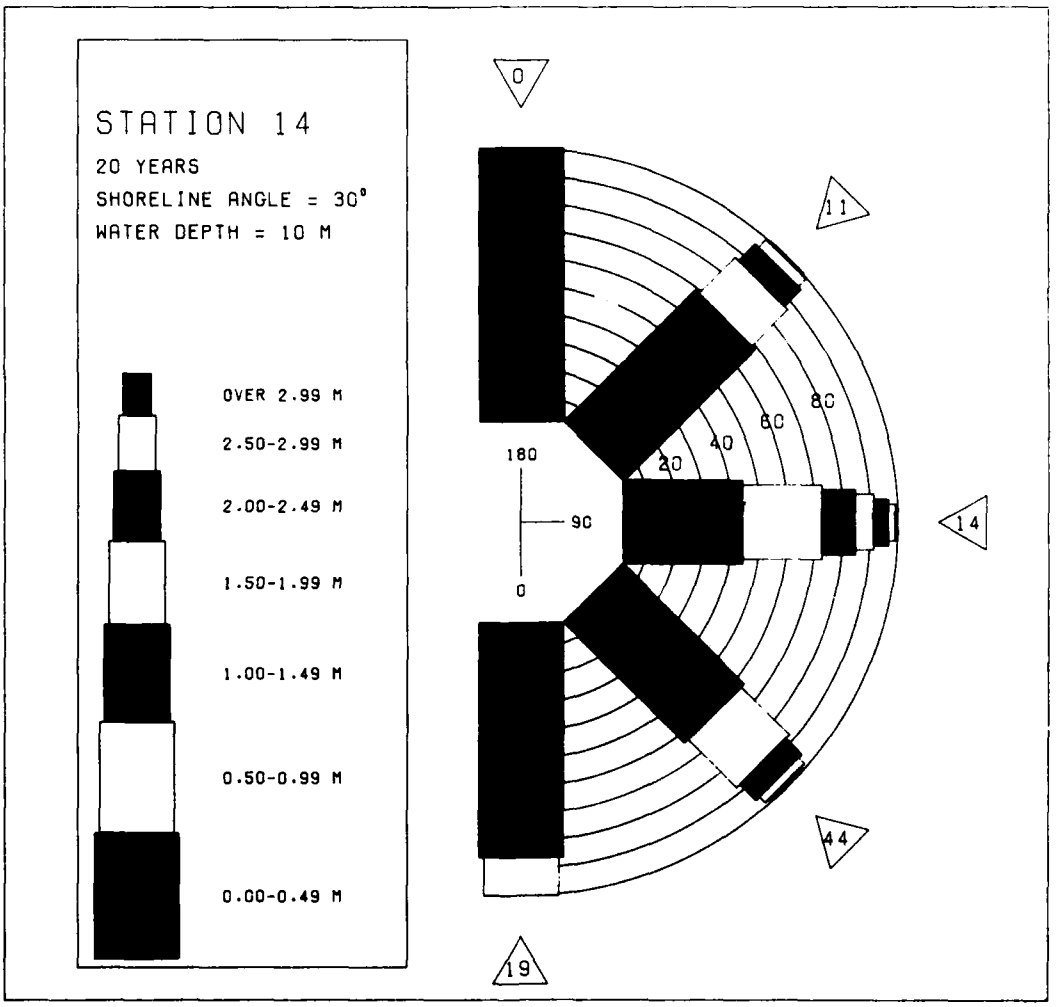
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 14 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	718	1169	574	367	1096	1103	353	36	48	252	5716
0.50 - 0.99	.	227	706	266	121	320	102	11	20	190	1963
1.00 - 1.49	.	.	28	197	117	174	54	9	11	34	624
1.50 - 1.99	.	.	.	5	75	130	43	4	3	6	266
2.00 - 2.49	.	.	.	.	14	81	33	7	2	1	138
2.50 - 2.99	.	.	.	.	.	12	20	11	2	.	45
3.00 - 3.49	.	.	.	.	.	.	3	9	2	.	14
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	718	1396	1308	835	1423	1820	608	88	89	483	

AVE HS(M) = 0.44 LARGEST HS(M) = 4.03 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 14

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.5	0.5	0.6	0.4	0.4	0.4	0.2	0.3	0.4	0.5	0.5	0.5
1957	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.6	0.7	0.4
1958	0.7	0.4	0.5	0.6	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4
1959	0.4	0.4	0.4	0.5	0.2	0.3	0.4	0.2	0.2	0.6	0.7	0.5	0.4
1960	0.2	0.6	0.3	0.5	0.3	0.4	0.3	0.2	0.3	0.4	0.5	0.3	0.4
1961	0.4	0.4	0.4	0.4	0.5	0.6	0.3	0.2	0.6	0.5	0.3	0.4	0.4
1962	0.5	0.5	0.4	0.6	0.3	0.4	0.3	0.3	0.4	0.5	0.5	0.7	0.4
1963	0.4	0.3	0.6	0.3	0.6	0.3	0.3	0.3	0.4	0.3	0.8	0.3	0.4
1964	0.6	0.4	0.5	0.5	0.4	0.3	0.3	0.4	0.5	0.4	0.4	0.6	0.4
1965	0.5	0.5	0.2	0.4	0.3	0.3	0.5	0.3	0.2	0.4	0.5	0.4	0.4
1966	0.4	0.3	0.4	0.2	0.4	0.4	0.4	0.3	0.4	0.3	0.6	0.5	0.4
1967	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.5
1968	0.4	0.3	0.5	0.5	0.4	0.4	0.2	0.2	0.3	0.3	0.5	0.5	0.4
1969	0.4	1.0	0.5	0.6	0.5	0.3	0.4	0.3	0.3	0.3	0.7	0.8	0.5
1970	0.2	0.7	0.3	0.4	0.5	0.5	0.6	0.4	0.3	0.4	0.6	0.5	0.4
1971	0.3	0.7	0.5	0.3	0.5	0.3	0.4	0.3	0.3	0.5	0.4	0.4	0.4
1972	0.5	0.9	1.0	0.6	0.7	0.7	0.5	0.5	0.4	0.5	0.5	0.6	0.6
1973	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.3	0.3	0.5	0.5	1.1	0.5
1974	0.5	0.4	1.1	1.0	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.5	0.5
1975	0.6	0.3	0.5	0.4	0.3	0.4	0.5	0.2	0.3	0.3	0.6	0.9	0.4
MEAN	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 14

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.3	2.4	2.1	2.9	1.2	1.4	1.7	0.9	2.2	1.8	2.6	2.4
1957	2.1	1.6	2.6	2.7	1.2	1.7	1.0	0.8	1.9	1.4	2.2	2.7
1958	2.9	3.2	3.4	2.1	1.5	1.2	1.0	1.5	1.1	2.1	2.2	1.6
1959	2.4	2.0	3.2	2.3	1.0	1.1	2.2	1.1	0.8	3.5	2.7	2.6
1960	2.1	3.1	2.3	2.4	1.3	1.4	1.8	1.0	2.4	1.9	2.2	2.6
1961	2.6	2.7	3.0	1.8	2.9	1.4	1.3	0.9	3.0	1.7	2.3	2.4
1962	2.5	2.2	2.4	2.3	1.4	0.9	1.0	1.4	2.1	2.5	2.4	3.4
1963	2.7	2.0	2.4	1.5	2.5	1.2	1.0	2.2	2.4	1.8	3.4	2.7
1964	3.0	2.4	1.9	1.8	1.1	1.3	1.1	2.0	1.4	1.3	2.8	2.2
1965	2.3	3.7	1.3	2.0	1.4	1.1	1.0	0.7	1.2	2.0	2.0	2.2
1966	3.2	2.5	2.2	1.0	1.5	1.7	1.6	1.0	2.1	1.8	2.8	3.3
1967	3.3	2.3	1.8	2.1	2.4	1.8	1.0	1.8	1.5	1.5	1.5	2.7
1968	2.2	2.1	2.5	2.4	2.3	2.4	0.9	0.8	1.5	1.6	3.3	2.5
1969	2.6	2.7	2.4	2.9	2.2	1.1	1.4	1.2	1.3	0.9	2.3	4.0
1970	1.9	3.5	2.4	2.2	2.0	1.5	1.8	1.3	1.4	2.2	2.3	3.3
1971	2.5	2.8	3.7	2.6	1.7	0.9	1.4	1.4	1.0	2.1	3.0	2.2
1972	1.7	3.6	3.2	1.4	2.0	2.6	1.1	1.3	2.8	2.1	2.9	3.1
1973	3.0	2.5	2.3	2.9	1.8	1.6	1.5	1.0	1.3	3.3	2.5	4.0
1974	2.3	2.5	2.9	2.2	2.2	2.1	1.1	1.4	1.9	2.0	2.3	3.0
1975	2.7	2.5	3.3	3.0	1.4	2.0	1.4	0.9	2.2	1.8	2.3	3.3

LARGEST HS(METRES) FOR STATION 14 = 4.0

STATION 15 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 15 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3415	6529	3639	1351	6365	7530	2549	244	237	.	31859
0.50 - 0.99	.	527	3246	1690	679	1444	395	32	104	.	8117
1.00 - 1.49	.	.	32	557	520	446	124	3	.	.	1682
1.50 - 1.99	.	.	.	8	126	385	82	10	1	.	612
2.00 - 2.49	.	.	.	.	27	58	37	11	1	.	134
2.50 - 2.99	.	.	.	.	.	.	1	3	.	.	4
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3415	7056	6917	3606	7717	9863	3188	303	343	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 2.87 ANGLE CLASS % = 42.4

STATION 15 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	970	1120			2029	2426	770	121	92	1692	9220
0.50 - 0.99	.	725	1315	112	140	1338	693	61	165	2260	6809
1.00 - 1.49	.	.	99	621	171	552	195	68	65	318	2087
1.50 - 1.99	.	.	.	27	294	366	181	29	17	63	977
2.00 - 2.49	.	.	.	.	70	393	150	17	17	8	655
2.50 - 2.99	.	.	.	.	.	53	102	34	10	1	200
3.00 - 3.49	.	.	.	.	.	.	13	37	10	1	61
3.50 - 3.99	.	.	.	.	.	.	.	8	15	1	24
4.00 - 4.49	.	.	.	.	.	.	.	.	1	3	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	970	1845	1414	760	2704	5128	2102	375	392	4347	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 4.37 ANGLE CLASS % = 20.1

STATION 15 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	751	744	.	.	1199	479	99	10	49	373	3704
0.50 - 0.99	.	622	1009	56	83	479	104	11	13	251	2630
1.00 - 1.49	.	.	143	528	145	237	87	13	17	56	1286
1.50 - 1.99	.	.	.	27	268	212	32	6	20	30	595
2.00 - 2.49	.	.	.	.	44	342	112	10	5	6	519
2.50 - 2.99	.	.	.	.	.	63	107	47	3	3	223
3.00 - 3.49	.	.	.	.	.	.	18	53	8	.	79
3.50 - 3.99	.	.	.	.	.	.	.	8	8	.	16
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	751	1366	1152	613	1739	1812	559	158	183	719	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.99 ANGLE CLASS % = 9.1

STATION 15 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	528	693	5	.	773	609	25	1	.	.	2634
0.50 - 0.99	.	367	956	280	142	564	109	3	.	.	2421
1.00 - 1.49	.	.	66	475	318	532	162	5	.	.	1558
1.50 - 1.99	.	.	.	15	150	448	150	25	.	.	788
2.00 - 2.49	.	.	.	.	27	140	75	47	5	.	294
2.50 - 2.99	.	.	.	.	.	15	18	25	17	.	75
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	528	1060	1027	770	1410	2308	539	107	22	0	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.15 ANGLE CLASS % = 7.8

STATION 15 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

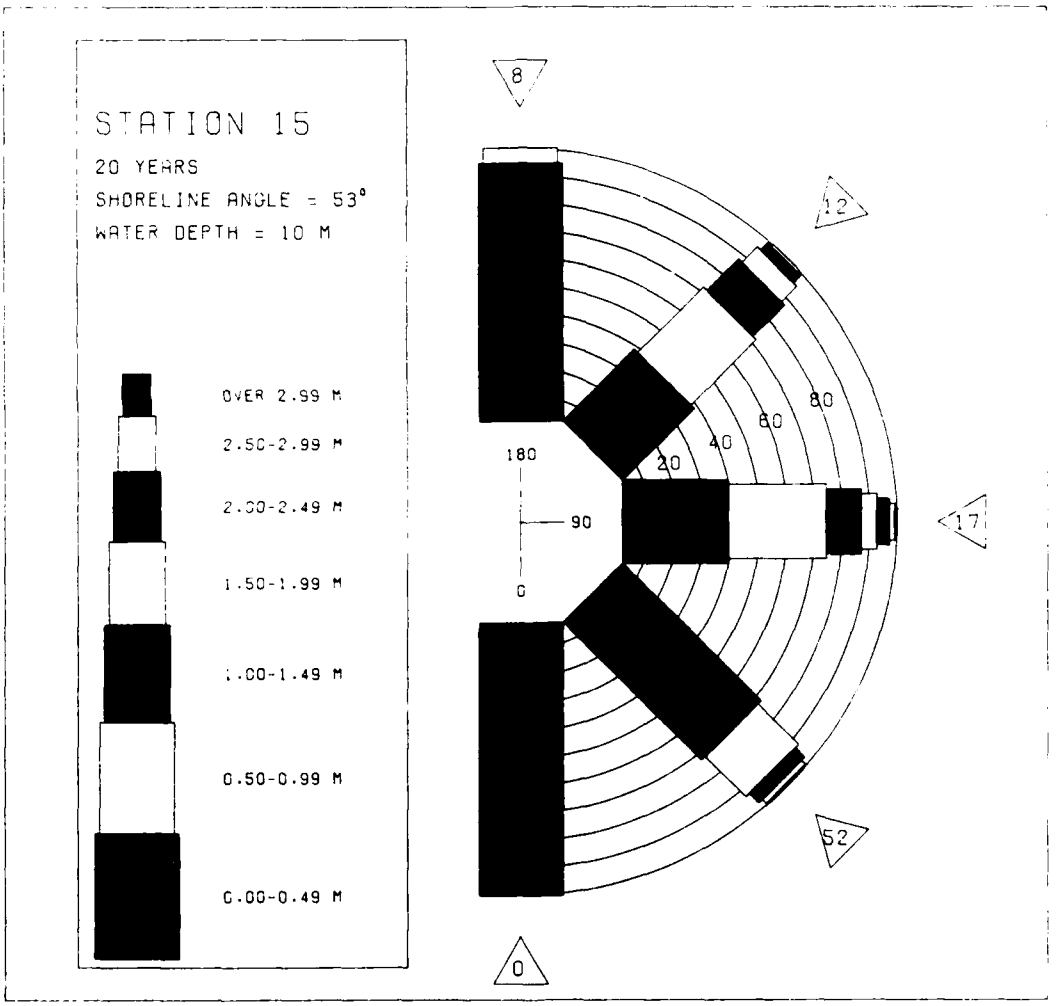
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	987	1856	1652	2510	975	92	.	.	.	.	8072
0.50 - 0.99	.	59	580	564	169	54	.	.	.	.	1426
1.00 - 1.49	.	.	3	17	22	1	.	.	.	.	43
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	987	1915	2235	3091	1166	147	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.40 ANGLE CLASS % = 9.5

STATION 15 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

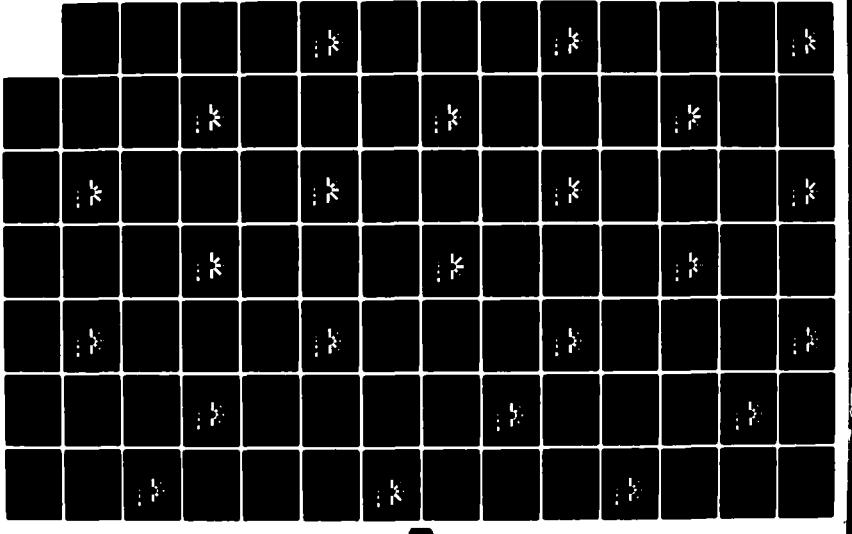
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	665	1094	529	386	1134	1113	344	37	37	206	5545
0.50 - 0.99	.	230	710	270	121	388	130	10	26	251	2138
1.00 - 1.49	.	.	34	220	117	177	56	9	14	37	664
1.50 - 1.99	.	.	.	7	84	141	44	7	3	9	295
2.00 - 2.49	.	.	.	.	16	93	37	8	2	1	157
2.50 - 2.99	.	.	.	.	.	13	23	11	3	.	50
3.00 - 3.49	.	.	.	.	.	.	3	9	1	.	13
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	665	1324	1273	883	1472	1925	637	92	90	504	

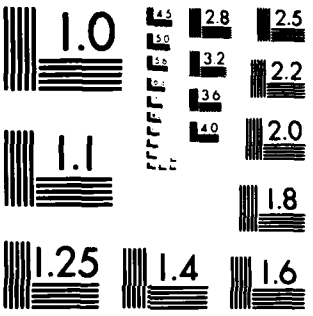
AVE HS(M) = 0.47 LARGEST HS(M) = 4.37 TOTAL CASES = 58440



AD-A129 642 ATLANTIC COAST HINDCAST SHALLOW-WATER SIGNIFICANT WAVE INFORMATION(U) ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRAULICS LAB R E JENSEN JAN 83 2/8

UNCLASSIFIED WIS-9 F/G 12/1 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

MEAN HS(METRES) BY MONTH AND YEAR

STATION 15

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.5	0.6	0.6	0.4	0.5	0.4	0.2	0.3	0.4	0.5	0.5	0.5
1957	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.6	0.8	0.4
1958	0.7	0.4	0.5	0.7	0.4	0.3	0.3	0.4	0.3	0.5	0.4	0.3	0.4
1959	0.4	0.5	0.5	0.5	0.2	0.3	0.4	0.2	0.2	0.6	0.7	0.5	0.4
1960	0.2	0.6	0.4	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.6	0.4	0.4
1961	0.4	0.4	0.5	0.5	0.5	0.6	0.3	0.2	0.6	0.5	0.3	0.4	0.4
1962	0.6	0.6	0.4	0.6	0.3	0.4	0.3	0.4	0.4	0.5	0.5	0.7	0.5
1963	0.5	0.3	0.6	0.3	0.6	0.3	0.3	0.3	0.5	0.3	0.8	0.3	0.4
1964	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.4	0.5	0.4	0.5	0.7	0.5
1965	0.5	0.5	0.3	0.4	0.3	0.3	0.5	0.3	0.3	0.4	0.6	0.4	0.4
1966	0.5	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.5	0.4
1967	0.6	0.6	0.5	0.5	0.7	0.7	0.6	0.6	0.5	0.6	0.4	0.5	0.6
1968	0.4	0.4	0.6	0.5	0.4	0.4	0.2	0.2	0.3	0.3	0.5	0.5	0.4
1969	0.5	1.0	0.6	0.6	0.6	0.3	0.4	0.3	0.3	0.3	0.7	0.8	0.5
1970	0.2	0.7	0.4	0.4	0.6	0.5	0.6	0.4	0.3	0.4	0.6	0.6	0.5
1971	0.4	0.7	0.5	0.4	0.5	0.3	0.4	0.3	0.3	0.5	0.4	0.4	0.4
1972	0.5	1.0	1.1	0.6	0.7	0.7	0.5	0.5	0.4	0.5	0.6	0.6	0.7
1973	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.5	1.2	0.6
1974	0.5	0.5	1.2	1.1	0.4	0.4	0.4	0.3	0.4	0.3	0.6	0.5	0.6
1975	0.7	0.4	0.5	0.5	0.3	0.4	0.5	0.2	0.3	0.3	0.7	1.0	0.5
MEAN	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 15

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.0	2.4	2.1	3.1	1.2	1.4	1.9	0.8	2.2	1.9	2.7	2.5
1957	2.2	1.6	2.6	3.0	1.3	1.8	1.0	0.8	2.0	1.4	2.3	2.9
1958	2.8	3.3	3.3	2.1	1.4	1.3	1.0	1.6	1.1	2.0	2.3	1.6
1959	2.6	2.2	3.2	2.3	1.0	1.1	2.2	1.1	0.8	3.5	2.8	2.7
1960	2.3	3.2	2.3	2.7	1.3	1.4	1.9	1.1	2.5	1.7	2.2	2.6
1961	2.7	3.0	2.9	1.8	2.9	1.5	1.4	1.1	3.2	1.7	2.3	2.4
1962	2.5	2.2	2.3	2.4	1.4	1.0	1.0	1.4	1.9	2.5	2.3	3.3
1963	2.8	2.1	2.4	1.6	2.5	1.2	1.1	2.4	2.3	1.8	3.6	2.7
1964	2.9	2.4	2.2	2.0	1.2	1.4	1.1	2.1	1.4	1.4	2.9	2.3
1965	2.4	3.7	1.3	2.1	1.5	1.2	1.0	0.7	1.2	2.0	2.1	2.1
1966	3.4	2.4	2.3	1.0	1.5	1.9	1.7	1.0	2.2	1.9	2.8	3.6
1967	3.3	2.3	1.9	2.1	2.7	1.7	1.1	1.9	1.4	1.8	1.5	2.7
1968	2.1	2.3	2.6	2.5	2.3	2.4	1.1	0.8	1.5	1.5	3.3	2.5
1969	2.7	2.5	2.4	2.9	2.3	1.1	1.5	1.3	1.4	1.1	2.3	4.0
1970	2.1	3.8	2.4	2.3	2.2	1.6	1.9	1.6	1.5	2.1	2.3	3.1
1971	2.8	2.7	3.7	2.6	1.7	1.0	1.5	1.4	1.0	2.1	2.7	2.4
1972	1.8	4.2	3.2	1.5	2.0	2.5	1.2	1.3	2.8	2.0	2.8	2.9
1973	3.1	2.6	2.5	2.8	2.0	1.6	1.8	1.0	1.3	3.3	2.6	4.4
1974	2.4	2.6	3.0	2.2	2.2	2.1	1.2	1.7	2.3	2.0	2.4	3.2
1975	2.7	2.7	3.4	3.0	1.6	2.2	1.5	0.9	2.3	1.8	2.4	3.5

LARGEST HS(METRES) FOR STATION 15 = 4.4

STATION 16 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 16 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2683	4857	3911	2200	282	35	.	.	.	.	13968
0.50 - 0.99	.	.	159	266	94	27	.	.	.	.	546
1.00 - 1.49	.	.	.	.	3	.	.	.	.	.	3
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2683	4857	4070	2466	379	62	0	0	0	0	

AVERAGE HS(M) = 0.17 LARGEST HS(M) = 1.27 ANGLE CLASS % = 14.5

STATION 16 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2549	3728	701	.	1502	826	77	231	95	78	9787
0.50 - 0.99	.	448	2496	1288	331	492	88	5	3	3	5149
1.00 - 1.49	.	.	51	561	458	314	83	1	.	.	1468
1.50 - 1.99	.	.	.	11	260	338	30	3	.	.	642
2.00 - 2.49	.	.	.	.	53	172	25	1	.	.	251
2.50 - 2.99	.	.	.	.	.	22	23	8	.	.	53
3.00 - 3.49	.	.	.	.	.	.	10	13	.	.	23
3.50 - 3.99	.	.	.	.	.	.	.	8	.	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2549	4176	3248	1860	2604	2164	336	265	98	81	

AVERAGE HS(M) = 0.56 LARGEST HS(M) = 3.68 ANGLE CLASS % = 17.4

STATION 16 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1048	859			3513	5980	4368	63	157	982	16970
0.50 - 0.99	.	595	1069	70	126	3376	2256	114	119	325	8052
1.00 - 1.49	.	.	126	542	124	728	711	396	87	128	2842
1.50 - 1.99	.	.	.	29	285	299	231	104	27	22	997
2.00 - 2.49	.	.	.	.	65	362	176	20	10	10	643
2.50 - 2.99	.	.	.	.	.	41	104	41	15	3	204
3.00 - 3.49	.	.	.	.	.	1	11	49	18	1	80
3.50 - 3.99	.	.	.	.	.	.	.	5	6	1	12
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1048	1454	1195	641	4113	10787	7859	792	439	1472	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.91 ANGLE CLASS % = 29.8

STATION 16 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	713	722	5		1221	1187	112	1	.	.	3961
0.50 - 0.99	.	367	918	273	90	739	251	6	.	.	2624
1.00 - 1.49	.	.	71	487	318	443	548	13	.	.	1580
1.50 - 1.99	.	.	.	11	138	342	176	18	.	.	685
2.00 - 2.49	.	.	.	.	34	136	106	29	5	.	310
2.50 - 2.99	.	.	.	.	1	10	13	20	1	.	45
3.00 - 3.49	.	.	.	.	.	.	1	1	1	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	713	1089	994	771	1802	2857	887	88	7	0	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.24 ANGLE CLASS % = 9.2

STATION 16 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

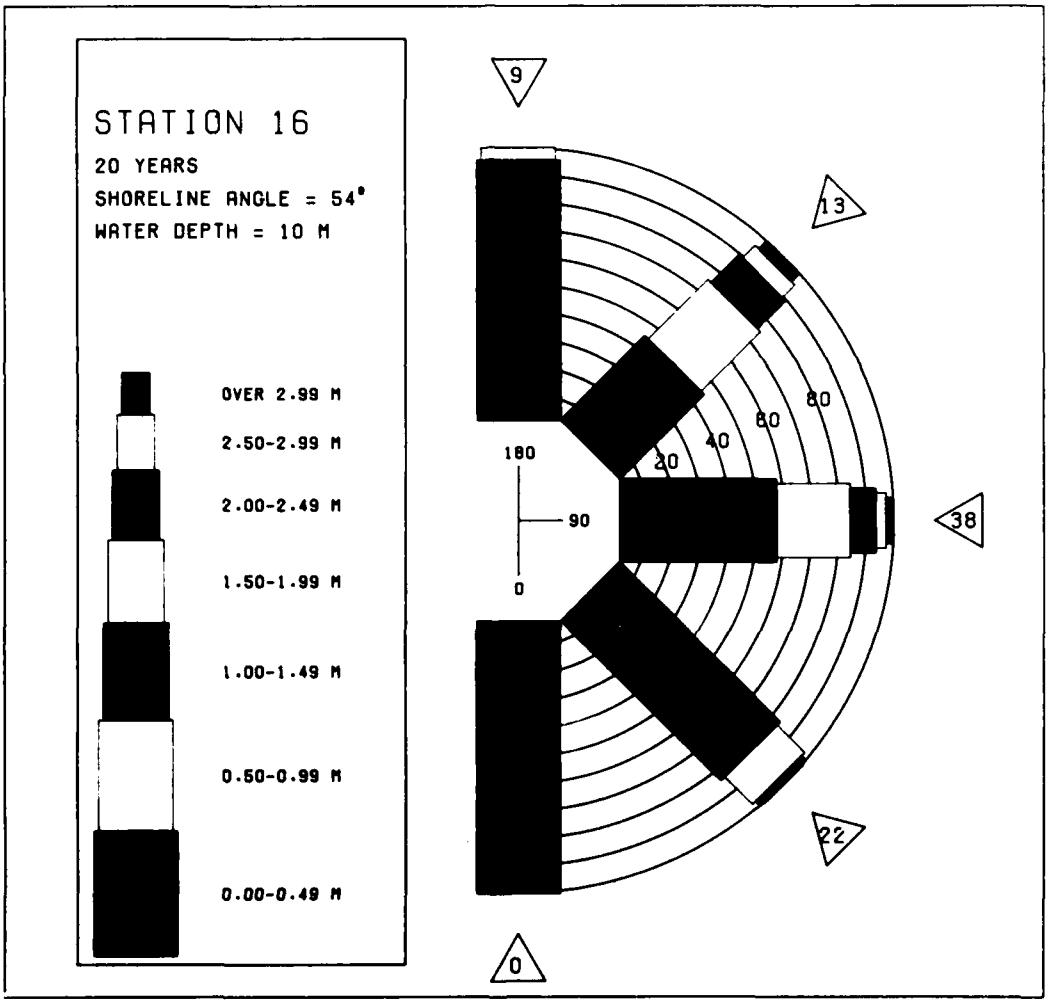
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1719	2414	1969	2342	651	49	.	.	.	.	9144
0.50 - 0.99	.	47	456	619	174	17	.	.	.	.	1313
1.00 - 1.49	.	.	.	32	39	1	.	.	.	.	72
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1719	2461	2425	2993	864	67	0	0	0	0	

AVERAGE HS(M) = 0.23 LARGEST HS(M) = 1.36 ANGLE CLASS % = 10.5

STATION 16 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	871	1258	658	454	717	808	455	29	25	106	5381
0.50 - 0.99	.	145	510	251	81	465	257	12	12	32	1765
1.00 - 1.49	.	.	24	162	94	148	104	41	8	12	593
1.50 - 1.99	.	.	.	5	68	98	43	12	2	2	230
2.00 - 2.49	.	.	.	.	15	67	30	5	1	1	119
2.50 - 2.99	.	.	.	.	.	7	14	7	1	.	29
3.00 - 3.49	.	.	.	.	.	.	2	6	2	.	10
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	871	1403	1192	872	975	1593	905	113	51	153	

AVE HS(M) = 0.39 LARGEST HS(M) = 3.91 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 16

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.5	0.4	0.6	0.2	0.2	0.3	0.1	0.3	0.4	0.5	0.6	0.4
1957	0.3	0.2	0.6	0.3	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.7	0.3
1958	0.9	0.4	0.8	0.7	0.4	0.6	0.3	0.3	0.2	0.5	0.4	0.2	0.5
1959	0.3	0.3	0.4	0.4	0.1	0.2	0.2	0.2	0.2	0.7	1.3	0.5	0.4
1960	0.2	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.3	0.3
1961	0.4	0.3	0.5	0.4	0.4	0.2	0.2	0.1	0.6	0.8	0.4	0.3	0.4
1962	0.4	0.6	0.5	0.5	0.2	0.2	0.1	0.3	0.3	0.4	0.5	0.5	0.4
1963	0.3	0.3	0.5	0.2	0.6	0.2	0.2	0.2	0.7	0.2	0.8	0.2	0.4
1964	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.3	0.4	0.2	0.3	0.5	0.3
1965	0.4	0.4	0.2	0.4	0.2	0.3	0.3	0.2	0.2	0.2	0.4	0.4	0.3
1966	0.4	0.2	0.4	0.2	0.3	0.4	0.2	0.1	0.5	0.2	1.0	0.4	0.4
1967	0.4	0.5	0.3	0.4	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.5	0.3
1968	0.4	0.4	0.6	0.4	0.3	0.5	0.5	0.4	0.3	0.2	0.5	0.4	0.4
1969	0.5	0.9	0.5	0.5	0.5	0.3	0.6	0.2	0.3	0.2	0.8	0.8	0.5
1970	0.1	0.6	0.3	0.3	0.6	0.5	0.3	0.5	0.2	0.4	0.5	0.5	0.4
1971	0.2	0.6	0.4	0.2	0.3	0.4	0.2	0.2	0.3	0.5	0.4	0.4	0.3
1972	0.3	0.9	0.9	0.2	0.6	0.6	0.3	0.2	0.5	0.5	0.6	0.6	0.5
1973	0.4	0.5	0.6	0.6	0.7	0.4	0.3	0.3	0.2	0.4	0.4	0.8	0.5
1974	0.4	0.4	0.6	0.5	0.3	0.4	0.1	0.2	0.4	0.2	0.4	0.6	0.4
1975	0.6	0.3	0.5	0.3	0.2	0.4	0.3	0.1	0.2	0.3	0.4	0.9	0.4
MEAN	0.4	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 16

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.2	2.1	1.9	2.6	1.1	1.3	1.3	0.8	2.0	1.4	2.3	2.2
1957	2.2	1.6	2.3	2.4	1.0	1.6	0.8	0.8	1.0	1.7	2.0	2.6
1958	2.7	3.2	3.3	2.0	1.2	1.2	1.0	1.5	0.8	2.0	2.1	1.6
1959	2.2	1.9	3.3	2.1	0.9	0.9	1.5	0.8	0.6	3.5	2.6	2.4
1960	1.8	3.5	2.3	1.8	1.3	1.4	1.2	0.8	2.4	1.6	2.2	2.5
1961	2.3	2.3	2.9	2.0	2.7	1.0	1.0	0.7	2.7	1.8	1.8	2.7
1962	2.4	2.0	2.5	2.1	1.3	0.6	0.9	1.0	2.1	2.4	2.4	3.4
1963	2.5	2.1	2.2	1.5	2.2	0.8	0.8	2.0	2.0	1.3	3.2	2.5
1964	2.7	2.3	1.7	1.7	0.8	1.0	1.0	2.1	1.5	1.1	2.8	2.1
1965	2.4	3.7	1.4	1.9	1.3	1.2	0.8	0.8	1.2	1.9	1.9	2.3
1966	3.0	2.2	2.2	1.0	1.3	1.3	1.1	0.7	2.0	1.8	2.8	2.6
1967	3.3	2.5	1.6	2.1	2.0	1.4	0.8	1.0	1.3	1.4	1.6	2.7
1968	2.1	2.1	2.5	2.3	2.1	2.1	1.0	0.9	1.4	1.5	3.3	2.4
1969	2.3	2.5	2.4	2.5	2.0	0.9	1.5	1.0	1.3	0.8	2.4	3.9
1970	1.6	2.8	2.4	2.2	1.8	1.4	1.2	1.3	1.0	2.0	2.1	2.8
1971	2.2	2.3	3.7	2.4	1.3	0.8	1.1	1.4	1.0	2.4	2.4	2.1
1972	1.6	3.8	2.6	1.3	2.1	2.5	1.3	1.0	2.5	2.3	2.7	2.8
1973	2.5	2.5	2.1	3.0	1.9	1.6	1.4	1.1	1.1	3.4	2.3	3.6
1974	2.3	2.4	2.8	1.9	2.4	1.7	0.7	0.9	1.9	1.2	2.3	3.0
1975	2.5	2.4	3.0	3.0	1.0	2.0	0.9	0.9	1.3	1.8	2.2	3.4

LARGEST HS(METRES) FOR STATION 16 = 3.9

STATION 17 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 17 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4349	7118	4074	1906	2838	1199	27	.	.	.	21511
0.50 - 0.99	.	215	1605	970	518	621	92	.	.	.	4021
1.00 - 1.49	.	.	17	273	296	338	63	1	.	.	988
1.50 - 1.99	.	.	.	3	130	186	18	5	.	.	342
2.00 - 2.49	.	.	.	.	20	29	17	10	.	.	76
2.50 - 2.99	.	.	.	.	.	1	3	1	.	.	5
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4349	7333	5696	3152	3802	2374	220	17	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 2.95 ANGLE CLASS % = 27.0

STATION 17 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	749	681	.	.	3697	6483	5001	359	253	1062	18285
0.50 - 0.99	.	412	797	54	118	3302	2291	118	131	378	7601
1.00 - 1.49	.	.	104	446	112	704	653	410	87	104	2620
1.50 - 1.99	.	.	.	18	205	323	242	90	27	37	942
2.00 - 2.49	.	.	.	.	56	270	138	13	8	15	500
2.50 - 2.99	.	.	.	.	.	29	77	25	5	6	142
3.00 - 3.49	.	.	.	.	.	1	10	51	5	1	68
3.50 - 3.99	.	.	.	.	.	.	.	.	5	1	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	749	1093	901	518	4188	11112	8412	1066	521	1604	

AVERAGE HS(M) = 0.55 LARGEST HS(M) = 3.94 ANGLE CLASS % = 30.2

STATION 17 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	819	725			751	838	47	1	.	.	3181
0.50 - 0.99	.	458	990	94	51	783	142	3	.	.	2521
1.00 - 1.49	.	.	107	593	140	460	193	3	.	.	1496
1.50 - 1.99	.	.	.	49	282	345	161	13	.	.	870
2.00 - 2.49	.	.	.	.	70	385	207	13	.	.	675
2.50 - 2.99	.	.	.	.	3	114	179	39	1	.	336
3.00 - 3.49	.	.	.	.	.	3	41	46	13	.	103
3.50 - 3.99	.	.	.	.	.	.	.	13	15	.	28
4.00 - 4.49	.	.	.	.	.	.	.	.	5	.	5
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	819	1183	1097	736	1297	2928	990	131	34	0	

AVERAGE HS(M) = 0.97 LARGEST HS(M) = 4.18 ANGLE CLASS % = 9.2

STATION 17 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1777	2575	2091	2963	973	59	.	.	.	.	10438
0.50 - 0.99	.	63	737	925	162	49	.	.	.	.	1936
1.00 - 1.49	.	.	11	273	176	37	.	.	.	.	497
1.50 - 1.99	.	.	.	10	85	34	1	.	.	.	130
2.00 - 2.49	.	.	.	.	8	27	.	.	.	.	35
2.50 - 2.99	.	.	.	.	.	3	.	.	.	.	3
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1777	2638	2839	4171	1404	209	1	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 2.78 ANGLE CLASS % = 13.1

STATION 17 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

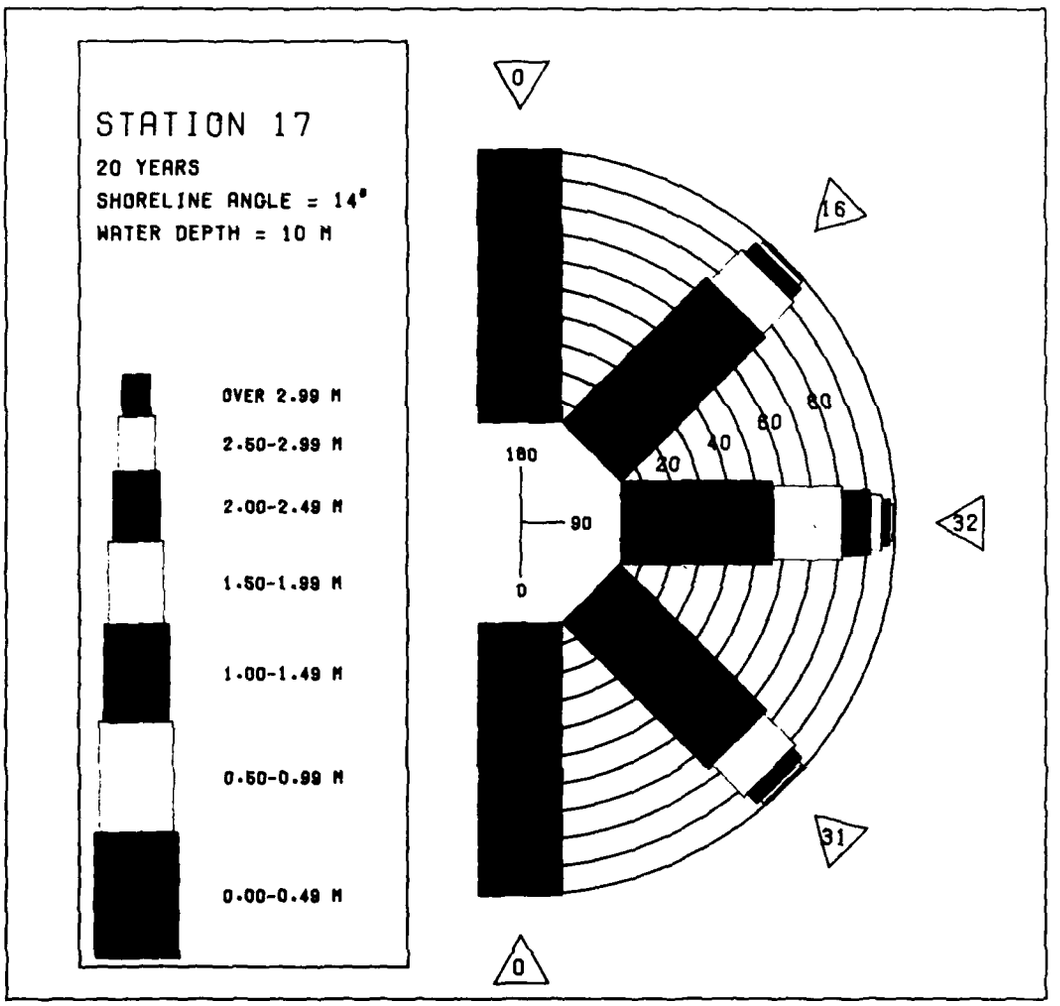
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	35	.	.	.	.	.	.	.	.	.	35
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	35	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 17 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	773	1110	616	486	826	858	507	36	25	106	5343
0.50 - 0.99	.	114	417	204	85	475	252	12	13	37	1605
1.00 - 1.49	.	.	24	158	72	154	91	41	8	10	558
1.50 - 1.99	.	.	.	8	70	88	44	10	2	3	225
2.00 - 2.49	.	.	.	.	15	71	36	3	.	1	126
2.50 - 2.99	.	.	.	.	.	14	26	6	.	.	46
3.00 - 3.49	.	.	.	.	.	.	5	9	1	.	15
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	773	1224	1053	856	1068	1660	961	118	51	157	

AVE HS(M) = 0.38 LARGEST HS(M) = 4.18 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 17

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	0.5	0.5	0.6	0.2	0.2	0.2	0.1	0.2	0.5	0.4	0.6	0.4
1957	0.3	0.2	0.7	0.3	0.1	0.1	0.1	0.2	0.2	0.4	0.6	0.6	0.3
1958	0.9	0.4	0.9	0.7	0.3	0.6	0.2	0.2	0.1	0.5	0.3	0.3	0.5
1959	0.3	0.3	0.4	0.4	0.1	0.2	0.2	0.2	0.2	0.7	1.2	0.5	0.4
1960	0.2	0.6	0.4	0.3	0.3	0.3	0.1	0.1	0.2	0.4	0.3	0.3	0.3
1961	0.4	0.4	0.6	0.4	0.4	0.2	0.1	0.1	0.6	0.8	0.4	0.3	0.4
1962	0.4	0.7	0.6	0.5	0.2	0.1	0.1	0.3	0.3	0.4	0.6	0.5	0.4
1963	0.3	0.3	0.5	0.2	0.5	0.2	0.1	0.1	0.7	0.2	0.7	0.3	0.3
1964	0.5	0.4	0.4	0.3	0.1	0.1	0.2	0.3	0.4	0.3	0.3	0.5	0.3
1965	0.4	0.4	0.3	0.4	0.1	0.3	0.2	0.1	0.2	0.2	0.4	0.4	0.3
1966	0.5	0.2	0.4	0.2	0.2	0.3	0.2	0.1	0.5	0.2	1.0	0.5	0.3
1967	0.4	0.5	0.4	0.5	0.5	0.3	0.1	0.1	0.2	0.2	0.2	0.5	0.3
1968	0.4	0.4	0.6	0.4	0.3	0.5	0.5	0.4	0.3	0.2	0.6	0.3	0.4
1969	0.5	1.2	0.5	0.5	0.4	0.3	0.6	0.2	0.3	0.2	0.8	0.8	0.5
1970	0.1	0.5	0.3	0.3	0.5	0.4	0.2	0.5	0.2	0.4	0.6	0.6	0.4
1971	0.2	0.6	0.4	0.2	0.3	0.3	0.1	0.2	0.2	0.5	0.4	0.4	0.3
1972	0.2	0.9	0.9	0.3	0.6	0.6	0.3	0.2	0.5	0.5	0.6	0.6	0.5
1973	0.3	0.6	0.6	0.6	0.7	0.3	0.2	0.3	0.2	0.4	0.3	0.7	0.4
1974	0.4	0.5	0.5	0.4	0.3	0.3	0.1	0.2	0.4	0.1	0.4	0.6	0.4
1975	0.6	0.3	0.5	0.3	0.2	0.4	0.2	0.1	0.2	0.3	0.4	0.9	0.4
MEAN	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 17

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.2	2.1	2.5	2.7	0.9	1.3	1.1	1.1	2.5	1.6	2.1	2.6
1957	2.3	1.4	2.7	2.1	1.2	1.1	0.5	0.8	0.8	1.9	2.3	2.6
1958	3.0	3.2	3.4	2.3	1.3	1.1	0.9	1.2	0.9	2.3	1.8	2.1
1959	2.1	1.7	3.3	1.9	0.6	0.7	1.6	0.9	0.7	3.5	2.4	2.9
1960	1.6	3.2	2.7	1.6	1.3	1.4	1.0	0.8	2.4	2.1	2.1	2.5
1961	2.8	2.8	2.9	1.9	2.7	0.8	0.7	0.6	2.7	2.6	2.3	2.0
1962	2.2	2.8	3.0	2.4	1.1	0.6	0.8	1.4	2.4	2.6	2.6	3.6
1963	2.3	1.9	2.2	1.2	2.1	0.8	0.6	1.7	2.1	1.7	3.5	2.2
1964	2.9	2.3	1.8	1.2	0.7	0.6	0.8	1.9	1.6	1.2	2.6	1.8
1965	2.5	3.4	1.4	1.8	1.2	1.3	0.6	0.7	1.0	1.9	1.7	2.3
1966	2.9	2.3	2.2	1.0	1.4	1.1	1.1	0.7	1.9	1.7	2.7	3.2
1967	3.3	2.5	2.0	2.3	2.3	1.7	0.6	1.1	1.5	1.1	1.6	2.7
1968	2.2	2.1	3.0	2.3	2.0	2.1	0.8	0.8	1.2	1.6	3.3	2.4
1969	2.1	3.5	2.9	2.7	1.5	0.9	1.4	0.8	1.2	1.2	2.4	3.9
1970	1.0	2.8	2.3	2.0	1.5	1.1	0.8	1.4	0.7	2.0	2.0	3.6
1971	1.9	2.3	3.4	2.6	1.4	0.9	0.8	1.5	1.1	2.5	3.0	2.5
1972	1.2	3.9	2.5	1.3	1.9	2.6	1.1	1.0	3.1	2.3	3.1	3.1
1973	2.9	2.4	2.0	3.4	1.5	1.5	1.0	0.9	0.9	3.4	1.8	3.5
1974	2.1	2.4	2.8	2.0	2.3	1.6	0.6	0.9	1.4	0.8	2.2	3.2
1975	2.6	2.1	2.8	3.0	1.4	1.8	1.0	1.0	1.3	2.0	2.3	4.1

LARGEST HS(METRES) FOR STATION 17 = 4.2

STATION 18 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 18 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2578	4618	3574	1848	1360	195	6	.	.	.	14179
0.50 - 0.99	.	.	95	184	193	53	.	.	.	.	525
1.00 - 1.49	.	.	.	.	10	1	.	.	.	.	11
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2578	4618	3669	2032	1563	249	6	0	0	0	

AVERAGE HS(M) = 0.16 LARGEST HS(M) = 1.17 ANGLE CLASS % = 14.7

STATION 18 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1974	2681	414	.	4317	6860	4760	349	154	470	21979
0.50 - 0.99	.	333	1783	814	393	3737	2351	95	114	135	9765
1.00 - 1.49	.	.	44	455	350	983	701	395	80	49	3057
1.50 - 1.99	.	.	.	5	358	432	254	112	27	5	1093
2.00 - 2.49	.	.	.	.	42	208	150	17	8	3	428
2.50 - 2.99	.	.	.	.	.	13	61	22	6	.	102
3.00 - 3.49	.	.	.	.	.	1	5	29	3	1	39
3.50 - 3.99	.	.	.	.	.	.	.	3	.	1	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1974	3014	2251	1274	5360	12234	8282	1022	392	664	

AVERAGE HS(M) = 0.53 LARGEST HS(M) = 3.80 ANGLE CLASS % = 36.5

STATION 18 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	817	655			1011	549	152	10	92	574	3860
0.50 - 0.99	.	521	888	59	41	554	131	25	13	231	2463
1.00 - 1.49	.	.	126	528	106	306	176	15	8	65	1330
1.50 - 1.99	.	.	.	37	244	244	157	6	.	30	718
2.00 - 2.49	.	.	.	.	65	338	147	11	1	11	573
2.50 - 2.99	.	.	.	.	.	80	145	49	1	6	281
3.00 - 3.49	.	.	.	.	.	1	30	59	17	.	107
3.50 - 3.99	.	.	.	.	.	.	.	5	22	.	27
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	817	1176	1014	624	1467	2072	938	180	154	917	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 3.94 ANGLE CLASS % = 9.4

STATION 18 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	718	682	5		552	667	34	.	.	.	2658
0.50 - 0.99	.	316	915	333	56	410	77	.	.	.	2107
1.00 - 1.49	.	.	73	550	285	232	68	3	.	.	1211
1.50 - 1.99	.	.	.	42	201	278	68	.	.	.	589
2.00 - 2.49	.	.	.	.	27	133	66	8	.	.	234
2.50 - 2.99	.	.	.	.	3	23	23	3	.	.	52
3.00 - 3.49	.	.	.	.	.	1	1	3	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	718	998	993	925	1124	1744	337	18	0	0	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 3.54 ANGLE CLASS % = 6.9

STATION 18 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

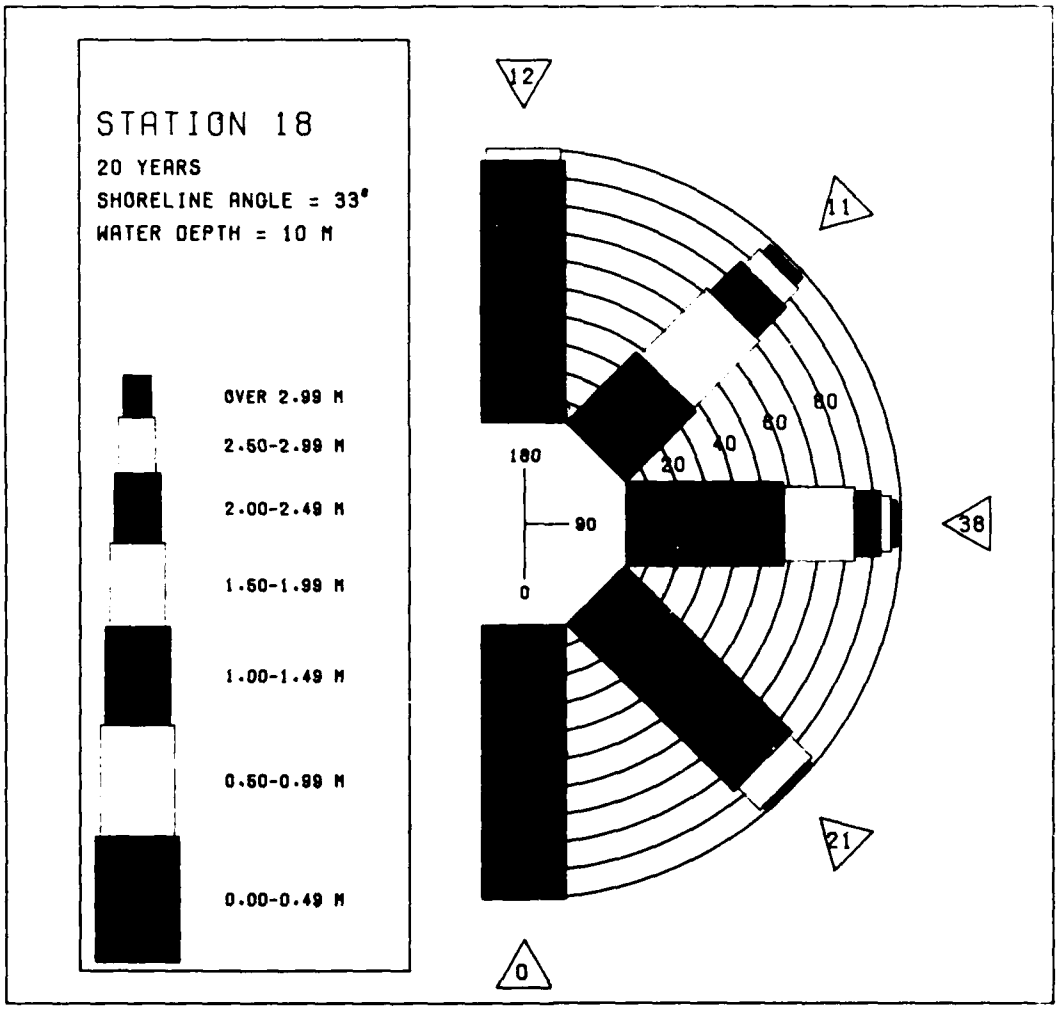
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1897	2847	2553	3894	1387	47	.	.	.	.	12625
0.50 - 0.99	.	42	556	865	188	18	.	.	.	.	1669
1.00 - 1.49	.	.	3	65	20	.	.	.	.	.	88
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1897	2889	3112	4824	1600	65	0	0	0	0	

AVERAGE HS(M) = 0.22 LARGEST HS(M) = 1.80 ANGLE CLASS % = 14.4

STATION 18 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	798	1148	654	574	862	831	495	35	24	104	5525
0.50 - 0.99	.	121	424	325	87	477	255	13	12	36	1649
1.00 - 1.49	.	.	24	159	77	152	94	41	8	11	566
1.50 - 1.99	.	.	.	8	71	65	46	11	2	3	238
2.00 - 2.49	.	.	.	.	13	68	36	4	1	1	122
2.50 - 2.99	.	.	.	.	.	11	23	7	.	.	41
3.00 - 3.49	.	.	.	.	.	.	3	9	2	.	14
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	798	1269	1102	966	1110	1634	954	119	51	155	

AVE HS(M) = 0.39 LARGEST HS(M) = 3.94 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 18

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	0.5	0.5	0.6	0.2	0.2	0.2	0.1	0.3	0.5	0.4	0.6	0.4
1957	0.3	0.3	0.7	0.3	0.2	0.1	0.1	0.2	0.2	0.5	0.6	0.6	0.3
1958	0.9	0.5	0.9	0.7	0.3	0.6	0.2	0.2	0.2	0.5	0.3	0.3	0.5
1959	0.3	0.3	0.4	0.4	0.1	0.2	0.2	0.2	0.2	0.7	1.3	0.5	0.4
1960	0.2	0.6	0.4	0.4	0.3	0.3	0.1	0.1	0.2	0.3	0.3	0.3	0.3
1961	0.4	0.4	0.6	0.4	0.4	0.2	0.1	0.1	0.7	0.8	0.4	0.3	0.4
1962	0.4	0.7	0.6	0.5	0.2	0.1	0.1	0.3	0.3	0.4	0.6	0.5	0.4
1963	0.3	0.3	0.5	0.2	0.6	0.2	0.1	0.1	0.7	0.2	0.7	0.3	0.4
1964	0.5	0.4	0.4	0.3	0.1	0.1	0.2	0.3	0.4	0.3	0.3	0.5	0.3
1965	0.4	0.4	0.3	0.4	0.1	0.3	0.2	0.1	0.2	0.2	0.4	0.4	0.3
1966	0.5	0.3	0.4	0.2	0.2	0.3	0.2	0.1	0.5	0.2	1.0	0.5	0.4
1967	0.4	0.5	0.4	0.5	0.5	0.3	0.1	0.1	0.3	0.3	0.3	0.5	0.3
1968	0.5	0.4	0.6	0.4	0.3	0.5	0.5	0.4	0.3	0.2	0.6	0.4	0.4
1969	0.5	1.2	0.5	0.5	0.4	0.3	0.6	0.2	0.3	0.2	0.8	0.8	0.5
1970	0.1	0.5	0.4	0.3	0.6	0.4	0.3	0.5	0.2	0.4	0.6	0.6	0.4
1971	0.2	0.6	0.4	0.2	0.3	0.3	0.1	0.2	0.2	0.5	0.4	0.4	0.3
1972	0.2	0.9	0.9	0.3	0.6	0.6	0.3	0.2	0.5	0.5	0.6	0.6	0.5
1973	0.4	0.6	0.6	0.6	0.7	0.3	0.2	0.3	0.2	0.4	0.3	0.7	0.4
1974	0.4	0.5	0.5	0.4	0.3	0.3	0.1	0.2	0.4	0.2	0.4	0.7	0.4
1975	0.6	0.3	0.5	0.3	0.2	0.4	0.2	0.1	0.2	0.4	0.4	0.9	0.4
MEAN	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 18

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.9	2.1	2.4	2.6	1.0	1.3	1.1	1.1	2.4	1.6	2.1	2.5
1957	2.3	1.4	2.6	2.2	1.2	1.1	0.6	0.8	0.8	1.8	2.3	2.6
1958	2.9	3.2	3.4	2.1	1.3	1.0	0.9	1.2	0.9	2.2	1.7	1.9
1959	2.1	1.7	3.4	1.9	0.6	0.8	1.6	1.0	0.7	3.5	2.3	2.9
1960	1.6	3.4	2.4	1.6	1.3	1.4	1.0	0.8	2.4	2.0	2.0	2.4
1961	2.6	2.6	2.9	2.0	2.7	0.8	0.7	0.6	2.7	2.4	2.2	1.7
1962	2.2	2.5	2.8	2.3	1.1	0.6	0.8	1.4	2.3	2.6	2.5	3.6
1963	2.3	1.9	2.2	1.3	2.1	0.8	0.6	1.7	2.1	1.7	3.5	2.3
1964	2.7	2.3	1.7	1.3	0.7	0.6	0.8	2.0	1.6	1.2	2.7	1.9
1965	2.5	3.5	1.4	1.7	1.2	1.3	0.6	0.7	1.0	1.9	1.7	2.3
1966	3.0	2.2	2.2	1.0	1.4	1.1	1.1	0.7	2.0	1.7	2.7	3.0
1967	3.3	2.5	1.9	2.2	2.2	1.7	0.6	1.1	1.5	1.1	1.6	2.7
1968	2.2	2.1	2.9	2.3	2.0	2.1	0.8	0.8	1.3	1.6	3.3	2.4
1969	2.2	3.3	2.8	2.6	1.6	0.9	1.4	0.8	1.0	1.2	2.4	3.9
1970	1.0	2.8	2.3	2.0	1.5	1.2	0.8	1.4	0.8	2.0	2.0	3.3
1971	1.9	2.3	3.4	2.5	1.4	0.9	0.8	1.5	1.1	2.4	2.7	2.4
1972	1.0	3.9	2.5	1.3	1.9	2.6	1.1	1.0	3.0	2.3	2.9	3.1
1973	2.8	2.4	2.0	3.3	1.6	1.6	1.0	0.9	0.9	3.4	1.9	3.6
1974	2.1	2.4	2.7	1.9	2.4	1.6	0.5	0.9	1.5	0.8	2.2	3.1
1975	2.6	2.2	2.9	3.0	1.4	1.8	1.0	1.0	1.3	2.0	2.1	3.8

LARGEST HS(METRES) FOR STATION 18 = 3.9

STATION 19 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 19 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	395	.	.	.	.	.	395
0.50 - 0.99	.	.	.	.	13	.	.	.	.	.	13
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	408	0	0	0	0	0	

AVERAGE HS(M) = 0.18 LARGEST HS(M) = 0.82 ANGLE CLASS % = 0.4

STATION 19 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3824	6139	3567	1618	4868	7053	5225	54	71	446	32865
0.50 - 0.99	.	154	1158	693	467	3906	2580	97	112	142	9109
1.00 - 1.49	.	.	22	258	337	924	710	419	82	51	2803
1.50 - 1.99	.	.	.	1	140	408	246	90	25	3	913
2.00 - 2.49	.	.	.	.	25	100	155	22	8	3	313
2.50 - 2.99	.	.	.	.	.	6	37	25	8	.	76
3.00 - 3.49	.	.	.	.	.	.	3	27	1	1	32
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3824	6293	4747	2570	5837	12397	8756	734	307	647	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 3.80 ANGLE CLASS % = 46.1

STATION 19 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	920	821	997	90	1059	650	169	10	107	621	4357
0.50 - 0.99	.	509	118	581	54	633	116	23	13	242	2677
1.00 - 1.49	.	.	.	34	133	354	150	17	6	65	1424
1.50 - 1.99	.	.	.	.	282	290	140	8	.	29	763
2.00 - 2.49	.	.	.	.	71	366	155	17	1	11	621
2.50 - 2.99	.	.	.	.	.	82	145	44	1	6	278
3.00 - 3.49	.	.	.	.	.	1	30	59	18	.	108
3.50 - 3.99	.	.	.	.	.	.	.	6	20	.	26
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	920	1330	1115	705	1599	2376	905	184	166	974	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.94 ANGLE CLASS % = 10.3

STATION 19 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1132	1454	566	581	992	766	39	1	.	.	5531
0.50 - 0.99	.	159	1028	893	148	424	65	.	.	.	2717
1.00 - 1.49	.	.	34	378	234	213	77	.	.	.	936
1.50 - 1.99	.	.	.	11	142	222	77	.	.	.	452
2.00 - 2.49	.	.	.	.	11	70	65	6	.	.	152
2.50 - 2.99	.	.	.	.	3	18	10	.	.	.	31
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1132	1613	1628	1863	1530	1713	334	7	0	0	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.26 ANGLE CLASS % = 9.8

STATION 19 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

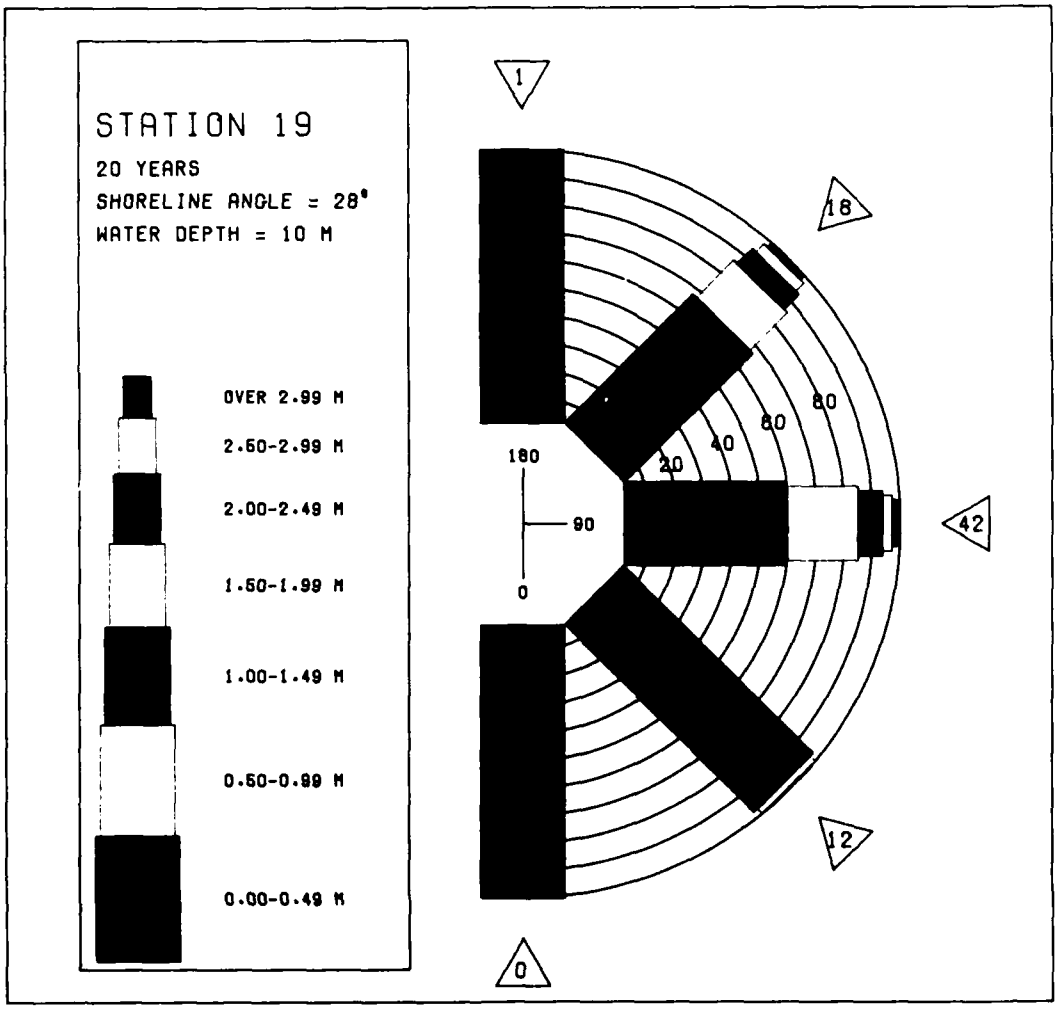
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	947	1331	1509	2161	385	.	.	.	.	.	6333
0.50 - 0.99	.	.	1	.	.	.	.	.	.	.	1
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	947	1331	1510	2161	385	0	0	0	0	0	

AVERAGE HS(M) = 0.08 LARGEST HS(M) = 0.52 ANGLE CLASS % = 6.3

STATION 19 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	682	974	564	436	770	847	543	6	17	106	4945
0.50 - 0.99	.	82	318	167	68	496	256	12	12	38	1449
1.00 - 1.49	.	.	17	121	70	149	93	43	8	11	512
1.50 - 1.99	.	.	.	4	56	92	46	9	2	3	212
2.00 - 2.49	.	.	.	.	10	53	37	4	1	1	106
2.50 - 2.99	.	.	.	.	.	10	19	7	1	.	37
3.00 - 3.49	.	.	.	.	.	.	3	8	2	.	13
3.50 - 3.99	.	.	.	.	.	.	.	.	2	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	682	1056	899	728	974	1647	997	89	45	159	

AVE HS(M) = 0.34 LARGEST HS(M) = 3.94 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 19

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	0.5	0.5	0.6	0.1	0.1	0.2	0.1	0.2	0.4	0.4	0.5	0.4
1957	0.3	0.2	0.6	0.3	0.1	0.1	0.1	0.2	0.1	0.4	0.5	0.5	0.3
1958	0.9	0.4	0.9	0.7	0.3	0.6	0.2	0.2	0.1	0.5	0.3	0.3	0.4
1959	0.2	0.3	0.4	0.4	0.0	0.2	0.1	0.2	0.1	0.7	1.2	0.5	0.4
1960	0.2	0.6	0.3	0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.3
1961	0.4	0.3	0.5	0.4	0.3	0.1	0.1	0.1	0.6	0.8	0.3	0.3	0.4
1962	0.3	0.6	0.5	0.4	0.2	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.3
1963	0.3	0.2	0.5	0.2	0.5	0.1	0.1	0.1	0.6	0.2	0.6	0.2	0.3
1964	0.4	0.4	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.2	0.3	0.4	0.3
1965	0.4	0.3	0.2	0.4	0.1	0.3	0.2	0.1	0.2	0.1	0.3	0.3	0.2
1966	0.5	0.2	0.3	0.1	0.2	0.3	0.1	0.1	0.5	0.1	1.0	0.4	0.3
1967	0.3	0.4	0.4	0.4	0.4	0.2	0.1	0.1	0.2	0.2	0.2	0.5	0.3
1968	0.4	0.3	0.5	0.3	0.3	0.5	0.5	0.4	0.3	0.2	0.5	0.3	0.4
1969	0.4	1.1	0.5	0.4	0.3	0.2	0.6	0.2	0.3	0.2	0.8	0.8	0.5
1970	0.1	0.5	0.3	0.3	0.5	0.4	0.2	0.5	0.1	0.4	0.5	0.6	0.4
1971	0.2	0.6	0.3	0.2	0.3	0.3	0.1	0.1	0.2	0.4	0.4	0.3	0.3
1972	0.2	0.9	0.8	0.2	0.6	0.6	0.3	0.2	0.5	0.5	0.6	0.6	0.5
1973	0.3	0.6	0.6	0.6	0.7	0.3	0.2	0.3	0.1	0.4	0.2	0.6	0.4
1974	0.3	0.4	0.4	0.4	0.2	0.3	0.1	0.1	0.4	0.1	0.4	0.6	0.3
1975	0.5	0.3	0.5	0.3	0.1	0.3	0.1	0.1	0.1	0.3	0.3	0.9	0.3
MEAN	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 19

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.9	2.1	2.4	2.6	0.8	1.2	1.0	0.9	2.4	1.5	2.1	2.6
1957	2.3	1.1	2.5	2.0	1.2	0.8	0.4	0.8	0.7	1.8	2.2	2.5
1958	2.9	3.2	3.4	2.1	1.2	0.9	0.8	1.1	0.8	2.2	1.6	1.9
1959	2.1	1.5	3.4	1.7	0.5	0.7	1.6	0.9	0.7	3.4	2.3	2.8
1960	1.6	3.3	2.5	1.4	1.3	1.3	0.9	0.8	2.3	2.0	1.9	2.4
1961	2.5	2.7	2.9	1.8	2.7	0.6	0.7	0.5	2.7	2.3	2.1	1.4
1962	2.0	2.5	2.8	2.4	0.9	0.6	0.6	1.3	2.3	2.6	2.5	3.6
1963	2.1	1.7	2.2	1.1	1.9	0.7	0.4	1.3	2.0	1.6	3.4	2.0
1964	2.7	2.2	1.7	1.1	0.7	0.4	0.8	1.7	1.6	1.2	2.6	1.7
1965	2.5	3.3	1.4	1.6	1.1	1.2	0.5	0.7	0.9	1.9	1.7	2.3
1966	2.8	2.1	2.2	1.0	1.4	1.0	1.1	0.6	1.8	1.5	2.7	3.2
1967	3.2	2.5	1.9	2.1	2.3	1.7	0.5	1.1	1.5	0.8	1.5	2.6
1968	2.1	2.1	3.0	2.3	1.8	1.9	0.8	0.8	1.1	1.6	3.3	2.3
1969	2.1	3.3	2.7	2.6	1.5	0.9	1.2	0.7	1.0	1.0	2.4	3.9
1970	0.8	2.8	2.2	1.8	1.5	1.0	0.7	1.4	0.7	2.0	2.0	3.3
1971	1.7	2.3	3.4	2.5	1.3	0.9	0.5	1.5	1.1	2.5	2.9	2.4
1972	0.8	3.8	2.5	1.3	1.8	2.6	1.1	0.9	3.0	2.3	3.0	3.1
1973	2.9	2.4	1.8	3.3	1.4	1.5	0.9	0.8	0.9	3.4	1.6	3.4
1974	1.8	2.2	2.8	2.0	2.0	1.6	0.5	0.9	1.1	0.7	2.1	3.0
1975	2.5	2.0	2.9	2.8	1.3	1.7	0.9	0.9	1.3	2.0	2.2	3.8

LARGEST HS(METRES) FOR STATION 19 = 3.9

STATION 20 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 359.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 20 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 359.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3949	6341	3660	1634	4911	7210	5196	5	8	.	32914
0.50 - 0.99	.	184	1242	752	432	3336	1916	5	.	.	7867
1.00 - 1.49	.	.	18	231	337	689	508	10	1	.	1794
1.50 - 1.99	.	.	.	1	104	278	165	13	.	.	561
2.00 - 2.49	.	.	.	.	17	32	46	6	.	.	101
2.50 - 2.99	.	.	.	.	.	1	8	5	.	.	14
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3949	6525	4920	2618	5801	11546	7840	44	9	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 3.12 ANGLE CLASS % = 43.3

STATION 20 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 359.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	674	561	.	.	1237	663	299	78	177	1052	4741
0.50 - 0.99	.	378	744	59	66	641	306	160	123	381	2858
1.00 - 1.49	.	.	90	446	92	335	136	390	82	78	1649
1.50 - 1.99	.	.	.	32	203	236	124	53	20	37	705
2.00 - 2.49	.	.	.	.	56	282	138	20	13	13	522
2.50 - 2.99	.	.	.	.	.	56	100	39	1	8	204
3.00 - 3.49	.	.	.	.	.	1	23	54	8	1	87
3.50 - 3.99	.	.	.	.	.	.	.	1	10	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	674	939	834	537	1654	2214	1126	795	434	1570	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 3.94 ANGLE CLASS % = 10.8

STATION 20 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 359.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	968	954	23		609	735	44				3413
0.50 - 0.99	.	374	1225	321	29	535	106	1	.	.	2591
1.00 - 1.49	.	.	90	694	215	350	170	1	.	.	1520
1.50 - 1.99	.	.	.	66	278	385	128	8	.	.	865
2.00 - 2.49	.	.	.	.	78	255	140	9	.	.	482
2.50 - 2.99	.	.	.	.	5	102	176	9	1	.	293
3.00 - 3.49	.	.	.	.	.	5	154	23	1	.	183
3.50 - 3.99	.	.	.	.	.	.	30	27	6	.	63
4.00 - 4.49	.	.	.	.	.	.	1	15	11	.	27
4.50 - 4.99	.	.	.	.	.	.	.	.	5	.	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	968	1328	1338	1081	1292	2328	785	81	23	0	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 4.29 ANGLE CLASS % = 9.2

STATION 20 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 359.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1608	2395	2263	3415	1033	32	1	.	.	.	10747
0.50 - 0.99	.	8	340	807	198	22	.	.	.	.	1375
1.00 - 1.49	.	.	1	70	66	27	.	.	.	.	164
1.50 - 1.99	.	.	.	.	25	10	.	.	.	.	35
2.00 - 2.49	.	.	.	.	3	.	.	.	.	.	3
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1608	2403	2604	4292	1325	91	1	0	0	0	

AVERAGE HS(M) = 0.22 LARGEST HS(M) = 2.13 ANGLE CLASS % = 12.3

STATION 20 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 359.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

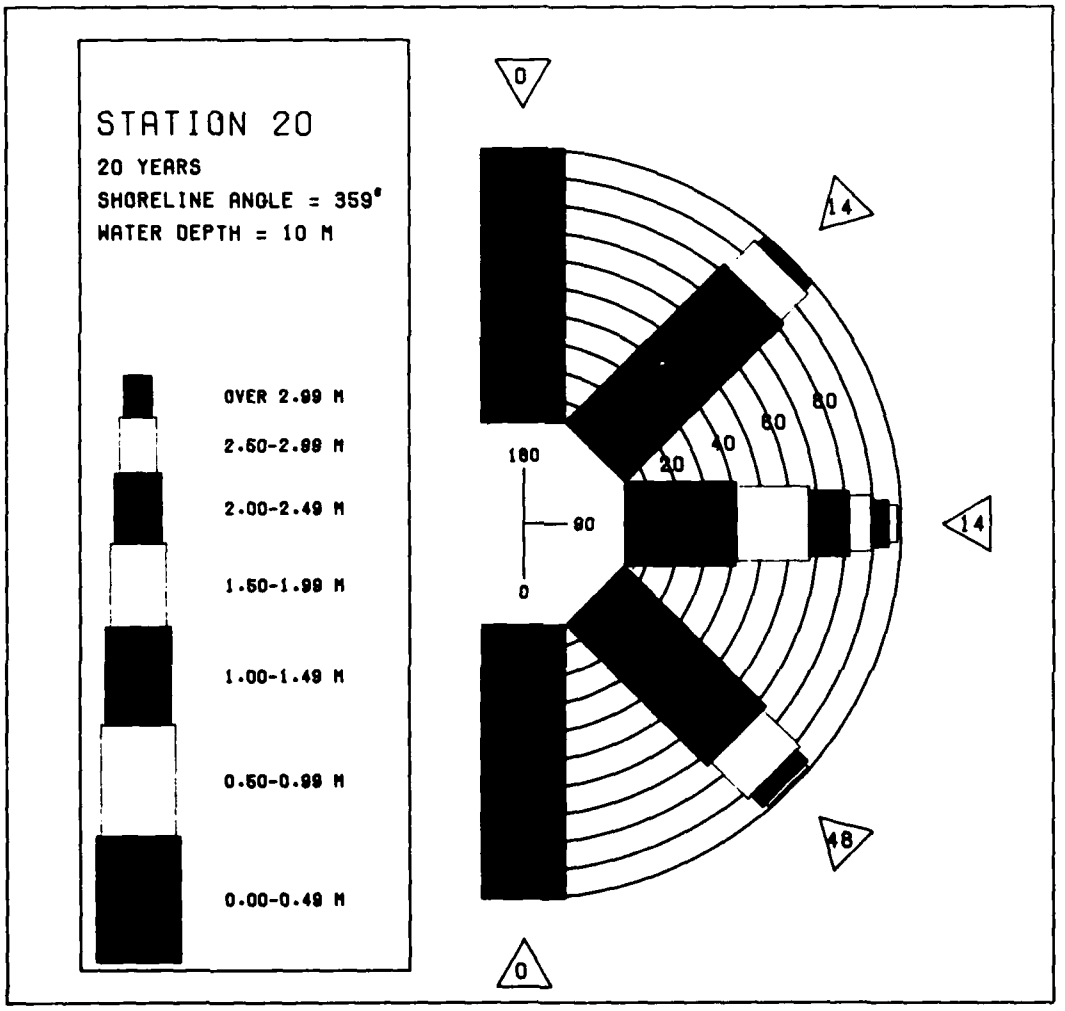
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 20 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 359.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	720	1025	594	504	787	864	554	8	18	105	5179
0.50 - 0.99	.	94	355	194	72	453	232	16	12	38	1466
1.00 - 1.49	.	.	20	144	71	140	82	40	8	7	512
1.50 - 1.99	.	.	.	10	61	60	41	7	2	3	204
2.00 - 2.49	.	.	.	.	15	63	36	3	1	1	119
2.50 - 2.99	.	.	.	.	.	16	23	6	.	.	45
3.00 - 3.49	.	.	.	.	.	.	5	8	1	.	14
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	720	1119	969	852	1006	1616	973	89	44	154	

AVE HS(M) = 0.35 LARGEST HS(M) = 4.29 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 20

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	0.5	0.5	0.5	0.2	0.1	0.2	0.1	0.2	0.4	0.4	0.5	0.4
1957	0.3	0.2	0.6	0.3	0.1	0.1	0.1	0.2	0.1	0.4	0.5	0.6	0.3
1958	0.9	0.4	0.9	0.7	0.3	0.5	0.2	0.2	0.1	0.5	0.3	0.3	0.4
1959	0.2	0.3	0.4	0.4	0.1	0.2	0.1	0.2	0.1	0.7	1.1	0.5	0.4
1960	0.2	0.6	0.4	0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.3	0.3	0.3
1961	0.4	0.3	0.5	0.4	0.3	0.1	0.1	0.1	0.6	0.8	0.4	0.3	0.4
1962	0.3	0.7	0.6	0.4	0.2	0.1	0.1	0.2	0.3	0.4	0.6	0.5	0.4
1963	0.3	0.2	0.5	0.2	0.5	0.1	0.1	0.1	0.6	0.2	0.6	0.2	0.3
1964	0.4	0.4	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.2	0.3	0.4	0.3
1965	0.4	0.3	0.3	0.4	0.1	0.3	0.2	0.1	0.2	0.1	0.3	0.3	0.3
1966	0.5	0.2	0.3	0.2	0.2	0.3	0.1	0.1	0.5	0.1	0.9	0.5	0.3
1967	0.3	0.4	0.4	0.5	0.4	0.2	0.1	0.1	0.2	0.2	0.2	0.5	0.3
1968	0.4	0.4	0.5	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.5	0.3	0.4
1969	0.4	1.2	0.5	0.4	0.3	0.2	0.6	0.2	0.3	0.2	0.8	0.8	0.5
1970	0.1	0.5	0.3	0.3	0.5	0.4	0.2	0.5	0.1	0.4	0.5	0.6	0.4
1971	0.2	0.6	0.4	0.2	0.3	0.3	0.1	0.1	0.2	0.5	0.4	0.3	0.3
1972	0.2	0.9	0.8	0.2	0.6	0.5	0.3	0.2	0.5	0.5	0.6	0.6	0.5
1973	0.3	0.6	0.6	0.6	0.6	0.3	0.2	0.3	0.1	0.4	0.2	0.6	0.4
1974	0.3	0.4	0.5	0.4	0.2	0.3	0.1	0.1	0.4	0.1	0.4	0.6	0.3
1975	0.5	0.3	0.5	0.3	0.1	0.3	0.1	0.1	0.1	0.3	0.3	0.9	0.3
MEAN	0.4	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.3	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 20

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.3	2.1	2.8	2.7	0.7	1.2	0.9	1.1	2.5	1.6	2.1	2.6
1957	2.3	1.2	2.7	1.8	1.2	1.0	0.4	0.8	0.7	1.8	2.3	2.8
1958	3.0	3.2	3.5	2.3	1.3	0.9	0.8	1.1	0.9	2.3	1.8	2.1
1959	2.1	1.5	3.1	1.7	0.5	0.8	1.6	1.0	0.8	3.4	2.3	3.0
1960	1.6	3.2	2.8	1.3	1.3	1.3	0.9	0.9	2.2	2.2	1.8	2.7
1961	2.9	2.9	2.9	1.9	2.6	0.6	0.7	0.6	2.5	2.7	2.5	1.6
1962	1.9	2.9	3.1	2.4	0.9	0.6	0.6	1.5	2.4	2.6	2.6	3.6
1963	2.2	1.6	2.3	1.0	1.9	0.8	0.5	1.5	2.1	1.8	3.5	1.9
1964	2.9	2.2	1.8	1.0	0.7	0.4	0.8	1.6	1.7	1.3	2.5	1.6
1965	2.5	3.1	1.5	1.6	1.1	1.3	0.5	0.7	0.9	1.9	1.7	2.3
1966	2.8	2.4	2.1	1.0	1.4	1.1	1.1	0.6	1.8	1.4	2.6	3.3
1967	3.2	2.5	2.0	2.4	2.5	1.8	0.5	1.1	1.5	1.0	1.4	2.9
1968	2.1	2.0	3.1	2.3	1.9	1.9	0.8	0.8	1.1	1.6	3.3	2.3
1969	2.1	3.7	3.0	2.6	1.7	0.9	1.3	0.7	1.0	1.2	2.4	3.9
1970	0.8	2.8	2.2	1.7	1.4	1.0	0.6	1.6	0.7	2.0	2.1	3.6
1971	1.6	2.3	3.3	2.6	1.4	0.9	0.6	1.5	1.1	2.5	3.1	2.5
1972	0.8	3.9	2.7	1.3	1.7	2.6	1.0	1.0	3.2	2.3	3.2	3.2
1973	3.0	2.4	2.1	3.4	1.3	1.4	0.9	0.8	0.9	3.3	1.5	3.4
1974	1.9	2.4	2.8	2.1	1.9	1.5	0.5	0.9	1.2	0.8	2.0	3.2
1975	2.7	2.0	2.8	2.7	1.5	1.6	1.0	1.0	1.3	2.0	2.5	4.1

LARGEST HS(METRES) FOR STATION 20 = 4.3

STATION 21 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 295.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3862	5306	3216	1326	696	484	15	.	.	.	14905
0.50 - 0.99	.	102	744	501	292	191	3	.	.	.	1833
1.00 - 1.49	.	.	1	35	41	6	.	.	.	.	83
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3862	5408	3961	1862	1037	681	18	0	0	0	

AVERAGE HS(M) = 0.21 LARGEST HS(M) = 1.88 ANGLE CLASS % = 16.8

STATION 21 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 295.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1155	1084	.	.	1495	1273	249	44	106	470	5876
0.50 - 0.99	.	294	1213	296	61	805	176	25	6	.	2876
1.00 - 1.49	.	.	39	616	333	485	193	35	1	1	1703
1.50 - 1.99	.	.	.	29	195	446	220	35	1	1	927
2.00 - 2.49	.	.	.	.	46	229	188	34	8	.	505
2.50 - 2.99	.	.	.	.	3	37	61	34	10	.	145
3.00 - 3.49	.	.	.	.	.	.	3	8	3	.	14
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1155	1378	1252	941	2133	3275	1090	215	135	472	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.48 ANGLE CLASS % = 12.1

STATION 21 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 295.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2953	4394	3530	4532	1382	30	5	.	.	340	17166
0.50 - 0.99	.	46	1057	1706	330	39	25	1	.	80	3284
1.00 - 1.49	.	.	8	535	296	34	41	.	.	3	917
1.50 - 1.99	.	.	.	37	179	65	25	3	.	.	309
2.00 - 2.49	.	.	.	.	53	65	51	.	.	.	169
2.50 - 2.99	.	.	.	.	13	49	44	17	1	.	124
3.00 - 3.49	.	.	.	.	.	6	5	6	10	.	27
3.50 - 3.99	.	.	.	.	.	.	.	5	6	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2953	4440	4595	6810	2253	288	196	32	17	423	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 3.93 ANGLE CLASS % = 22.0

STATION 21 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 295.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	30	29									59
0.50 - 0.99			35	20							55
1.00 - 1.49				13	3						16
1.50 - 1.99					5						5
2.00 - 2.49					1						1
2.50 - 2.99											0
3.00 - 3.49											0
3.50 - 3.99											0
4.00 - 4.49											0
4.50 - 4.99											0
5.00 - GREATER											0
TOTAL	30	29	35	33	9	0	0	0	0	0	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 2.03 ANGLE CLASS % = 0.1

STATION 21 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 295.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49											0
0.50 - 0.99											0
1.00 - 1.49											0
1.50 - 1.99											0
2.00 - 2.49											0
2.50 - 2.99											0
3.00 - 3.49											0
3.50 - 3.99											0
4.00 - 4.49											0
4.50 - 4.99											0
5.00 - GREATER											0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 21 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 295.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

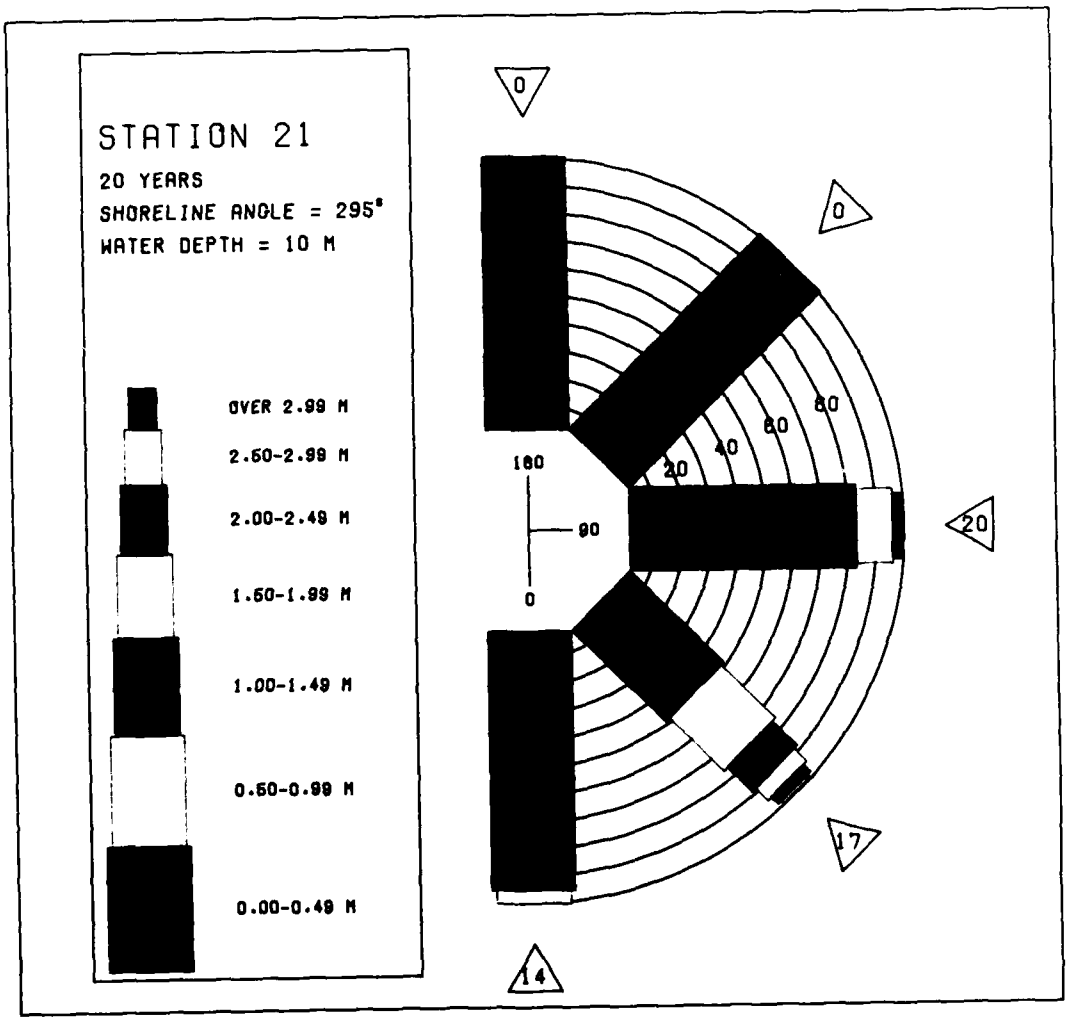
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49											0
0.50 - 0.99											0
1.00 - 1.49											0
1.50 - 1.99											0
2.00 - 2.49											0
2.50 - 2.99											0
3.00 - 3.49											0
3.50 - 3.99											0
4.00 - 4.49											0
4.50 - 4.99											0
5.00 - GREATER											0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 21 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 295.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	800	1081	674	585	357	178	27	4	10	81	3797
0.50 - 0.99	.	44	305	252	68	103	20	2	.	8	802
1.00 - 1.49	.	.	4	120	67	52	23	3	.	.	269
1.50 - 1.99	.	.	.	6	38	51	24	3	.	.	122
2.00 - 2.49	.	.	.	.	10	29	23	3	.	.	65
2.50 - 2.99	.	.	.	.	1	8	10	5	1	.	25
3.00 - 3.49	.	.	.	.	.	.	.	1	1	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	800	1125	983	963	541	421	127	21	12	89	

AVE HS(M) = 0.20 LARGEST HS(M) = 3.93 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 21

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.2	0.2	0.2	0.3	0.2
1957	0.2	0.2	0.3	0.1	0.1	0.0	0.0	0.1	0.0	0.2	0.2	0.3	0.1
1958	0.4	0.3	0.5	0.4	0.1	0.1	0.0	0.0	0.1	0.3	0.1	0.3	0.2
1959	0.1	0.2	0.3	0.2	0.0	0.1	0.0	0.1	0.1	0.2	0.2	0.4	0.2
1960	0.2	0.3	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.1	0.2	0.2
1961	0.3	0.2	0.3	0.3	0.2	0.0	0.1	0.0	0.3	0.4	0.3	0.2	0.2
1962	0.2	0.5	0.5	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.3
1963	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.3	0.2	0.3	0.2	0.2
1964	0.3	0.3	0.3	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.2
1965	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.2	0.1	0.1
1966	0.5	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.1	0.4	0.4	0.2
1967	0.2	0.3	0.4	0.5	0.3	0.1	0.0	0.1	0.2	0.1	0.1	0.4	0.2
1968	0.3	0.2	0.3	0.2	0.2	0.1	0.0	0.0	0.1	0.1	0.4	0.2	0.2
1969	0.2	0.9	0.4	0.1	0.1	0.1	0.2	0.0	0.2	0.2	0.4	0.6	0.3
1970	0.1	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.3	0.4	0.5	0.2
1971	0.2	0.3	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.3	0.3	0.3	0.2
1972	0.1	0.4	0.3	0.2	0.2	0.1	0.0	0.1	0.3	0.2	0.5	0.5	0.3
1973	0.2	0.5	0.4	0.3	0.1	0.1	0.0	0.1	0.1	0.3	0.1	0.3	0.2
1974	0.2	0.4	0.3	0.2	0.1	0.1	0.0	0.1	0.2	0.1	0.4	0.3	0.2
1975	0.4	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.5	0.2
MEAN	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.1	0.2	0.2	0.3	0.3	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 21

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.6	2.1	2.9	2.2	0.7	0.8	0.5	1.3	2.3	1.8	1.7	2.1
1957	2.3	1.1	2.3	1.1	1.3	0.3	0.4	0.5	0.6	1.3	2.0	2.8
1958	2.2	2.5	2.8	2.4	1.3	0.5	0.4	0.6	0.9	2.1	1.8	2.1
1959	1.7	1.6	2.1	1.4	0.5	0.7	1.2	1.1	1.0	1.6	2.1	2.8
1960	1.3	2.4	2.9	1.0	0.9	1.0	0.5	1.0	1.0	2.1	1.1	2.8
1961	2.8	3.0	2.2	1.8	2.5	0.3	0.4	0.5	2.1	2.6	2.1	1.7
1962	1.7	2.9	3.1	2.1	0.7	0.6	0.4	1.7	2.2	2.4	2.3	2.8
1963	1.5	1.5	2.3	0.8	1.5	0.9	0.4	0.4	1.9	1.7	2.9	1.3
1964	2.9	2.1	2.0	0.8	0.7	0.5	0.8	0.8	1.8	1.3	1.3	1.5
1965	2.2	2.3	1.3	0.8	0.7	1.0	0.4	0.3	0.9	1.0	1.5	1.4
1966	2.7	2.3	1.0	0.9	1.2	1.2	1.1	0.3	1.3	0.6	1.7	2.6
1967	2.3	2.5	1.9	2.4	2.6	1.7	0.1	0.9	1.5	1.3	1.3	2.9
1968	1.9	2.1	3.0	1.1	1.3	1.1	0.7	0.7	0.8	1.2	2.9	2.0
1969	1.5	3.4	2.9	1.3	1.8	0.6	1.2	0.3	1.1	1.4	2.3	2.9
1970	1.2	1.8	1.7	1.1	1.1	0.9	0.2	1.6	0.8	1.8	2.3	3.2
1971	1.4	2.4	2.3	2.4	1.4	0.9	0.1	1.1	1.1	2.4	2.9	2.6
1972	1.0	3.4	2.5	1.2	1.6	2.1	0.3	1.0	2.9	2.3	2.9	2.9
1973	2.4	2.2	2.2	2.7	1.2	1.4	0.6	0.8	0.9	2.4	0.8	2.6
1974	1.2	2.0	2.3	2.1	0.9	0.9	0.2	0.8	1.4	0.8	2.2	2.5
1975	2.4	2.0	2.4	2.0	1.6	1.2	1.0	1.1	1.2	2.0	2.5	3.9

LARGEST HS(METRES) FOR STATION 21 = 3.9

STATION 22 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 22 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 22 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	506	174	18	.	.	.	698
0.50 - 0.99	.	.	.	.	6	138	61	10	34	.	249
1.00 - 1.49	.	.	.	.	.	13	46	5	1	.	65
1.50 - 1.99	.	.	.	.	.	.	6	.	3	1	10
2.00 - 2.49	.	.	.	.	.	.	1	5	.	.	6
2.50 - 2.99	.	.	.	.	.	.	.	1	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	512	325	132	21	38	1	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 2.62 ANGLE CLASS % = 1.0

STATION 22 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3555	5612	2893	1459	3607	716	241	44	56	773	18956
0.50 - 0.99	.	205	1449	966	212	970	189	11	78	561	4641
1.00 - 1.49	.	.	17	369	319	497	169	11	88	225	1695
1.50 - 1.99	.	.	.	10	167	405	172	23	11	29	817
2.00 - 2.49	.	.	.	.	30	203	154	23	10	3	423
2.50 - 2.99	.	.	.	.	1	11	85	51	10	1	159
3.00 - 3.49	.	.	.	.	.	.	6	34	10	5	55
3.50 - 3.99	.	.	.	.	.	.	1	1	8	1	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3555	5817	4359	2804	4336	2802	1017	198	271	1598	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 3.72 ANGLE CLASS % = 26.8

STATION 22 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	888	1007	6	.	3795	3843	605	131	.	.	10275
0.50 - 0.99	.	352	1285	374	244	1469	316	15	.	.	4055
1.00 - 1.49	.	.	65	550	381	588	222	46	3	.	1855
1.50 - 1.99	.	.	.	10	200	472	164	65	18	.	929
2.00 - 2.49	.	.	.	.	42	171	92	41	10	.	356
2.50 - 2.99	.	.	.	.	5	8	13	11	17	1	55
3.00 - 3.49	.	.	.	.	.	.	.	1	5	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	888	1359	1356	934	4667	6551	1412	310	53	1	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.45 ANGLE CLASS % = 17.5

STATION 22 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

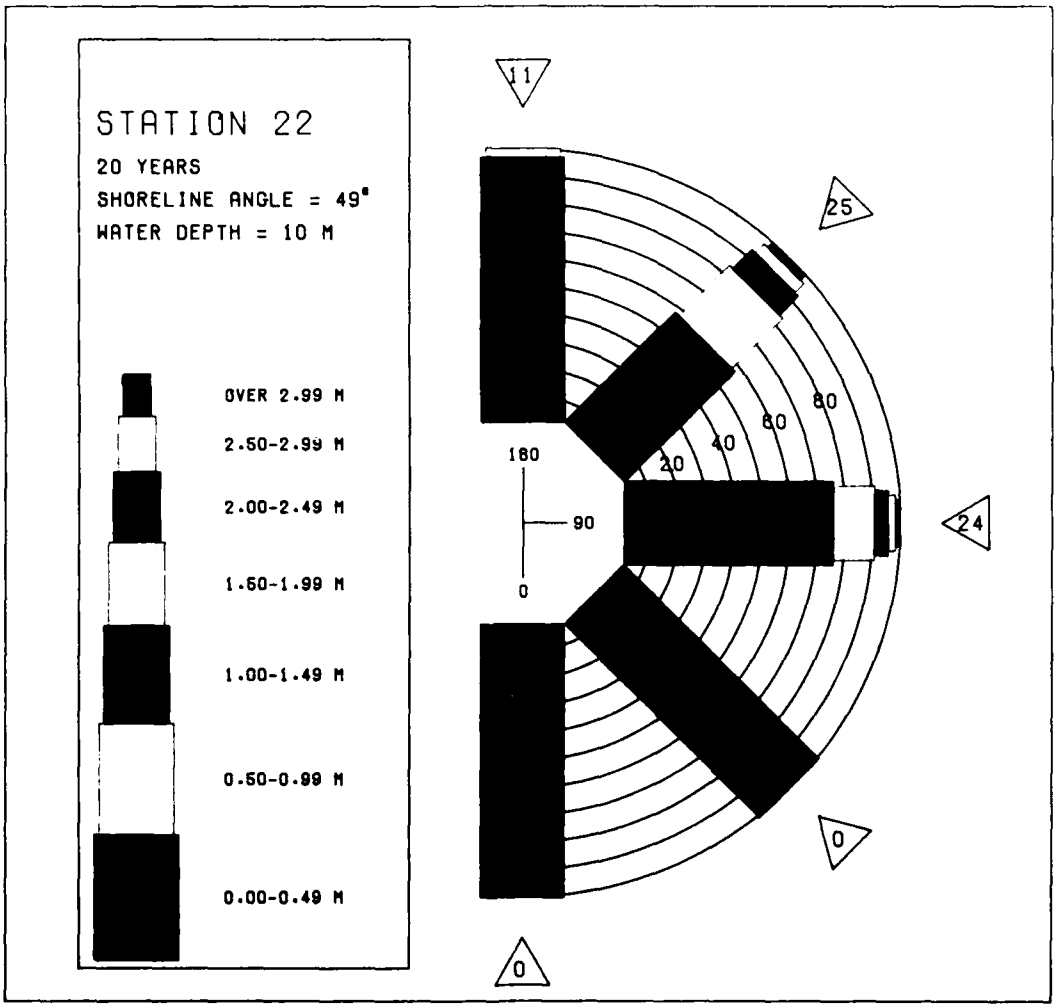
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1899	2908	2662	2041	1543	1493	.	.	.	.	12546
0.50 - 0.99	.	39	574	420	241	164	.	.	.	.	1438
1.00 - 1.49	.	.	3	10	23	.	.	.	.	.	36
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1899	2947	3239	2471	1807	1657	0	0	0	0	

AVERAGE HS(M) = 0.21 LARGEST HS(M) = 1.35 ANGLE CLASS % = 14.0

STATION 22 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	634	952	556	350	945	622	86	17	5	77	4244
0.50 - 0.99	.	59	330	176	70	274	55	3	11	56	1035
1.00 - 1.49	.	.	8	93	72	110	43	6	9	22	363
1.50 - 1.99	.	.	.	2	36	87	34	8	3	3	173
2.00 - 2.49	.	.	.	.	7	37	24	7	2	.	77
2.50 - 2.99	.	.	.	.	.	2	9	6	2	.	19
3.00 - 3.49	.	.	.	.	.	.	.	3	1	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	634	1011	894	621	1130	1132	252	50	33	158	

AVE HS(M) = 0.25 LARGEST HS(M) = 3.72 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 22

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	0.9	0.6	0.5	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.4	0.4
1957	0.2	0.2	0.4	0.2	0.1	0.1	0.0	0.1	0.1	0.3	0.3	0.4	0.2
1958	0.6	0.3	0.6	0.6	0.2	0.1	0.1	0.1	0.1	0.4	0.2	0.2	0.3
1959	0.1	0.1	0.4	0.3	0.0	0.1	0.1	0.2	0.1	0.5	0.3	0.4	0.2
1960	0.2	0.5	0.4	0.2	0.2	0.2	0.1	0.1	0.3	0.4	0.2	0.2	0.2
1961	0.3	0.3	0.4	0.3	0.3	0.1	0.1	0.1	0.4	0.4	0.3	0.2	0.3
1962	0.3	0.5	0.5	0.3	0.2	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.3
1963	0.3	0.2	0.4	0.1	0.3	0.1	0.1	0.1	0.4	0.2	0.2	0.2	0.2
1964	0.4	0.3	0.3	0.2	0.1	0.0	0.1	0.1	0.3	0.2	0.3	0.3	0.2
1965	0.4	0.3	0.2	0.3	0.1	0.1	0.0	0.0	0.2	0.1	0.2	0.2	0.2
1966	0.4	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.3	0.1	0.5	0.3	0.2
1967	0.2	0.3	0.3	0.4	0.3	0.2	0.0	0.1	0.2	0.1	0.3	0.4	0.2
1968	0.3	0.2	0.4	0.3	0.2	0.3	0.1	0.0	0.2	0.2	0.4	0.3	0.2
1969	0.3	1.0	0.4	0.2	0.2	0.1	0.3	0.0	0.3	0.2	0.6	0.6	0.3
1970	0.1	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.3	0.5	0.4	0.2
1971	0.1	0.4	0.3	0.1	0.2	0.0	0.0	0.1	0.2	0.4	0.3	0.3	0.2
1972	0.1	0.6	0.5	0.2	0.3	0.3	0.0	0.1	0.4	0.3	0.4	0.5	0.3
1973	0.2	0.4	0.5	0.5	0.2	0.2	0.1	0.1	0.1	0.3	0.1	0.5	0.3
1974	0.2	0.4	0.4	0.2	0.2	0.2	0.0	0.1	0.2	0.1	0.4	0.5	0.2
1975	0.4	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.6	0.2
MEAN	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 22

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.3	2.2	2.2	2.7	0.7	1.1	0.8	1.1	2.2	1.9	2.0	2.1
1957	1.7	1.3	2.2	2.2	1.2	0.8	0.3	0.9	0.5	1.8	1.8	2.4
1958	2.6	3.3	3.3	1.9	1.3	0.7	0.6	1.0	0.9	2.1	1.8	2.1
1959	1.6	1.3	3.6	1.9	0.5	0.8	1.6	1.0	0.9	3.0	1.8	2.3
1960	1.5	2.8	2.3	1.3	1.3	1.2	1.1	0.9	2.2	1.8	2.0	2.3
1961	2.4	2.5	3.1	1.7	2.5	0.5	0.6	0.6	2.3	1.9	2.2	1.4
1962	1.7	2.6	2.8	2.2	0.8	0.7	0.8	1.4	2.1	2.5	2.5	3.3
1963	2.2	1.4	2.2	1.1	1.8	0.7	0.5	1.2	2.1	2.1	3.0	1.8
1964	2.4	2.2	1.4	1.5	1.0	0.4	0.9	1.3	1.8	1.2	2.5	1.3
1965	2.2	3.1	1.3	1.0	0.8	1.7	0.5	0.5	1.0	2.3	1.5	2.0
1966	2.7	2.1	1.4	1.4	0.9	1.1	0.8	0.5	2.2	0.9	2.3	2.1
1967	3.0	2.5	1.9	1.9	2.3	1.6	0.4	1.1	1.5	0.8	1.3	2.4
1968	2.3	2.1	2.5	1.9	2.0	1.8	0.4	0.7	1.0	1.5	3.6	2.0
1969	1.9	2.4	2.2	2.0	1.5	0.7	1.1	0.4	1.2	1.0	2.3	3.7
1970	0.7	2.6	2.3	1.7	1.2	0.9	0.5	1.6	0.6	2.3	2.1	2.8
1971	1.1	2.4	3.2	2.4	1.3	0.7	0.4	1.1	1.0	2.0	2.6	2.3
1972	0.8	3.7	2.4	1.3	1.8	2.5	0.5	1.0	2.2	2.3	2.7	2.6
1973	2.6	1.8	1.8	3.0	1.3	1.4	0.8	1.0	0.9	2.9	1.0	3.5
1974	2.2	1.8	2.7	2.1	1.7	1.1	0.4	0.8	1.0	0.8	2.0	2.8
1975	2.4	2.2	2.5	2.5	1.2	1.4	1.2	0.9	1.3	1.7	1.8	3.1

LARGEST HS(METRES) FOR STATION 22 = 3.7

STATION 23 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 23 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 23 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	429	35	.	.	.	.	464
0.50 - 0.99	.	.	.	.	35	145	3	.	.	.	183
1.00 - 1.49	.	.	.	.	1	94	13	.	.	.	108
1.50 - 1.99	.	.	.	.	.	27	22	.	.	.	49
2.00 - 2.49	.	.	.	.	.	1	17	.	.	.	18
2.50 - 2.99	.	.	.	.	.	.	5	.	.	.	5
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	465	302	61	0	0	0	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.17 ANGLE CLASS % = 0.8

STATION 23 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3143	4739	2286	1309	3769	3309	658	148	51	728	20140
0.50 - 0.99	.	159	1338	831	273	1074	321	20	68	533	4617
1.00 - 1.49	.	.	11	350	342	385	112	3	94	309	1606
1.50 - 1.99	.	.	.	8	165	361	90	17	15	68	724
2.00 - 2.49	.	.	.	.	34	236	147	37	3	13	470
2.50 - 2.99	.	.	.	.	.	23	87	41	8	1	160
3.00 - 3.49	.	.	.	.	.	.	3	32	30	1	66
3.50 - 3.99	.	.	.	.	.	.	.	1	6	5	12
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3143	4898	3635	2498	4583	5388	1418	299	275	1658	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 3.86 ANGLE CLASS % = 27.8

STATION 23 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	824	958	10	.	1622	910	121	6	.	.	4451
0.50 - 0.99	.	313	1309	354	205	1069	174	11	.	.	3435
1.00 - 1.49	.	.	56	518	414	561	188	20	.	.	1757
1.50 - 1.99	.	.	.	20	215	544	203	49	.	.	1031
2.00 - 2.49	.	.	.	.	37	169	111	58	17	.	392
2.50 - 2.99	.	.	.	.	6	13	15	23	10	.	67
3.00 - 3.49	.	.	.	.	.	.	.	3	5	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	824	1271	1375	892	2499	3266	812	170	32	0	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.25 ANGLE CLASS % = 11.2

STATION 23 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

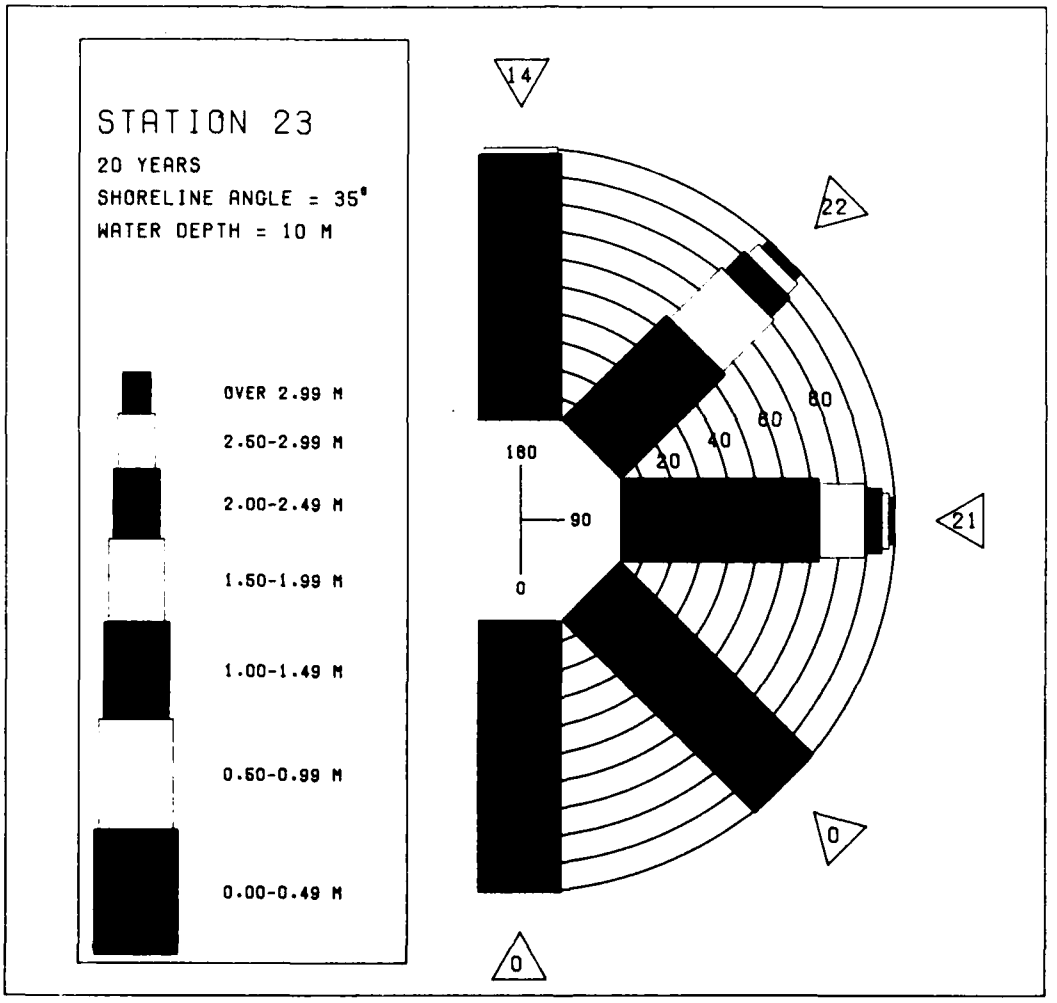
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2161	3345	3256	3429	2015	1148	.	.	.	.	15354
0.50 - 0.99	.	41	561	491	285	217	.	.	.	.	1595
1.00 - 1.49	.	.	1	11	27	.	.	.	.	.	39
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2161	3386	3818	3931	2330	1365	0	0	0	0	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 1.70 ANGLE CLASS % = 17.0

STATION 23 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	612	904	555	473	783	540	78	15	5	72	4037
0.50 - 0.99	.	51	320	167	80	250	49	3	6	53	979
1.00 - 1.49	.	.	7	88	78	104	31	2	9	30	349
1.50 - 1.99	.	.	.	2	38	93	31	6	1	6	177
2.00 - 2.49	.	.	.	.	7	40	27	9	2	1	86
2.50 - 2.99	.	.	.	.	.	3	10	6	1	.	20
3.00 - 3.49	.	.	.	.	.	.	.	3	3	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	612	955	882	730	986	1030	226	44	27	162	

AVE HS(M) = 0.25 LARGEST HS(M) = 3.86 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 23

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	1.0	0.7	0.5	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.4	0.4
1957	0.2	0.2	0.4	0.1	0.1	0.0	0.0	0.1	0.0	0.3	0.2	0.3	0.2
1958	0.6	0.3	0.7	0.5	0.2	0.1	0.0	0.1	0.1	0.4	0.2	0.3	0.3
1959	0.1	0.1	0.3	0.3	0.0	0.1	0.0	0.2	0.1	0.5	0.3	0.4	0.2
1960	0.2	0.3	0.4	0.1	0.2	0.2	0.1	0.1	0.2	0.4	0.2	0.2	0.2
1961	0.3	0.2	0.4	0.3	0.2	0.0	0.1	0.1	0.4	0.5	0.3	0.2	0.3
1962	0.2	0.6	0.6	0.2	0.2	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.3
1963	0.3	0.2	0.3	0.1	0.2	0.1	0.0	0.0	0.4	0.3	0.8	0.2	0.2
1964	0.3	0.3	0.3	0.2	0.1	0.0	0.1	0.1	0.3	0.2	0.2	0.3	0.2
1965	0.4	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.1	0.2	0.2	0.2
1966	0.4	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.3	0.1	0.5	0.4	0.2
1967	0.2	0.3	0.4	0.5	0.3	0.3	0.0	0.1	0.3	0.1	0.3	0.4	0.3
1968	0.3	0.2	0.3	0.4	0.2	0.2	0.1	0.0	0.2	0.2	0.4	0.2	0.2
1969	0.3	1.2	0.5	0.2	0.2	0.1	0.2	0.0	0.2	0.2	0.6	0.6	0.4
1970	0.1	0.3	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.3	0.5	0.5	0.2
1971	0.1	0.4	0.3	0.1	0.2	0.0	0.0	0.1	0.2	0.4	0.3	0.3	0.2
1972	0.1	0.5	0.4	0.2	0.3	0.2	0.0	0.1	0.4	0.3	0.5	0.5	0.3
1973	0.1	0.5	0.5	0.5	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.4	0.3
1974	0.2	0.4	0.3	0.2	0.2	0.2	0.0	0.1	0.2	0.1	0.4	0.4	0.2
1975	0.5	0.3	0.3	0.3	0.1	0.1	0.2	0.1	0.2	0.3	0.2	0.5	0.2
MEAN	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.3	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 23

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.9	2.3	2.5	2.5	0.7	1.0	0.6	1.3	2.6	2.0	1.9	2.3
1957	2.0	1.5	2.3	1.3	1.4	0.5	0.4	0.8	0.5	1.9	2.0	2.3
1958	2.7	3.0	3.3	2.4	1.5	0.7	0.5	0.8	0.9	2.3	1.9	2.4
1959	1.2	1.5	2.6	1.6	0.6	0.8	1.6	1.1	0.8	2.7	1.8	2.5
1960	1.4	2.6	2.7	1.1	1.2	1.3	0.8	1.0	1.9	2.1	1.8	2.5
1961	2.6	2.8	3.2	1.9	2.3	0.4	0.6	0.6	2.4	2.2	2.2	1.4
1962	1.6	2.4	3.1	2.2	0.8	0.6	0.7	1.7	2.3	2.4	2.5	3.3
1963	1.8	1.4	2.0	0.9	1.7	0.8	0.5	0.8	2.1	2.3	3.1	1.5
1964	2.4	2.2	1.7	1.6	0.9	0.5	0.9	0.7	1.8	1.2	2.1	1.5
1965	2.2	2.6	1.4	0.8	0.8	2.0	0.4	0.4	1.1	2.1	1.6	2.0
1966	2.8	2.3	1.2	1.2	1.1	1.0	0.5	0.4	2.3	0.8	2.3	2.3
1967	2.8	2.5	2.1	2.1	2.3	1.8	0.3	1.1	1.7	1.2	1.2	2.5
1968	2.2	2.4	2.9	1.9	1.7	1.7	0.5	0.6	1.0	1.5	3.2	1.9
1969	1.8	2.6	2.3	2.0	1.7	0.8	1.2	0.2	1.1	1.2	2.2	3.7
1970	0.9	2.4	2.2	1.4	0.9	0.8	0.3	1.7	0.7	2.1	2.0	3.0
1971	1.3	2.4	3.0	2.1	1.4	0.8	0.2	1.1	1.2	2.1	2.6	2.4
1972	0.8	3.9	2.5	1.1	1.9	2.4	0.6	1.0	2.5	2.3	2.7	2.9
1973	2.5	2.0	2.1	3.1	1.3	1.3	0.6	1.0	1.1	2.9	0.9	3.1
1974	1.8	2.1	2.8	2.1	1.4	0.9	0.3	0.8	1.2	0.8	2.1	2.8
1975	2.7	2.3	2.3	2.2	1.4	1.1	1.5	1.1	1.3	1.8	2.2	3.5

LARGEST HS(METRES) FOR STATION 23 = 3.9

STATION 24 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 24 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2737	4447	2623	1550	1416	249	225	1	.	.	13248
0.50 - 0.99	.	25	706	545	263	217	66	3	.	.	1825
1.00 - 1.49	.	.	1	53	140	212	25	3	.	.	434
1.50 - 1.99	.	.	.	.	20	41	6	.	.	.	67
2.00 - 2.49	.	.	.	.	5	1	.	.	.	.	6
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2737	4472	3330	2148	1844	720	322	7	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 2.38 ANGLE CLASS % = 15.6

STATION 24 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	804	946	.	.	3405	3393	441	147	49	691	9876
0.50 - 0.99	.	277	1107	208	164	1362	263	23	56	506	3966
1.00 - 1.49	.	.	49	509	232	390	116	.	94	333	1723
1.50 - 1.99	.	.	.	20	244	388	99	27	22	118	918
2.00 - 2.49	.	.	.	.	56	331	165	29	5	23	609
2.50 - 2.99	.	.	.	.	6	70	97	29	8	6	216
3.00 - 3.49	.	.	.	.	.	.	17	30	13	1	61
3.50 - 3.99	.	.	.	.	.	.	.	3	10	.	13
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	804	1223	1156	737	4107	5934	1198	288	258	1679	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 4.19 ANGLE CLASS % = 17.4

STATION 24 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2376	3708	3228	3396	2323	1185	59	5	.	.	16280
0.50 - 0.99	.	126	1254	797	431	884	87	1	.	.	3580
1.00 - 1.49	.	.	15	328	400	677	111	8	.	.	1539
1.50 - 1.99	.	.	.	6	183	479	118	13	.	.	799
2.00 - 2.49	.	.	.	.	44	313	193	25	.	.	575
2.50 - 2.99	.	.	.	.	.	27	136	58	.	.	221
3.00 - 3.49	.	.	.	.	.	1	8	56	13	.	78
3.50 - 3.99	.	.	.	.	.	.	.	11	32	.	43
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2376	3834	4497	4527	3381	3566	712	177	45	3	

AVERAGE HS(M) = 0.46 LARGEST HS(M) = 4.30 ANGLE CLASS % = 23.1

STATION 24 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	44	.	.	.	.	.	.	.	.	.	44
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	44	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 24 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

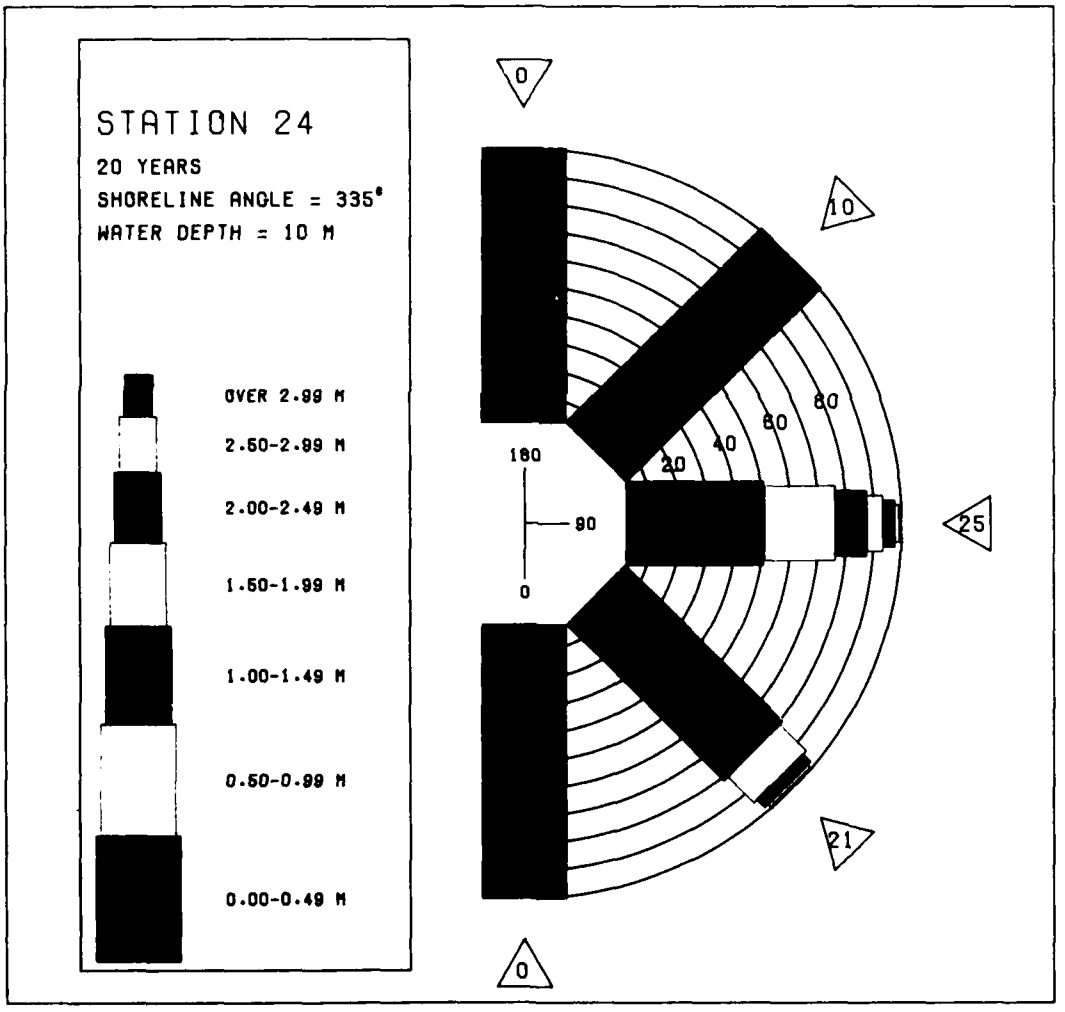
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 24 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	596	910	585	494	714	482	72	15	4	69	3941
0.50 - 0.99	.	42	306	155	85	246	41	2	5	50	932
1.00 - 1.49	.	.	6	89	77	127	25	1	9	33	367
1.50 - 1.99	.	.	.	2	44	90	22	4	2	11	175
2.00 - 2.49	.	.	.	.	10	64	35	5	.	2	116
2.50 - 2.99	.	.	.	.	.	9	23	8	.	.	40
3.00 - 3.49	.	.	.	.	.	.	2	8	2	.	12
3.50 - 3.99	.	.	.	.	.	.	.	1	4	.	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	596	952	897	740	930	1018	220	44	26	165	

AVE HS(M) = 0.26 LARGEST HS(M) = 4.30 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 24

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.5	1.1	0.8	0.5	0.1	0.1	0.0	0.1	0.4	0.4	0.2	0.4	0.5
1957	0.2	0.2	0.5	0.1	0.1	0.0	0.0	0.1	0.0	0.3	0.2	0.3	0.2
1958	0.6	0.3	0.8	0.5	0.2	0.1	0.0	0.1	0.1	0.4	0.2	0.3	0.3
1959	0.1	0.2	0.3	0.2	0.0	0.1	0.0	0.2	0.1	0.4	0.3	0.4	0.2
1960	0.2	0.3	0.5	0.1	0.2	0.2	0.0	0.1	0.2	0.4	0.2	0.2	0.2
1961	0.3	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.4	0.6	0.4	0.1	0.3
1962	0.2	0.6	0.7	0.2	0.2	0.0	0.1	0.3	0.4	0.4	0.4	0.4	0.3
1963	0.3	0.2	0.3	0.1	0.2	0.1	0.0	0.0	0.4	0.3	0.9	0.2	0.2
1964	0.3	0.3	0.3	0.1	0.1	0.0	0.1	0.1	0.3	0.2	0.2	0.3	0.2
1965	0.5	0.2	0.2	0.2	0.1	0.2	0.0	0.0	0.2	0.1	0.2	0.2	0.2
1966	0.5	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.3	0.1	0.5	0.5	0.2
1967	0.2	0.4	0.4	0.6	0.4	0.3	0.0	0.1	0.3	0.1	0.3	0.4	0.3
1968	0.4	0.3	0.4	0.4	0.2	0.2	0.1	0.0	0.2	0.2	0.4	0.2	0.2
1969	0.3	1.4	0.5	0.2	0.2	0.1	0.2	0.0	0.3	0.2	0.6	0.6	0.4
1970	0.1	0.3	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.4	0.5	0.6	0.2
1971	0.2	0.3	0.3	0.1	0.2	0.0	0.0	0.1	0.1	0.4	0.4	0.3	0.2
1972	0.1	0.5	0.4	0.2	0.3	0.2	0.0	0.1	0.4	0.3	0.5	0.6	0.3
1973	0.2	0.6	0.6	0.5	0.2	0.1	0.0	0.1	0.1	0.3	0.1	0.4	0.3
1974	0.2	0.4	0.3	0.2	0.1	0.2	0.0	0.1	0.3	0.1	0.5	0.3	0.2
1975	0.5	0.3	0.3	0.3	0.1	0.1	0.2	0.1	0.2	0.3	0.2	0.6	0.3
MEAN	0.3	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.4	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 24

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.3	2.3	2.9	2.5	0.7	0.9	0.5	1.7	2.9	2.3	1.9	2.5
1957	2.4	1.7	2.5	1.1	1.7	0.5	0.4	0.8	0.5	2.0	2.2	2.7
1958	2.7	2.9	3.3	2.7	1.8	0.6	0.4	0.8	1.0	2.5	2.2	2.5
1959	1.0	1.7	2.5	1.6	0.6	0.9	1.5	1.4	1.0	2.4	2.2	2.6
1960	1.4	2.5	3.6	1.5	1.1	1.6	0.6	1.2	1.5	2.5	1.6	3.0
1961	3.2	3.3	2.4	2.2	2.3	0.3	0.5	0.6	2.5	3.0	2.4	1.7
1962	2.0	2.9	3.8	2.2	0.8	0.6	0.5	2.2	2.6	2.4	2.7	3.3
1963	2.2	1.4	2.3	0.8	1.7	0.9	0.5	0.5	2.2	2.5	3.3	1.3
1964	2.9	2.3	2.1	1.6	0.9	0.5	0.9	1.1	1.9	1.5	1.9	1.7
1965	2.5	2.4	1.6	0.9	0.8	2.1	0.3	0.4	1.1	1.8	1.7	1.9
1966	2.8	2.3	1.2	1.1	1.3	0.8	0.4	0.3	2.2	0.8	2.1	2.7
1967	2.7	2.5	2.4	2.5	2.8	2.1	0.2	1.1	1.9	1.6	1.4	3.0
1968	2.3	2.5	3.1	2.1	1.4	1.5	0.6	0.6	0.9	1.5	3.2	1.7
1969	1.7	3.7	3.1	2.0	2.1	0.8	1.2	0.2	1.5	1.6	2.7	4.0
1970	1.0	2.2	2.0	1.1	0.9	0.8	0.3	2.0	0.7	2.2	2.2	3.7
1971	1.8	2.4	2.8	2.0	1.6	0.9	0.1	1.0	1.3	2.2	2.7	2.5
1972	1.1	3.9	2.8	1.2	2.3	2.3	0.6	1.0	2.9	2.4	2.9	3.2
1973	2.4	2.4	2.7	3.3	1.3	1.6	0.7	1.0	1.5	3.1	1.0	3.1
1974	1.9	2.5	2.9	2.1	1.0	0.9	0.3	0.8	1.6	0.9	2.6	2.8
1975	2.9	2.3	2.4	2.6	1.9	1.4	1.8	1.3	1.3	2.0	2.7	4.2

LARGEST HS(METRES) FOR STATION 24 = 4.3

STATION 25 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 321.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 25 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 321.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2320	3665	2270	1158	1574	516	6	3	.	.	11512
0.50 - 0.99	.	20	609	499	352	607	34	3	.	.	2124
1.00 - 1.49	.	.	1	53	126	200	37	10	.	.	427
1.50 - 1.99	.	.	.	.	11	61	30	.	.	.	102
2.00 - 2.49	.	.	.	.	6	.	5	.	.	.	11
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2320	3685	2880	1710	2069	1384	112	16	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 2.42 ANGLE CLASS % = 14.2

STATION 25 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 321.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	775	835			2529	3027	407	99	8	463	8143
0.50 - 0.99	.	308	1110	212	62	1071	213	13	61	515	3585
1.00 - 1.49	.	.	56	487	237	364	107	8	90	309	1658
1.50 - 1.99	.	.	.	13	280	443	106	29	11	109	991
2.00 - 2.49	.	.	.	.	71	398	155	29	6	23	682
2.50 - 2.99	.	.	.	.	6	85	118	32	6	6	253
3.00 - 3.49	.	.	.	.	.	3	35	29	13	.	80
3.50 - 3.99	.	.	.	.	.	.	.	11	32	.	43
4.00 - 4.49	.	.	.	.	.	.	.	.	1	5	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	775	1143	1166	712	3205	5391	1141	250	228	1430	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 4.30 ANGLE CLASS % = 15.5

STATION 25 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 321.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1550	2246	768	183	1259	653	22	.	.	.	6681
0.50 - 0.99	.	232	1800	1072	655	1045	70	1	.	.	4875
1.00 - 1.49	.	.	53	546	527	740	59	3	.	.	1922
1.50 - 1.99	.	.	.	17	304	759	85	3	.	.	1168
2.00 - 2.49	.	.	.	.	61	438	123	6	.	.	628
2.50 - 2.99	.	.	.	.	.	63	210	29	.	.	302
3.00 - 3.49	.	.	.	.	.	.	41	80	1	.	122
3.50 - 3.99	.	.	.	.	.	.	.	25	15	.	40
4.00 - 4.49	.	.	.	.	.	.	.	.	5	.	5
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1550	2478	2621	1812	2806	3698	610	147	21	0	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 4.11 ANGLE CLASS % = 15.8

STATION 25 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 321.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1769	2691	3222	5737	2422	140	.	.	.	.	15981
0.50 - 0.99	.	.	5	23	47	5	.	.	.	.	80
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1769	2691	3227	5760	2469	145	0	0	0	0	

AVERAGE HS(M) = 0.12 LARGEST HS(M) = 0.70 ANGLE CLASS % = 16.1

STATION 25 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 321.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

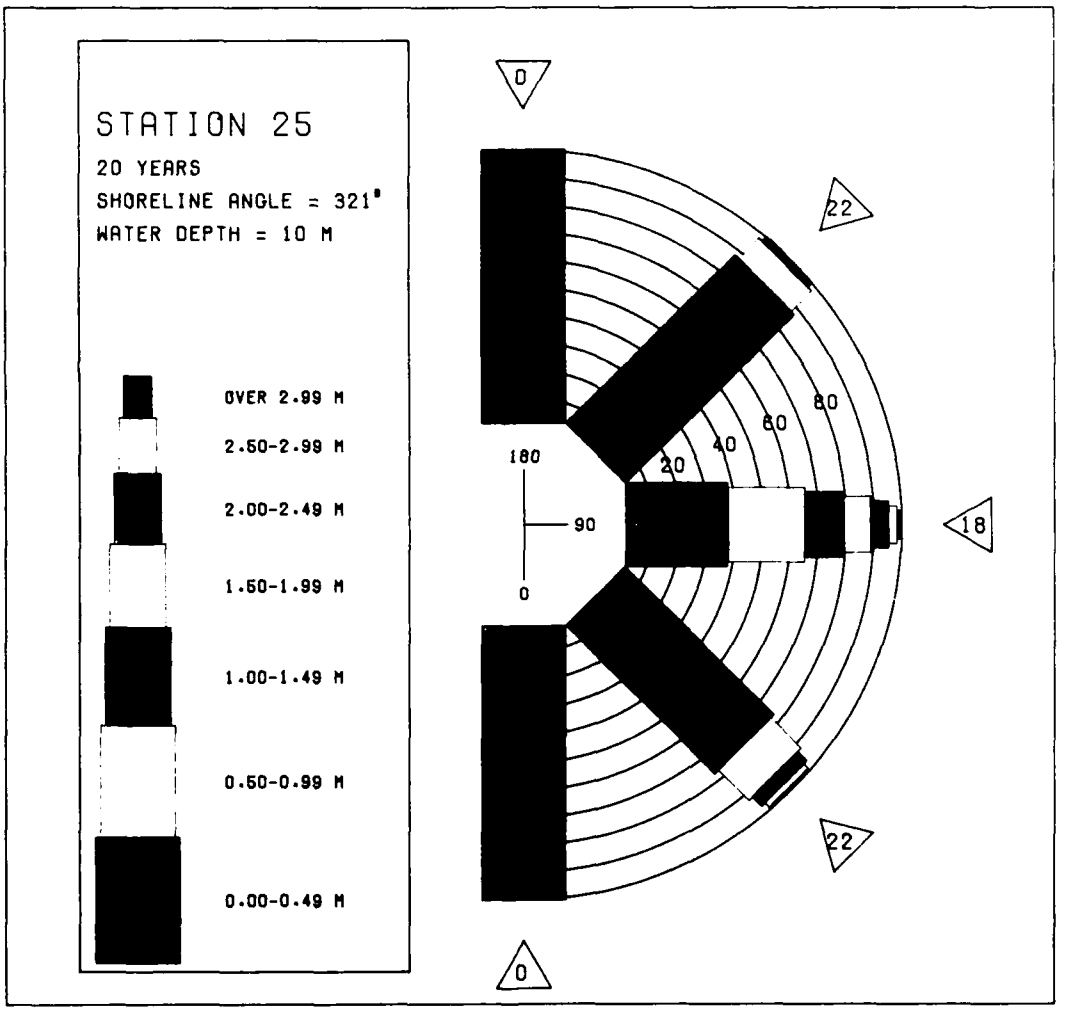
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 25 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 321.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	641	943	626	707	778	433	43	10	.	46	4227
0.50 - 0.99	.	56	352	180	113	272	31	1	6	51	1062
1.00 - 1.49	.	.	11	108	89	130	20	2	9	30	399
1.50 - 1.99	.	.	.	3	59	126	22	3	1	10	224
2.00 - 2.49	.	.	.	.	14	83	28	3	.	2	130
2.50 - 2.99	.	.	.	.	.	14	32	6	.	.	52
3.00 - 3.49	.	.	.	.	.	.	7	10	1	.	18
3.50 - 3.99	.	.	.	.	.	.	.	3	4	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	641	999	989	998	1053	1058	183	38	21	139	

AVE HS(M) = 0.29 LARGEST HS(M) = 4.30 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 25

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.6	1.1	0.9	0.5	0.1	0.1	0.0	0.2	0.4	0.5	0.3	0.4	0.5
1957	0.3	0.3	0.4	0.1	0.1	0.0	0.0	0.1	0.0	0.3	0.2	0.3	0.2
1958	0.6	0.3	0.8	0.5	0.2	0.1	0.0	0.1	0.1	0.4	0.2	0.4	0.3
1959	0.1	0.2	0.3	0.3	0.1	0.1	0.0	0.2	0.1	0.3	0.3	0.5	0.2
1960	0.3	0.3	0.5	0.2	0.1	0.2	0.0	0.1	0.3	0.4	0.2	0.2	0.2
1961	0.4	0.3	0.4	0.3	0.2	0.0	0.1	0.1	0.4	0.7	0.5	0.2	0.3
1962	0.3	0.7	0.8	0.2	0.2	0.1	0.1	0.3	0.4	0.4	0.6	0.5	0.4
1963	0.4	0.2	0.4	0.2	0.2	0.1	0.0	0.0	0.5	0.3	0.8	0.2	0.3
1964	0.4	0.4	0.4	0.1	0.1	0.0	0.1	0.1	0.3	0.3	0.2	0.4	0.3
1965	0.5	0.3	0.3	0.2	0.1	0.2	0.0	0.0	0.2	0.1	0.3	0.2	0.2
1966	0.6	0.3	0.1	0.2	0.1	0.1	0.0	0.0	0.3	0.1	0.5	0.6	0.2
1967	0.2	0.5	0.6	0.7	0.4	0.3	0.0	0.1	0.4	0.2	0.3	0.6	0.3
1968	0.5	0.3	0.4	0.4	0.2	0.2	0.0	0.1	0.2	0.3	0.5	0.3	0.3
1969	0.4	1.6	0.6	0.2	0.2	0.1	0.2	0.0	0.3	0.3	0.6	0.8	0.4
1970	0.2	0.3	0.3	0.3	0.1	0.1	0.0	0.1	0.1	0.4	0.5	0.6	0.3
1971	0.2	0.3	0.3	0.2	0.2	0.1	0.0	0.1	0.1	0.4	0.5	0.5	0.2
1972	0.2	0.6	0.4	0.3	0.3	0.2	0.0	0.1	0.5	0.4	0.6	0.6	0.3
1973	0.2	0.7	0.7	0.4	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.4	0.3
1974	0.3	0.6	0.3	0.2	0.2	0.2	0.0	0.1	0.3	0.2	0.6	0.4	0.3
1975	0.6	0.3	0.5	0.5	0.2	0.1	0.2	0.1	0.2	0.4	0.3	0.7	0.3
MEAN	0.4	0.5	0.5	0.3	0.2	0.1	0.1	0.1	0.3	0.3	0.4	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 25

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.3	2.3	3.2	2.4	0.9	0.7	0.4	2.0	2.9	2.3	1.7	2.5
1957	2.6	1.7	2.6	1.3	1.9	0.7	0.6	0.7	0.7	2.0	2.1	3.1
1958	2.5	2.7	3.1	3.5	2.0	0.7	0.3	0.8	1.2	2.3	2.2	2.5
1959	0.7	1.8	2.3	1.6	0.8	0.8	1.1	1.5	1.3	1.8	2.6	2.8
1960	1.6	2.3	4.0	1.9	0.9	1.9	0.4	1.4	1.1	2.7	1.4	3.3
1961	3.2	3.4	2.2	2.2	2.1	0.4	0.5	0.6	2.4	3.4	2.7	1.9
1962	2.4	3.1	3.8	2.0	0.8	0.7	0.6	2.5	2.6	2.5	2.6	3.3
1963	2.3	2.0	2.5	1.1	1.8	1.1	0.5	0.4	2.3	2.4	3.0	1.8
1964	3.3	2.5	2.4	1.6	0.9	0.5	1.0	1.7	2.4	1.7	1.8	2.5
1965	2.7	2.5	1.8	1.1	0.9	2.1	0.4	0.3	1.5	1.1	1.7	1.6
1966	2.9	2.3	1.1	1.6	1.4	0.7	0.6	0.3	2.1	0.8	2.1	2.8
1967	2.7	2.7	2.4	3.0	2.9	2.1	0.1	1.2	2.1	2.0	1.7	3.3
1968	2.6	2.8	3.1	2.4	1.9	1.2	0.7	0.7	1.2	1.6	3.2	1.6
1969	1.6	4.1	3.4	1.9	2.3	0.9	1.3	0.5	2.0	2.1	2.9	3.9
1970	1.5	1.9	2.4	1.4	1.1	0.9	0.3	2.3	0.9	2.3	2.5	3.8
1971	2.1	2.4	2.7	1.8	1.6	0.9	0.2	1.7	1.3	2.3	2.7	2.7
1972	1.7	3.9	2.7	1.7	2.4	1.9	0.7	1.2	3.2	2.1	3.1	3.2
1973	2.3	2.9	3.2	3.2	1.2	1.6	1.0	1.0	1.7	2.7	1.6	2.9
1974	2.0	2.9	2.8	1.9	0.9	1.1	0.4	0.9	2.0	1.0	3.2	2.6
1975	2.7	2.3	2.6	2.9	2.4	1.5	1.9	1.4	1.3	2.3	3.2	4.2

LARGEST HS(METRES) FOR STATION 25 = 4.3

STATION 26 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 26 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 26 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2026	3090	2032	927	2443	3047	431	99	5	451	14551
0.50 - 0.99	.	37	607	550	311	1043	244	39	56	491	3378
1.00 - 1.49	.	.	3	99	234	467	126	13	11	338	1291
1.50 - 1.99	.	.	.	.	51	328	128	17	3	128	655
2.00 - 2.49	.	.	.	.	18	73	82	17	1	23	214
2.50 - 2.99	.	.	.	.	1	1	20	15	1	8	46
3.00 - 3.49	.	.	.	.	.	.	.	3	3	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2026	3127	2642	1576	3058	4959	1031	203	81	1439	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 3.99 ANGLE CLASS % = 20.2

STATION 26 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	980	1197			912	562	13	.	.	.	3664
0.50 - 0.99	.	285	1510	258	22	378	35	.	.	.	2489
1.00 - 1.49	.	.	54	641	284	195	39	.	.	.	1213
1.50 - 1.99	.	.	.	18	398	527	80	.	.	.	1044
2.00 - 2.49	.	.	.	.	80	585	154	6	.	.	825
2.50 - 2.99	.	.	.	.	3	107	272	49	1	.	432
3.00 - 3.49	.	.	.	.	.	1	56	94	6	.	157
3.50 - 3.99	.	.	.	.	.	.	.	32	42	.	74
4.00 - 4.49	.	.	.	.	.	.	.	.	6	5	11
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	980	1482	1564	917	1707	2463	635	181	55	5	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 4.30 ANGLE CLASS % = 10.0

STATION 26 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3116	4931	4423	6601	3116	316	8	.	.	.	22511
0.50 - 0.99	.	71	1184	1122	819	687	32	1	.	.	3916
1.00 - 1.49	.	.	5	222	386	660	34	3	.	.	1310
1.50 - 1.99	.	.	.	1	80	369	39	1	.	.	500
2.00 - 2.49	.	.	.	.	10	37	18	3	.	.	68
2.50 - 2.99	.	.	.	.	1	1	.	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3116	5002	5612	7946	4422	2070	131	8	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 2.70 ANGLE CLASS % = 28.3

STATION 26 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

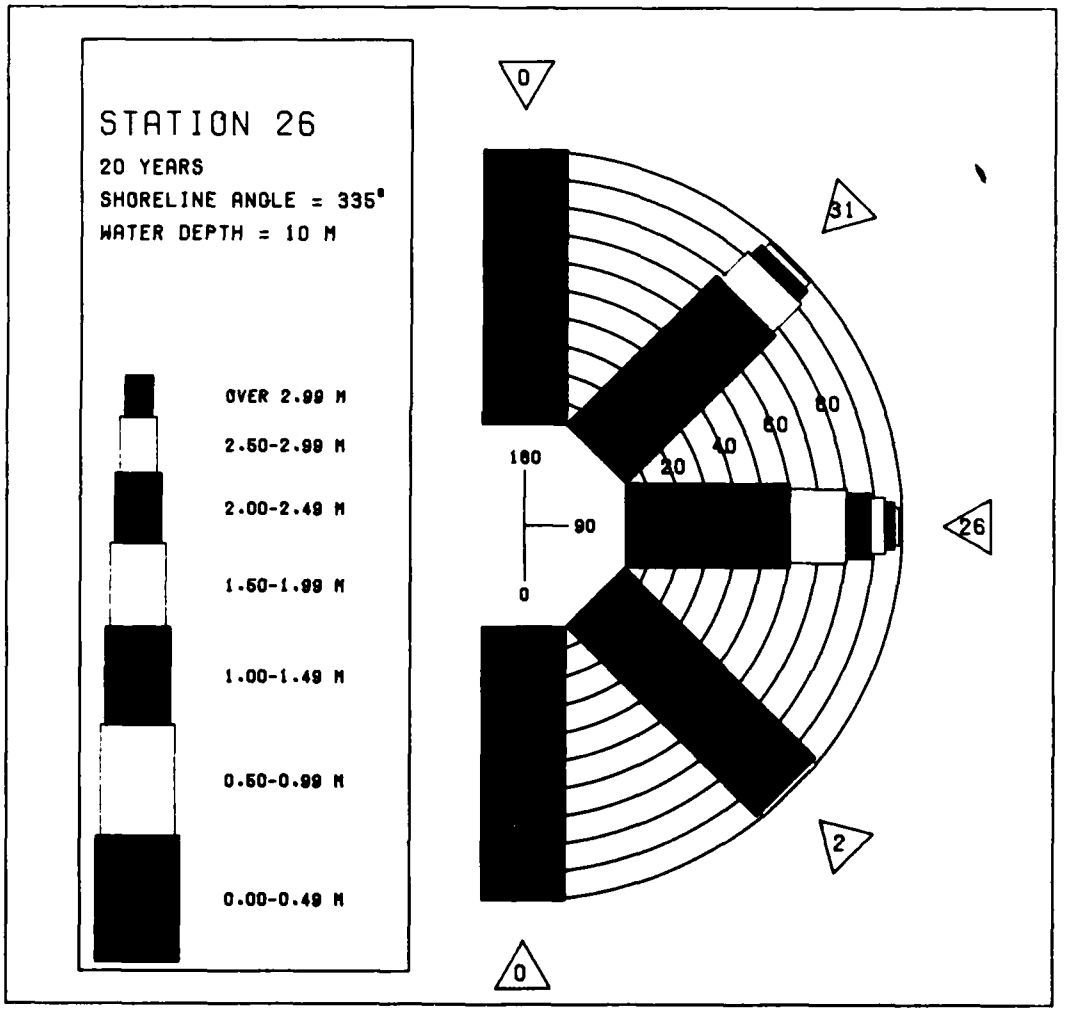
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	56	.	.	.	.	.	.	.	.	.	56
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	56	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.1

STATION 26 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	617	921	645	752	647	392	45	9	.	45	4073
0.50 - 0.99	.	39	330	193	115	211	31	4	6	49	977
1.00 - 1.49	.	.	6	96	90	133	20	1	1	33	379
1.50 - 1.99	.	.	.	2	54	126	52	1	.	12	218
2.00 - 2.49	.	.	.	.	11	76	25	2	.	2	116
2.50 - 2.99	.	.	.	.	.	11	29	6	.	.	46
3.00 - 3.49	.	.	.	.	.	.	5	9	1	.	15
3.50 - 3.99	.	.	.	.	.	.	.	3	4	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	617	960	981	1043	917	948	178	35	11	141	

AVE HS(M) = 0.28 LARGEST HS(M) = 4.30 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 26

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.6	1.1	0.9	0.5	0.1	0.1	0.0	0.2	0.4	0.4	0.3	0.3	0.5
1957	0.3	0.3	0.4	0.1	0.1	0.0	0.0	0.1	0.0	0.3	0.2	0.3	0.2
1958	0.5	0.3	0.8	0.4	0.2	0.1	0.0	0.1	0.1	0.4	0.2	0.4	0.3
1959	0.1	0.2	0.3	0.2	0.1	0.1	0.0	0.2	0.1	0.3	0.3	0.5	0.2
1960	0.3	0.3	0.6	0.1	0.1	0.2	0.0	0.1	0.3	0.4	0.1	0.2	0.2
1961	0.4	0.3	0.4	0.3	0.2	0.0	0.1	0.1	0.3	0.7	0.5	0.2	0.3
1962	0.3	0.7	0.8	0.1	0.2	0.1	0.1	0.3	0.4	0.3	0.5	0.5	0.3
1963	0.4	0.2	0.3	0.2	0.2	0.1	0.0	0.0	0.5	0.3	0.7	0.2	0.3
1964	0.4	0.4	0.4	0.1	0.1	0.0	0.1	0.1	0.3	0.3	0.2	0.4	0.2
1965	0.5	0.2	0.3	0.2	0.1	0.1	0.0	0.0	0.2	0.1	0.2	0.2	0.2
1966	0.6	0.3	0.1	0.2	0.1	0.0	0.0	0.0	0.2	0.1	0.5	0.6	0.2
1967	0.2	0.4	0.6	0.7	0.4	0.3	0.0	0.1	0.5	0.2	0.3	0.6	0.3
1968	0.5	0.3	0.4	0.4	0.2	0.1	0.0	0.1	0.2	0.2	0.5	0.3	0.3
1969	0.3	1.3	0.6	0.2	0.2	0.1	0.2	0.0	0.2	0.3	0.5	0.7	0.4
1970	0.3	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.4	0.5	0.6	0.2
1971	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.1	0.1	0.4	0.5	0.5	0.2
1972	0.2	0.5	0.4	0.3	0.2	0.1	0.0	0.1	0.4	0.3	0.6	0.6	0.3
1973	0.2	0.7	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.3	0.3
1974	0.3	0.6	0.3	0.2	0.2	0.1	0.0	0.1	0.2	0.2	0.6	0.4	0.3
1975	0.5	0.3	0.5	0.5	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.7	0.3
MEAN	0.4	0.5	0.5	0.3	0.2	0.1	0.0	0.1	0.2	0.3	0.4	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 26

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.3	2.1	3.3	2.2	0.9	0.7	0.4	2.1	2.7	2.2	1.6	2.5
1957	2.7	1.7	2.6	1.3	1.9	0.8	0.6	0.6	0.7	1.9	2.1	3.0
1958	2.5	2.5	2.8	3.3	2.0	0.7	0.2	0.7	1.3	2.3	2.1	2.5
1959	0.7	1.8	2.2	1.5	0.9	0.8	0.9	1.6	1.3	1.6	2.6	2.8
1960	1.7	1.8	4.0	2.0	0.6	1.8	0.4	1.4	1.1	2.6	1.0	3.3
1961	3.0	3.4	2.1	2.1	2.1	0.4	0.4	0.6	2.1	3.4	2.8	1.9
1962	2.4	3.0	3.8	1.9	0.8	0.7	0.6	2.5	2.6	2.5	2.6	3.2
1963	2.3	1.9	2.4	1.2	1.9	1.3	0.5	0.4	2.3	2.1	2.8	2.2
1964	3.3	2.4	2.4	1.4	0.9	0.5	1.1	1.8	2.3	1.7	1.7	2.4
1965	2.6	2.5	2.0	1.1	0.9	2.1	0.5	0.2	1.6	0.9	1.6	1.7
1966	2.9	2.4	1.0	1.9	1.4	0.6	0.7	0.3	1.6	0.8	2.1	2.7
1967	2.4	2.7	2.3	3.0	2.9	2.1	0.1	1.2	2.2	2.1	1.9	3.2
1968	2.5	2.9	3.1	2.4	2.0	1.1	0.7	0.7	1.2	1.8	3.1	1.6
1969	1.6	4.1	3.4	1.8	2.3	0.9	1.4	0.6	2.1	2.3	2.9	4.0
1970	1.4	1.7	2.4	1.4	1.1	0.9	0.2	2.3	0.9	2.3	2.5	3.7
1971	2.1	2.3	2.5	1.6	1.6	0.8	0.3	1.7	1.3	2.3	2.7	2.7
1972	1.9	3.3	2.6	1.7	2.4	1.6	0.7	1.3	3.1	2.0	3.0	3.2
1973	2.3	3.0	3.2	1.8	1.2	1.6	1.0	1.2	1.6	2.5	1.8	2.6
1974	2.1	2.9	2.2	2.0	0.9	1.2	0.5	0.9	2.0	1.2	3.1	2.4
1975	2.7	2.2	2.6	2.9	2.3	1.4	1.9	1.4	1.1	2.3	3.2	4.1

LARGEST HS(METRES) FOR STATION 26 = 4.3

STATION 27 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 244.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2520	3424	2409	1112	672	571	22	6	.	.	10736
0.50 - 0.99	.	77	894	595	323	224	1	.	.	.	2114
1.00 - 1.49	.	.	1	32	58	11	.	.	.	.	102
1.50 - 1.99	.	.	.	.	13	.	.	.	.	.	13
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2520	3501	3304	1739	1067	806	23	6	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 2.00 ANGLE CLASS % = 13.0

STATION 27 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 244.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1391	1916	39	.	1324	718	88	39	5	.	5520
0.50 - 0.99	.	323	2299	595	49	438	145	30	3	1	3883
1.00 - 1.49	.	.	29	898	610	480	111	22	3	.	2153
1.50 - 1.99	.	.	.	13	357	804	121	29	3	.	1327
2.00 - 2.49	.	.	.	.	80	491	210	37	22	5	845
2.50 - 2.99	.	.	.	.	3	35	106	87	18	.	249
3.00 - 3.49	.	.	.	.	.	.	.	10	6	.	16
3.50 - 3.99	.	.	.	.	.	.	.	.	3	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1391	2239	2367	1506	2423	2966	781	254	63	6	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.77 ANGLE CLASS % = 14.0

STATION 27 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 244.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3720	5771	5795	6574	1685	23	11	.	.	.	23579
0.50 - 0.99	.	1	576	2498	1350	87	5	.	.	.	4517
1.00 - 1.49	.	.	.	88	537	342	5	.	.	.	972
1.50 - 1.99	.	.	.	.	140	564	32	1	.	.	737
2.00 - 2.49	.	.	.	.	17	162	46	1	.	.	226
2.50 - 2.99	.	.	.	.	.	6	42	6	.	.	54
3.00 - 3.49	.	.	.	.	.	.	5	11	1	.	17
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3720	5772	6371	9160	3729	1184	146	19	1	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 3.29 ANGLE CLASS % = 30.1

STATION 27 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 244.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 27 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 244.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 27 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 244.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

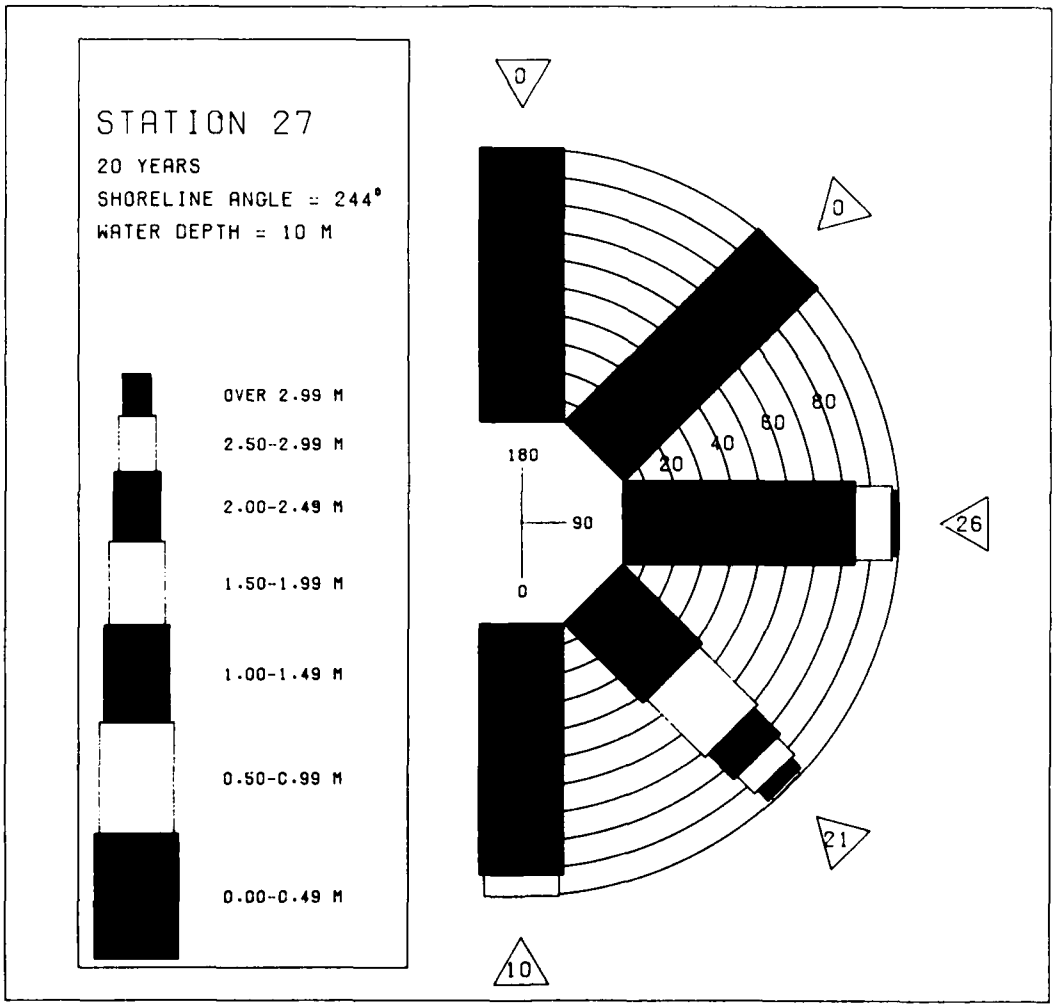
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 27 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 244.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	763	1111	824	768	368	131	12	4	.	.	3981
0.50 - 0.99	.	40	377	368	172	74	15	3	.	.	1049
1.00 - 1.49	.	.	3	101	120	83	11	2	.	.	320
1.50 - 1.99	.	.	.	1	51	136	15	3	.	.	206
2.00 - 2.49	.	.	.	.	9	65	25	3	2	.	104
2.50 - 2.99	.	.	.	.	.	4	14	9	1	.	28
3.00 - 3.49	.	.	.	.	.	.	.	2	.	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	763	1151	1204	1238	720	493	92	26	3	0	

AVE HS(M) = 0.25 LARGEST HS(M) = 3.77 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 27

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.2	0.4	0.1	0.1	0.1	0.0	0.1	0.2	0.3	0.2	0.2	0.2
1957	0.4	0.3	0.4	0.1	0.2	0.0	0.1	0.1	0.1	0.3	0.2	0.3	0.2
1958	0.4	0.3	0.6	0.4	0.1	0.1	0.0	0.1	0.2	0.3	0.2	0.4	0.3
1959	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.2	0.3	0.4	0.2
1960	0.3	0.3	0.5	0.2	0.1	0.1	0.0	0.1	0.2	0.2	0.1	0.3	0.2
1961	0.3	0.3	0.4	0.3	0.2	0.0	0.0	0.1	0.3	0.5	0.4	0.3	0.3
1962	0.2	0.6	0.7	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.6	0.4	0.3
1963	0.4	0.3	0.3	0.3	0.1	0.1	0.0	0.1	0.4	0.3	0.3	0.3	0.2
1964	0.4	0.5	0.4	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.2
1965	0.5	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.2	0.1	0.2	0.2	0.2
1966	0.6	0.3	0.1	0.2	0.1	0.0	0.0	0.0	0.2	0.1	0.4	0.5	0.2
1967	0.3	0.4	0.6	0.6	0.4	0.1	0.0	0.1	0.3	0.2	0.2	0.6	0.3
1968	0.6	0.4	0.3	0.3	0.2	0.1	0.0	0.1	0.2	0.2	0.4	0.3	0.3
1969	0.4	1.1	0.5	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.7	0.3
1970	0.4	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1	0.3	0.3	0.6	0.2
1971	0.3	0.2	0.3	0.2	0.2	0.1	0.0	0.1	0.1	0.2	0.4	0.5	0.2
1972	0.3	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.3	0.3	0.5	0.5	0.3
1973	0.3	0.7	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.2
1974	0.4	0.6	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.5	0.4	0.3
1975	0.5	0.3	0.6	0.5	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.6	0.3
MEAN	0.4	0.4	0.4	0.3	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 27

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.7	1.7	2.9	1.4	0.9	0.9	0.3	1.9	1.6	2.0	1.3	2.5
1957	2.6	1.9	2.3	1.5	1.9	0.9	0.6	0.8	0.8	2.0	1.7	2.6
1958	1.7	1.6	2.2	3.2	1.7	1.0	0.3	0.9	1.9	1.4	1.8	2.4
1959	1.2	1.9	2.2	1.3	1.0	0.9	0.4	1.3	1.7	1.6	2.3	2.5
1960	1.6	1.8	3.4	2.0	0.6	1.8	0.6	1.1	0.9	1.8	1.3	3.2
1961	2.6	2.8	1.8	1.9	2.1	0.6	0.4	0.7	2.0	2.8	2.7	2.1
1962	2.2	2.3	2.9	1.1	0.7	0.8	0.8	2.5	2.4	2.5	3.1	2.9
1963	2.3	2.1	2.1	1.8	2.0	1.7	0.5	0.7	2.4	2.5	2.3	2.5
1964	3.0	2.6	2.1	0.8	1.0	0.8	1.4	2.2	2.1	1.8	2.1	3.0
1965	2.1	2.5	2.2	1.9	1.0	1.8	0.6	0.4	1.8	1.4	1.8	2.4
1966	2.5	2.3	1.7	2.0	1.2	0.6	0.9	0.4	1.3	0.9	2.0	2.6
1967	2.0	2.5	2.3	2.9	2.4	1.3	0.2	1.0	2.2	2.2	2.1	2.9
1968	2.2	2.5	2.9	1.9	2.0	0.9	0.6	1.1	1.3	1.9	2.5	2.3
1969	2.0	3.8	3.0	2.0	2.0	0.8	1.3	0.8	2.3	2.3	2.2	3.0
1970	1.9	2.1	2.4	1.3	1.1	0.9	0.3	2.3	1.0	2.4	2.5	3.2
1971	1.9	2.3	2.3	1.6	1.3	0.7	0.4	2.0	0.9	1.4	2.2	2.6
1972	2.3	2.0	2.0	1.8	2.6	0.8	0.8	1.3	2.6	2.3	2.4	2.6
1973	2.2	2.7	2.8	1.2	1.2	1.5	1.0	1.3	1.4	1.8	1.9	1.9
1974	2.1	2.8	1.7	2.2	1.3	1.1	0.6	0.9	1.9	1.7	2.8	2.3
1975	2.7	2.1	2.4	2.5	2.4	1.1	1.7	1.2	1.3	2.3	2.8	2.6

LARGEST HS(METRES) FOR STATION 27 = 3.8

STATION 28 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 308.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3514	5669	3335	2188	571	189	17	.	.	.	15483
0.50 - 0.99	.	121	987	636	234	90	30	.	.	.	2098
1.00 - 1.49	.	.	1	42	47	5	3	.	.	.	98
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3514	5790	4323	2866	856	284	50	0	0	0	

AVERAGE HS(M) = 0.22 LARGEST HS(M) = 2.07 ANGLE CLASS % = 17.7

STATION 28 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 308.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1136	1476	749	1603	3944	3016	200	23	30	66	12243
0.50 - 0.99	.	400	1086	215	123	1151	124	5	8	.	3112
1.00 - 1.49	.	.	61	552	345	503	87	13	47	.	1608
1.50 - 1.99	.	.	.	22	208	385	92	29	5	.	741
2.00 - 2.49	.	.	.	.	51	207	121	27	5	.	411
2.50 - 2.99	.	.	.	.	3	20	30	23	1	.	77
3.00 - 3.49	.	.	.	.	.	.	3	6	.	.	9
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1136	1876	1896	2392	4674	5282	657	127	96	66	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 3.75 ANGLE CLASS % = 18.2

STATION 28 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 308.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	573	426	.	.	367	367	335	66	6	497	2637
0.50 - 0.99	.	282	749	46	13	391	188	1	51	496	2217
1.00 - 1.49	.	.	85	417	99	203	124	.	37	299	1264
1.50 - 1.99	.	.	.	27	241	179	66	.	8	118	639
2.00 - 2.49	.	.	.	.	83	484	92	.	3	11	673
2.50 - 2.99	.	.	.	.	3	136	176	17	3	6	341
3.00 - 3.49	.	.	.	.	.	6	70	66	15	.	157
3.50 - 3.99	.	.	.	.	.	.	.	41	39	.	80
4.00 - 4.49	.	.	.	.	.	.	.	.	3	5	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	573	708	834	490	806	1766	1051	191	165	1432	

AVERAGE HS(M) = 1.03 LARGEST HS(M) = 4.30 ANGLE CLASS % = 8.0

STATION 28 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 308.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	882	1043			663	302	6	.	.	.	2896
0.50 - 0.99	.	482	1536	201	3	140	8	.	.	.	2372
1.00 - 1.49	.	.	85	862	284	84	.	.	.	.	1315
1.50 - 1.99	.	.	.	54	472	513	16	.	.	.	1057
2.00 - 2.49	.	.	.	.	119	759	54	.	.	.	932
2.50 - 2.99	.	.	.	.	3	177	148	5	.	.	333
3.00 - 3.49	.	.	.	.	.	3	90	54	.	.	147
3.50 - 3.99	.	.	.	.	.	.	.	13	6	.	19
4.00 - 4.49	.	.	.	.	.	.	.	.	3	.	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	882	1525	1621	1119	1544	1982	324	72	9	0	

AVERAGE HS(M) = 1.05 LARGEST HS(M) = 4.09 ANGLE CLASS % = 9.1

STATION 28 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 308.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3504	5516	4649	4585	1247	23	.	.	.	.	19524
0.50 - 0.99	.	83	1502	3364	1475	58	.	.	.	.	6482
1.00 - 1.49	.	.	11	278	639	341	1	.	.	.	1272
1.50 - 1.99	.	.	.	.	169	373	20	1	.	.	563
2.00 - 2.49	.	.	.	.	20	47	8	1	.	.	76
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3504	5599	6162	8227	3550	844	29	2	0	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 2.45 ANGLE CLASS % = 27.9

STATION 28 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 308.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

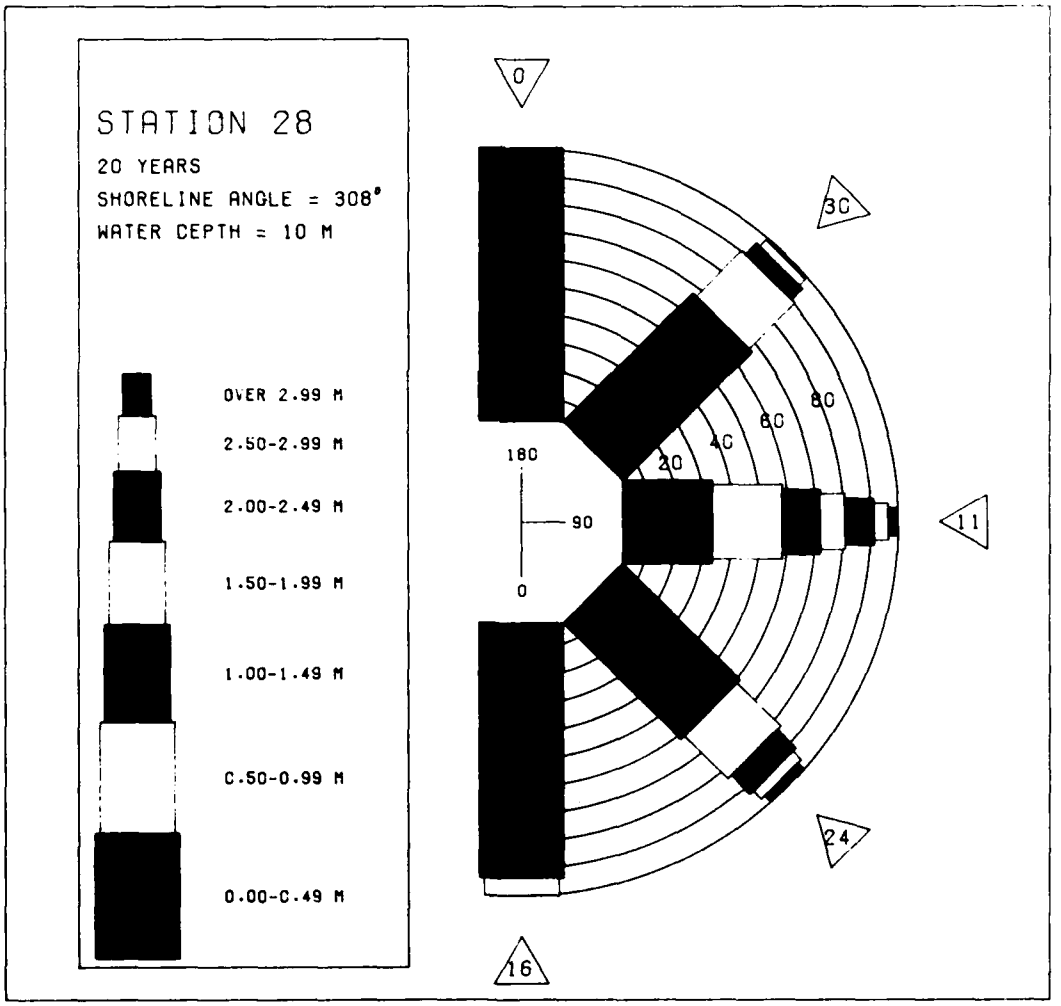
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 28 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 308.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	961	1413	873	837	679	390	55	9	3	56	5276
0.50 - 0.99	.	137	586	446	184	183	35	.	5	49	1625
1.00 - 1.49	.	.	24	215	141	114	21	1	8	29	553
1.50 - 1.99	.	.	.	10	109	145	19	3	1	11	298
2.00 - 2.49	.	.	.	.	27	149	27	2	.	1	206
2.50 - 2.99	.	.	.	.	1	33	35	4	.	.	73
3.00 - 3.49	.	.	.	.	.	1	16	12	1	.	30
3.50 - 3.99	.	.	.	.	.	.	.	5	4	.	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	961	1550	1483	1508	1141	1015	208	36	22	146	

AVE HS(M) = 0.42 LARGEST HS(M) = 4.30 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 28

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.8	1.1	0.9	0.5	0.2	0.1	0.1	0.2	0.4	0.5	0.4	0.5	0.6
1957	0.5	0.4	0.6	0.2	0.2	0.1	0.1	0.2	0.1	0.4	0.3	0.4	0.3
1958	0.8	0.6	1.0	0.7	0.3	0.1	0.1	0.1	0.2	0.6	0.4	0.6	0.5
1959	0.3	0.4	0.5	0.4	0.1	0.2	0.1	0.3	0.2	0.5	0.4	0.6	0.3
1960	0.5	0.6	0.8	0.2	0.2	0.3	0.1	0.2	0.3	0.5	0.3	0.4	0.4
1961	0.5	0.5	0.6	0.5	0.3	0.1	0.1	0.1	0.5	0.8	0.7	0.4	0.4
1962	0.4	0.9	1.0	0.2	0.3	0.1	0.1	0.4	0.5	0.5	0.8	0.7	0.5
1963	0.5	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.6	0.5	0.9	0.5	0.4
1964	0.7	0.7	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.4	0.4	0.6	0.4
1965	0.7	0.5	0.5	0.4	0.1	0.2	0.1	0.1	0.3	0.2	0.4	0.4	0.3
1966	0.9	0.5	0.3	0.3	0.2	0.1	0.1	0.1	0.4	0.2	0.7	0.8	0.4
1967	0.4	0.6	0.7	0.8	0.5	0.3	0.0	0.1	0.5	0.3	0.5	0.8	0.5
1968	0.8	0.5	0.6	0.5	0.3	0.2	0.1	0.1	0.3	0.4	0.7	0.5	0.4
1969	0.6	1.7	0.8	0.3	0.3	0.1	0.3	0.1	0.4	0.4	0.7	1.1	0.6
1970	0.5	0.4	0.5	0.4	0.2	0.1	0.1	0.2	0.2	0.5	0.6	0.9	0.4
1971	0.4	0.5	0.4	0.3	0.3	0.1	0.0	0.2	0.2	0.5	0.7	0.7	0.4
1972	0.4	0.8	0.6	0.4	0.4	0.2	0.1	0.2	0.5	0.5	0.8	0.8	0.5
1973	0.4	0.9	0.8	0.5	0.3	0.2	0.1	0.2	0.2	0.5	0.3	0.6	0.4
1974	0.5	0.8	0.6	0.4	0.3	0.2	0.1	0.2	0.4	0.3	0.7	0.6	0.4
1975	0.8	0.5	0.8	0.7	0.2	0.2	0.2	0.2	0.3	0.5	0.4	0.9	0.5
MEAN	0.6	0.7	0.7	0.4	0.3	0.2	0.1	0.2	0.3	0.4	0.5	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 28

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.3	2.3	3.3	2.5	1.0	0.9	0.6	2.2	2.9	2.3	1.8	2.5
1957	2.8	1.9	2.7	1.7	2.0	0.9	0.6	0.9	0.8	2.2	2.2	3.2
1958	2.4	2.8	3.1	3.8	2.0	1.0	0.5	0.9	1.9	2.4	2.2	2.7
1959	1.1	2.0	2.5	1.6	1.0	0.9	1.4	1.7	1.7	2.1	2.7	2.8
1960	1.9	2.4	4.0	2.2	1.2	2.0	0.8	1.4	1.5	2.7	1.6	3.6
1961	3.3	3.5	2.3	2.2	2.1	0.7	0.6	0.7	2.3	3.5	3.1	2.1
1962	2.6	3.1	3.8	2.2	0.9	0.9	0.9	2.6	2.7	2.8	3.3	3.3
1963	2.5	2.3	2.5	2.0	2.2	1.6	0.5	0.9	2.4	2.7	3.0	2.5
1964	3.4	2.8	2.5	1.6	1.1	0.8	1.5	2.3	2.6	2.0	2.2	3.2
1965	2.7	2.8	2.3	1.9	0.9	2.2	0.6	0.4	1.9	1.6	2.0	2.4
1966	3.1	2.6	1.6	2.0	1.5	0.8	0.9	0.5	2.1	1.0	2.1	3.0
1967	2.7	2.8	2.5	3.4	2.9	2.1	0.3	1.2	2.2	2.4	2.1	3.5
1968	2.7	3.1	3.2	2.4	2.2	1.5	0.7	1.1	1.4	2.1	3.1	2.3
1969	2.1	4.1	3.4	2.0	2.3	0.9	1.5	0.9	2.4	2.4	2.9	3.8
1970	2.0	2.1	2.4	1.5	1.2	0.9	0.4	2.5	1.0	2.4	2.8	3.9
1971	2.3	2.4	2.7	2.0	1.6	0.9	0.6	2.2	1.4	2.4	2.7	3.0
1972	2.3	3.7	2.7	1.9	2.8	2.1	0.8	1.4	3.4	2.4	3.1	3.2
1973	2.4	3.2	3.4	3.0	1.3	1.6	1.1	1.4	1.7	2.8	1.9	2.9
1974	2.2	3.1	2.6	2.3	1.3	1.2	1.0	0.9	2.1	1.7	3.3	2.5
1975	2.9	2.3	2.8	3.1	2.6	1.5	2.0	1.5	1.4	2.5	3.3	4.2

LARGEST HS(METRES) FOR STATION 28 = 4.3

STATION 29 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 343.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	5027	8923	6437	4224	937	343	.	.	.	.	25891
0.50 - 0.99	.	177	1160	835	373	275	.	.	.	.	2820
1.00 - 1.49	.	.	5	42	54	6	.	.	.	.	107
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5027	9100	7602	5101	1367	624	0	0	0	0	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 1.78 ANGLE CLASS % = 28.8

STATION 29 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 343.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	704	947	.	.	602	118	126	39	23	1	2560
0.50 - 0.99	.	491	1240	297	59	220	107	42	20	1	2477
1.00 - 1.49	.	.	99	617	395	379	88	34	6	1	1619
1.50 - 1.99	.	.	.	15	174	364	87	34	1	.	675
2.00 - 2.49	.	.	.	.	35	136	66	25	6	3	271
2.50 - 2.99	.	.	.	.	1	11	15	20	3	.	50
3.00 - 3.49	.	.	.	.	.	.	3	5	.	1	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	704	1438	1339	929	1266	1228	492	199	59	7	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.22 ANGLE CLASS % = 7.7

STATION 29 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 343.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	349	415	.	.	1141	802	244	47	56	321	3375
0.50 - 0.99	.	311	687	75	111	456	179	66	47	508	2440
1.00 - 1.49	.	.	75	417	100	200	92	32	30	337	1283
1.50 - 1.99	.	.	.	42	227	193	30	20	3	200	715
2.00 - 2.49	.	.	.	.	61	412	107	5	1	85	671
2.50 - 2.99	.	.	.	.	.	102	154	27	1	27	311
3.00 - 3.49	.	.	.	.	.	1	25	29	8	13	76
3.50 - 3.99	.	.	.	.	.	.	.	6	5	3	14
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	349	726	762	534	1640	2166	831	232	152	1494	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 4.09 ANGLE CLASS % = 8.9

STATION 29 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 343.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	586	619			373	566	13	.	.	.	2157
0.50 - 0.99	.	396	1072	150	30	870	41	.	.	.	2559
1.00 - 1.49	.	.	157	633	181	580	88	3	.	.	1642
1.50 - 1.99	.	.	.	39	321	412	99	.	.	.	871
2.00 - 2.49	.	.	.	.	128	646	165	10	.	.	949
2.50 - 2.99	.	.	.	.	3	164	244	87	1	.	499
3.00 - 3.49	.	.	.	.	.	3	68	148	32	1	252
3.50 - 3.99	.	.	.	.	.	.	.	23	59	6	88
4.00 - 4.49	.	.	.	.	.	.	.	1	13	8	22
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	586	1015	1229	822	1036	3241	718	272	105	16	

AVERAGE HS(M) = 1.20 LARGEST HS(M) = 4.50 ANGLE CLASS % = 9.1

STATION 29 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 343.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	677	1055	22		326	306	15		.	.	2401
0.50 - 0.99	.	328	1536	518	306	1252	150	17	.	.	4107
1.00 - 1.49	.	.	77	638	576	1319	210	30	.	.	2850
1.50 - 1.99	.	.	.	15	205	833	195	23	.	.	1271
2.00 - 2.49	.	.	.	.	46	254	210	70	1	.	581
2.50 - 2.99	.	.	.	.	.	8	34	34	3	.	79
3.00 - 3.49	.	.	.	.	.	.	.	13	1	.	14
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	677	1383	1635	1171	1459	3972	814	187	5	0	

AVERAGE HS(M) = 0.98 LARGEST HS(M) = 3.34 ANGLE CLASS % = 11.3

STATION 29 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 343.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

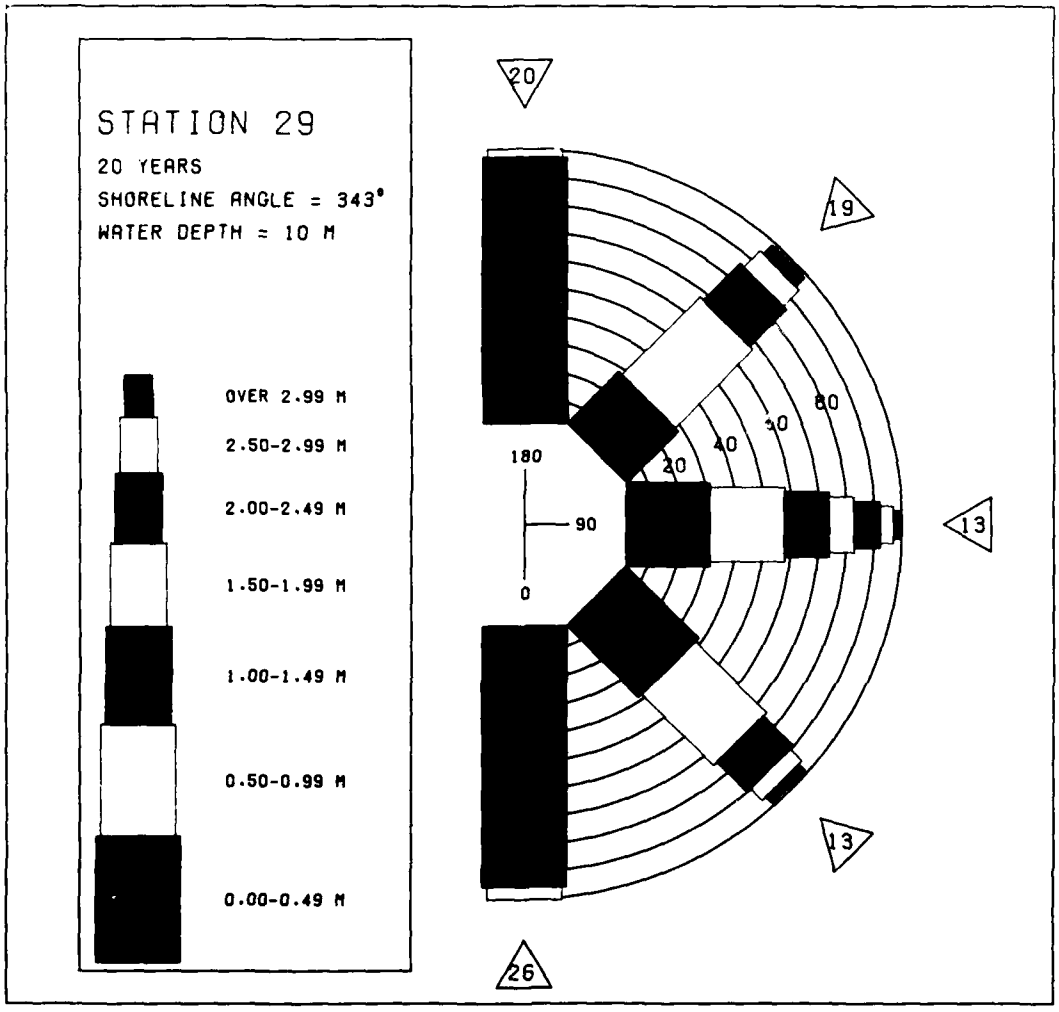
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2819	5289	5148	5475	2138	280	.	.	.	.	21149
0.50 - 0.99	.	59	826	915	852	518	.	.	.	.	3170
1.00 - 1.49	.	.	3	23	97	.	.	.	.	.	123
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2819	5348	5977	6413	3087	798	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.31 ANGLE CLASS % = 24.5

STATION 29 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 343.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1016	1725	1160	970	552	241	40	8	8	32	5752
0.50 - 0.99	.	176	652	279	173	359	47	12	6	50	1754
1.00 - 1.49	.	.	41	237	140	248	48	10	3	33	760
1.50 - 1.99	.	.	.	11	93	180	41	7	.	20	352
2.00 - 2.49	.	.	.	.	27	145	55	11	1	8	247
2.50 - 2.99	.	.	.	.	.	28	44	16	1	2	91
3.00 - 3.49	.	.	.	.	.	.	9	19	4	1	33
3.50 - 3.99	.	.	.	.	.	.	.	3	6	1	10
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1016	1901	1853	1497	985	1201	284	86	30	147	

AVE HS(M) = 0.49 LARGEST HS(M) = 4.50 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 29

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.9	0.9	0.7	0.4	0.3	0.2	0.2	0.3	0.5	0.7	0.6	0.5	0.6
1957	0.5	0.6	0.7	0.3	0.3	0.2	0.1	0.2	0.2	0.5	0.4	0.6	0.4
1958	0.9	0.6	1.0	0.9	0.4	0.2	0.1	0.2	0.3	0.7	0.4	0.7	0.5
1959	0.4	0.5	0.6	0.6	0.1	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.4
1960	0.5	0.7	0.8	0.4	0.3	0.4	0.2	0.2	0.5	0.5	0.4	0.5	0.4
1961	0.6	0.6	0.7	0.6	0.4	0.2	0.2	0.2	0.7	1.1	1.1	0.5	0.6
1962	0.5	1.0	1.3	0.4	0.3	0.2	0.2	0.4	0.5	0.5	1.0	0.8	0.6
1963	0.6	0.4	0.6	0.4	0.4	0.2	0.1	0.2	0.7	0.5	0.8	0.5	0.5
1964	0.7	0.7	0.7	0.4	0.2	0.1	0.2	0.3	0.5	0.4	0.5	0.7	0.5
1965	0.8	0.6	0.5	0.5	0.2	0.3	0.1	0.1	0.3	0.3	0.4	0.4	0.4
1966	0.8	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.5	0.3	0.8	0.8	0.4
1967	0.5	0.7	0.8	0.9	0.5	0.3	0.1	0.2	0.5	0.3	0.4	0.9	0.5
1968	0.8	0.6	0.7	0.7	0.5	0.3	0.1	0.2	0.3	0.3	0.7	0.5	0.5
1969	0.6	1.7	0.8	0.4	0.4	0.2	0.4	0.1	0.4	0.5	0.8	1.0	0.6
1970	0.5	0.5	0.5	0.5	0.4	0.2	0.1	0.2	0.2	0.6	0.7	0.9	0.5
1971	0.5	0.6	0.5	0.4	0.3	0.2	0.1	0.2	0.3	0.5	0.6	0.7	0.4
1972	0.4	0.8	0.7	0.4	0.5	0.3	0.2	0.2	0.6	0.6	0.9	0.8	0.5
1973	0.5	1.3	1.1	0.5	0.4	0.3	0.2	0.3	0.2	0.6	0.3	0.8	0.5
1974	0.6	0.9	0.6	0.3	0.4	0.3	0.1	0.2	0.5	0.4	0.8	0.7	0.5
1975	0.8	0.6	0.8	0.6	0.3	0.3	0.3	0.2	0.3	0.5	0.5	1.1	0.5
MEAN	0.7	0.7	0.7	0.5	0.3	0.2	0.2	0.2	0.4	0.5	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 29

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	2.3	3.2	2.5	1.3	1.1	1.1	2.4	3.0	2.6	2.3	2.8
1957	2.8	2.4	3.0	2.7	2.0	1.0	0.7	1.2	0.9	2.3	2.2	3.2
1958	2.9	3.1	3.3	4.0	2.3	1.2	0.6	1.2	1.8	2.6	2.2	2.8
1959	1.5	2.2	2.8	2.0	0.9	1.0	1.4	1.8	1.9	2.8	2.8	2.8
1960	2.1	2.4	4.1	2.2	1.3	2.4	1.4	1.4	2.2	3.0	2.3	3.2
1961	3.4	3.5	2.6	2.3	2.4	0.7	1.0	0.8	3.0	3.8	3.0	1.9
1962	2.6	3.2	4.2	2.2	1.3	1.2	1.1	2.7	2.9	2.6	3.1	3.4
1963	2.4	2.3	2.5	1.4	2.2	1.6	0.6	1.4	2.4	2.5	2.8	2.0
1964	3.2	2.8	2.6	2.1	1.1	0.7	1.7	1.7	2.5	1.9	2.2	2.6
1965	2.8	2.7	2.2	1.7	1.0	2.3	0.7	0.8	1.5	2.0	2.0	1.8
1966	3.0	2.1	1.7	2.1	1.2	1.2	1.0	1.1	2.2	1.1	2.4	2.9
1967	3.0	2.8	3.3	3.6	3.2	2.0	0.6	1.3	2.7	2.5	2.1	3.4
1968	2.9	3.2	3.5	2.4	2.1	1.9	0.7	1.1	1.5	2.2	3.3	2.1
1969	1.9	4.4	3.3	2.3	2.4	1.0	2.0	0.7	2.2	2.2	2.9	3.4
1970	1.9	2.7	2.4	2.3	1.9	1.3	0.6	2.5	1.1	2.5	2.7	3.2
1971	2.2	2.5	3.2	2.7	1.2	0.8	0.7	1.9	1.2	2.4	2.6	2.8
1972	1.8	4.1	2.7	2.3	2.8	2.4	0.9	1.3	2.8	2.6	3.1	3.2
1973	2.6	3.7	3.6	2.9	1.6	1.4	1.3	1.3	1.9	3.0	1.7	3.3
1974	2.2	3.5	2.9	2.3	1.6	1.4	0.7	1.1	2.2	1.5	3.2	3.0
1975	3.3	2.3	2.7	3.5	2.5	2.1	2.4	2.0	1.7	2.5	3.1	3.7

LARGEST HS(METRES) FOR STATION 29 = 4.5

STATION 30 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4233	8406	5727	3256	859	675	68	5	.	.	23229
0.50 - 0.99	.	210	1622	1163	434	306	90	3	1	5	3834
1.00 - 1.49	.	.	6	58	107	11	.	.	.	.	182
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4233	8616	7355	4477	1406	992	158	8	1	5	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.83 ANGLE CLASS % = 27.3

STATION 30 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	807	1185	.	.	2347	1784	730	56	32	1528	8469
0.50 - 0.99	.	600	1377	302	95	639	195	46	54	251	3559
1.00 - 1.49	.	.	82	629	379	400	174	37	13	11	1725
1.50 - 1.99	.	.	.	25	198	434	83	41	3	.	784
2.00 - 2.49	.	.	.	.	42	143	87	37	5	3	317
2.50 - 2.99	.	.	.	.	.	11	15	18	5	1	50
3.00 - 3.49	.	.	.	.	.	.	.	10	3	1	14
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	807	1785	1459	956	3061	3411	1284	245	115	1795	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 3.33 ANGLE CLASS % = 14.9

STATION 30 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	415	424	.	.	908	371	10	8	29	1209	3374
0.50 - 0.99	.	388	735	59	83	342	47	17	22	215	1935
1.00 - 1.49	.	.	97	470	95	123	59	10	11	112	977
1.50 - 1.99	.	.	.	27	174	147	22	2	1	94	467
2.00 - 2.49	.	.	.	.	53	261	59	8	.	58	439
2.50 - 2.99	.	.	.	.	1	66	138	25	.	18	248
3.00 - 3.49	.	.	.	.	.	3	27	30	6	8	74
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	415	812	829	556	1314	1313	392	123	70	1715	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 4.04 ANGLE CLASS % = 7.6

STATION 30 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	462	578			446	554	234	39	32	234	2579
0.50 - 0.99	.	412	973	106	53	328	130	51	27	347	2427
1.00 - 1.49	.	.	131	643	177	196	78	23	15	234	1497
1.50 - 1.99	.	.	.	58	342	273	54	.	3	114	844
2.00 - 2.49	.	.	.	.	107	619	138	8	1	23	896
2.50 - 2.99	.	.	.	.	1	157	212	70	15	8	463
3.00 - 3.49	.	.	.	.	.	3	47	97	34	8	189
3.50 - 3.99	.	.	.	.	.	.	.	15	51	8	74
4.00 - 4.49	.	.	.	.	.	.	.	.	6	8	14
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	462	990	1104	807	1126	2130	893	303	184	985	

AVERAGE HS(M) = 1.12 LARGEST HS(M) = 4.50 ANGLE CLASS % = 9.0

STATION 30 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	569	853	11		537	812	138	17	.	.	2937
0.50 - 0.99	.	340	1355	444	201	1842	260	37	.	.	4479
1.00 - 1.49	.	.	90	566	516	1254	256	32	.	.	2716
1.50 - 1.99	.	.	.	10	184	758	284	73	5	.	1314
2.00 - 2.49	.	.	.	.	53	213	167	71	5	.	509
2.50 - 2.99	.	.	.	.	1	11	29	49	5	.	95
3.00 - 3.49	.	.	.	.	.	.	1	11	3	.	15
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	569	1193	1456	1020	1494	4890	1135	291	18	0	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 3.56 ANGLE CLASS % = 12.1

STATION 30 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

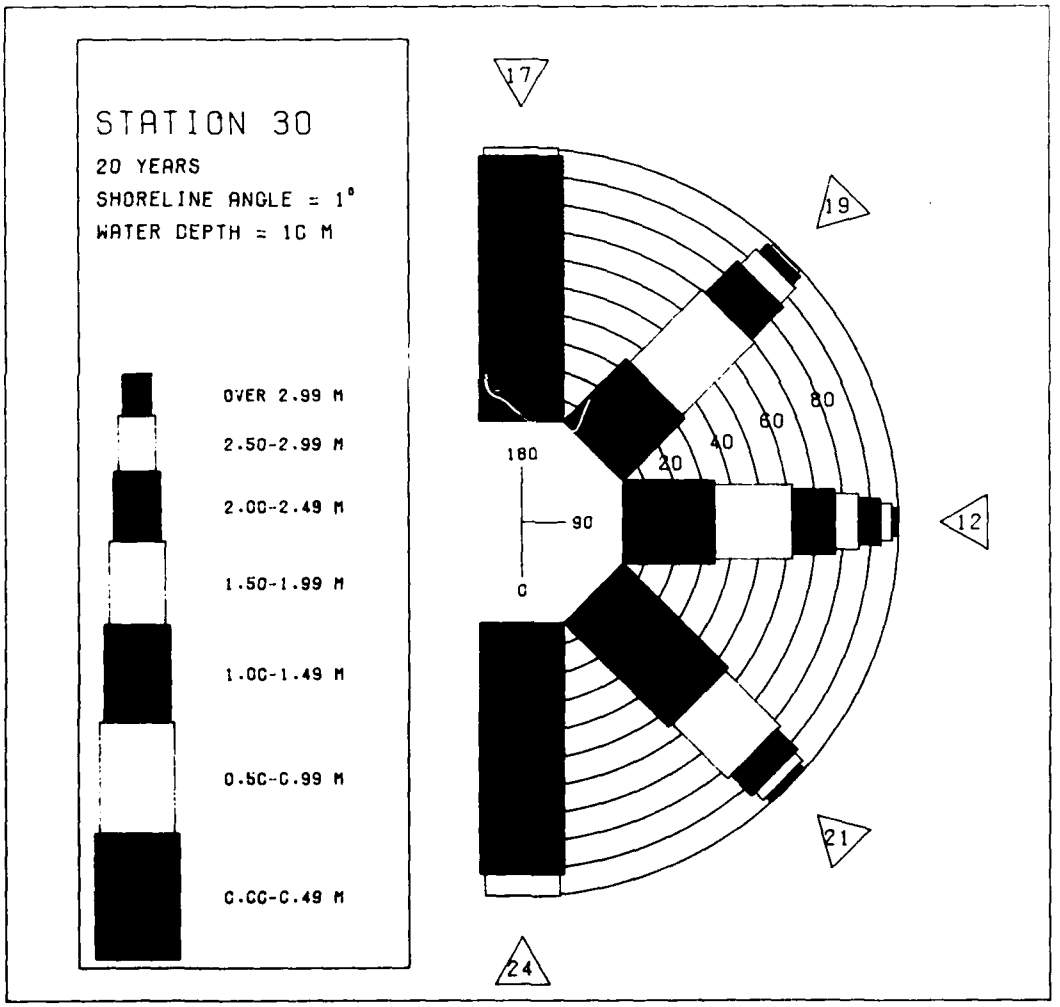
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1943	3903	4228	4861	2708	1492	.	.	.	.	19135
0.50 - 0.99	.	65	768	677	527	528	.	.	.	.	2565
1.00 - 1.49	.	.	1	15	17	.	.	.	.	.	33
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1943	3968	4997	5553	3252	2020	0	0	0	0	

AVERAGE HS(M) = 0.23 LARGEST HS(M) = 1.22 ANGLE CLASS % = 21.7

STATION 30 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	843	1535	996	811	780	569	118	12	9	297	5970
0.50 - 0.99	.	201	682	275	139	398	75	15	10	81	1876
1.00 - 1.49	.	.	41	238	129	198	56	10	4	35	711
1.50 - 1.99	.	.	.	12	90	161	44	13	1	20	341
2.00 - 2.49	.	.	.	.	25	123	45	12	1	8	214
2.50 - 2.99	.	.	.	.	.	24	39	16	2	2	83
3.00 - 3.49	.	.	.	.	.	.	7	15	4	1	27
3.50 - 3.99	.	.	.	.	.	.	.	2	5	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	843	1736	1719	1336	1163	1473	384	95	36	445	

AVE HS(M) = 0.49 LARGEST HS(M) = 4.50 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 30

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.7	0.9	0.7	0.5	0.3	0.3	0.2	0.3	0.5	0.7	0.6	0.5	0.6
1957	0.5	0.6	0.7	0.3	0.3	0.2	0.2	0.2	0.3	0.5	0.4	0.6	0.4
1958	0.8	0.5	0.9	0.9	0.4	0.3	0.2	0.2	0.3	0.7	0.4	0.6	0.5
1959	0.4	0.4	0.6	0.6	0.2	0.3	0.2	0.3	0.3	0.7	0.6	0.7	0.4
1960	0.4	0.6	0.7	0.4	0.3	0.5	0.2	0.2	0.5	0.5	0.4	0.4	0.4
1961	0.5	0.5	0.6	0.5	0.4	0.3	0.3	0.2	0.7	1.1	1.0	0.5	0.5
1962	0.5	0.9	1.2	0.4	0.3	0.2	0.2	0.5	0.5	0.5	0.9	0.8	0.6
1963	0.5	0.4	0.6	0.3	0.4	0.2	0.2	0.2	0.7	0.4	0.9	0.4	0.4
1964	0.7	0.6	0.6	0.4	0.3	0.2	0.3	0.3	0.6	0.4	0.4	0.7	0.4
1965	0.7	0.5	0.4	0.4	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.3	0.4
1966	0.7	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.5	0.3	0.8	0.7	0.4
1967	0.4	0.6	0.7	0.8	0.6	0.4	0.3	0.4	0.6	0.4	0.4	0.8	0.5
1968	0.6	0.5	0.6	0.6	0.4	0.3	0.1	0.2	0.3	0.3	0.7	0.5	0.4
1969	0.6	1.6	0.7	0.4	0.4	0.2	0.4	0.2	0.4	0.4	0.8	0.9	0.6
1970	0.4	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.6	0.7	0.8	0.5
1971	0.4	0.6	0.5	0.4	0.4	0.2	0.2	0.2	0.3	0.5	0.6	0.6	0.4
1972	0.4	0.8	0.9	0.5	0.6	0.5	0.3	0.4	0.6	0.6	0.8	0.8	0.6
1973	0.4	1.2	1.0	0.5	0.4	0.3	0.3	0.3	0.3	0.5	0.4	0.9	0.5
1974	0.5	0.8	0.8	0.6	0.4	0.4	0.2	0.3	0.5	0.3	0.7	0.7	0.5
1975	0.8	0.5	0.7	0.6	0.3	0.3	0.4	0.2	0.3	0.5	0.5	1.1	0.5
MEAN	0.6	0.7	0.7	0.5	0.4	0.3	0.2	0.3	0.4	0.5	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 30

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	2.2	3.1	2.8	1.3	1.3	1.4	2.3	3.0	2.6	2.3	2.7
1957	2.8	2.3	2.9	2.7	1.8	1.4	0.9	1.1	0.9	2.1	2.2	3.1
1958	2.9	3.2	3.3	3.7	2.3	0.9	0.7	1.2	1.4	2.6	2.2	2.8
1959	1.9	2.2	3.0	2.1	0.8	1.1	1.5	1.7	1.7	3.1	2.6	2.6
1960	2.1	2.7	4.0	2.2	1.4	2.3	1.7	1.4	2.5	2.9	2.3	2.9
1961	3.3	3.4	2.7	2.3	2.6	1.0	1.0	0.8	3.1	3.6	2.8	1.9
1962	2.5	3.1	4.1	2.2	1.3	1.2	1.1	2.6	2.6	2.6	2.7	3.4
1963	2.2	2.0	2.4	1.4	2.2	1.4	0.7	1.7	2.3	2.4	2.9	2.1
1964	3.2	2.4	2.5	2.1	1.1	0.7	1.3	1.7	2.5	1.9	2.5	2.2
1965	2.7	2.8	2.0	1.7	1.0	2.3	0.9	0.8	1.1	2.1	2.0	1.9
1966	2.7	2.2	1.7	1.9	1.3	1.5	1.1	1.1	2.4	1.2	2.7	3.0
1967	3.1	2.7	3.2	3.3	3.2	1.9	0.8	1.2	2.6	2.3	2.0	3.2
1968	2.6	2.9	3.3	2.2	2.3	1.9	0.7	0.8	1.5	2.2	3.3	2.2
1969	2.2	4.2	3.2	2.4	2.3	0.9	2.0	1.0	1.9	2.0	2.7	3.5
1970	1.8	2.8	2.2	2.1	2.1	1.1	1.0	2.3	1.0	2.5	2.5	3.5
1971	2.1	2.6	3.6	2.7	1.3	0.8	1.0	1.7	1.2	2.4	2.6	2.7
1972	1.5	4.1	2.7	2.2	2.7	2.5	0.9	1.2	2.9	2.6	3.0	3.3
1973	2.7	3.6	3.1	3.0	1.7	1.6	1.2	1.4	1.9	3.1	1.7	3.6
1974	2.0	3.2	3.0	2.4	1.7	1.5	0.6	1.0	2.0	1.2	3.0	3.1
1975	3.3	2.3	2.8	3.3	2.3	2.1	2.3	1.9	1.6	2.5	2.9	3.7

LARGEST HS(METRES) FOR STATION 30 = 4.5

STATION 31 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2717	6377	4840	3353	1435	2203	1344	164	138	6	22577
0.50 - 0.99	.	343	2239	1451	508	306	17	8	18	6	4896
1.00 - 1.49	.	.	13	99	78	29	3	.	.	.	222
1.50 - 1.99	.	.	.	.	1	1	.	.	.	.	2
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2717	6720	7092	4903	2022	2539	1364	172	156	12	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.56 ANGLE CLASS % = 27.7

STATION 31 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	672	1028			1806	1991	525	11	47		6080
0.50 - 0.99	.	598	1449	297	124	506	383	87	112	22	3578
1.00 - 1.49	.	.	131	621	424	561	191	71	29	6	2034
1.50 - 1.99	.	.	.	29	246	426	159	41	15	10	926
2.00 - 2.49	.	.	.	.	46	177	100	20	10	1	354
2.50 - 2.99	.	.	.	.	.	23	11	22	3	3	62
3.00 - 3.49	.	.	.	.	.	.	1	8	1	1	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	672	1626	1580	947	2646	3684	1370	260	217	44	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 3.75 ANGLE CLASS % = 13.1

STATION 31 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	355	431			655	1678	954	47	121	2453	6694
0.50 - 0.99	.	402	816	61	85	2058	1699	63	244	1351	6982
1.00 - 1.49	.	.	133	515	99	655	612	163	289	248	2734
1.50 - 1.99	.	.	.	41	210	254	198	22	128	99	952
2.00 - 2.49	.	.	.	.	56	306	142	27	61	6	598
2.50 - 2.99	.	.	.	.	3	58	131	30	22	1	245
3.00 - 3.49	.	.	.	.	.	.	22	34	11	1	68
3.50 - 3.99	.	.	.	.	.	.	.	13	3	1	17
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	355	833	952	617	1108	5009	3958	419	879	4161	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 4.16 ANGLE CLASS % = 18.3

STATION 31 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	350	426			465	350	130	75	35	59	1890
0.50 - 0.99	.	494	870	94	34	337	104	51	49	412	2445
1.00 - 1.49	.	.	195	627	133	160	61	22	35	284	1517
1.50 - 1.99	.	.	.	58	319	287	20	1	10	224	919
2.00 - 2.49	.	.	.	.	94	530	143	3	6	47	823
2.50 - 2.99	.	.	.	.	1	118	193	63	8	27	410
3.00 - 3.49	.	.	.	.	.	3	37	82	27	6	155
3.50 - 3.99	.	.	.	.	.	.	3	8	23	17	51
4.00 - 4.49	.	.	.	.	.	.	.	.	1	11	12
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	350	920	1065	779	1046	1785	691	305	194	1087	

AVERAGE HS(M) = 1.16 LARGEST HS(M) = 4.45 ANGLE CLASS % = 8.2

STATION 31 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	355	561	6	.	359	953	114	17	.	.	2365
0.50 - 0.99	.	314	1108	436	184	1269	477	66	8	.	3862
1.00 - 1.49	.	.	111	655	448	840	402	119	13	.	2588
1.50 - 1.99	.	.	.	20	227	600	254	109	25	1	1236
2.00 - 2.49	.	.	.	.	59	181	119	104	51	1	515
2.50 - 2.99	.	.	.	.	.	17	39	47	27	3	133
3.00 - 3.49	.	.	.	.	.	.	.	13	5	.	18
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	355	875	1225	1111	1277	3860	1405	475	129	5	

AVERAGE HS(M) = 0.98 LARGEST HS(M) = 3.44 ANGLE CLASS % = 10.7

STATION 31 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

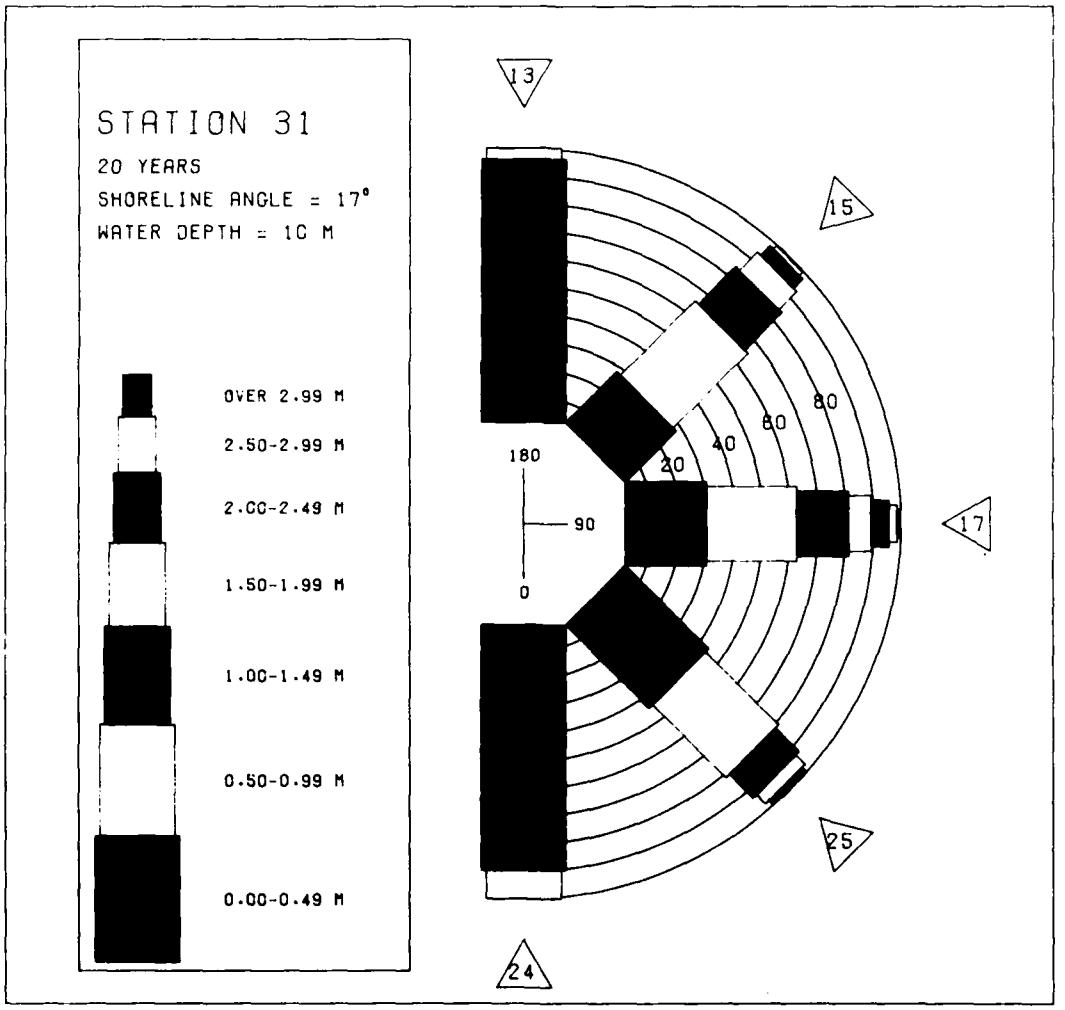
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1083	2388	2842	4573	2156	574	.	.	.	.	13616
0.50 - 0.99	.	85	799	645	280	316	.	.	.	.	2125
1.00 - 1.49	.	.	1	32	25	.	.	.	.	.	58
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1083	2473	3642	5250	2461	890	0	0	0	0	

AVERAGE HS(M) = 0.23 LARGEST HS(M) = 1.38 ANGLE CLASS % = 15.8

STATION 31 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	553	1121	768	792	687	775	306	31	34	252	5319
0.50 - 0.99	.	223	728	298	121	479	283	27	43	179	2386
1.00 - 1.49	.	.	58	255	120	224	127	39	36	53	912
1.50 - 1.99	.	.	.	14	100	157	63	17	17	33	401
2.00 - 2.49	.	.	.	.	25	119	50	15	13	5	227
2.50 - 2.99	.	.	.	.	.	21	37	16	6	3	83
3.00 - 3.49	.	.	.	.	.	.	6	13	4	1	24
3.50 - 3.99	.	.	.	.	.	.	.	2	2	2	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	553	1344	1554	1359	1053	1775	877	160	155	529	

AVE HS(M) = 0.56 LARGEST HS(M) = 4.45 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 31

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.6	0.9	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.9	0.6	0.7	0.7
1957	0.4	0.5	1.4	0.6	0.5	0.4	0.4	0.4	0.5	0.6	0.6	0.8	0.6
1958	0.9	0.4	1.0	0.9	0.6	0.9	0.4	0.4	0.3	0.8	0.5	0.5	0.6
1959	0.4	0.4	0.6	0.8	0.2	0.3	0.3	0.5	0.3	0.9	1.2	0.7	0.5
1960	0.3	0.7	0.7	0.5	0.4	0.6	0.3	0.4	0.5	0.5	0.5	0.4	0.5
1961	0.5	0.6	0.6	0.6	0.5	0.5	0.4	0.3	1.0	1.4	0.8	0.5	0.6
1962	0.5	0.9	1.1	0.6	0.3	0.2	0.3	0.5	0.5	0.5	0.9	0.7	0.6
1963	0.5	0.4	0.6	0.3	0.6	0.3	0.3	0.3	0.9	0.5	0.9	0.3	0.5
1964	0.6	0.5	0.6	0.5	0.3	0.2	0.5	0.4	0.8	0.5	0.4	0.6	0.5
1965	0.7	0.6	0.4	0.5	0.2	0.5	0.4	0.3	0.3	0.4	0.5	0.4	0.4
1966	0.6	0.3	0.4	0.4	0.5	0.5	0.3	0.2	0.6	0.3	0.9	0.7	0.5
1967	0.4	0.6	0.7	0.7	0.7	0.9	0.6	0.5	0.7	0.6	0.4	0.7	0.6
1968	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.4	0.3	0.3	0.6	0.4	0.5
1969	0.6	1.4	0.6	0.5	0.5	0.3	0.6	0.3	0.5	0.4	0.9	0.8	0.6
1970	0.3	0.7	0.5	0.5	0.7	0.5	0.5	0.5	0.3	0.6	0.6	0.7	0.5
1971	0.4	0.7	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.6	0.5	0.5	0.4
1972	0.4	1.0	1.1	0.6	0.9	0.8	0.6	0.5	0.6	0.7	0.8	0.7	0.7
1973	0.4	1.1	0.9	0.6	0.7	0.4	0.4	0.4	0.3	0.6	0.4	1.0	0.6
1974	0.5	0.7	1.1	0.9	0.4	0.4	0.3	0.4	0.7	0.3	0.7	0.8	0.6
1975	0.8	0.5	0.6	0.5	0.3	0.5	0.6	0.2	0.3	0.4	0.5	1.5	0.6
MEAN	0.6	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.5	0.6	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 31

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	2.4	3.0	3.1	1.7	1.3	1.6	2.0	3.2	2.7	2.4	2.8
1957	2.6	2.4	3.3	2.9	1.9	2.0	1.2	1.1	1.2	2.0	2.5	3.0
1958	2.9	3.1	3.4	3.4	2.3	1.5	1.0	1.4	1.4	2.5	2.4	2.5
1959	2.3	2.2	3.1	2.3	0.9	1.2	1.9	2.0	1.5	3.1	2.6	2.5
1960	2.1	2.6	3.7	2.1	1.1	2.3	2.1	1.9	2.2	2.8	2.5	2.9
1961	3.2	3.6	2.9	2.3	2.8	1.5	1.1	0.9	3.3	3.5	2.6	2.0
1962	2.2	2.9	4.0	2.3	1.3	1.4	1.1	2.1	2.6	2.7	2.7	3.3
1963	2.4	2.2	2.4	1.6	2.2	1.2	0.9	2.0	2.6	2.4	3.0	2.4
1964	3.0	2.6	2.6	2.2	1.3	0.9	1.2	2.0	2.6	1.6	2.5	2.0
1965	2.6	2.9	2.4	2.0	0.7	2.4	1.0	0.8	1.0	2.1	1.7	1.9
1966	2.7	2.2	1.6	2.4	1.6	1.7	1.2	1.1	2.1	1.3	2.5	3.1
1967	2.4	2.5	2.9	2.7	3.4	1.9	1.1	1.2	2.6	1.7	1.8	3.1
1968	2.5	2.7	3.5	2.0	2.3	1.9	0.8	0.8	1.6	1.6	3.4	2.4
1969	2.2	3.5	3.2	2.2	2.0	1.0	2.0	1.3	1.9	1.7	2.8	3.5
1970	1.5	2.9	2.7	2.3	2.0	1.2	1.5	2.3	1.1	2.3	2.5	3.9
1971	2.5	2.6	3.5	2.5	1.9	0.9	1.2	1.3	1.1	2.3	2.6	2.3
1972	1.6	4.2	2.9	1.9	2.3	2.8	1.1	1.2	3.1	2.5	2.9	3.5
1973	2.8	3.3	2.8	2.9	1.9	1.6	1.3	1.7	2.1	3.1	1.9	4.0
1974	2.5	3.2	3.0	2.3	1.8	1.4	0.9	1.2	1.8	1.1	3.0	3.1
1975	3.5	2.6	3.2	3.4	2.0	1.9	2.4	1.6	1.5	2.5	2.7	3.6

LARGEST HS(METRES) FOR STATION 31 = 4.5

STATION 32 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	5641	10049	7977	5106	1728	1117	123	39	11	.	31791
0.50 - 0.99	.	167	1048	672	285	203	.	.	.	.	2375
1.00 - 1.49	.	.	15	65	53	6	.	.	.	.	139
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5641	10216	9040	5843	2069	1326	123	39	11	0	

AVERAGE HS(M) = 0.14 LARGEST HS(M) = 1.87 ANGLE CLASS % = 34.3

STATION 32 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	506	646	.	.	1131	2809	2111	131	227	1134	8695
0.50 - 0.99	.	414	1127	251	68	1317	1557	198	390	37	5359
1.00 - 1.49	.	.	140	627	369	550	357	66	184	22	2315
1.50 - 1.99	.	.	.	20	205	340	177	51	53	11	857
2.00 - 2.49	.	.	.	.	51	205	126	32	6	.	420
2.50 - 2.99	.	.	.	.	1	20	15	17	.	1	54
3.00 - 3.49	.	.	.	.	.	1	3	1	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	506	1060	1267	898	1825	5242	4346	496	860	1205	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 3.27 ANGLE CLASS % = 17.7

STATION 32 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	242	321	.	.	254	422	140	75	41	102	1597
0.50 - 0.99	.	292	651	87	15	355	124	49	65	388	2026
1.00 - 1.49	.	.	111	497	111	176	54	20	30	306	1305
1.50 - 1.99	.	.	.	39	285	248	20	1	6	217	816
2.00 - 2.49	.	.	.	.	94	482	95	1	8	49	729
2.50 - 2.99	.	.	.	.	1	124	169	30	2	20	347
3.00 - 3.49	.	.	.	.	.	1	46	77	5	6	135
3.50 - 3.99	.	.	.	.	.	.	1	17	17	10	45
4.00 - 4.49	.	.	.	.	.	.	.	.	3	11	14
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	242	613	762	623	760	1808	649	270	178	1109	

AVERAGE HS(M) = 1.17 LARGEST HS(M) = 4.45 ANGLE CLASS % = 7.0

STATION 32 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	554	614	.	.	432	674	23	.	.	.	2297
0.50 - 0.99	.	518	1144	123	18	840	44	.	.	.	2687
1.00 - 1.49	.	.	184	751	169	539	130	.	.	.	1773
1.50 - 1.99	.	.	.	47	407	441	154	.	.	.	1049
2.00 - 2.49	.	.	.	.	114	799	319	15	.	.	1247
2.50 - 2.99	.	.	.	.	.	140	345	123	1	.	609
3.00 - 3.49	.	.	.	.	.	3	41	207	44	.	295
3.50 - 3.99	.	.	.	.	.	.	3	39	88	3	133
4.00 - 4.49	.	.	.	.	.	.	.	1	23	6	30
4.50 - 4.99	.	.	.	.	.	.	.	.	.	3	3
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	554	1132	1328	921	1140	3436	1059	385	156	12	

AVERAGE HS(M) = 1.26 LARGEST HS(M) = 4.58 ANGLE CLASS % = 10.1

STATION 32 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	660	987	15	.	213	473	6	.	.	.	2354
0.50 - 0.99	.	410	1668	795	224	1208	77	1	.	.	4383
1.00 - 1.49	.	.	143	918	720	1081	160	3	.	.	3025
1.50 - 1.99	.	.	.	35	253	1057	263	8	.	.	1616
2.00 - 2.49	.	.	.	.	44	318	229	65	1	.	657
2.50 - 2.99	.	.	.	.	1	18	34	39	5	.	97
3.00 - 3.49	.	.	.	.	.	1	1	10	3	.	15
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	660	1397	1826	1748	1455	4156	770	126	9	0	

AVERAGE HS(M) = 1.02 LARGEST HS(M) = 3.39 ANGLE CLASS % = 12.2

STATION 32 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

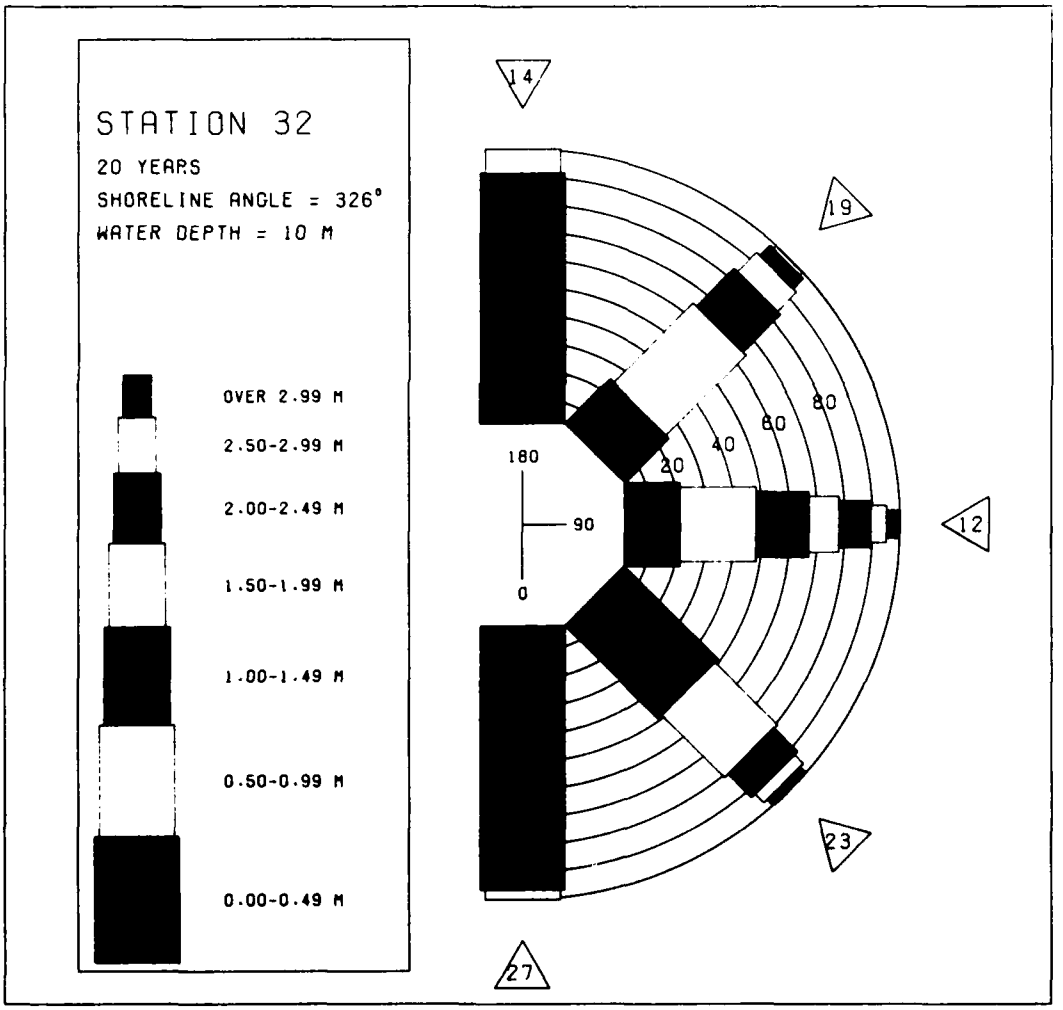
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2087	3649	3530	3713	1036	20	.	.	.	.	14035
0.50 - 0.99	.	51	975	2467	639	35	.	.	.	.	4167
1.00 - 1.49	.	.	6	263	112	3	.	.	.	.	384
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2087	3700	4511	6443	1793	58	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.81 ANGLE CLASS % = 18.6

STATION 32 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCUPRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	969	1626	1152	881	479	551	240	24	28	123	6073
0.50 - 0.99	.	185	661	459	125	396	180	24	45	42	2097
1.00 - 1.49	.	.	60	312	153	235	70	9	21	32	892
1.50 - 1.99	.	.	.	14	116	208	61	6	5	22	434
2.00 - 2.49	.	.	.	.	30	180	77	11	1	4	303
2.50 - 2.99	.	.	.	.	.	30	56	21	1	2	110
3.00 - 3.49	.	.	.	.	.	.	9	29	5	.	43
3.50 - 3.99	.	.	.	.	.	.	.	5	10	1	16
4.00 - 4.49	.	.	.	.	.	.	.	.	2	1	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	969	1811	1873	1646	903	1600	693	129	118	227	

AVE HS(M) = 0.56 LARGEST HS(M) = 4.58 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 32

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.9	0.9	0.8	0.5	0.3	0.2	0.2	0.4	0.6	0.9	0.6	0.6	0.7
1957	0.7	0.7	1.2	0.5	0.4	0.3	0.2	0.4	0.3	0.6	0.5	0.7	0.5
1958	1.0	0.7	1.2	0.9	0.4	0.7	0.2	0.3	0.4	0.8	0.5	0.8	0.7
1959	0.6	0.6	0.7	0.8	0.2	0.3	0.1	0.4	0.3	0.8	0.9	0.8	0.5
1960	0.7	0.8	1.0	0.4	0.3	0.5	0.2	0.3	0.5	0.6	0.4	0.6	0.5
1961	0.7	0.6	0.8	0.6	0.4	0.1	0.2	0.2	0.9	1.4	1.1	0.7	0.7
1962	0.5	1.1	1.5	0.4	0.3	0.2	0.2	0.5	0.5	0.5	1.2	0.9	0.7
1963	0.7	0.5	0.6	0.5	0.5	0.3	0.1	0.2	0.9	0.6	0.7	0.6	0.5
1964	0.8	0.8	0.7	0.4	0.3	0.2	0.4	0.3	0.7	0.6	0.6	0.8	0.5
1965	1.0	0.7	0.6	0.6	0.2	0.4	0.1	0.1	0.4	0.3	0.5	0.5	0.4
1966	1.0	0.5	0.4	0.4	0.3	0.3	0.1	0.1	0.5	0.3	0.9	0.9	0.5
1967	0.5	0.8	0.9	1.0	0.6	0.7	0.2	0.2	0.6	0.4	0.5	1.0	0.6
1968	0.9	0.7	0.7	0.7	0.5	0.4	0.4	0.3	0.3	0.4	0.8	0.6	0.6
1969	0.8	1.7	0.9	0.4	0.4	0.2	0.5	0.2	0.5	0.6	0.8	1.1	0.7
1970	0.7	0.6	0.6	0.6	0.5	0.3	0.1	0.4	0.3	0.6	0.7	1.1	0.5
1971	0.6	0.6	0.5	0.5	0.3	0.2	0.1	0.2	0.3	0.5	0.7	0.8	0.4
1972	0.5	0.9	0.7	0.5	0.6	0.4	0.1	0.2	0.6	0.7	1.0	0.9	0.6
1973	0.6	1.3	1.1	0.5	0.5	0.3	0.2	0.3	0.3	0.6	0.4	0.8	0.6
1974	0.6	1.0	0.6	0.4	0.4	0.3	0.1	0.2	0.6	0.5	0.9	0.9	0.6
1975	1.0	0.7	1.0	0.7	0.3	0.4	0.3	0.2	0.4	0.6	0.6	1.4	0.6
MEAN	0.8	0.8	0.8	0.6	0.4	0.3	0.2	0.3	0.5	0.6	0.7	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 32

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	2.4	3.3	2.6	2.0	1.0	1.4	2.6	3.2	2.9	2.1	2.8
1957	2.7	2.7	3.4	3.0	2.0	0.9	0.9	1.4	1.4	2.4	2.2	3.4
1958	2.8	2.6	3.6	4.1	2.4	1.4	0.6	1.3	2.2	2.7	2.3	3.0
1959	2.0	2.2	2.7	2.3	0.8	1.1	1.1	2.1	2.2	2.5	2.6	3.0
1960	2.3	2.4	4.2	2.5	1.0	2.7	1.2	1.9	2.1	3.2	2.5	3.5
1961	3.5	3.9	2.6	2.5	2.1	0.8	1.1	0.9	3.2	3.9	2.9	2.3
1962	2.7	3.4	4.6	2.1	1.8	1.2	1.1	2.8	3.4	2.9	3.9	3.6
1963	2.6	2.3	2.5	2.1	2.4	1.9	0.6	1.1	2.9	3.6	2.5	2.4
1964	3.5	2.9	2.8	2.2	1.3	0.8	2.0	1.9	2.7	2.0	1.9	2.8
1965	3.1	2.5	2.4	2.0	1.1	2.5	0.9	0.8	1.6	1.8	2.1	1.8
1966	3.0	1.8	1.7	2.4	1.3	1.2	1.1	1.2	2.3	1.2	2.3	2.8
1967	2.3	2.8	3.3	4.1	3.5	1.9	0.7	1.3	2.8	2.9	2.2	3.5
1968	3.0	3.5	3.6	2.6	2.2	1.8	0.9	1.3	1.7	2.1	3.3	2.2
1969	2.0	4.0	3.5	2.2	2.4	1.1	2.0	1.0	2.4	2.5	2.9	3.2
1970	2.3	2.6	2.7	2.3	1.8	1.4	0.6	2.4	1.3	2.5	2.9	3.3
1971	2.4	2.2	3.3	2.4	1.2	0.9	0.6	2.2	1.1	2.6	2.5	2.4
1972	2.4	4.0	2.6	2.3	3.1	2.2	1.0	1.5	2.8	2.3	2.6	3.0
1973	2.4	3.9	4.1	2.7	1.5	1.5	1.7	1.5	2.1	2.9	2.0	3.1
1974	2.6	3.9	2.8	2.5	1.5	1.4	0.8	1.3	2.2	2.2	3.7	3.0
1975	3.6	2.5	2.8	4.0	2.8	2.1	2.9	2.2	2.0	2.7	3.2	3.7

LARGEST HS(METRES) FOR STATION 32 = 4.6

STATION 33 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 98.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1605	3045	2298	2825	961	70	.	.	.	.	10804
0.50 - 0.99	.	260	1706	1291	547	393	.	.	.	.	4197
1.00 - 1.49	.	.	53	191	160	63	.	.	.	.	467
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1605	3305	4057	4307	1676	526	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.97 ANGLE CLASS % = 15.5

STATION 33 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 98.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	912	1404	.	.	604	482	20	.	.	.	3422
0.50 - 0.99	.	1293	3035	479	260	1459	189	10	1	.	6726
1.00 - 1.49	.	.	460	1565	564	2144	592	71	.	.	5496
1.50 - 1.99	.	.	1	118	598	1274	540	140	5	.	2676
2.00 - 2.49	.	.	.	.	73	355	364	162	11	.	965
2.50 - 2.99	.	.	.	.	.	17	87	124	37	.	265
3.00 - 3.49	.	.	.	.	.	.	.	18	34	5	57
3.50 - 3.99	.	.	.	.	.	.	.	.	3	1	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	912	2697	3496	2152	2099	5751	1792	525	91	6	

AVERAGE HS(M) = 1.05 LARGEST HS(M) = 3.57 ANGLE CLASS % = 19.5

STATION 33 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 98.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	621	968	.	.	1642	2316	414	42	42	1	6046
0.50 - 0.99	.	1062	1882	126	364	4856	1610	145	114	17	10176
1.00 - 1.49	.	.	337	1096	179	2138	1260	147	107	29	5323
1.50 - 1.99	.	.	.	107	468	720	809	34	123	.	2261
2.00 - 2.49	.	.	.	.	95	648	499	71	78	10	1401
2.50 - 2.99	.	.	.	.	.	88	325	114	42	3	572
3.00 - 3.49	.	.	.	.	.	.	27	109	56	5	197
3.50 - 3.99	.	.	.	.	.	.	.	23	65	35	123
4.00 - 4.49	.	.	.	.	.	.	.	.	15	15	30
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	621	2030	2219	1329	2748	10766	4974	685	642	121	

AVERAGE HS(M) = 0.99 LARGEST HS(M) = 5.23 ANGLE CLASS % = 26.2

STATION 33 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 98.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	725	1045			1031	470	386	5	39	299	4000
0.50 - 0.99	.	1026	1536	95	44	480	682	61	63	3129	7116
1.00 - 1.49	.	.	343	826	109	136	126	95	123	1497	3255
1.50 - 1.99	.	.	.	104	376	205	35	39	42	237	1038
2.00 - 2.49	.	.	.	.	121	451	97	5	11	39	724
2.50 - 2.99	.	.	.	.	1	92	138	44	.	22	297
3.00 - 3.49	.	.	.	.	.	1	22	42	8	5	78
3.50 - 3.99	.	.	.	.	.	.	1	10	5	6	22
4.00 - 4.49	.	.	.	.	.	.	.	.	5	5	10
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	725	2071	1879	1025	1682	1835	1487	301	296	5240	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 4.76 ANGLE CLASS % = 16.6

STATION 33 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 98.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	484	716			578	1332	999	145	27	5	4286
0.50 - 0.99	.	477	1190	390	165	1509	1103	325	15	11	5185
1.00 - 1.49	.	.	160	605	304	554	544	145	50	6	2348
1.50 - 1.99	.	.	.	23	172	308	236	49	22	.	810
2.00 - 2.49	.	.	.	.	23	102	118	27	.	.	270
2.50 - 2.99	.	.	.	.	.	6	15	11	1	.	33
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	484	1193	1350	1018	1242	3811	3015	702	95	22	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 2.86 ANGLE CLASS % = 13.0

STATION 33 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 98.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

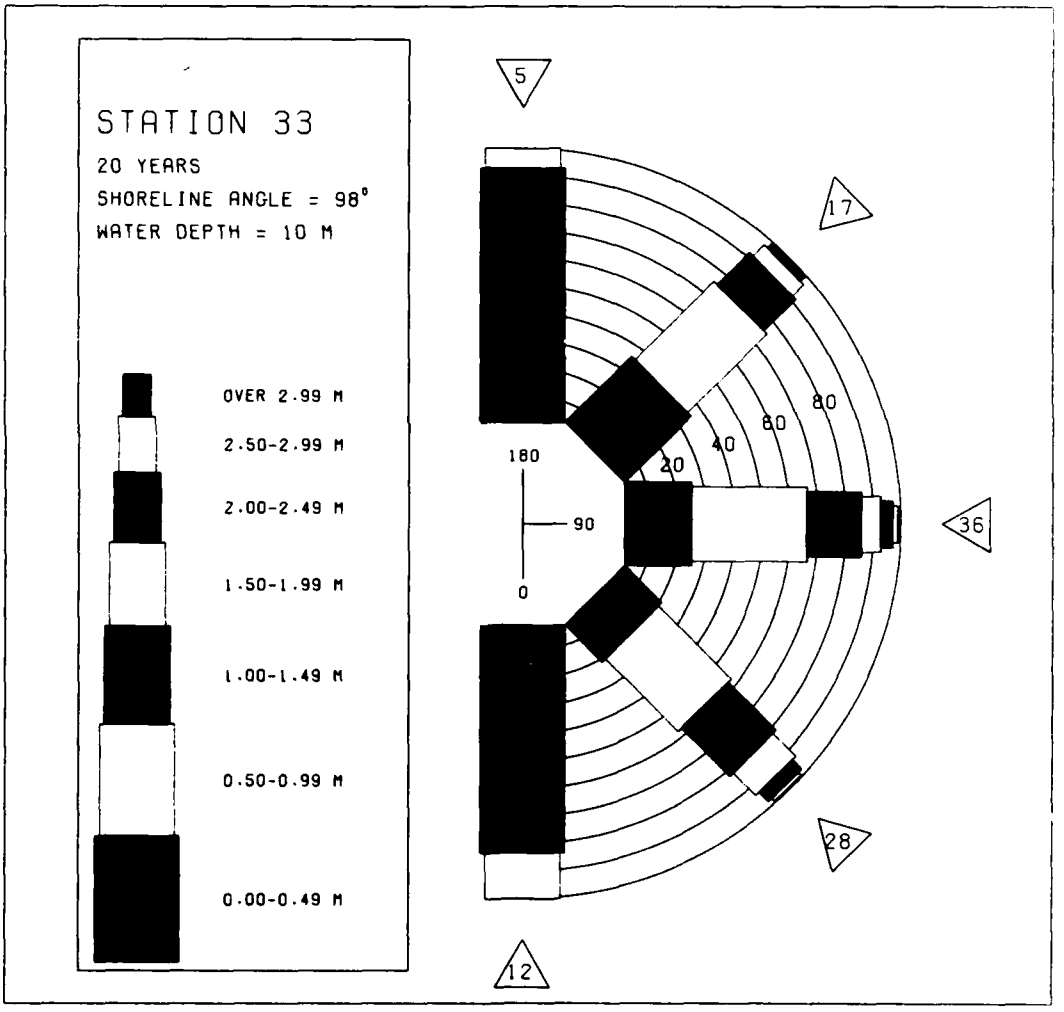
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	562	1160	1307	1274	595	549	.	.	.	.	5447
0.50 - 0.99	.	73	549	407	203	152	.	.	.	.	1384
1.00 - 1.49	.	.	10	25	29	.	.	.	.	.	64
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	562	1233	1866	1706	830	701	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.53 ANGLE CLASS % = 6.9

STATION 33 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 98.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	491	834	360	409	541	522	182	19	10	30	3398
0.50 - 0.99	.	419	990	279	158	885	358	54	19	315	3477
1.00 - 1.49	.	.	136	430	134	505	255	46	26	153	1685
1.50 - 1.99	.	.	.	35	162	250	162	26	19	23	677
2.00 - 2.49	.	.	.	.	31	155	107	26	10	4	333
2.50 - 2.99	.	.	.	.	.	20	56	29	8	2	115
3.00 - 3.49	.	.	.	.	.	.	4	17	9	1	31
3.50 - 3.99	.	.	.	.	.	.	.	3	7	4	14
4.00 - 4.49	.	.	.	.	.	.	.	.	2	2	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	491	1253	1486	1153	1026	2337	1124	220	110	534	

AVE HS(M) = 0.80 LARGEST HS(M) = 5.23 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 33

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.9	0.9	1.1	0.8	0.8	0.8	0.6	0.5	0.7	0.7	0.9	0.8
1957	0.7	0.7	0.9	0.9	0.7	0.5	0.7	0.5	0.6	0.6	1.1	1.4	0.8
1958	1.0	1.0	0.9	0.9	0.7	1.0	0.8	0.7	0.6	0.8	1.0	0.7	0.8
1959	1.1	1.0	1.0	0.8	0.6	0.6	0.8	0.5	0.4	0.9	1.3	0.9	0.8
1960	0.7	1.2	0.7	1.1	0.6	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.7
1961	0.9	0.9	0.7	1.1	0.8	0.9	0.6	0.6	0.8	0.7	0.5	0.9	0.8
1962	1.1	0.7	0.6	1.1	0.4	0.6	0.7	0.5	0.5	0.8	0.8	1.7	0.8
1963	1.3	1.2	1.3	1.1	1.2	1.0	1.0	1.0	0.8	0.9	1.3	1.0	1.1
1964	1.3	1.0	1.0	0.8	0.8	0.6	0.7	0.7	0.6	0.6	0.9	1.0	0.8
1965	0.7	0.9	0.6	0.5	0.5	0.6	0.7	0.6	0.4	0.9	1.0	0.7	0.7
1966	0.8	0.8	0.8	0.5	0.7	0.8	0.6	0.6	0.8	0.7	0.6	0.8	0.7
1967	0.9	0.9	0.6	0.5	1.0	0.8	0.9	0.8	0.6	0.7	0.8	0.7	0.8
1968	0.6	0.9	1.0	0.6	0.7	0.7	0.5	0.5	0.4	0.7	0.8	1.1	0.7
1969	0.9	0.5	0.7	0.9	0.9	0.5	0.5	0.7	0.4	0.6	1.0	1.0	0.7
1970	0.7	1.4	1.0	0.8	0.8	0.8	0.9	0.7	0.7	0.6	0.6	0.8	0.8
1971	0.9	1.2	1.1	0.9	1.0	0.6	0.8	0.6	0.4	0.6	0.6	0.8	0.8
1972	1.1	1.1	1.2	0.8	0.8	0.9	0.6	0.6	0.5	0.8	0.8	1.0	0.8
1973	1.1	0.7	0.7	1.1	1.0	0.8	0.7	0.6	0.5	0.7	1.6	1.8	0.9
1974	0.9	0.9	1.6	1.6	0.7	0.6	0.6	0.5	0.5	0.5	0.9	0.9	0.9
1975	0.8	0.7	0.7	0.8	0.3	0.6	0.8	0.3	0.4	0.5	1.0	1.4	0.7
MEAN	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.6	0.5	0.7	0.9	1.0	

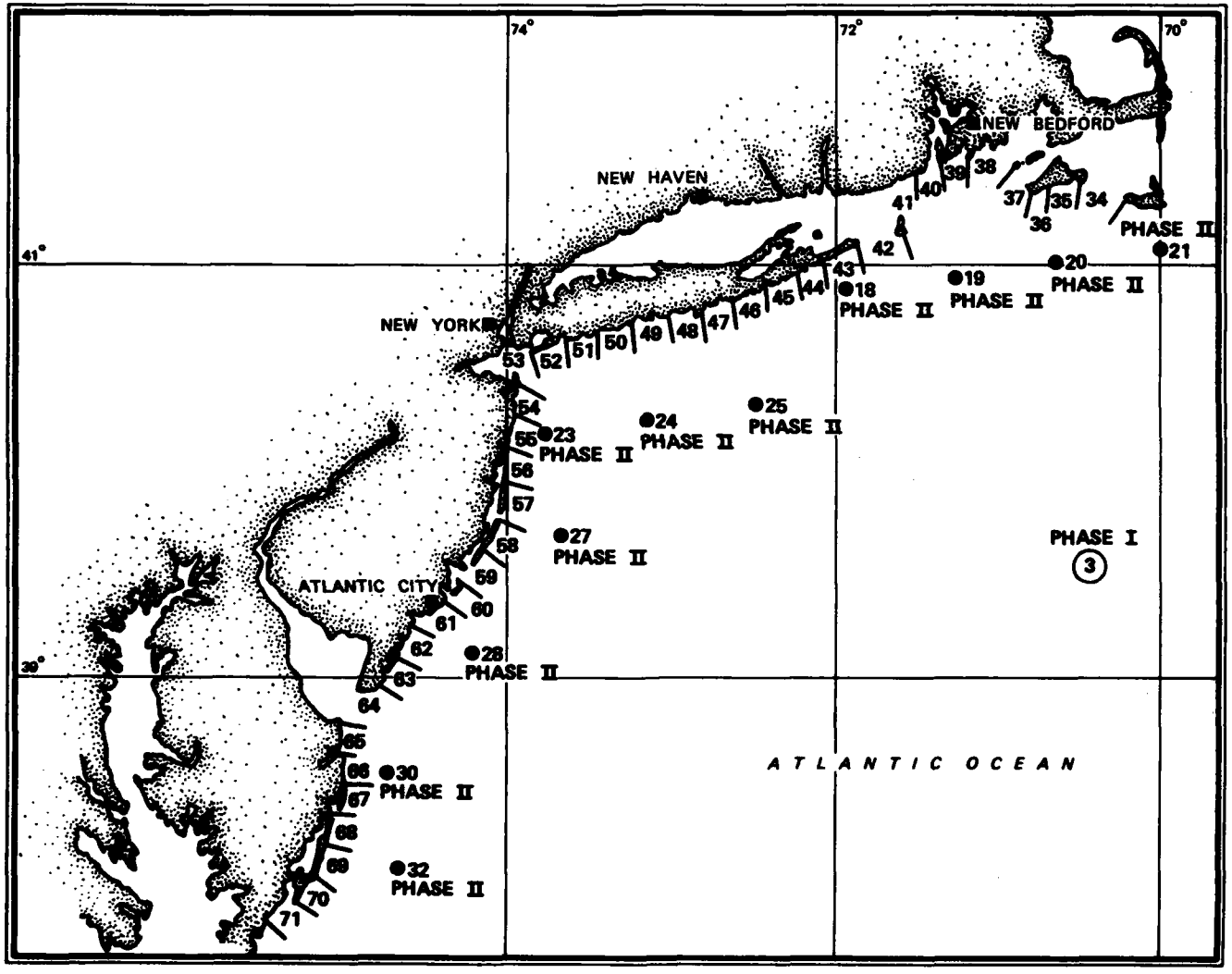
LARGEST HS(METRES) BY MONTH AND YEAR

STATION 33

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.6	3.1	2.7	3.7	2.1	2.2	2.8	1.4	1.5	1.7	2.7	2.9
1957	2.7	2.0	3.2	2.9	2.1	2.6	1.9	1.4	2.1	1.7	2.5	2.9
1958	2.8	3.8	3.2	2.6	1.7	2.0	1.6	2.3	2.1	1.9	2.5	2.2
1959	3.4	2.5	3.4	2.5	1.6	1.7	2.4	1.7	1.2	2.5	2.9	3.6
1960	2.5	4.1	2.3	3.0	1.4	1.7	2.8	1.9	2.5	2.6	2.4	2.6
1961	2.5	3.8	2.9	2.9	3.0	2.1	1.5	1.4	3.5	2.3	1.9	2.9
1962	3.3	2.6	2.7	3.0	2.0	1.6	2.1	2.0	2.0	2.7	2.7	4.4
1963	2.9	2.8	2.9	2.4	2.7	1.8	1.7	2.7	2.5	2.0	3.8	3.0
1964	3.3	2.9	2.5	2.5	2.3	1.5	1.7	2.2	2.5	2.0	2.8	2.5
1965	2.4	2.8	1.9	1.9	1.0	1.3	1.7	1.7	1.3	2.6	2.6	2.0
1966	3.9	2.8	2.1	1.3	2.4	2.4	2.1	2.4	2.4	2.2	2.7	3.4
1967	2.7	3.1	2.3	2.0	3.0	1.5	2.0	1.5	1.9	3.4	2.4	3.0
1968	2.2	2.1	3.6	2.7	2.1	2.2	1.3	1.4	1.7	2.0	3.3	3.4
1969	2.1	2.0	2.5	2.4	2.9	1.1	1.3	2.2	2.2	2.1	3.0	4.1
1970	2.6	3.5	2.7	3.9	2.1	1.7	1.9	1.8	2.8	2.3	2.5	3.8
1971	3.7	3.0	4.2	3.3	2.5	1.3	2.1	2.2	1.3	2.5	2.4	2.6
1972	2.7	4.1	3.3	1.8	2.4	3.2	1.5	1.8	3.6	2.6	4.4	3.6
1973	3.8	4.1	4.0	2.6	2.3	2.0	2.2	2.1	2.1	3.2	4.2	5.2
1974	2.8	4.1	4.1	3.3	2.3	1.9	1.8	2.3	2.5	2.2	2.7	2.9
1975	2.8	3.9	3.3	3.1	1.5	2.0	2.0	1.2	2.4	1.6	3.1	3.5

LARGEST HS(METRES) FOR STATION 33 = 5.2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NEW HAVEN
NEW YORK
ATLANTIC CITY
ATLANTIC OCEAN
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STATION 34 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 108.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1553	2999	2335	2939	870	59	.	.	.	.	10755
0.50 - 0.99	.	278	1714	1700	648	131	.	.	.	.	4471
1.00 - 1.49	.	.	53	232	210	35	.	.	.	.	530
1.50 - 1.99	.	.	.	.	10	.	.	.	.	.	10
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1553	3277	4102	4871	1738	225	0	0	0	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.78 ANGLE CLASS % = 15.8

STATION 34 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 108.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	900	1399	.	.	272	227	5	.	.	.	2803
0.50 - 0.99	.	1144	2809	427	128	776	44	1	.	.	5329
1.00 - 1.49	.	.	444	1480	561	1835	314	15	.	.	4650
1.50 - 1.99	.	.	.	124	598	1711	569	83	.	.	3085
2.00 - 2.49	.	.	.	.	109	483	458	159	5	.	1213
2.50 - 2.99	.	.	.	.	1	30	145	145	18	.	339
3.00 - 3.49	.	.	.	.	.	.	5	49	27	.	81
3.50 - 3.99	.	.	.	.	.	.	.	.	11	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	900	2543	3253	2031	1669	5062	1540	452	61	0	

AVERAGE HS(M) = 1.13 LARGEST HS(M) = 3.90 ANGLE CLASS % = 17.5

STATION 34 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 108.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	716	985	.	.	925	888	80	.	5	.	3599
0.50 - 0.99	.	1098	2070	160	330	2849	508	3	32	.	7050
1.00 - 1.49	.	.	350	1180	201	2032	922	61	34	.	4780
1.50 - 1.99	.	.	3	118	475	763	730	25	49	.	2163
2.00 - 2.49	.	.	.	.	87	665	497	56	42	.	1347
2.50 - 2.99	.	.	.	.	.	80	352	112	35	3	582
3.00 - 3.49	.	.	.	.	.	.	25	143	68	1	237
3.50 - 3.99	.	.	.	.	.	.	.	20	83	37	140
4.00 - 4.49	.	.	.	.	.	.	.	.	17	23	40
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	716	2083	2423	1458	2018	7277	3114	420	365	70	

AVERAGE HS(M) = 1.11 LARGEST HS(M) = 5.23 ANGLE CLASS % = 20.0

STATION 34 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 108.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	812	1194			1783	1861	715	42	46	321	6774
0.50 - 0.99	.	1187	1873	107	169	2590	1747	198	150	3169	11130
1.00 - 1.49	.	.	383	990	150	398	576	193	95	1367	4152
1.50 - 1.99	.	.	.	111	417	297	130	47	92	183	1277
2.00 - 2.49	.	.	.	.	123	518	130	22	39	49	881
2.50 - 2.99	.	.	.	.	1	83	171	51	6	18	330
3.00 - 3.49	.	.	.	.	.	.	30	42	5	6	83
3.50 - 3.99	.	.	.	.	.	.	1	17	2	2	29
4.00 - 4.49	.	.	.	.	.	.	.	.	5	5	10
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	812	2381	2256	1208	2643	5747	3500	612	444	5064	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.76 ANGLE CLASS % = 24.7

STATION 34 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 108.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	532	881	6		516	1374	1035	196	63	15	4618
0.50 - 0.99	.	571	1305	321	135	1173	1074	267	53	125	5044
1.00 - 1.49	.	.	183	645	308	422	359	112	119	15	2163
1.50 - 1.99	.	.	.	18	186	296	196	41	8	1	746
2.00 - 2.49	.	.	.	.	27	114	88	17	1	.	247
2.50 - 2.99	.	.	.	.	.	3	11	10	3	.	27
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	532	1452	1494	986	1172	3382	2763	664	247	154	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 3.27 ANGLE CLASS % = 12.9

STATION 34 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 108.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

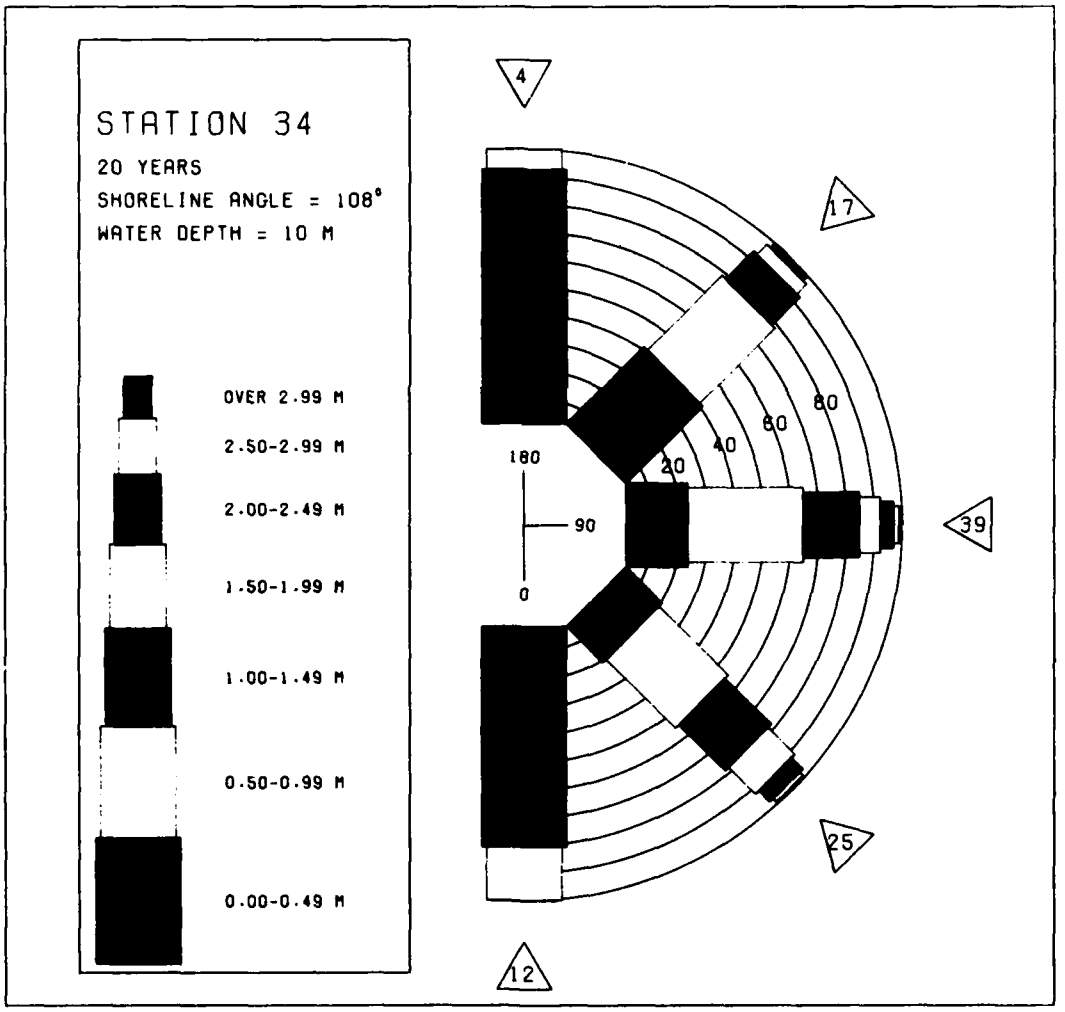
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	590	1218	1290	1062	600	710	.	.	.	.	5470
0.50 - 0.99	.	71	595	434	191	116	.	.	.	.	1407
1.00 - 1.49	.	.	10	29	18	.	.	.	.	.	57
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	590	1289	1895	1525	809	826	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.46 ANGLE CLASS % = 6.9

STATION 34 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 108.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	510	867	363	400	496	512	183	23	11	33	3398
0.50 - 0.99	.	435	1036	315	160	763	337	49	23	323	3441
1.00 - 1.49	.	.	142	455	145	472	217	38	24	138	1631
1.50 - 1.99	.	.	.	37	168	306	162	19	15	18	725
2.00 - 2.49	.	.	.	.	34	178	117	25	8	4	366
2.50 - 2.99	.	.	.	.	.	19	68	31	6	2	126
3.00 - 3.49	.	.	.	.	.	.	6	23	10	.	39
3.50 - 3.99	.	.	.	.	.	.	.	3	10	4	17
4.00 - 4.49	.	.	.	.	.	.	.	.	2	2	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	510	1302	1541	1207	1003	2250	1090	211	109	524	

AVE HS(M) = 0.81 LARGEST HS(M) = 5.23 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 34

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	1.0	0.9	1.1	0.8	0.8	0.9	0.6	0.5	0.6	0.8	0.9	0.8
1957	0.8	0.8	0.8	0.9	0.7	0.5	0.8	0.5	0.6	0.6	1.1	1.4	0.8
1958	1.0	1.1	0.9	0.9	0.6	0.9	0.8	0.7	0.6	0.8	1.0	0.8	0.8
1959	1.2	1.0	1.1	0.8	0.6	0.7	0.8	0.5	0.4	0.9	1.2	0.9	0.8
1960	0.8	1.3	0.8	1.1	0.6	0.5	0.6	0.6	0.5	0.7	0.9	0.8	0.8
1961	0.9	0.9	0.8	1.1	0.8	0.9	0.6	0.6	0.8	0.8	0.5	1.0	0.8
1962	1.2	0.7	0.7	1.1	0.4	0.6	0.7	0.5	0.5	0.8	0.8	1.7	0.8
1963	1.3	1.3	1.3	1.1	1.1	1.0	1.0	1.0	0.8	0.9	1.3	1.1	1.1
1964	1.3	1.1	1.0	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.9	1.0	0.9
1965	0.7	1.0	0.7	0.5	0.5	0.6	0.7	0.6	0.4	0.9	1.0	0.7	0.7
1966	0.8	0.8	0.8	0.5	0.7	0.8	0.7	0.7	0.8	0.7	0.6	0.9	0.7
1967	1.0	0.9	0.6	0.6	0.9	0.8	0.9	0.8	0.6	0.7	0.9	0.7	0.8
1968	0.6	1.0	1.0	0.6	0.7	0.7	0.5	0.5	0.4	0.7	0.8	1.2	0.7
1969	0.9	0.5	0.7	0.9	0.9	0.5	0.5	0.7	0.4	0.6	1.0	1.0	0.7
1970	0.8	1.5	1.0	0.8	0.8	0.8	0.9	0.7	0.7	0.6	0.6	0.9	0.8
1971	1.0	1.2	1.2	1.0	1.0	0.6	0.8	0.6	0.4	0.6	0.6	0.9	0.8
1972	1.2	1.2	1.2	0.8	0.8	0.8	0.6	0.6	0.5	0.8	0.9	1.0	0.8
1973	1.2	0.7	0.7	1.1	0.9	0.8	0.7	0.6	0.6	0.8	1.7	1.8	1.0
1974	1.0	0.9	1.7	1.6	0.7	0.6	0.6	0.5	0.5	0.5	0.9	0.9	0.9
1975	0.8	0.7	0.8	0.8	0.3	0.6	0.8	0.3	0.4	0.5	1.0	1.2	0.7
MEAN	0.9	1.0	0.9	0.9	0.7	0.7	0.7	0.6	0.5	0.7	0.9	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 34

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.6	3.3	2.7	3.7	2.1	2.2	2.8	1.4	1.3	1.9	2.8	2.9
1957	2.7	2.1	3.2	3.1	2.1	2.7	1.9	1.5	2.2	1.9	2.5	3.0
1958	2.8	3.8	3.1	2.7	1.7	2.0	1.7	2.3	2.2	2.1	2.5	2.2
1959	3.4	2.5	3.4	2.5	1.7	1.9	2.4	1.7	1.3	2.3	3.2	3.9
1960	2.6	4.3	2.2	3.0	1.5	1.7	2.3	1.9	2.5	2.8	2.4	2.6
1961	2.5	3.9	2.9	2.9	3.2	2.1	1.5	1.4	3.5	2.5	2.2	3.0
1962	3.3	2.6	2.7	3.0	2.0	1.7	2.1	2.1	2.0	2.7	2.8	4.3
1963	3.0	2.8	2.9	2.6	2.7	1.9	1.9	2.7	2.5	2.1	3.8	3.1
1964	3.5	2.9	2.6	2.6	2.3	1.5	1.7	2.2	2.5	2.1	2.8	2.6
1965	2.6	2.8	2.0	1.9	1.1	1.3	1.7	1.9	1.2	2.7	2.7	2.1
1966	3.9	2.8	2.1	1.3	2.5	2.4	2.1	2.4	2.3	2.4	2.7	3.7
1967	2.8	3.1	2.4	2.1	2.7	1.5	2.0	1.6	1.8	3.5	2.4	2.9
1968	2.3	2.3	3.6	2.7	2.0	2.2	1.5	1.4	1.7	2.1	3.3	3.7
1969	2.4	2.3	2.5	2.5	2.9	1.1	1.4	2.2	2.2	2.2	3.0	4.2
1970	2.6	3.5	2.7	3.9	2.1	1.7	1.9	1.9	2.9	2.4	2.3	3.9
1971	3.7	3.0	4.4	3.3	2.5	1.4	2.1	2.3	1.3	2.6	2.4	2.6
1972	2.9	4.1	3.4	1.8	2.4	3.1	1.5	1.8	3.6	2.6	4.5	3.6
1973	3.8	4.1	4.0	2.6	2.3	2.0	2.2	2.1	2.2	3.3	4.2	5.2
1974	3.0	4.3	4.2	3.4	2.3	1.9	1.8	2.3	2.5	2.2	2.8	2.9
1975	2.8	3.9	3.1	3.3	1.5	2.0	2.1	1.2	2.4	1.7	3.1	3.6

LARGEST HS(METRES) FOR STATION 34 = 5.2

STATION 35 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 83.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1947	3471	2385	2455	1033	419	3	.	.	.	11713
0.50 - 0.99	.	345	2055	1137	417	1110	.	.	.	.	5064
1.00 - 1.49	.	.	44	195	205	99	.	.	.	.	543
1.50 - 1.99	.	.	.	.	30	.	.	.	.	.	30
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1947	3816	4484	3787	1685	1628	3	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.96 ANGLE CLASS % = 17.4

STATION 35 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 83.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1141	1771	.	.	1565	1146	92	1	.	.	5716
0.50 - 0.99	.	1439	3417	569	477	2380	552	41	5	.	8880
1.00 - 1.49	.	.	448	1642	646	2299	574	30	3	.	5642
1.50 - 1.99	.	.	.	95	537	973	525	53	5	.	2188
2.00 - 2.49	.	.	.	.	66	352	355	107	17	.	897
2.50 - 2.99	.	.	.	.	.	18	56	63	23	.	160
3.00 - 3.49	.	.	.	.	.	.	3	15	17	5	40
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1141	3210	3865	2306	3291	7168	2157	311	73	5	

AVERAGE HS(M) = 0.92 LARGEST HS(M) = 3.71 ANGLE CLASS % = 23.5

STATION 35 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 83.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	718	995	.	.	3141	3595	1036	109	446	152	10192
0.50 - 0.99	.	908	1601	92	485	4700	2992	400	248	2934	14360
1.00 - 1.49	.	.	314	882	157	1526	1409	210	205	946	5649
1.50 - 1.99	.	.	.	87	357	424	521	70	159	179	1797
2.00 - 2.49	.	.	.	.	85	511	345	51	77	42	1111
2.50 - 2.99	.	.	.	.	.	54	224	102	32	18	430
3.00 - 3.49	.	.	.	.	.	.	20	77	37	11	145
3.50 - 3.99	.	.	.	.	.	.	1	20	41	27	89
4.00 - 4.49	.	.	.	.	.	.	.	.	10	10	20
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	3	3
TOTAL	718	1903	1915	1061	4225	10810	6548	1039	1255	4323	

AVERAGE HS(M) = 0.83 LARGEST HS(M) = 5.14 ANGLE CLASS % = 33.8

STATION 35 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 83.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	703	992			290	18	42			229	2274
0.50 - 0.99	.	862	1406	112	18	63	5	47	15	186	2714
1.00 - 1.49	.	.	260	773	106	32	15	11	3	23	1223
1.50 - 1.99	.	.	1	75	411	124	13	5	6	.	635
2.00 - 2.49	.	.	.	.	107	388	85	6	.	.	586
2.50 - 2.99	.	.	.	.	.	88	97	47	.	.	232
3.00 - 3.49	.	.	.	.	.	.	10	46	3	.	59
3.50 - 3.99	.	.	.	.	.	.	.	8	6	1	15
4.00 - 4.49	.	.	.	.	.	.	.	.	5	1	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	703	1854	1667	960	832	713	267	170	38	441	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 4.58 ANGLE CLASS % = 7.7

STATION 35 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 83.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	364	684	5		501	414	123	56	44	1	2192
0.50 - 0.99	.	463	1175	309	135	260	150	41	3	.	2536
1.00 - 1.49	.	.	150	636	331	388	97	25	3	17	1647
1.50 - 1.99	.	.	.	18	159	350	100	15	.	1	643
2.00 - 2.49	.	.	.	.	22	100	80	13	1	.	216
2.50 - 2.99	.	.	.	.	.	6	5	11	3	.	25
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	364	1147	1330	963	1148	1518	555	162	54	19	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.05 ANGLE CLASS % = 7.3

STATION 35 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 83.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

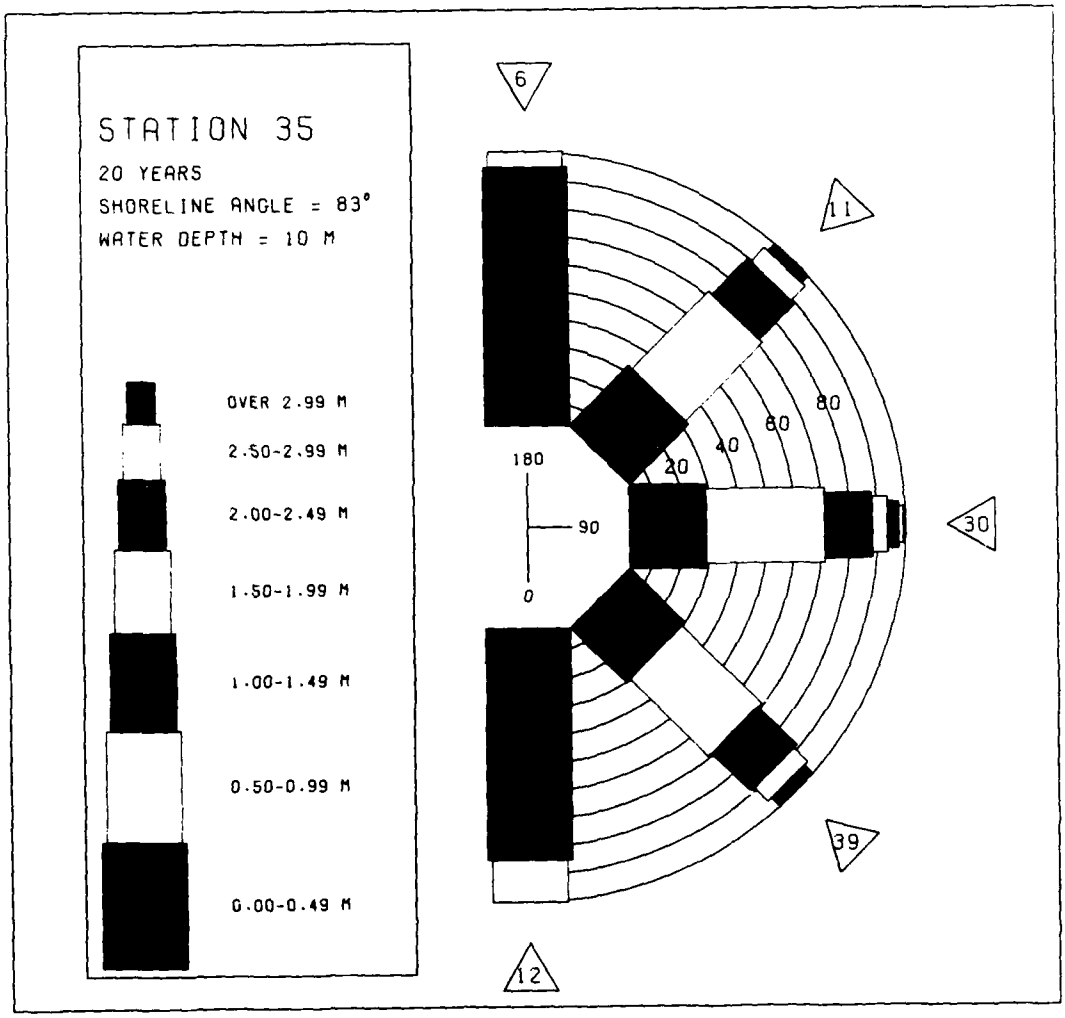
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	619	1291	1386	2024	804	87	.	.	.	.	6211
0.50 - 0.99	.	53	528	528	242	54	.	.	.	.	1405
1.00 - 1.49	.	.	6	17	22	.	.	.	.	.	45
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	619	1344	1920	2569	1071	141	0	0	0	0	

AVERAGE HS(M) = 0.28 LARGEST HS(M) = 1.77 ANGLE CLASS % = 7.7

STATION 35 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 83.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	549	920	377	447	733	568	129	16	49	38	3826
0.50 - 0.99	.	407	1018	275	177	856	370	53	27	312	3495
1.00 - 1.49	.	.	122	414	146	434	209	27	21	98	1471
1.50 - 1.99	.	.	.	27	139	187	116	14	17	18	518
2.00 - 2.49	.	.	.	.	28	135	86	17	9	4	279
2.50 - 2.99	.	.	.	.	.	16	38	22	5	1	82
3.00 - 3.49	.	.	.	.	.	.	3	14	5	1	23
3.50 - 3.99	.	.	.	.	.	.	.	3	5	2	10
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	549	1327	1517	1163	1223	2196	951	166	139	475	

AVE HS(M) = 0.72 LARGEST HS(M) = 5.14 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 35

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.7	0.9	0.8	1.1	0.7	0.9	0.8	0.5	0.4	0.6	0.7	0.8	0.7
1957	0.6	0.7	0.5	0.8	0.6	0.5	0.7	0.5	0.5	0.5	1.0	1.3	0.7
1958	0.9	0.8	0.8	0.8	0.6	0.7	0.7	0.6	0.5	0.6	0.9	0.6	0.7
1959	0.9	0.9	0.9	0.7	0.5	0.6	0.7	0.5	0.3	0.8	0.8	0.8	0.7
1960	0.6	1.1	0.6	1.0	0.6	0.6	0.5	0.6	0.5	0.6	0.7	0.7	0.7
1961	0.7	0.8	0.7	1.0	0.8	0.9	0.6	0.6	0.9	0.8	0.4	0.8	0.7
1962	1.0	0.7	0.6	1.0	0.4	0.5	0.6	0.5	0.5	0.7	0.7	1.6	0.7
1963	1.1	1.1	1.2	0.9	1.0	0.9	0.9	0.9	0.7	0.8	1.3	0.8	1.0
1964	1.1	0.9	1.0	0.8	0.7	0.6	0.6	0.6	0.7	0.6	0.8	0.9	0.8
1965	0.6	0.8	0.6	0.5	0.5	0.6	0.6	0.6	0.4	0.8	0.8	0.6	0.6
1966	0.7	0.7	0.7	0.5	0.7	0.8	0.6	0.6	0.7	0.6	0.6	0.7	0.7
1967	0.8	0.8	0.7	0.5	0.8	0.5	0.7	0.6	0.5	0.7	0.7	0.7	0.7
1968	0.5	0.7	0.9	0.6	0.6	0.6	0.3	0.4	0.3	0.6	0.7	1.0	0.6
1969	0.6	0.4	0.6	0.8	0.8	0.5	0.5	0.7	0.4	0.5	0.9	0.9	0.6
1970	0.6	1.4	0.8	0.8	0.7	0.7	0.9	0.7	0.6	0.5	0.7	0.7	0.8
1971	0.8	1.1	1.0	0.9	1.1	0.6	0.8	0.7	0.4	0.6	0.6	0.7	0.3
1972	0.9	1.1	1.0	0.7	0.8	0.8	0.6	0.5	0.5	0.7	0.8	0.9	0.8
1973	0.9	0.6	0.7	1.0	0.8	0.7	0.6	0.5	0.5	0.7	1.4	1.8	0.9
1974	0.9	0.8	1.6	1.5	0.6	0.5	0.5	0.5	0.5	0.4	0.8	0.8	0.8
1975	0.7	0.6	0.7	0.7	0.3	0.6	0.7	0.3	0.4	0.4	0.9	1.0	0.6
MEAN	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.6	0.8	0.9	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 35

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.2	2.8	2.7	4.0	2.0	2.2	2.7	1.3	1.6	1.6	2.6	2.6
1957	2.5	2.1	2.6	2.9	1.7	2.4	1.7	1.4	2.1	1.6	2.6	2.9
1958	2.6	3.6	3.3	2.4	1.7	1.9	1.6	2.3	2.0	2.1	2.4	2.0
1959	3.4	2.4	3.3	2.4	1.6	1.8	2.4	1.8	1.1	2.8	3.1	3.1
1960	2.4	4.0	2.6	2.9	1.2	2.0	3.1	1.7	2.6	2.6	2.4	2.5
1961	2.3	3.7	2.9	2.8	2.9	2.0	1.5	1.4	4.1	2.1	1.4	2.6
1962	3.2	2.1	2.8	3.1	1.6	1.6	1.9	2.0	1.8	2.6	2.9	4.5
1963	2.6	2.6	2.8	2.1	2.6	1.7	1.7	2.7	2.4	1.5	3.7	2.8
1964	3.2	3.4	2.4	2.4	1.9	1.4	1.6	2.3	2.2	1.5	2.8	2.3
1965	2.3	2.7	1.9	1.9	1.0	1.6	1.6	1.3	1.2	2.5	2.5	2.0
1966	3.5	2.7	1.9	1.6	2.3	2.4	2.1	2.0	2.4	2.0	2.6	3.4
1967	2.5	2.8	2.4	2.2	2.4	1.6	1.7	1.5	2.0	2.9	2.1	2.8
1968	2.4	1.7	3.0	2.5	2.3	1.7	1.1	1.4	2.4	1.6	3.2	2.9
1969	1.9	2.3	2.7	2.4	2.9	1.2	1.2	2.4	2.3	1.9	3.1	3.7
1970	2.5	3.2	2.4	3.6	2.1	1.6	1.9	1.8	2.5	2.5	2.4	3.5
1971	3.7	3.5	4.2	3.2	2.7	1.2	2.2	2.2	1.4	2.3	2.4	2.2
1972	2.4	4.1	3.7	2.0	2.4	2.9	1.4	1.7	3.5	2.5	4.1	3.5
1973	3.5	4.1	4.0	2.8	2.5	2.1	2.4	2.1	2.0	2.7	3.7	5.1
1974	2.6	3.6	3.7	3.2	2.3	1.7	1.6	2.2	2.5	2.1	2.4	3.0
1975	3.0	3.9	3.4	3.0	1.4	2.1	2.1	1.1	2.3	1.4	2.8	3.3

LARGEST HS(METRES) FOR STATION 35 = 5.1

STATION 36 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1878	4031	2648	1324	1055	2484	23	5			13448
0.50 - 0.99	.	525	2876	1406	458	597	22	1	1	.	5886
1.00 - 1.49	.	.	49	222	140	27	.	.	.	.	438
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1878	4556	5573	2952	1658	3108	45	6	1	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.61 ANGLE CLASS % = 19.8

STATION 36 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	917	1579	.	.	4479	4697	1652	169	1	.	13494
0.50 - 0.99	.	1199	2568	527	484	5843	3138	352	58	.	14169
1.00 - 1.49	.	.	325	1257	666	1543	1305	195	88	1	5400
1.50 - 1.99	.	.	.	58	357	682	506	128	88	8	1827
2.00 - 2.49	.	.	.	.	44	236	205	90	54	10	639
2.50 - 2.99	.	.	.	.	.	15	54	42	23	10	144
3.00 - 3.49	.	.	.	.	.	.	3	13	5	6	27
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	917	2778	2893	1842	6050	13016	6863	989	317	35	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 3.42 ANGLE CLASS % = 35.7

STATION 36 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	420	564	.	.	843	836	458	77	525	278	4001
0.50 - 0.99	.	586	929	54	29	179	807	205	217	3175	6181
1.00 - 1.49	.	.	196	605	73	95	142	25	177	763	2076
1.50 - 1.99	.	.	1	56	241	143	37	18	88	128	712
2.00 - 2.49	.	.	.	1	82	335	68	.	17	35	538
2.50 - 2.99	.	.	.	.	.	80	92	42	1	13	228
3.00 - 3.49	.	.	.	.	.	.	13	58	10	5	86
3.50 - 3.99	.	.	.	.	.	.	.	6	8	5	19
4.00 - 4.49	.	.	.	.	.	.	.	.	6	5	11
4.50 - 4.99	.	.	.	.	.	.	.	.	.	3	3
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	420	1150	1126	716	1268	1668	1617	431	1049	4411	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 5.07 ANGLE CLASS % = 13.9

STATION 36 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	335	528			253	70	65	17	78	138	1484
0.50 - 0.99	.	595	982	53	29	133	220	41	234	896	3183
1.00 - 1.49	.	.	244	682	111	56	162	71	8	568	1902
1.50 - 1.99	.	.	1	56	280	136	70	13	22	316	894
2.00 - 2.49	.	.	.	1	77	340	106	.	18	165	707
2.50 - 2.99	.	.	.	.	.	87	119	37	6	34	283
3.00 - 3.49	.	.	.	.	.	.	22	35	1	20	78
3.50 - 3.99	.	.	.	.	.	.	.	5	5	11	21
4.00 - 4.49	.	.	.	.	.	.	.	.	.	8	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	335	1123	1227	792	750	822	764	219	372	2156	

AVERAGE HS(M) = 1.10 LARGEST HS(M) = 4.34 ANGLE CLASS % = 8.6

STATION 36 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	224	381			958	1202	545	100	17	6	3433
0.50 - 0.99	.	321	978	361	111	1136	790	100	35	10	3842
1.00 - 1.49	.	.	114	701	383	496	289	25	25	.	2033
1.50 - 1.99	.	.	1	15	191	386	222	32	15	.	862
2.00 - 2.49	.	.	.	.	29	199	102	32	15	1	356
2.50 - 2.99	.	.	.	.	3	8	27	8	1	.	47
3.00 - 3.49	.	.	.	.	.	.	1	3	3	.	7
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	224	702	1093	1077	1675	3405	1976	300	112	17	

AVERAGE HS(M) = 0.83 LARGEST HS(M) = 3.50 ANGLE CLASS % = 10.6

STATION 36 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

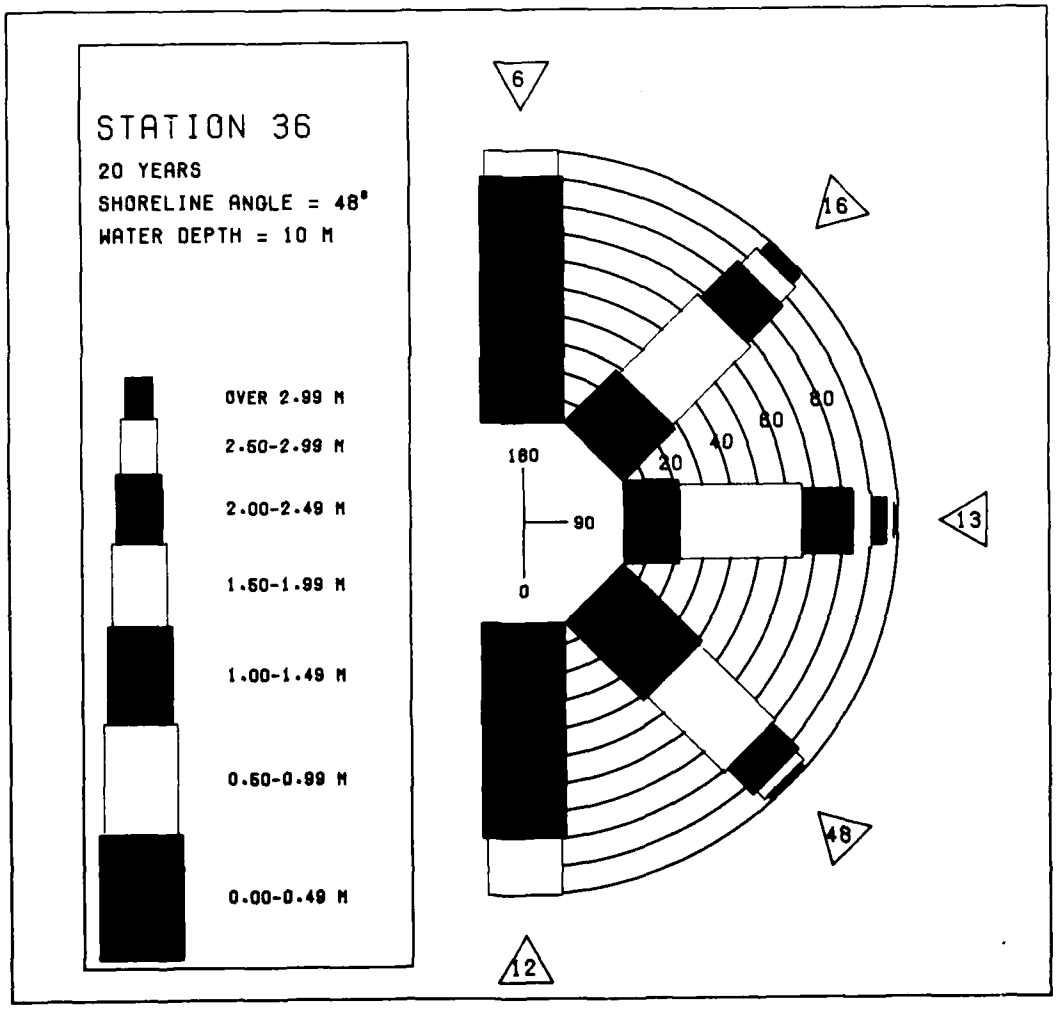
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	619	1360	1457	2176	648	54	.	.	.	.	6314
0.50 - 0.99	.	53	598	913	114	17	.	.	.	.	1695
1.00 - 1.49	.	.	1	83	37	.	.	.	.	.	121
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	619	1413	2056	3172	800	71	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.51 ANGLE CLASS % = 8.1

STATION 36 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	439	644	410	350	823	934	274	36	62	42	4214
0.50 - 0.99	.	328	893	331	122	790	497	70	54	408	3493
1.00 - 1.49	.	.	93	355	143	221	189	31	30	133	1195
1.50 - 1.99	.	.	.	18	107	135	83	19	21	45	428
2.00 - 2.49	.	.	.	.	23	109	48	12	10	21	223
2.50 - 2.99	.	.	.	.	.	19	29	13	3	5	69
3.00 - 3.49	.	.	.	.	.	.	4	11	2	3	20
3.50 - 3.99	.	.	.	.	.	.	.	1	1	1	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	439	1172	1396	1054	1218	2208	1124	193	183	659	

AVE HS(M) = 0.66 LARGEST HS(M) = 5.07 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 36

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.6	0.9	0.8	1.0	0.6	0.8	0.7	0.5	0.5	0.8	0.7	0.7	0.8
1957	0.5	0.7	0.7	0.6	0.5	0.4	0.6	0.5	0.5	0.5	0.8	1.0	0.6
1958	0.7	0.5	0.7	0.8	0.6	0.6	0.6	0.5	0.4	0.7	0.6	0.5	0.6
1959	0.6	0.6	0.7	0.7	0.4	0.4	0.6	0.5	0.3	0.8	0.7	0.6	0.6
1960	0.4	0.9	0.5	0.8	0.5	0.9	0.6	0.6	0.6	0.6	0.6	0.4	0.6
1961	0.6	0.7	0.6	0.8	0.7	0.8	0.5	0.5	1.0	1.1	0.9	0.6	0.7
1962	0.8	0.8	1.4	1.0	0.4	0.4	0.5	0.5	0.4	0.6	0.8	1.5	0.8
1963	0.9	0.9	1.1	0.7	1.0	0.8	0.8	0.8	1.0	0.8	1.0	0.6	0.9
1964	0.8	0.7	0.8	0.7	0.7	0.5	0.6	0.5	0.8	0.6	0.6	0.8	0.7
1965	0.7	0.7	0.6	0.5	0.4	0.6	0.6	0.5	0.4	0.6	0.6	0.5	0.6
1966	0.6	0.5	0.5	0.5	0.8	0.7	0.5	0.5	0.7	0.4	0.7	0.6	0.6
1967	0.7	0.6	1.0	0.7	0.8	0.5	0.6	0.6	0.6	0.6	0.5	0.6	0.6
1968	0.4	0.4	0.7	0.6	0.6	0.5	0.3	0.3	0.3	0.4	0.6	0.6	0.5
1969	0.5	1.1	1.1	0.9	0.7	0.4	0.5	0.6	0.5	0.4	0.9	0.7	0.7
1970	0.4	1.1	0.7	0.7	0.7	0.6	0.8	0.6	0.4	0.6	0.7	0.6	0.7
1971	0.5	0.9	0.7	0.7	1.0	0.5	0.7	0.6	0.4	0.8	0.6	0.6	0.7
1972	0.7	1.0	0.9	0.6	0.8	0.8	0.5	0.5	0.6	0.6	0.8	0.8	0.7
1973	0.6	1.0	0.8	0.8	0.8	0.6	0.5	0.5	0.4	0.6	0.9	1.5	0.8
1974	0.7	0.8	1.4	1.2	0.5	0.5	0.4	0.6	0.5	0.3	0.7	0.6	0.7
1975	0.8	0.5	0.7	0.6	0.3	0.5	0.8	0.3	0.4	0.4	0.7	1.0	0.6
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.6	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 36

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.3	2.5	2.9	3.4	1.8	1.9	2.2	1.8	2.8	2.3	2.5	2.3
1957	2.1	2.1	2.6	2.6	1.2	2.2	1.4	1.4	1.8	1.9	2.5	2.6
1958	2.8	3.5	3.5	2.5	1.5	1.5	1.3	2.0	1.7	2.5	2.4	2.2
1959	3.0	2.3	3.2	2.4	1.1	1.2	2.4	1.4	1.0	3.1	2.9	2.7
1960	2.2	3.4	2.4	2.6	1.2	2.0	2.8	1.8	2.6	2.4	1.8	2.7
1961	2.6	2.9	2.9	2.4	2.7	1.8	1.2	1.3	3.9	2.5	2.1	2.2
1962	2.4	2.3	3.4	2.7	1.3	1.4	1.6	2.3	2.1	2.7	2.9	4.0
1963	2.5	2.4	2.5	1.9	2.5	1.6	1.6	2.7	2.3	2.2	3.3	2.5
1964	2.9	2.9	2.4	2.1	1.5	1.2	2.0	2.2	2.3	1.7	2.7	2.1
1965	2.9	2.6	2.0	2.0	1.0	2.1	1.3	1.0	1.3	2.3	2.2	2.0
1966	3.0	2.4	2.1	2.1	2.0	2.4	2.0	1.8	2.5	1.3	2.5	3.3
1967	2.4	2.1	2.8	2.2	2.5	1.7	1.3	1.3	2.4	2.3	2.0	2.3
1968	2.5	1.8	3.3	2.0	2.6	1.6	0.8	1.3	2.4	1.6	3.1	2.3
1969	2.1	2.6	3.0	1.9	2.6	1.2	1.1	2.1	2.0	1.3	2.9	3.5
1970	1.8	3.1	2.1	3.0	1.9	1.5	1.7	1.7	1.9	2.7	2.4	3.4
1971	3.3	3.1	3.7	2.8	2.4	1.0	1.7	2.1	1.4	2.4	2.6	1.6
1972	2.2	4.1	3.2	2.0	2.4	2.9	1.3	1.4	3.5	2.4	3.1	3.5
1973	3.1	3.4	3.0	2.8	2.1	2.0	2.0	2.1	1.6	3.0	2.6	5.1
1974	2.4	3.0	3.2	2.7	2.1	1.4	1.3	1.8	2.3	1.8	2.2	3.0
1975	3.1	2.8	3.5	2.6	1.3	2.0	2.1	0.9	1.7	2.2	2.5	3.4

LARGEST HS(METRES) FOR STATION 36 = 5.1

STATION 37 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 143.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 37 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 143.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 37 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 143.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	934	1842	2007	1714	1324	1481	118	1	.	.	9421
0.50 - 0.99	.	.	131	395	515	1858	402	32	1	.	3334
1.00 - 1.49	.	.	.	6	143	1055	309	27	1	.	1541
1.50 - 1.99	.	.	.	.	10	167	147	35	6	.	365
2.00 - 2.49	.	.	.	.	.	3	10	29	5	.	47
2.50 - 2.99	.	.	.	.	.	.	.	1	5	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	934	1842	2138	2115	1992	4564	986	125	18	0	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 2.84 ANGLE CLASS % = 14.7

STATION 37 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 143.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1836	3437	398	.	3473	4024	1004	100	554	1066	15892
0.50 - 0.99	.	1132	4719	1281	554	5523	2493	270	256	2640	18868
1.00 - 1.49	.	.	246	1629	684	2212	1252	154	203	405	6785
1.50 - 1.99	.	.	.	66	638	1172	752	66	112	46	2852
2.00 - 2.49	.	.	.	.	82	663	689	95	47	15	1591
2.50 - 2.99	.	.	.	.	.	35	237	198	41	8	519
3.00 - 3.49	.	.	.	.	.	.	8	95	65	1	169
3.50 - 3.99	.	.	.	.	.	.	.	15	56	35	106
4.00 - 4.49	.	.	.	.	.	.	.	.	6	6	12
4.50 - 4.99	.	.	.	.	.	.	.	.	.	3	3
5.00 - GREATER	.	.	.	.	.	.	.	.	.	3	3
TOTAL	1836	4569	5363	2976	5431	13629	6435	993	1340	4228	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 5.14 ANGLE CLASS % = 46.8

STATION 37 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 143.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1096	1962	6	.	2837	1442	1045	212	6	88	8694
0.50 - 0.99	.	1004	2628	547	292	937	740	184	5	.	6337
1.00 - 1.49	.	.	225	888	429	456	171	27	13	1	2210
1.50 - 1.99	.	.	.	30	234	410	136	35	.	.	845
2.00 - 2.49	.	.	.	.	32	152	94	25	5	.	308
2.50 - 2.99	.	.	.	.	.	3	13	17	5	1	39
3.00 - 3.49	.	.	.	.	.	.	1	.	3	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1096	2966	2859	1465	3824	3400	2200	500	37	90	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 3.23 ANGLE CLASS % = 18.5

STATION 37 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 143.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

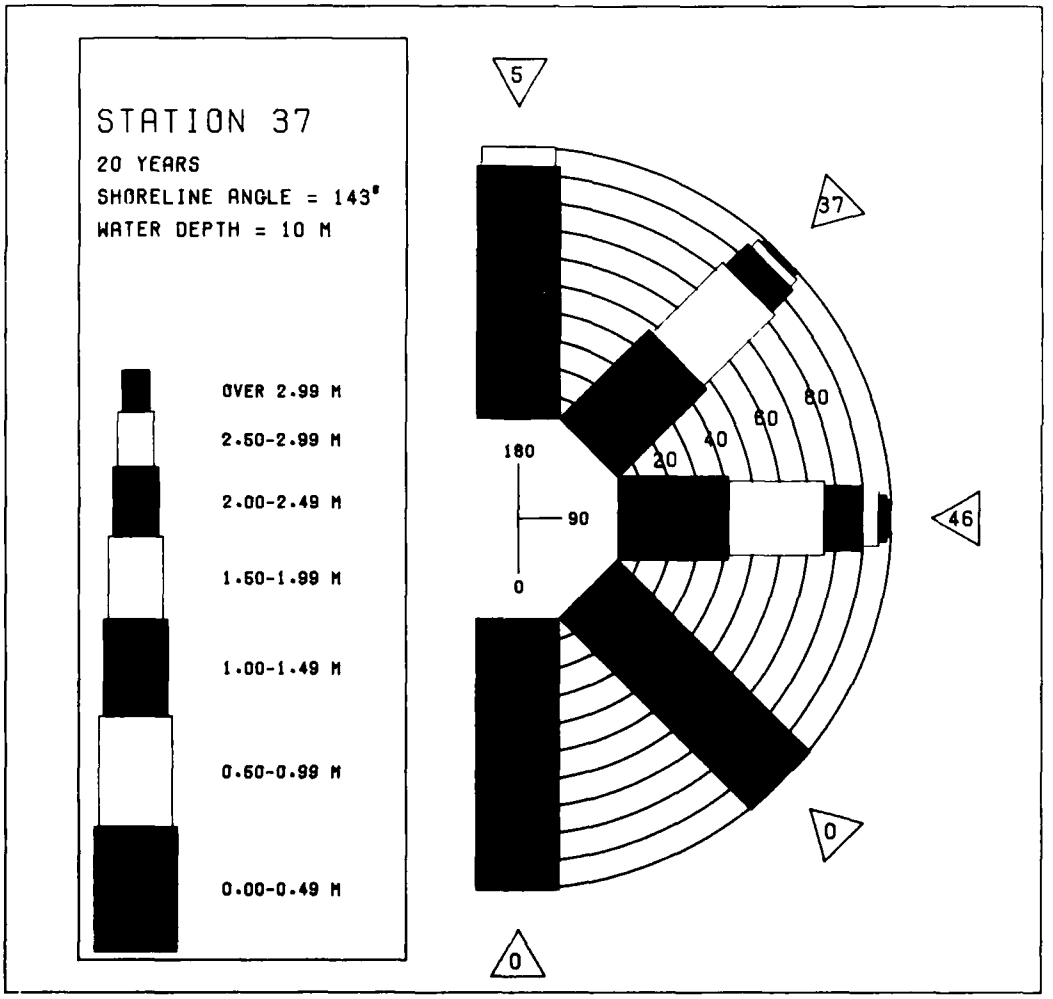
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	898	2043	1459	864	564	689	.	.	.	.	6517
0.50 - 0.99	.	111	758	513	196	99	.	.	.	.	1677
1.00 - 1.49	.	.	3	39	15	.	.	.	.	.	57
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	898	2154	2220	1416	776	788	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.62 ANGLE CLASS % = 8.3

STATION 37 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 143.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. ~ 0.49	476	928	387	257	819	763	216	31	56	115	4048
0.50 ~ 0.99	.	224	823	273	155	841	363	48	26	264	3017
1.00 ~ 1.49	.	.	47	256	127	372	173	20	21	40	1056
1.50 ~ 1.99	.	.	.	9	88	175	103	13	11	4	403
2.00 ~ 2.49	.	.	.	.	11	81	79	15	5	1	192
2.50 ~ 2.99	.	.	.	.	.	3	25	21	5	1	55
3.00 ~ 3.49	.	.	.	.	.	.	1	9	6	.	16
3.50 ~ 3.99	.	.	.	.	.	.	.	1	5	3	9
4.00 ~ 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 ~ 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 ~ GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	476	1152	1257	795	1200	2235	960	158	135	428	

AVE HS(M) = 0.59 LARGEST HS(M) = 5.14 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 37

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.7	0.6	0.9	0.6	0.7	0.7	0.4	0.3	0.3	0.6	0.7	0.6
1957	0.5	0.6	0.3	0.6	0.5	0.4	0.7	0.4	0.5	0.3	0.8	1.1	0.6
1958	0.7	0.6	0.5	0.6	0.5	0.6	0.7	0.6	0.4	0.4	0.7	0.5	0.6
1959	0.8	0.8	0.8	0.6	0.5	0.5	0.6	0.4	0.3	0.6	0.7	0.6	0.6
1960	0.5	0.8	0.4	0.9	0.5	0.5	0.5	0.5	0.4	0.5	0.7	0.6	0.6
1961	0.5	0.7	0.5	0.9	0.7	0.8	0.5	0.5	0.6	0.6	0.3	0.7	0.6
1962	0.9	0.5	0.3	0.8	0.3	0.5	0.6	0.4	0.4	0.6	0.5	1.2	0.6
1963	0.9	0.9	1.0	0.7	0.9	0.7	0.7	0.7	0.5	0.6	1.0	0.7	0.8
1964	1.0	0.7	0.9	0.6	0.6	0.5	0.6	0.6	0.4	0.5	0.7	0.8	0.7
1965	0.5	0.7	0.5	0.4	0.4	0.5	0.6	0.5	0.3	0.7	0.7	0.5	0.5
1966	0.5	0.6	0.6	0.4	0.6	0.7	0.5	0.5	0.6	0.5	0.5	0.6	0.5
1967	0.7	0.7	0.5	0.4	0.6	0.4	0.6	0.5	0.3	0.6	0.6	0.5	0.6
1968	0.3	0.6	0.7	0.5	0.5	0.4	0.3	0.3	0.3	0.5	0.6	0.9	0.5
1969	0.4	0.2	0.4	0.7	0.8	0.5	0.4	0.6	0.3	0.4	0.7	0.7	0.5
1970	0.5	1.1	0.7	0.6	0.6	0.7	0.7	0.6	0.5	0.4	0.5	0.5	0.6
1971	0.7	1.0	0.8	0.8	0.9	0.5	0.7	0.6	0.3	0.4	0.5	0.6	0.7
1972	0.9	0.8	0.9	0.6	0.6	0.7	0.5	0.5	0.3	0.5	0.7	0.7	0.7
1973	0.8	0.4	0.5	0.8	0.8	0.6	0.5	0.5	0.4	0.5	1.3	1.5	0.7
1974	0.8	0.7	1.3	1.3	0.5	0.4	0.5	0.4	0.4	0.4	0.7	0.5	0.6
1975	0.6	0.5	0.6	0.6	0.2	0.5	0.7	0.3	0.3	0.3	0.8	0.7	0.5
MEAN	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.5	0.4	0.5	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 37

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.9	2.7	3.7	2.0	2.1	2.6	1.3	1.0	1.5	2.6	2.6
1957	2.5	2.1	2.5	2.7	1.8	2.5	1.6	1.4	2.1	1.5	2.3	2.8
1958	2.6	3.7	3.0	2.1	1.6	1.8	1.6	2.2	2.0	1.7	2.5	1.8
1959	3.4	2.3	3.3	2.2	1.6	1.9	2.2	1.9	1.0	1.6	2.6	3.2
1960	2.4	4.0	2.1	2.8	1.1	1.6	2.9	1.7	2.3	2.5	2.4	2.6
1961	2.4	3.8	2.8	2.7	2.7	2.0	1.3	1.4	3.5	2.1	1.4	2.6
1962	3.3	2.1	2.7	3.0	1.6	1.5	1.9	2.1	1.6	2.6	2.6	4.1
1963	2.6	2.7	2.8	2.1	2.4	1.7	1.5	2.5	2.4	1.6	3.8	2.8
1964	3.3	3.6	2.4	2.4	1.9	1.4	1.6	1.9	1.9	1.3	2.7	2.3
1965	2.3	2.6	1.9	1.9	1.0	1.1	1.6	1.4	1.0	2.5	2.5	2.0
1966	3.8	2.5	1.8	1.0	2.3	2.3	1.8	2.0	1.9	1.9	2.7	3.4
1967	2.6	2.9	2.2	1.9	2.3	1.3	1.7	1.5	1.6	3.0	1.9	3.0
1968	2.4	1.6	3.2	2.3	1.9	1.7	1.0	1.4	2.4	1.6	2.7	3.1
1969	1.7	1.6	2.4	2.4	2.8	1.1	1.1	2.4	2.3	2.0	2.8	3.7
1970	2.5	3.2	2.5	3.7	2.1	1.4	1.7	1.4	2.6	1.9	2.2	3.5
1971	3.4	3.3	4.2	3.3	2.6	1.1	2.1	2.1	0.9	2.2	2.4	2.2
1972	2.5	3.9	3.5	1.7	2.0	2.2	1.4	1.8	3.6	2.5	4.4	3.3
1973	3.7	3.8	4.0	2.5	2.4	1.9	2.3	1.7	2.0	2.9	3.8	5.1
1974	2.7	3.9	3.7	3.0	2.2	1.7	1.6	2.1	2.4	2.1	2.6	2.7
1975	2.7	3.9	2.8	3.1	1.4	1.7	2.1	1.0	2.3	1.6	2.9	3.3

LARGEST HS(METRES) FOR STATION 37 = 5.1

STATION 38 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 99.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1481	2943	2359	2813	1050	63	.	.	.	.	10709
0.50 - 0.99	.	378	2037	1543	770	491	.	.	.	.	5219
1.00 - 1.49	.	.	58	215	229	83	.	.	.	.	585
1.50 - 1.99	.	.	.	.	11	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1481	3321	4454	4571	2061	637	0	0	0	0	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 2.12 ANGLE CLASS % = 16.5

STATION 38 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 99.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1036	1540	.	.	446	198	17	3	.	.	3240
0.50 - 0.99	.	1425	3256	595	135	718	51	1	.	.	6181
1.00 - 1.49	.	.	485	1610	643	1608	78	.	.	.	4424
1.50 - 1.99	.	.	.	102	574	1090	66	.	.	.	1832
2.00 - 2.49	.	.	.	.	94	605	162	3	.	.	864
2.50 - 2.99	.	.	.	.	.	34	92	20	.	.	146
3.00 - 3.49	.	.	.	.	.	.	8	30	.	.	38
3.50 - 3.99	.	.	.	.	.	.	.	8	.	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1036	2965	3741	2307	1892	4253	474	65	0	0	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 3.61 ANGLE CLASS % = 16.7

STATION 38 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 99.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	723	1079	.	.	1885	2349	578	59	32	.	6705
0.50 - 0.99	.	1132	1966	107	388	5275	2031	150	94	11	11154
1.00 - 1.49	.	.	349	1134	162	2087	1254	126	94	27	5233
1.50 - 1.99	.	.	.	116	436	758	576	46	88	3	2023
2.00 - 2.49	.	.	.	.	111	593	391	32	35	1	1163
2.50 - 2.99	.	.	.	.	1	71	282	90	18	.	462
3.00 - 3.49	.	.	.	.	.	.	27	116	25	1	169
3.50 - 3.99	.	.	.	.	.	.	.	20	59	11	90
4.00 - 4.49	.	.	.	.	.	.	.	.	5	6	11
4.50 - 4.99	.	.	.	.	.	.	.	.	.	3	3
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	723	2211	2315	1357	2983	11133	5139	639	450	64	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 5.05 ANGLE CLASS % = 27.0

STATION 38 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 149.9
SHORELINE ANGLE = 99.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	835	1117			853	1091	1048	17	400	1048	6409
0.50 - 0.99	.	1214	1788	128	83	930	1524	87	313	395	6462
1.00 - 1.49	.	.	301	778	135	330	225	85	266	516	2636
1.50 - 1.99	.	.	.	80	333	237	73	27	112	80	942
2.00 - 2.49	.	.	.	.	99	419	135	6	41	32	732
2.50 - 2.99	.	.	.	.	.	77	133	32	10	5	257
3.00 - 3.49	.	.	.	.	.	.	20	54	8	5	87
3.50 - 3.99	.	.	.	.	.	.	.	5	15	1	21
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	835	2331	2089	986	1503	3084	3158	313	1165	2085	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 4.40 ANGLE CLASS % = 17.6

STATION 38 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 99.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	456	800	1		710	1196	1137	70	.	.	4370
0.50 - 0.99	.	576	1298	345	184	1536	1391	242	1	.	5573
1.00 - 1.49	.	.	118	616	299	542	564	41	3	.	2183
1.50 - 1.99	.	.	.	25	131	273	261	34	1	.	725
2.00 - 2.49	.	.	.	.	22	71	99	27	5	.	224
2.50 - 2.99	.	.	.	.	.	6	6	5	.	.	17
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	456	1376	1417	986	1346	3624	3458	419	10	0	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 2.84 ANGLE CLASS % = 13.1

STATION 38 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 99.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

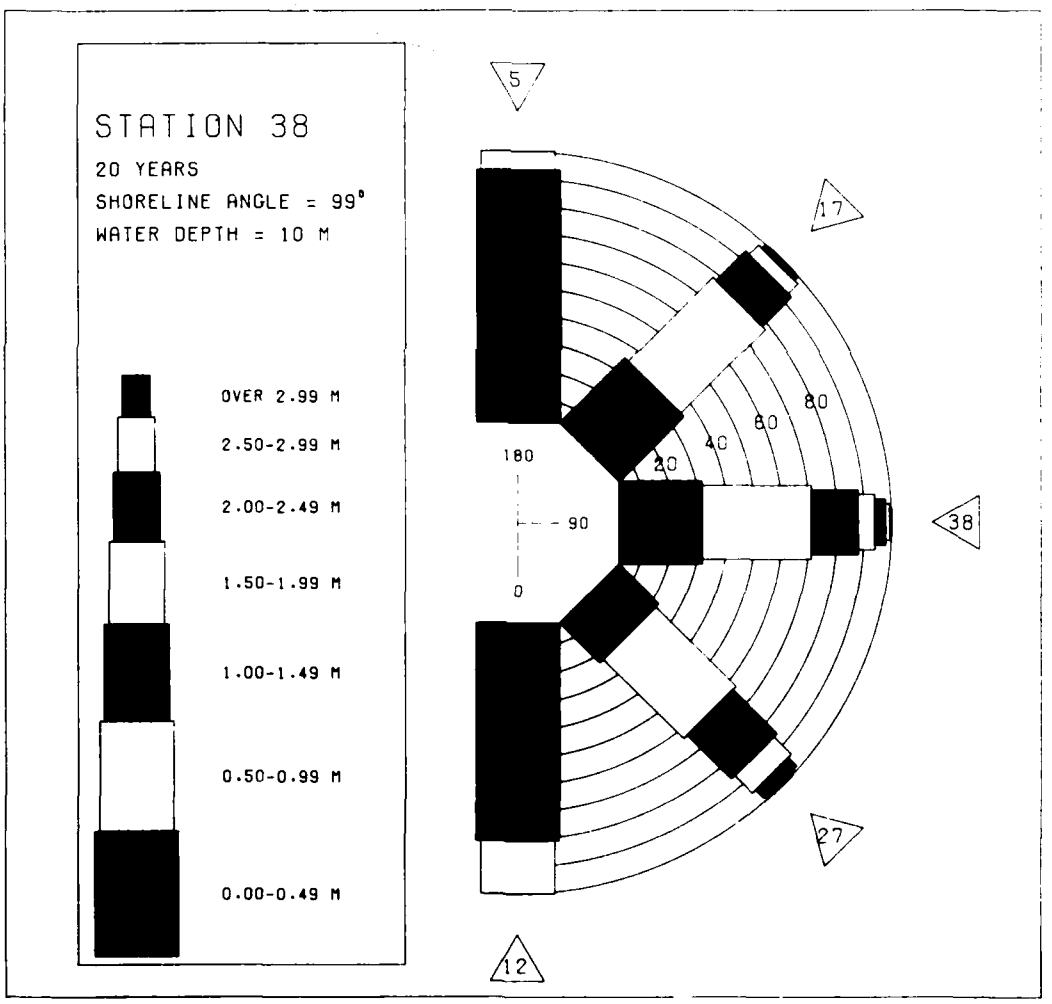
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	622	1288	1261	1466	662	208	.	.	.	.	5507
0.50 - 0.99	.	87	573	432	200	135	.	.	.	.	1427
1.00 - 1.49	.	.	1	22	27	3	.	.	.	.	53
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	622	1375	1835	1920	889	346	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.48 ANGLE CLASS % = 7.0

STATION 38 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 99.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	515	876	362	427	560	510	278	15	43	104	3690
0.50 - 0.99	.	481	1092	315	176	908	499	48	40	40	3599
1.00 - 1.49	.	.	131	437	149	465	212	25	36	54	1509
1.50 - 1.99	.	.	.	32	148	235	97	10	20	8	550
2.00 - 2.49	.	.	.	.	32	169	78	7	8	3	297
2.50 - 2.99	.	.	.	.	.	18	51	14	2	.	85
3.00 - 3.49	.	.	.	.	.	.	5	20	3	.	28
3.50 - 3.99	.	.	.	.	.	.	.	3	7	1	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	515	1357	1585	1211	1065	2305	1220	142	159	211	

AVE HS(M) = 0.75 LARGEST HS(M) = 5.05 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 38

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.8	0.8	1.0	0.7	0.8	0.8	0.5	0.5	0.7	0.7	0.8	0.7
1957	0.7	0.7	0.5	0.8	0.6	0.5	0.8	0.5	0.6	0.5	1.1	1.3	0.7
1958	1.0	0.9	0.8	0.8	0.6	0.8	0.8	0.7	0.6	0.8	0.9	0.7	0.8
1959	1.0	0.9	1.0	0.8	0.6	0.6	0.7	0.5	0.3	0.9	1.2	0.8	0.8
1960	0.7	1.1	0.7	1.1	0.6	1.1	0.7	0.6	0.5	0.6	0.8	0.7	0.8
1961	0.8	0.8	0.7	1.1	0.8	0.9	0.6	0.6	0.7	0.6	0.5	0.9	0.7
1962	1.0	0.6	0.6	1.0	0.4	0.5	0.7	0.6	0.5	0.7	0.8	1.5	0.7
1963	0.8	0.9	1.1	0.7	0.8	0.6	0.7	0.6	0.6	0.5	1.2	0.8	0.8
1964	1.2	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.6	0.6	0.8	1.0	0.8
1965	0.7	0.9	0.8	0.5	0.5	0.5	0.6	0.7	0.5	0.8	0.9	0.7	0.7
1966	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.8	0.6	0.9	0.8	0.7
1967	0.9	1.0	0.8	0.5	0.8	0.5	0.7	0.6	0.5	0.7	0.8	0.7	0.7
1968	0.5	0.8	0.9	0.6	0.7	0.7	0.6	0.6	0.4	0.7	0.8	1.1	0.7
1969	0.8	0.4	0.6	0.9	0.9	0.5	0.5	0.9	0.6	0.5	0.9	0.9	0.7
1970	0.6	1.2	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.6	0.7	0.8	0.7
1971	0.9	1.1	1.0	1.0	1.1	0.8	0.8	0.7	0.5	0.6	0.6	0.8	0.8
1972	1.0	1.1	1.1	0.7	0.9	0.8	0.6	0.5	0.4	0.9	0.8	0.9	0.8
1973	1.0	0.6	0.7	1.0	0.9	0.7	0.6	0.5	0.5	0.7	1.5	1.7	0.9
1974	0.9	0.9	1.6	1.5	0.7	0.5	0.7	0.5	0.5	0.5	0.8	0.8	0.8
1975	0.8	0.7	0.8	0.7	0.3	0.6	0.8	0.4	0.4	0.4	0.9	1.2	0.7
MEAN	0.8	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.6	0.9	0.9	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 38

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.5	3.0	2.3	4.0	2.0	2.2	2.6	1.2	1.5	2.0	2.5	2.5
1957	2.5	2.3	2.5	2.9	1.8	2.5	1.6	1.4	2.1	1.7	2.5	2.9
1958	2.8	3.4	3.4	2.3	1.6	1.7	1.7	2.4	2.0	1.8	2.5	2.2
1959	3.5	2.4	3.2	2.4	1.6	1.8	2.5	1.7	1.1	2.6	2.9	3.2
1960	2.6	3.9	2.6	2.9	1.3	2.4	3.1	1.6	2.6	2.7	2.2	2.5
1961	2.4	3.8	2.8	2.5	2.7	2.1	1.4	1.5	3.2	2.2	2.0	2.8
1962	3.2	2.0	2.7	3.0	1.8	1.6	2.0	2.1	1.8	2.7	2.7	4.2
1963	2.7	2.7	2.8	1.7	3.2	1.8	1.6	2.6	2.5	1.7	3.7	2.8
1964	3.4	3.1	2.5	2.6	2.0	1.4	1.7	2.1	1.8	1.7	2.8	2.4
1965	2.4	2.9	2.0	2.2	1.2	1.2	1.6	1.8	1.6	2.6	2.7	2.0
1966	3.7	2.7	1.9	1.5	2.3	2.3	1.9	2.1	2.3	2.3	3.0	2.7
1967	2.6	3.0	2.5	2.0	2.4	1.8	1.6	1.5	2.2	3.1	2.3	3.4
1968	2.7	2.2	3.1	2.5	2.3	1.5	1.2	1.5	1.7	1.8	2.3	3.1
1969	2.0	1.9	2.9	2.4	3.0	1.1	1.3	2.2	2.3	2.2	2.9	3.7
1970	2.5	3.2	2.4	3.9	2.0	1.6	1.8	2.1	2.5	2.4	2.4	3.5
1971	3.7	3.2	4.1	3.3	2.5	1.4	2.1	2.3	1.3	2.4	2.7	2.2
1972	2.5	4.1	3.7	1.9	2.8	2.9	1.4	2.0	2.1	2.5	3.6	3.5
1973	3.6	3.9	4.1	2.8	2.5	2.1	2.0	2.1	2.1	3.1	3.5	5.1
1974	2.7	3.9	3.7	3.6	2.4	2.1	1.7	2.2	2.5	2.2	2.6	2.8
1975	2.9	3.8	3.5	3.2	1.5	1.9	2.0	1.1	2.4	1.6	2.8	3.6

LARGEST HS(METRES) FOR STATION 38 = 5.1

STATION 39 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 88.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 39 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 88.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	891	1902	2166	1255	1735	1880	97	.	.	.	9926
0.50 - 0.99	.	.	165	212	313	720	47	.	.	.	1457
1.00 - 1.49	.	.	.	.	18	287	58	.	.	.	363
1.50 - 1.99	.	.	.	.	.	94	35	.	.	.	129
2.00 - 2.49	.	.	.	.	.	.	15	.	.	.	15
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	891	1902	2331	1467	2066	2981	252	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 2.40 ANGLE CLASS % = 11.9

STATION 39 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 88.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1430	3246	503	.	3184	3554	987	87	49	.	13040
0.50 - 0.99	.	973	4082	1454	681	6478	2717	191	118	27	16721
1.00 - 1.49	.	.	162	1141	677	2212	1279	147	111	30	5759
1.50 - 1.99	.	.	.	47	352	833	708	102	107	1	2150
2.00 - 2.49	.	.	.	.	56	385	378	97	56	6	978
2.50 - 2.99	.	.	.	.	1	22	148	99	41	5	316
3.00 - 3.49	.	.	.	.	.	.	15	61	39	8	123
3.50 - 3.99	.	.	.	.	.	.	.	10	17	13	40
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	1430	4219	4747	2642	4951	13484	6232	794	538	93	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 5.05 ANGLE CLASS % = 39.2

STATION 39 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 88.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	853	1267			799	1036	2638	104	590	1575	8862
0.50 - 0.99	.	1013	1860	213	35	342	2849	354	366	439	7471
1.00 - 1.49	.	.	237	829	161	140	515	109	256	509	2776
1.50 - 1.99	.	.	.	65	316	263	155	32	99	75	1005
2.00 - 2.49	.	.	.	.	82	350	169	27	39	20	687
2.50 - 2.99	.	.	.	.	.	71	109	30	3	1	214
3.00 - 3.49	.	.	.	.	.	.	11	41	3	1	56
3.50 - 3.99	.	.	.	.	.	.	.	5	15	1	21
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	853	2280	2097	1107	1413	2202	6446	702	1371	2624	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 4.40 ANGLE CLASS % = 21.1

STATION 39 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 88.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	638	1480	1218	1110	1492	1909	232	8	1	.	8088
0.50 - 0.99	.	157	910	631	359	2041	227	29	1	.	4355
1.00 - 1.49	.	.	8	138	179	482	147	17	1	.	972
1.50 - 1.99	.	.	.	.	34	152	97	10	.	.	293
2.00 - 2.49	.	.	.	.	5	6	23	3	.	.	37
2.50 - 2.99	.	.	.	.	.	.	6	1	.	.	7
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	638	1637	2136	1879	2069	4590	732	68	3	0	

AVERAGE HS(M) = 0.49 LARGEST HS(M) = 2.88 ANGLE CLASS % = 13.8

STATION 39 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 88.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	10	.	.	.	.	.	.	.	.	.	10
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.1

AD-A129 642 ATLANTIC COAST HINDCAST SHALLOW-WATER SIGNIFICANT WAVE INFORMATION(U) ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRAULICS LAB R E JENSEN JAN 83 WIS-9 F/G 12/1 NL

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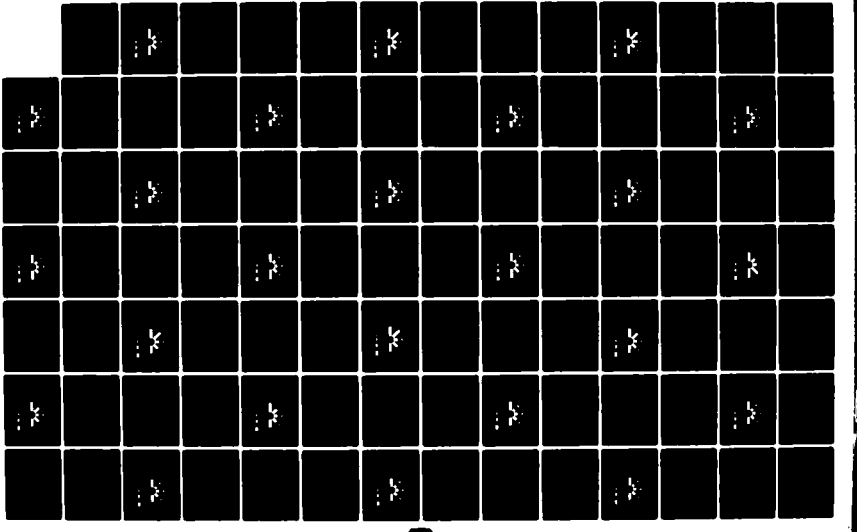
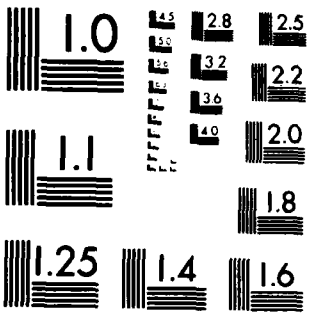


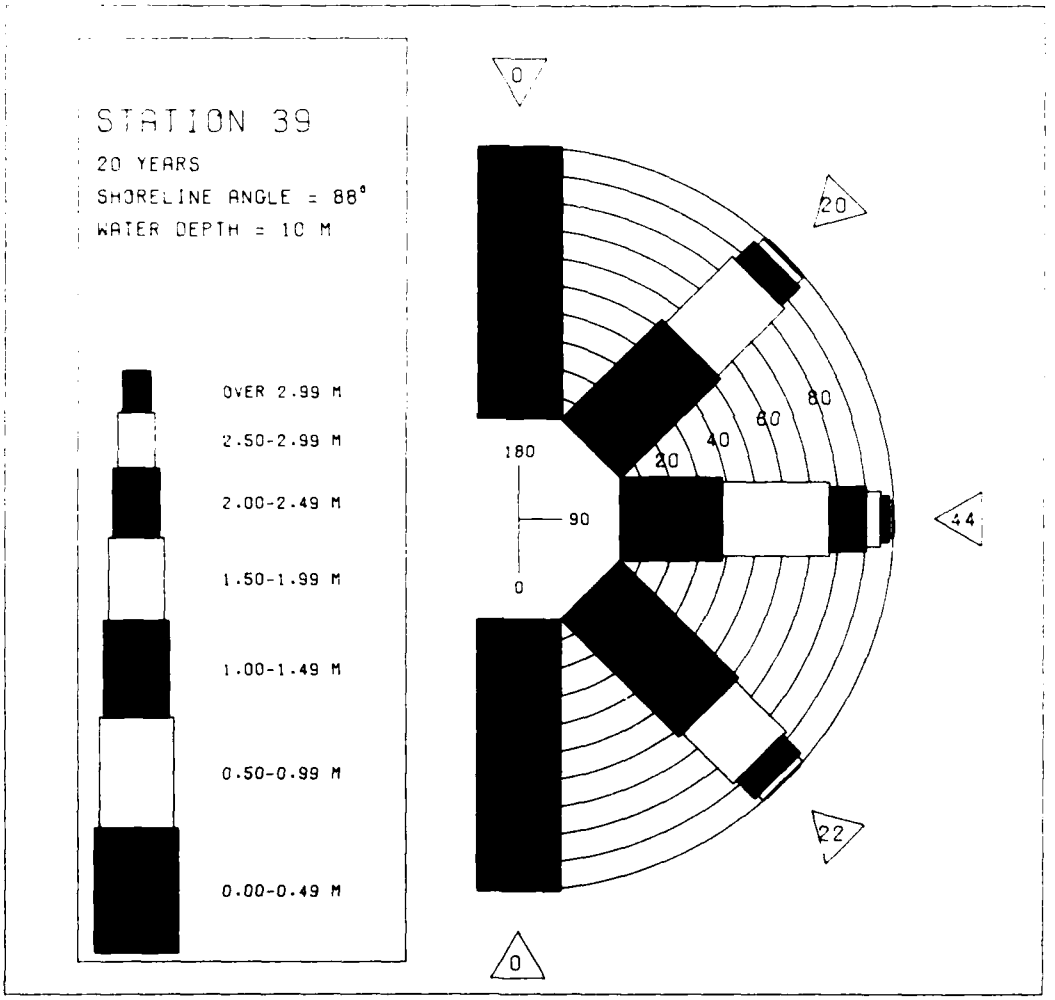


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

STATION 39 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 88.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	382	789	388	236	721	838	395	20	64	157	3990
0.50 - 0.99	.	214	701	251	138	958	584	57	48	46	2997
1.00 - 1.49	.	.	40	210	105	312	200	27	36	54	984
1.50 - 1.99	.	.	.	11	70	134	99	14	20	7	355
2.00 - 2.49	.	.	.	.	14	74	58	12	9	2	169
2.50 - 2.99	.	.	.	.	.	9	26	13	4	.	52
3.00 - 3.49	.	.	.	.	.	.	2	10	4	1	17
3.50 - 3.99	.	.	.	.	.	.	.	1	3	1	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	382	1003	1129	708	1048	2325	1364	154	188	268	

AVE HS(M) = 0.56 LARGEST HS(M) = 5.05 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 39

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.5	0.6	0.9	0.5	0.7	0.7	0.4	0.3	0.6	0.5	0.5	0.5
1957	0.4	0.4	0.3	0.6	0.4	0.5	0.7	0.4	0.4	0.4	0.9	1.0	0.5
1958	0.7	0.4	0.6	0.7	0.5	0.7	0.6	0.6	0.4	0.6	0.6	0.3	0.6
1959	0.6	0.6	0.6	0.6	0.4	0.4	0.6	0.4	0.2	0.7	1.1	0.5	0.6
1960	0.3	0.7	0.4	0.9	0.5	1.1	0.6	0.5	0.4	0.3	0.5	0.4	0.6
1961	0.4	0.6	0.5	0.8	0.6	0.8	0.5	0.4	0.6	0.4	0.2	0.5	0.5
1962	0.7	0.4	0.3	0.8	0.3	0.4	0.5	0.5	0.3	0.5	0.6	1.3	0.5
1963	0.6	0.5	0.9	0.5	0.7	0.5	0.5	0.5	0.5	0.3	0.9	0.4	0.6
1964	0.7	0.6	0.8	0.6	0.5	0.4	0.5	0.6	0.5	0.4	0.6	0.8	0.6
1965	0.4	0.6	0.6	0.5	0.4	0.4	0.6	0.6	0.4	0.6	0.6	0.5	0.5
1966	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.4	0.9	0.5	0.5
1967	0.6	0.7	0.7	0.3	0.7	0.5	0.6	0.5	0.3	0.6	0.4	0.6	0.6
1968	0.3	0.3	0.6	0.5	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.6	0.5
1969	0.5	0.2	0.3	0.7	0.7	0.4	0.3	0.8	0.4	0.3	0.7	0.7	0.5
1970	0.3	0.8	0.5	0.6	0.7	0.7	0.6	0.5	0.5	0.5	0.5	0.4	0.6
1971	0.5	0.9	0.6	0.8	1.0	0.7	0.7	0.6	0.4	0.5	0.4	0.5	0.6
1972	0.8	0.8	1.0	0.6	0.8	0.7	0.5	0.4	0.3	0.8	0.6	0.6	0.7
1973	0.7	0.5	0.5	0.7	0.8	0.6	0.5	0.4	0.4	0.4	1.0	1.4	0.7
1974	0.7	0.6	1.3	1.3	0.6	0.5	0.6	0.4	0.4	0.3	0.5	0.6	0.6
1975	0.6	0.5	0.7	0.5	0.3	0.6	0.7	0.3	0.3	0.3	0.6	1.1	0.5
MEAN	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.5	0.4	0.5	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 39

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.3	2.6	2.2	3.9	1.7	1.9	2.5	0.9	1.7	1.5	2.5	2.4
1957	2.1	2.0	2.4	2.9	1.4	2.3	1.5	1.2	1.8	1.6	2.4	2.7
1958	2.8	3.4	3.4	2.3	1.5	1.5	1.4	2.3	1.6	1.8	2.4	1.5
1959	3.3	2.3	3.1	2.4	1.3	1.1	2.4	1.4	1.0	2.6	2.8	2.9
1960	2.3	3.8	2.6	2.8	1.2	2.5	3.0	1.5	2.6	2.5	2.1	2.4
1961	2.1	3.1	2.8	2.3	2.7	2.1	1.3	1.3	3.2	1.6	1.3	2.3
1962	3.1	1.9	2.7	3.0	1.1	1.4	1.5	1.7	1.4	2.3	2.9	3.9
1963	2.5	2.5	2.5	1.7	3.1	1.6	1.5	2.5	2.4	1.0	3.5	2.6
1964	3.1	2.9	2.2	2.2	1.7	1.3	1.5	2.1	1.7	1.4	2.7	2.2
1965	1.9	2.7	1.7	2.2	0.9	1.1	1.4	1.3	1.6	2.6	2.2	2.0
1966	2.9	2.4	1.7	1.5	2.0	2.2	1.9	1.8	2.4	1.5	2.9	2.5
1967	2.5	2.6	2.4	1.9	2.4	1.6	1.3	1.4	2.2	2.6	2.3	3.4
1968	2.2	1.5	2.9	2.3	2.5	1.5	0.9	1.3	1.6	1.6	2.8	2.4
1969	1.9	1.4	3.2	2.3	2.9	1.1	1.2	2.0	2.2	1.5	2.9	3.7
1970	2.3	3.1	2.1	3.3	1.8	1.6	1.6	2.1	2.2	2.4	2.4	3.5
1971	3.4	2.8	3.9	3.3	2.4	1.3	1.9	2.3	1.4	2.0	2.4	2.2
1972	2.2	4.1	3.6	1.8	2.8	2.9	1.2	1.6	1.7	2.2	3.5	3.4
1973	3.3	3.6	3.7	2.8	2.3	2.0	1.8	2.2	1.6	2.6	3.0	5.1
1974	2.5	3.4	3.5	3.5	2.4	1.4	1.4	2.0	2.3	2.0	2.1	2.9
1975	2.7	3.1	3.6	2.9	1.3	1.9	1.9	0.8	2.2	1.2	2.5	3.5

LARGEST HS(METRES) FOR STATION 39 = 5.1

STATION 40 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 40 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3278	7243	4955	2008	3191	3656	2019	30	.	.	26380
0.50 - 0.99	.	374	2809	1678	764	2506	1560	66	34	1	9792
1.00 - 1.49	.	.	47	450	422	841	379	63	59	1	2262
1.50 - 1.99	.	.	.	5	109	369	219	51	25	6	784
2.00 - 2.49	.	.	.	.	20	46	82	37	6	.	191
2.50 - 2.99	.	.	.	.	.	1	10	6	1	.	18
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3278	7617	7811	4141	4506	7419	4269	254	125	8	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 3.06 ANGLE CLASS % = 39.5

STATION 40 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	677	1048	.	.	501	159	196	32	658	1786	5057
0.50 - 0.99	.	590	1278	165	92	244	402	119	296	386	3572
1.00 - 1.49	.	.	99	592	147	118	165	66	195	484	1866
1.50 - 1.99	.	.	.	46	220	210	54	18	106	58	712
2.00 - 2.49	.	.	.	.	53	284	126	18	23	22	526
2.50 - 2.99	.	.	.	.	.	54	104	51	10	5	224
3.00 - 3.49	.	.	.	.	.	.	6	32	10	5	53
3.50 - 3.99	.	.	.	.	.	.	.	6	11	1	18
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	677	1638	1377	803	1013	1069	1053	342	1309	2750	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 4.13 ANGLE CLASS % = 12.1

STATION 40 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1149	2263	1721	1769	1524	1644	1090	119	23	63	11365
0.50 - 0.99	.	220	1290	749	554	2116	1753	217	88	10	6797
1.00 - 1.49	.	.	34	349	282	624	686	109	65	1	2150
1.50 - 1.99	.	.	.	8	130	574	280	47	54	.	893
2.00 - 2.49	.	.	.	.	27	126	171	23	1	.	348
2.50 - 2.99	.	.	.	.	.	11	53	35	6	.	105
3.00 - 3.49	.	.	.	.	.	.	5	5	5	.	15
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	1149	2483	3045	2875	2317	4895	4038	556	243	75	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 4.04 ANGLE CLASS % = 21.7

STATION 40 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	11	.	.	.	.	.	.	.	.	.	11
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	11	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 40 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

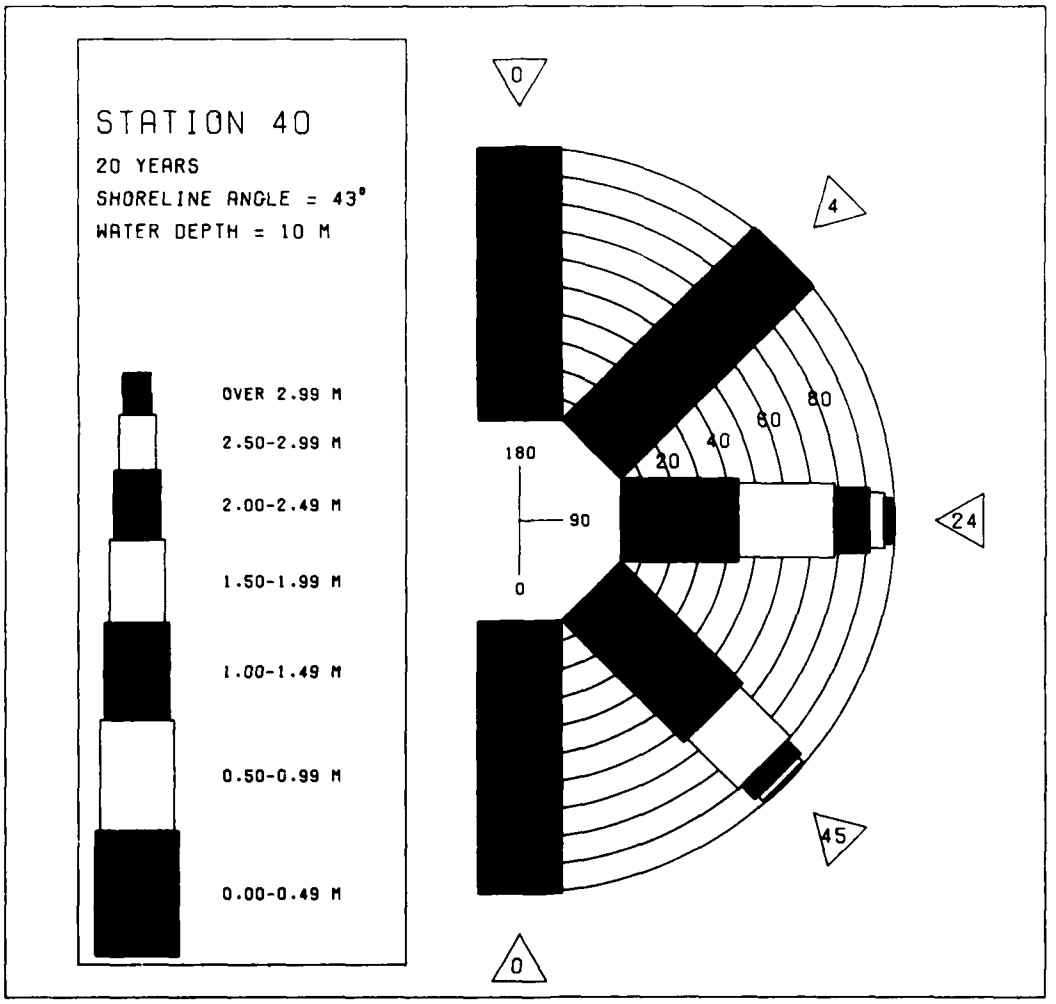
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 40 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	511	1055	667	377	521	546	330	18	68	184	4277
0.50 - 0.99	.	118	537	259	121	486	371	40	41	39	2012
1.00 - 1.49	.	.	18	139	85	158	123	23	31	48	625
1.50 - 1.99	.	.	.	5	46	95	55	11	18	6	236
2.00 - 2.49	.	.	.	.	10	45	37	8	3	2	105
2.50 - 2.99	.	.	.	.	.	6	16	9	1	.	32
3.00 - 3.49	.	.	.	.	.	.	1	3	1	.	5
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	511	1173	1222	780	783	1336	933	113	164	279	

AVE HS(M) = 0.40 LARGEST HS(M) = 4.13 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 40

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.3	0.3	0.6	0.4	0.6	0.5	0.2	0.3	0.7	0.4	0.3	0.4
1957	0.2	0.2	0.2	0.4	0.2	0.3	0.5	0.3	0.3	0.4	0.6	0.8	0.4
1958	0.7	0.3	0.6	0.6	0.5	0.6	0.4	0.3	0.3	0.6	0.4	0.2	0.5
1959	0.3	0.3	0.4	0.4	0.1	0.2	0.4	0.3	0.2	0.7	1.0	0.3	0.4
1960	0.2	0.5	0.3	0.5	0.3	1.0	0.4	0.3	0.3	0.3	0.3	0.2	0.4
1961	0.3	0.4	0.3	0.4	0.4	0.5	0.3	0.2	0.5	0.4	0.2	0.2	0.3
1962	0.4	0.4	0.2	0.6	0.2	0.3	0.2	0.3	0.2	0.3	0.6	1.0	0.4
1963	0.4	0.3	0.5	0.3	0.5	0.3	0.3	0.3	0.5	0.2	0.6	0.3	0.4
1964	0.5	0.4	0.3	0.4	0.3	0.2	0.3	0.4	0.5	0.3	0.3	0.5	0.4
1965	0.3	0.4	0.4	0.3	0.2	0.3	0.4	0.5	0.4	0.3	0.3	0.3	0.3
1966	0.3	0.2	0.3	0.4	0.4	0.5	0.4	0.3	0.5	0.2	0.9	0.3	0.4
1967	0.3	0.5	0.6	0.2	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.4
1968	0.2	0.1	0.4	0.3	0.5	0.6	0.6	0.5	0.4	0.2	0.4	0.3	0.4
1969	0.4	0.2	0.3	0.5	0.5	0.3	0.3	0.7	0.4	0.2	0.6	0.4	0.4
1970	0.1	0.6	0.3	0.4	0.6	0.6	0.5	0.3	0.3	0.5	0.4	0.3	0.4
1971	0.2	0.6	0.3	0.4	0.7	0.7	0.5	0.4	0.4	0.4	0.3	0.2	0.4
1972	0.4	0.6	0.7	0.2	0.7	0.6	0.3	0.2	0.2	0.7	0.4	0.4	0.5
1973	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.2	0.3	0.6	0.9	0.4
1974	0.4	0.3	1.1	0.9	0.4	0.4	0.6	0.3	0.3	0.2	0.3	0.5	0.5
1975	0.3	0.4	0.4	0.3	0.2	0.5	0.6	0.2	0.2	0.2	0.4	1.0	0.4
MEAN	0.3	0.4	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.4	0.5	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 40

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.1	1.6	3.3	1.4	1.6	2.0	1.0	2.1	1.6	2.1	2.1
1957	1.7	1.8	2.3	2.5	1.1	1.8	1.1	1.2	1.3	1.4	2.2	2.4
1958	2.8	3.4	3.3	2.4	1.3	1.5	0.9	2.0	1.5	2.3	2.4	1.7
1959	2.8	2.1	2.9	2.2	0.8	1.0	2.4	1.1	0.9	3.0	2.6	2.5
1960	2.1	3.3	2.4	2.4	1.2	2.3	2.6	1.4	2.6	2.3	1.2	2.2
1961	1.6	2.5	2.8	2.4	2.6	1.5	1.0	1.2	3.5	1.2	1.3	2.0
1962	2.1	1.9	2.7	2.5	0.9	1.0	1.1	1.6	1.8	2.3	2.9	2.9
1963	2.5	2.1	2.4	1.6	2.8	1.3	1.2	2.1	2.0	1.5	2.8	2.4
1964	2.9	2.9	1.8	1.6	1.1	1.0	1.5	2.0	2.1	1.3	2.6	2.0
1965	2.3	2.5	1.7	2.2	0.7	1.1	0.9	1.3	1.4	2.0	1.4	2.1
1966	3.0	2.1	1.6	1.6	1.3	1.8	1.8	1.2	2.6	1.1	2.6	2.2
1967	2.3	2.2	2.3	1.9	2.9	1.9	1.0	1.4	2.2	2.0	2.2	2.6
1968	2.4	1.1	2.7	1.9	2.8	1.8	1.0	1.1	1.5	1.7	2.9	2.2
1969	1.9	1.8	3.8	2.0	2.3	0.9	1.1	1.5	1.8	1.0	2.7	3.4
1970	1.8	3.2	1.9	2.6	1.6	1.4	1.3	2.1	1.4	2.6	2.3	3.3
1971	2.7	2.5	3.6	3.0	2.3	1.2	1.4	2.1	1.5	1.9	1.9	1.5
1972	1.6	4.1	3.0	2.0	2.6	2.9	1.0	0.9	2.6	2.5	3.1	3.4
1973	2.7	2.8	2.3	2.9	1.9	1.8	1.4	1.9	1.2	2.7	2.3	4.1
1974	2.4	2.6	3.2	2.6	2.3	1.4	1.3	1.4	1.9	1.0	2.0	3.6
1975	2.7	2.6	3.7	2.3	1.1	1.8	1.7	0.7	1.8	1.2	2.3	3.1

LARGEST HS(METRES) FOR STATION 40 = 4.1

STATION 41 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3569	7811	5799	2489	1324	1546	87				22625
0.50 - 0.99	.	277	2116	1353	525	396	42	3	15	5	4732
1.00 - 1.49	.	.	5	99	104	8	3	3	1	.	223
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3569	8088	7920	3941	1954	1950	132	6	16	5	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.68 ANGLE CLASS % = 27.6

STATION 41 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	900	1358	.	.	2375	2529	3054	143	735	219	11313
0.50 - 0.99	.	624	1702	396	196	713	747	189	338	462	5367
1.00 - 1.49	.	.	121	715	395	508	186	71	130	44	2170
1.50 - 1.99	.	.	1	18	215	386	154	59	15	3	851
2.00 - 2.49	.	.	.	.	41	174	68	29	5	6	343
2.50 - 2.99	.	.	.	.	.	17	18	20	1	.	56
3.00 - 3.49	.	.	.	.	.	.	1	8	5	3	17
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	900	1982	1824	1129	3222	4327	4248	519	1230	737	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 3.57 ANGLE CLASS % = 20.1

STATION 41 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	682	1324	420	47	562	1721	1327	124	27	1601	7835
0.50 - 0.99	.	256	1415	807	231	1972	1827	237	71	186	7002
1.00 - 1.49	.	.	32	448	359	662	691	77	66	46	2381
1.50 - 1.99	.	.	.	13	162	473	265	30	41	11	995
2.00 - 2.49	.	.	.	.	41	244	224	23	3	1	536
2.50 - 2.99	.	.	.	.	.	22	102	51	5	.	180
3.00 - 3.49	.	.	.	.	.	.	6	22	11	.	39
3.50 - 3.99	.	.	.	.	.	.	.	3	6	.	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	682	1580	1867	1315	1355	5094	4442	567	230	1848	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 4.08 ANGLE CLASS % = 19.0

STATION 41 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	569	1095	1451	2162	770	82	5	.	.	3	6137
0.50 - 0.99	.	5	25	111	126	128	25	1	.	.	420
1.00 - 1.49	.	.	1	3	15	41	35	11	.	.	106
1.50 - 1.99	.	.	.	.	8	11	3	1	3	.	26
2.00 - 2.49	.	.	.	.	.	10	5	.	.	.	15
2.50 - 2.99	.	.	.	.	.	.	1	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	569	1100	1477	2276	919	272	74	13	3	3	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 3.11 ANGLE CLASS % = 6.7

STATION 41 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 41 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

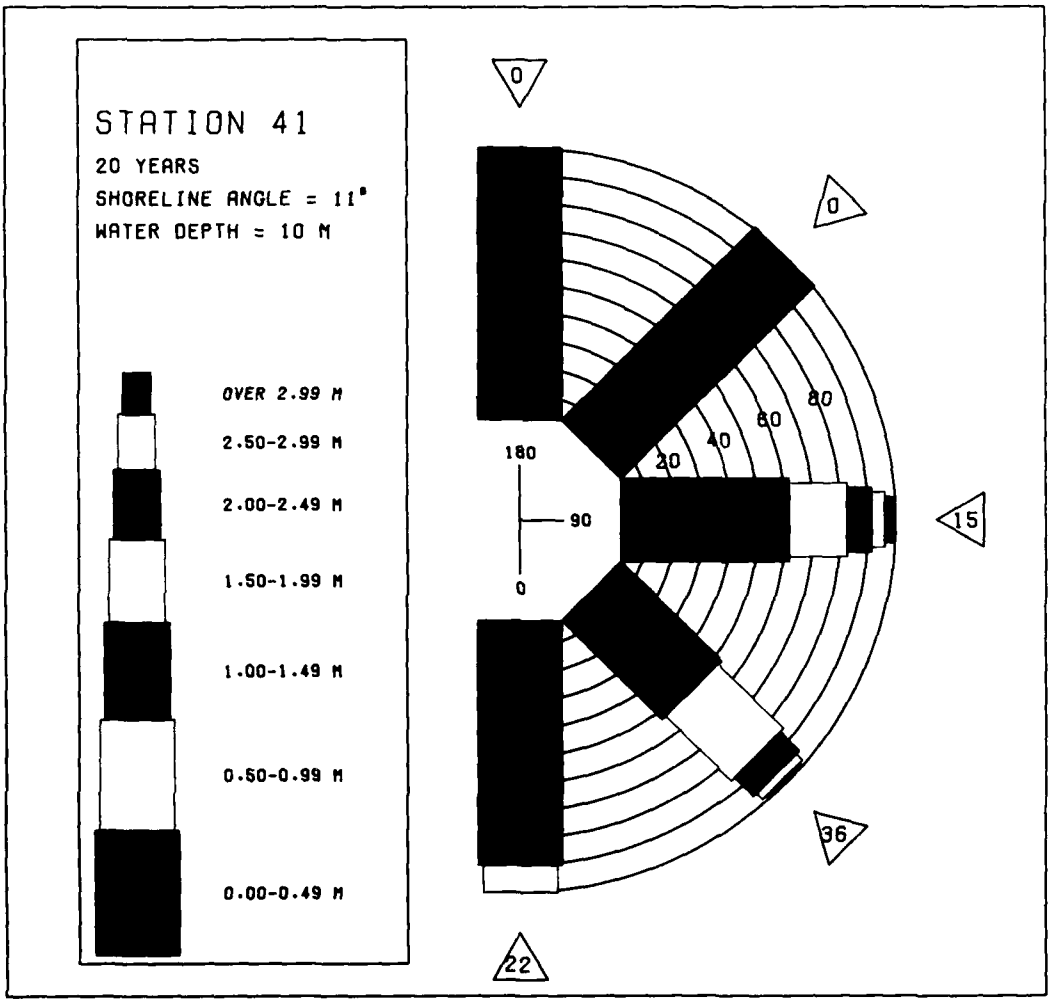
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 41 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	572	1158	767	470	503	587	447	26	76	182	4788
0.50 - 0.99	.	116	526	266	107	321	264	43	42	65	1750
1.00 - 1.49	.	.	16	126	87	122	91	16	19	9	486
1.50 - 1.99	.	.	.	3	38	87	42	9	5	1	185
2.00 - 2.49	.	.	.	.	8	42	31	5	.	.	86
2.50 - 2.99	.	.	.	.	.	3	12	7	.	.	22
3.00 - 3.49	.	.	.	.	.	.	.	3	1	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	572	1274	1309	865	743	1162	887	109	143	257	

AVE HS(M) = 0.35 LARGEST HS(M) = 4.08 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 41

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.3	0.3	0.4	0.3	0.5	0.3	0.2	0.4	0.7	0.4	0.3	0.4
1957	0.2	0.2	0.2	0.4	0.2	0.3	0.3	0.3	0.3	0.4	0.5	0.7	0.3
1958	0.6	0.3	0.7	0.5	0.4	0.6	0.3	0.3	0.2	0.7	0.4	0.2	0.4
1959	0.3	0.2	0.4	0.3	0.1	0.2	0.4	0.3	0.2	0.7	0.9	0.3	0.4
1960	0.2	0.5	0.3	0.4	0.3	0.8	0.4	0.3	0.3	0.3	0.3	0.2	0.3
1961	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.2	0.5	0.4	0.2	0.2	0.3
1962	0.3	0.4	0.3	0.5	0.2	0.2	0.2	0.3	0.2	0.3	0.6	0.8	0.3
1963	0.4	0.3	0.4	0.3	0.4	0.2	0.2	0.3	0.5	0.2	0.6	0.2	0.3
1964	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.6	0.3	0.3	0.4	0.3
1965	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.3
1966	0.2	0.2	0.3	0.4	0.3	0.4	0.3	0.3	0.5	0.2	0.8	0.4	0.3
1967	0.3	0.4	0.5	0.2	0.4	0.4	0.2	0.3	0.3	0.3	0.2	0.3	0.3
1968	0.3	0.1	0.4	0.2	0.4	0.6	0.6	0.5	0.4	0.2	0.4	0.3	0.4
1969	0.4	0.2	0.3	0.4	0.4	0.3	0.3	0.5	0.4	0.2	0.6	0.4	0.4
1970	0.1	0.5	0.3	0.4	0.6	0.5	0.3	0.2	0.2	0.5	0.4	0.3	0.4
1971	0.2	0.4	0.3	0.4	0.6	0.6	0.4	0.3	0.3	0.4	0.2	0.2	0.4
1972	0.3	0.5	0.7	0.2	0.6	0.5	0.2	0.2	0.3	0.7	0.3	0.4	0.4
1973	0.3	0.3	0.4	0.4	0.5	0.4	0.3	0.2	0.2	0.3	0.4	0.8	0.4
1974	0.3	0.3	0.9	0.6	0.3	0.4	0.5	0.2	0.2	0.1	0.3	0.5	0.4
1975	0.3	0.3	0.4	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.3	0.9	0.3
MEAN	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 41

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.5	1.8	2.0	2.8	1.2	1.1	1.5	1.2	2.1	2.0	2.0	1.9
1957	1.5	1.5	2.2	2.3	0.9	1.5	1.0	1.1	1.1	1.6	1.9	2.2
1958	2.7	3.0	3.3	2.3	1.4	1.4	0.8	1.4	1.7	2.6	2.4	2.0
1959	2.3	1.8	2.8	1.9	0.7	1.0	2.2	1.1	0.9	3.1	2.0	2.2
1960	1.9	2.8	2.2	2.0	1.2	1.6	2.3	1.5	2.4	2.0	1.2	2.0
1961	2.0	2.7	2.6	2.4	2.5	1.2	1.1	1.2	3.5	1.1	1.6	1.9
1962	1.8	2.1	2.9	2.3	0.9	1.0	0.8	1.4	2.0	2.4	2.8	2.6
1963	2.3	2.1	2.3	1.5	2.2	1.3	1.0	1.8	1.8	1.8	2.7	2.0
1964	2.6	2.8	1.8	1.6	1.0	0.8	1.6	1.7	2.1	1.4	2.4	1.9
1965	2.6	2.5	1.9	2.0	0.7	1.1	0.9	1.3	1.4	1.8	1.2	2.1
1966	2.9	2.0	1.8	2.0	1.2	2.0	1.4	0.9	2.5	1.0	2.5	2.3
1967	2.2	1.8	2.1	1.8	2.7	2.0	0.8	1.4	2.1	1.8	1.8	2.7
1968	2.4	1.0	2.9	1.7	2.8	1.8	0.9	0.9	1.3	1.6	2.9	2.1
1969	1.7	2.2	3.6	2.0	2.0	0.8	1.3	1.1	1.7	1.0	2.7	3.2
1970	1.5	3.0	1.7	2.4	1.5	1.1	0.9	1.4	1.1	2.5	2.2	3.2
1971	2.1	2.3	3.3	2.7	2.1	1.2	1.1	2.1	1.4	1.9	2.2	1.5
1972	1.2	4.1	2.9	1.9	2.0	2.7	0.7	0.9	2.9	2.5	2.7	3.4
1973	2.5	2.5	2.0	2.8	1.6	1.7	1.2	1.7	1.1	2.8	1.8	3.7
1974	2.1	2.3	3.1	2.2	2.0	1.4	1.2	1.1	1.7	0.9	1.7	3.5
1975	2.6	2.4	3.2	2.1	0.9	1.6	1.1	0.8	1.4	1.3	2.3	3.4

LARGEST HS(METRES) FOR STATION 41 = 4.1

STATION 42 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1288	2938	1791	1249	951	1305	.	.	.	.	9522
0.50 - 0.99	.	489	2568	1202	460	1024	.	.	.	.	5743
1.00 - 1.49	.	.	61	217	200	109	.	.	.	.	587
1.50 - 1.99	.	.	.	.	8	1	.	.	.	.	9
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1288	3427	4420	2668	1619	2439	0	0	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 1.69 ANGLE CLASS % = 15.9

STATION 42 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	930	1622	.	.	1979	1630	251	8	1	1	6422
0.50 - 0.99	.	1587	3300	573	393	3441	439	10	1	.	9744
1.00 - 1.49	.	.	400	1586	657	2060	540	15	6	.	5264
1.50 - 1.99	.	.	.	80	491	1002	497	34	5	.	2109
2.00 - 2.49	.	.	.	.	70	345	277	97	1	.	790
2.50 - 2.99	.	.	.	.	1	8	51	58	15	.	133
3.00 - 3.49	.	.	.	.	.	.	.	13	25	3	41
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	930	3209	3700	2239	3591	8486	2055	235	55	5	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 3.70 ANGLE CLASS % = 24.5

STATION 42 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	539	704	.	.	1878	3167	1757	82	434	1060	9621
0.50 - 0.99	.	819	1221	77	217	3995	3485	244	371	403	10832
1.00 - 1.49	.	.	225	684	97	872	932	189	284	535	3818
1.50 - 1.99	.	.	.	46	263	278	250	61	191	77	1206
2.00 - 2.49	.	.	.	.	77	379	213	23	73	37	802
2.50 - 2.99	.	.	.	.	.	71	176	68	20	8	343
3.00 - 3.49	.	.	.	.	.	.	27	75	55	1	158
3.50 - 3.99	.	.	.	.	.	.	.	10	29	15	54
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	539	1523	1446	807	2532	8762	6880	752	1427	2141	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 5.05 ANGLE CLASS % = 26.8

STATION 42 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	438	672			713	1067	862	71	13	414	4250
0.50 - 0.99	.	785	1129	37	114	1695	1603	207	71	528	6169
1.00 - 1.49	.	.	234	698	114	361	706	75	51	162	2421
1.50 - 1.99	.	.	.	85	249	210	222	32	56	63	917
2.00 - 2.49	.	.	.	.	68	304	172	11	3	29	587
2.50 - 2.99	.	.	.	.	.	56	123	42	5	6	232
3.00 - 3.49	.	.	.	.	.	.	10	25	10	.	45
3.50 - 3.99	.	.	.	.	.	.	.	8	5	.	13
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	438	1457	1363	820	1258	3713	3698	471	214	1205	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.08 ANGLE CLASS % = 14.7

STATION 42 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	249	424	3	.	527	1278	744	87	234	191	3737
0.50 - 0.99	.	453	1040	284	95	590	569	184	99	393	3707
1.00 - 1.49	.	.	138	593	361	419	191	25	51	119	1897
1.50 - 1.99	.	.	.	30	155	398	123	18	5	25	754
2.00 - 2.49	.	.	.	.	39	119	83	22	3	5	271
2.50 - 2.99	.	.	.	.	.	5	11	10	1	.	27
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	249	877	1181	907	1177	2809	1721	346	393	733	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 2.91 ANGLE CLASS % = 10.4

STATION 42 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

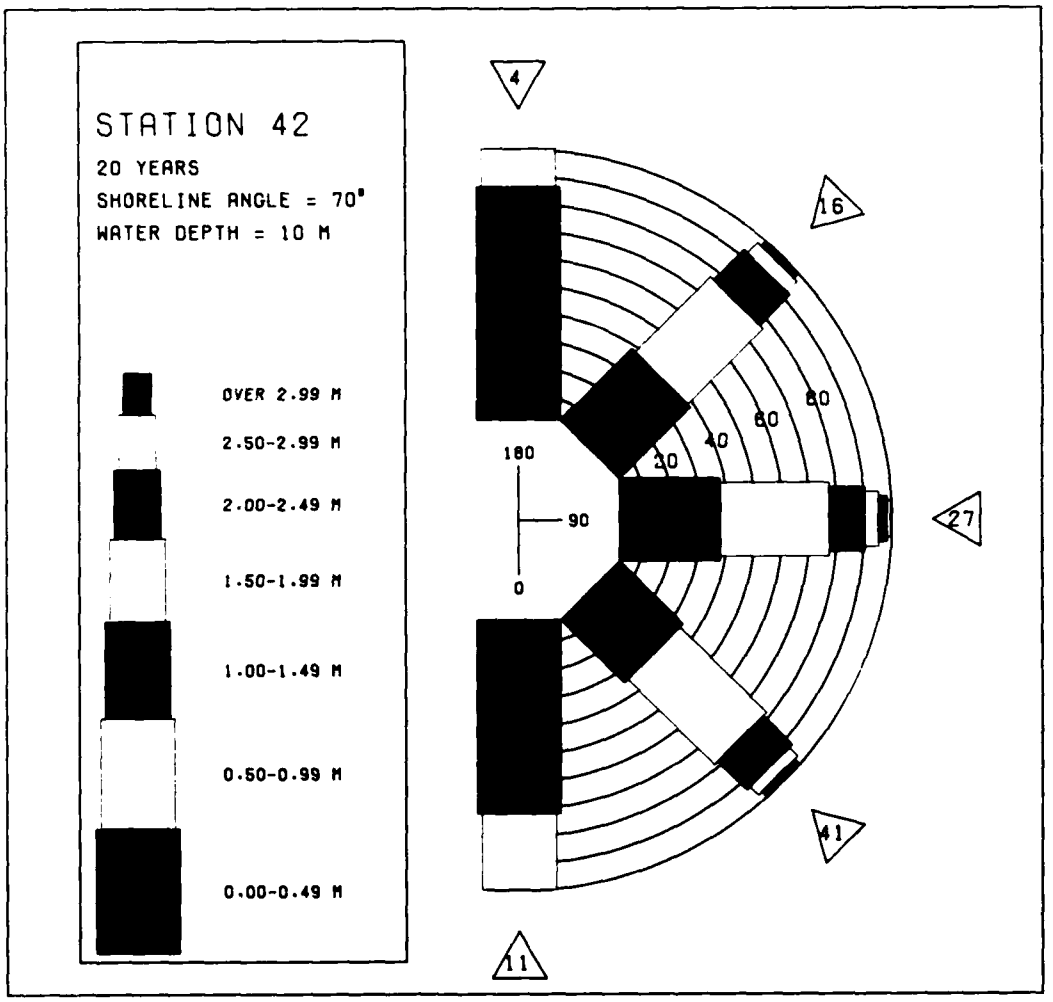
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	446	1067	1001	1225	424	58	.	.	.	.	4221
0.50 - 0.99	.	92	627	756	164	32	.	.	.	.	1671
1.00 - 1.49	.	.	5	32	20	3	.	.	.	.	60
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	3	.	.	.	.	.	3
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	446	1159	1633	2013	612	93	0	0	0	0	

AVERAGE HS(M) = 0.35 LARGEST HS(M) = 2.22 ANGLE CLASS % = 6.0

STATION 42 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	389	742	279	247	647	850	361	24	68	166	3773
0.50 - 0.99	.	422	688	293	144	1078	609	64	54	132	3784
1.00 - 1.49	.	.	106	381	145	384	237	30	39	81	1403
1.50 - 1.99	.	.	.	24	117	189	113	14	25	16	498
2.00 - 2.49	.	.	.	.	25	114	74	15	8	7	243
2.50 - 2.99	.	.	.	.	.	14	36	17	4	1	72
3.00 - 3.49	.	.	.	.	.	.	3	11	6	.	20
3.50 - 3.99	.	.	.	.	.	.	.	1	3	1	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	389	1164	1373	945	1078	2629	1433	176	207	404	

AVE HS(M) = 0.72 LARGEST HS(M) = 5.05 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 42

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.9	0.7	0.9	0.6	0.7	0.7	0.4	0.5	0.8	0.7	0.7	0.7
1957	0.5	0.6	0.6	0.7	0.5	0.5	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1958	0.8	0.7	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.7	0.8	0.5	0.7
1959	0.8	0.7	0.8	0.7	0.5	0.5	0.7	0.5	0.3	0.9	1.0	0.7	0.7
1960	0.5	1.0	0.6	1.0	0.6	0.8	0.5	0.6	0.5	0.5	0.6	0.5	0.6
1961	0.6	0.8	0.6	0.9	0.7	0.8	0.5	0.5	0.7	0.8	0.7	0.7	0.7
1962	0.8	0.7	1.0	1.0	0.4	0.5	0.6	0.5	0.5	0.7	0.8	1.1	0.7
1963	0.6	0.7	0.9	0.5	0.8	0.6	0.5	0.4	0.6	0.4	1.0	0.6	0.6
1964	1.0	0.8	0.9	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.9	0.7
1965	0.7	0.8	0.7	0.6	0.4	0.5	0.6	0.7	0.5	0.7	0.8	0.6	0.6
1966	0.6	0.5	0.6	0.6	0.7	0.8	0.7	0.6	0.7	0.5	0.7	0.7	0.6
1967	0.7	0.9	1.0	0.5	0.7	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.7
1968	0.4	0.5	0.8	0.6	0.7	0.7	0.5	0.5	0.4	0.5	0.8	0.8	0.6
1969	0.7	0.7	1.2	1.0	0.8	0.5	0.5	0.8	0.6	0.5	0.8	0.8	0.7
1970	0.4	0.9	0.6	0.8	0.7	0.7	0.6	0.5	0.5	0.6	0.7	0.7	0.7
1971	0.6	1.0	0.8	0.7	1.0	0.7	0.7	0.6	0.5	0.7	0.6	0.7	0.7
1972	0.8	1.0	1.1	0.6	0.8	0.8	0.5	0.4	0.5	0.8	0.8	0.9	0.7
1973	0.8	0.8	0.8	0.9	0.8	0.7	0.5	0.4	0.4	0.7	1.2	1.5	0.8
1974	0.8	0.8	1.3	1.2	0.6	0.6	0.6	0.5	0.4	0.4	0.6	0.8	0.7
1975	0.9	1.1	0.8	0.6	0.3	0.6	0.7	0.3	0.4	0.4	0.7	1.1	0.7
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.6	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 42

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.3	2.8	2.6	4.2	1.8	2.0	2.4	1.1	2.0	1.8	2.4	2.4
1957	2.1	2.0	2.5	2.9	1.2	2.4	1.5	1.2	2.1	1.7	2.7	2.7
1958	2.5	2.9	3.2	2.1	1.5	1.5	1.4	2.3	1.5	2.3	2.4	1.7
1959	3.5	2.4	3.0	2.3	1.3	1.3	2.5	1.4	1.0	3.0	2.8	2.9
1960	2.2	3.5	2.5	2.8	1.4	1.8	2.8	1.7	2.4	2.5	2.2	2.3
1961	2.1	3.0	2.7	2.6	2.5	2.2	1.2	1.4	3.1	1.7	2.1	2.2
1962	2.5	1.7	2.7	3.0	1.1	1.3	1.4	1.5	1.4	2.4	2.9	4.0
1963	2.5	2.5	2.5	1.9	3.2	1.6	1.5	2.5	2.4	1.8	3.8	2.5
1964	3.7	3.0	2.6	2.2	1.3	1.2	1.5	2.4	2.0	1.7	2.7	2.4
1965	2.5	2.6	2.0	2.1	0.9	1.2	1.5	1.5	1.6	2.4	2.3	2.1
1966	3.0	2.5	1.8	2.0	1.6	2.5	1.7	2.0	2.6	1.3	2.6	2.5
1967	2.4	2.6	2.3	2.0	2.3	1.4	1.3	1.4	2.1	2.5	2.4	2.6
1968	2.4	1.6	2.8	2.4	2.5	1.9	1.0	1.4	1.6	2.1	3.1	3.3
1969	1.8	2.0	2.9	2.1	2.9	1.1	1.3	2.1	1.7	2.1	2.7	3.4
1970	2.2	3.0	2.1	4.0	1.5	1.5	1.6	1.8	2.3	2.6	2.7	3.4
1971	2.9	2.7	3.6	3.6	2.3	1.1	1.9	2.5	1.4	2.2	2.5	1.9
1972	2.4	4.1	3.1	1.5	2.8	3.0	1.4	1.4	2.5	2.5	3.4	3.5
1973	3.6	3.6	3.5	3.1	2.5	1.7	1.5	2.1	2.2	2.7	3.1	4.2
1974	2.9	3.4	3.7	3.2	2.5	1.6	1.4	2.0	2.3	1.9	2.0	3.3
1975	2.9	3.5	3.5	2.9	1.3	1.7	1.8	0.8	2.1	1.6	2.3	3.1

LARGEST HS(METRES) FOR STATION 42 = 4.2

STATION 43 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1500	3482	1950	1404	419	42	3	.	.	.	8800
0.50 - 0.99	.	595	3078	1978	121	11	.	.	.	.	5783
1.00 - 1.49	.	.	44	321	66	8	.	.	.	.	439
1.50 - 1.99	.	.	.	3	8	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	3	.	.	.	.	.	3
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1500	4077	5072	3706	617	61	3	0	0	0	

AVERAGE HS(M) = 0.46 LARGEST HS(M) = 2.21 ANGLE CLASS % = 15.0

STATION 43 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	959	1680	.	.	2092	4601	1363	59	15	.	10769
0.50 - 0.99	.	1625	3246	604	159	4345	2700	320	5	.	12604
1.00 - 1.49	.	.	296	1531	610	999	918	27	5	.	4386
1.50 - 1.99	.	.	.	77	343	562	337	39	10	.	1368
2.00 - 2.49	.	.	.	.	54	328	184	13	11	.	590
2.50 - 2.99	.	.	.	.	.	15	46	20	.	.	81
3.00 - 3.49	.	.	.	.	.	.	5	18	.	.	23
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	959	3305	3542	2212	3258	10750	5553	196	47	0	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 4.20 ANGLE CLASS % = 29.8

STATION 43 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	545	773	.	.	1315	2393	1307	171	268	152	6924
0.50 - 0.99	.	780	1279	83	201	3018	1883	349	492	525	8610
1.00 - 1.49	.	.	184	593	87	835	660	188	446	143	3136
1.50 - 1.99	.	.	1	70	242	297	340	114	131	27	1222
2.00 - 2.49	.	.	.	.	71	383	220	73	41	8	796
2.50 - 2.99	.	.	.	.	.	56	184	61	22	3	326
3.00 - 3.49	.	.	.	.	.	.	23	63	8	5	99
3.50 - 3.99	.	.	.	.	.	.	.	10	17	5	32
4.00 - 4.49	.	.	.	.	.	.	.	.	3	1	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	545	1553	1464	746	1916	6982	4617	1029	1428	869	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 4.18 ANGLE CLASS % = 21.2

STATION 43 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	451	586	.	.	643	1545	1454	256	183	508	5626
0.50 - 0.99	.	797	1216	59	65	860	1274	308	112	1026	5717
1.00 - 1.49	.	.	222	703	97	208	361	42	71	485	2189
1.50 - 1.99	.	.	.	85	236	150	119	6	39	75	710
2.00 - 2.49	.	.	.	.	66	254	123	3	1	10	457
2.50 - 2.99	.	.	.	.	.	46	85	29	5	.	165
3.00 - 3.49	.	.	.	.	.	.	10	32	1	.	43
3.50 - 3.99	.	.	.	.	.	.	.	3	5	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	451	1383	1438	847	1107	3063	3426	679	417	2105	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.11 ANGLE CLASS % = 14.9

STATION 43 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	333	561	5	.	658	1425	912	83	208	.	4185
0.50 - 0.99	.	456	1148	374	135	924	773	164	171	23	4168
1.00 - 1.49	.	.	118	592	415	453	225	25	34	3	1865
1.50 - 1.99	.	.	.	8	140	431	97	15	1	5	697
2.00 - 2.49	.	.	.	.	32	135	78	8	.	.	253
2.50 - 2.99	.	.	.	.	.	6	11	15	.	.	32
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	333	1017	1271	974	1380	3374	2096	331	414	31	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 3.31 ANGLE CLASS % = 11.2

STATION 43 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

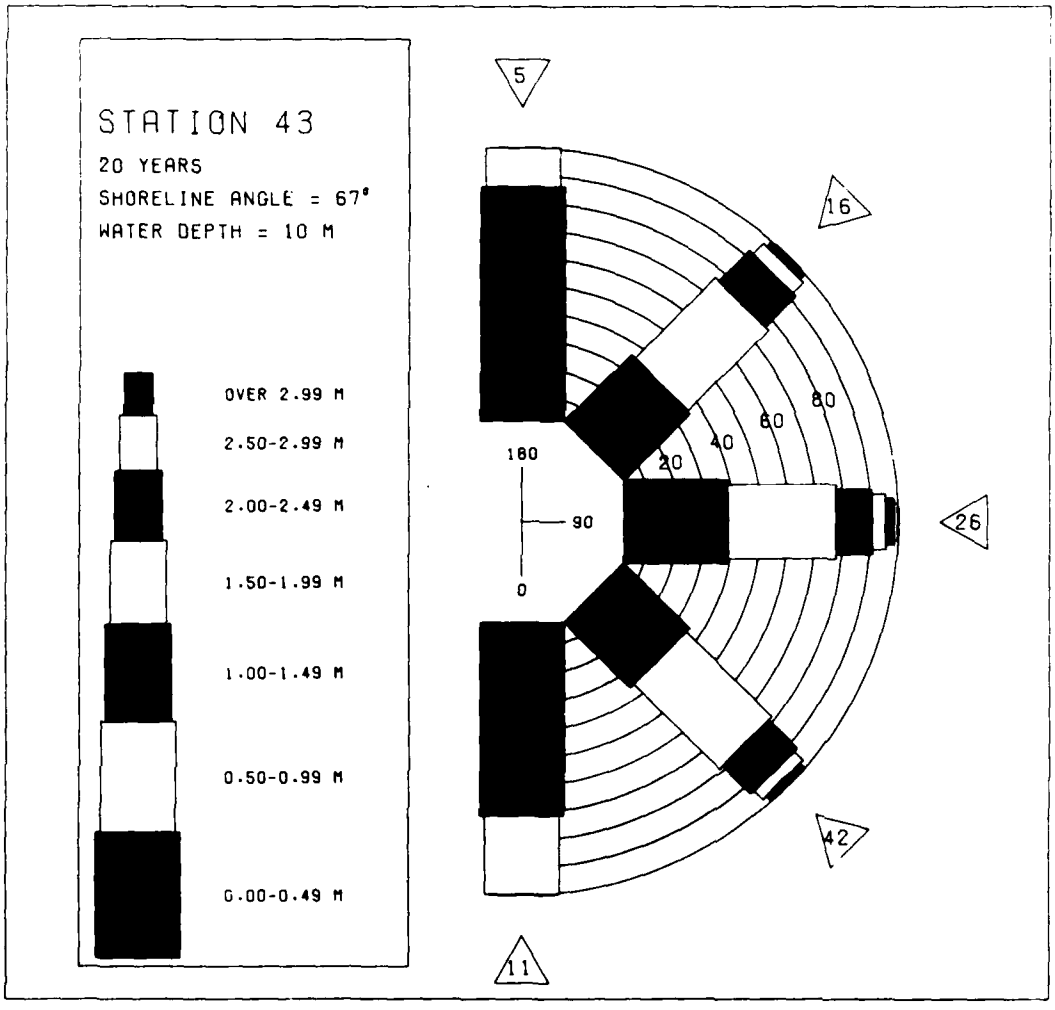
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	530	1279	1059	1170	318	56	.	.	.	.	4412
0.50 - 0.99	.	80	751	862	193	15	.	.	.	.	1901
1.00 - 1.49	.	.	5	53	29	.	.	.	.	.	87
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	530	1359	1815	2085	544	71	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 2.09 ANGLE CLASS % = 6.4

STATION 43 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	432	836	301	257	544	1006	504	57	67	66	4070
0.50 - 0.99	.	433	1072	396	87	907	663	86	78	157	3879
1.00 - 1.49	.	.	87	379	130	250	216	28	55	63	1208
1.50 - 1.99	.	.	.	24	97	144	89	17	18	10	399
2.00 - 2.49	.	.	.	.	23	110	60	9	5	1	208
2.50 - 2.99	.	.	.	.	.	12	32	12	2	.	58
3.00 - 3.49	.	.	.	.	.	.	3	11	1	.	15
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	432	1269	1460	1056	881	2429	1567	221	228	297	

AVE HS(M) = 0.68 LARGEST HS(M) = 4.20 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 43

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.9	0.7	0.9	0.5	0.7	0.7	0.4	0.5	0.8	0.7	0.7	0.7
1957	0.5	0.6	0.6	0.7	0.5	0.5	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1958	0.8	0.6	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.7	0.8	0.5	0.7
1959	0.8	0.7	0.8	0.7	0.4	0.5	0.7	0.5	0.3	0.9	1.0	0.7	0.7
1960	0.5	1.0	0.6	1.0	0.6	0.8	0.6	0.6	0.5	0.5	0.6	0.5	0.7
1961	0.6	0.8	0.6	0.9	0.7	0.8	0.5	0.5	0.7	0.8	0.7	0.7	0.7
1962	0.8	0.7	1.0	1.0	0.4	0.5	0.5	0.5	0.5	0.7	0.8	1.1	0.7
1963	0.6	0.6	0.9	0.5	0.8	0.5	0.5	0.4	0.7	0.5	1.0	0.5	0.6
1964	1.0	0.8	0.9	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.8	0.7
1965	0.7	0.8	0.7	0.6	0.4	0.5	0.5	0.7	0.5	0.7	0.8	0.6	0.6
1966	0.6	0.5	0.6	0.6	0.7	0.8	0.7	0.6	0.7	0.5	0.7	0.7	0.6
1967	0.7	0.9	1.1	0.6	0.7	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.7
1968	0.4	0.5	0.8	0.6	0.7	0.7	0.5	0.5	0.4	0.5	0.8	0.8	0.6
1969	0.7	0.7	1.2	1.0	0.8	0.5	0.5	0.8	0.6	0.5	0.8	0.8	0.7
1970	0.4	0.9	0.6	0.8	0.7	0.7	0.6	0.5	0.5	0.6	0.7	0.7	0.6
1971	0.6	1.0	0.8	0.7	1.0	0.7	0.7	0.6	0.5	0.8	0.6	0.6	0.7
1972	0.8	1.0	1.0	0.6	0.8	0.8	0.5	0.4	0.5	0.8	0.8	0.9	0.7
1973	0.8	0.8	0.8	0.9	0.8	0.7	0.5	0.4	0.4	0.7	1.1	1.5	0.8
1974	0.8	0.8	1.3	1.2	0.6	0.6	0.5	0.5	0.4	0.4	0.6	0.8	0.7
1975	0.9	1.1	0.8	0.6	0.3	0.6	0.8	0.3	0.4	0.4	0.7	1.1	0.7
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.6	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 43

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.5	2.6	2.9	4.2	1.8	2.0	2.4	1.1	2.2	2.0	2.4	2.4
1957	2.0	2.0	2.5	2.8	1.2	2.4	1.5	1.2	2.1	1.8	2.6	2.7
1958	2.5	2.9	3.2	2.1	1.6	1.5	1.4	2.3	1.5	2.3	2.4	1.7
1959	3.4	2.4	3.0	2.3	1.2	1.3	2.5	1.4	1.0	3.0	2.7	2.8
1960	2.2	3.5	2.5	2.8	1.3	1.8	2.8	1.7	2.4	2.5	2.2	2.3
1961	1.9	2.9	2.7	2.6	2.5	2.2	1.2	1.4	3.1	1.7	2.1	2.1
1962	2.5	1.7	2.7	3.0	1.1	1.3	1.4	1.5	1.4	2.2	2.9	3.9
1963	2.4	2.5	2.4	1.9	3.2	1.5	1.5	2.5	2.3	1.8	3.6	2.5
1964	3.7	3.0	2.6	2.2	1.3	1.2	1.6	2.4	2.0	1.7	2.6	2.4
1965	2.5	2.6	2.0	2.0	0.9	1.3	1.5	1.5	1.6	2.4	2.3	2.1
1966	2.9	2.3	1.9	2.0	1.6	2.5	1.7	2.0	2.6	1.3	2.6	2.5
1967	2.4	2.6	2.3	2.0	2.4	1.4	1.3	1.4	2.1	2.5	2.4	2.6
1968	2.4	1.6	2.8	2.4	2.6	1.9	0.9	1.3	1.6	2.0	3.1	3.3
1969	2.0	2.2	2.9	2.1	2.9	1.1	1.3	2.1	1.7	2.1	2.7	3.4
1970	2.2	2.9	2.1	4.0	1.5	1.4	1.6	1.8	2.3	2.6	2.7	3.4
1971	2.9	2.7	3.6	3.4	2.2	1.1	1.9	2.5	1.4	2.2	2.5	1.8
1972	2.4	4.1	3.1	1.5	2.8	3.0	1.4	1.4	2.6	2.5	3.4	3.5
1973	3.4	3.6	3.5	3.1	2.4	1.7	1.4	2.1	2.2	2.8	3.1	4.2
1974	2.9	3.4	3.7	3.2	2.5	1.7	1.4	1.9	2.3	1.9	2.0	3.3
1975	2.9	3.3	3.6	2.9	1.3	1.7	1.8	0.8	2.1	1.6	2.3	3.2

LARGEST HS(METRES) FOR STATION 43 = 4.2

STATION 44 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1507	3487	1995	1449	432	44	.	.	.	.	8914
0.50 - 0.99	.	568	3044	1991	136	10	.	.	.	.	5749
1.00 - 1.49	.	.	42	328	65	11	.	.	.	.	446
1.50 - 1.99	.	.	.	3	10	.	.	.	.	.	13
2.00 - 2.49	.	.	.	.	3	.	.	.	.	.	3
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1507	4055	5081	3771	646	65	0	0	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 2.21 ANGLE CLASS % = 15.1

STATION 44 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	977	1711	.	.	1613	2748	511	53	15	.	7628
0.50 - 0.99	.	1622	3299	614	152	3088	1214	27	5	.	10021
1.00 - 1.49	.	.	294	1565	616	900	746	20	5	.	4142
1.50 - 1.99	.	.	.	80	330	530	335	39	10	.	1324
2.00 - 2.49	.	.	.	.	56	340	177	11	10	.	594
2.50 - 2.99	.	.	.	.	.	13	51	18	.	.	82
3.00 - 3.49	.	.	.	.	.	.	6	22	.	.	28
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	977	3333	3593	2259	2763	7619	3040	190	46	0	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 4.20 ANGLE CLASS % = 23.8

STATION 44 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	566	799	.	.	1788	4123	2108	162	268	154	9968
0.50 - 0.99	.	778	1293	88	213	4252	3424	355	491	525	11419
1.00 - 1.49	.	.	193	581	92	961	852	198	443	143	3463
1.50 - 1.99	.	.	1	65	246	314	338	114	130	27	1235
2.00 - 2.49	.	.	.	.	71	386	231	73	39	8	808
2.50 - 2.99	.	.	.	.	.	58	188	68	25	3	342
3.00 - 3.49	.	.	.	.	.	.	23	56	8	5	92
3.50 - 3.99	.	.	.	.	.	.	.	13	17	5	35
4.00 - 4.49	.	.	.	.	.	.	.	.	3	1	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	566	1577	1487	734	2410	10094	7164	1039	1424	871	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.24 ANGLE CLASS % = 27.4

STATION 44 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	480	612			645	1533	1456	249	184	501	5660
0.50 - 0.99	.	814	1225	61	45	965	1279	514	172	1021	5756
1.00 - 1.49	.	.	212	715	97	208	357	42	75	484	2188
1.50 - 1.99	.	.	.	90	227	160	123	9	34	75	715
2.00 - 2.49	.	.	.	.	66	260	124	3	1	10	461
2.50 - 2.99	.	.	.	.	.	46	87	30	5	.	168
3.00 - 3.49	.	.	.	.	.	.	10	34	1	.	45
3.50 - 3.99	.	.	.	.	.	.	.	3	5	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	480	1426	1437	866	1100	3072	3433	681	417	2090	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.11 ANGLE CLASS % = 15.0

STATION 44 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	340	530	6		636	1401	961	78	208		4160
0.50 - 0.99	.	451	1148	367	123	802	590	186	181	35	3883
1.00 - 1.49	.	.	124	581	417	458	193	25	27	5	1830
1.50 - 1.99	.	.	.	10	147	414	95	15	.	3	684
2.00 - 2.49	.	.	.	.	32	126	83	8	.	.	249
2.50 - 2.99	.	.	.	.	.	5	10	11	.	.	26
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	340	981	1278	958	1355	3206	1932	324	416	43	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.31 ANGLE CLASS % = 10.9

STATION 44 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

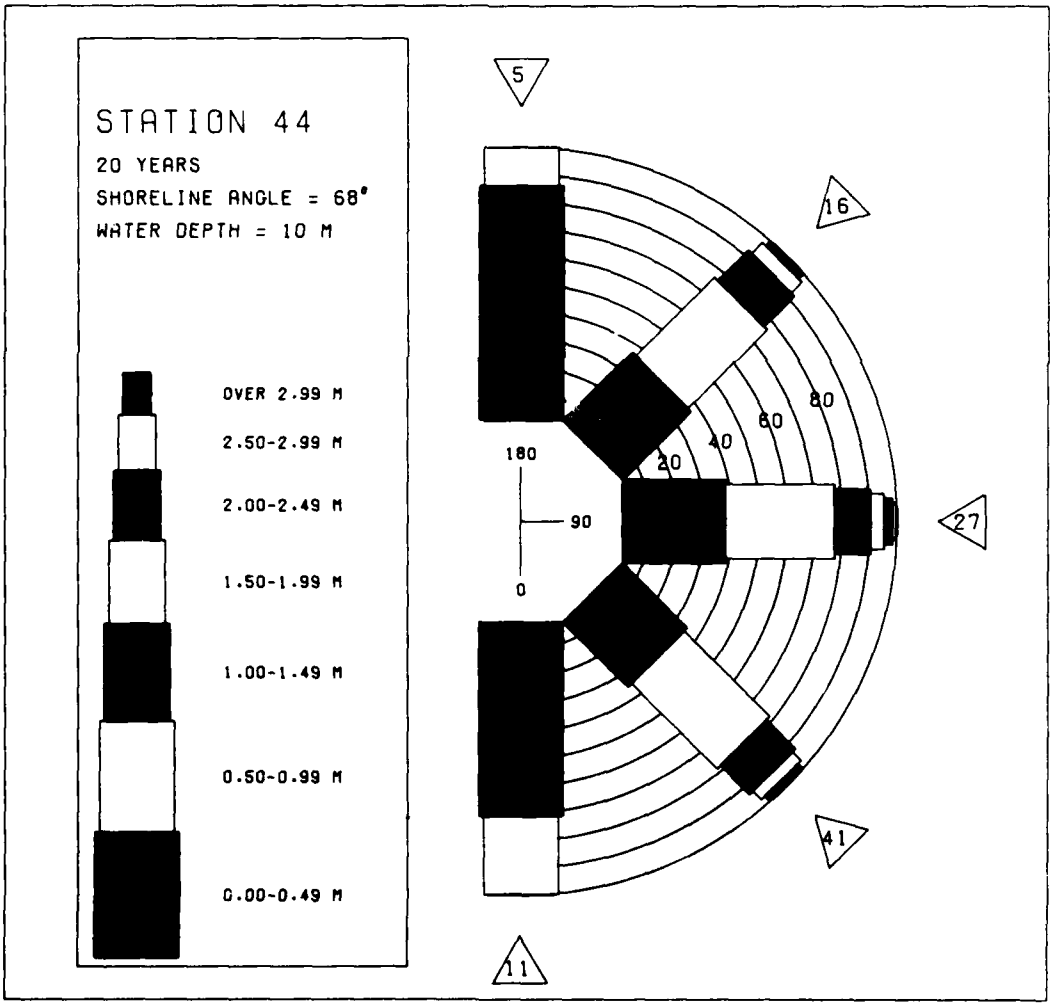
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	542	1273	1076	1134	331	58	.	.	.	.	4414
0.50 - 0.99	.	85	747	870	208	17	.	.	.	.	1927
1.00 - 1.49	.	.	5	56	25	1	.	.	.	.	87
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	542	1358	1828	2060	566	76	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 2.09 ANGLE CLASS % = 6.4

STATION 44 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	441	841	307	258	544	990	503	54	67	65	4070
0.50 - 0.99	.	432	1075	399	90	903	650	88	79	158	3874
1.00 - 1.49	.	.	87	382	131	254	214	28	55	63	1214
1.50 - 1.99	.	.	.	24	96	142	89	17	17	10	395
2.00 - 2.49	.	.	.	.	23	111	61	9	5	1	210
2.50 - 2.99	.	.	.	.	.	12	33	13	3	.	61
3.00 - 3.49	.	.	.	.	.	.	4	11	1	.	16
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	441	1273	1469	1063	884	2412	1554	221	229	297	

AVE HS(M) = 0.68 LARGEST HS(M) = 4.24 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 44

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.9	0.7	0.9	0.5	0.7	0.7	0.4	0.5	0.8	0.7	0.7	0.7
1957	0.5	0.6	0.6	0.7	0.5	0.5	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1958	0.8	0.7	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.7	0.8	0.5	0.7
1959	0.8	0.7	0.8	0.7	0.4	0.5	0.7	0.5	0.3	0.9	1.0	0.7	0.7
1960	0.5	1.0	0.6	1.0	0.6	0.8	0.5	0.6	0.5	0.5	0.6	0.5	0.6
1961	0.6	0.8	0.6	0.9	0.7	0.8	0.5	0.5	0.7	0.8	0.7	0.7	0.7
1962	0.8	0.7	1.0	1.0	0.4	0.5	0.6	0.5	0.5	0.7	0.8	1.1	0.7
1963	0.6	0.7	0.9	0.5	0.8	0.5	0.5	0.4	0.7	0.5	1.0	0.5	0.6
1964	1.0	0.8	0.9	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.9	0.7
1965	0.7	0.8	0.7	0.6	0.4	0.5	0.5	0.7	0.5	0.7	0.8	0.6	0.6
1966	0.6	0.5	0.6	0.6	0.7	0.8	0.7	0.6	0.7	0.5	0.7	0.7	0.6
1967	0.7	0.9	1.1	0.6	0.7	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.7
1968	0.4	0.5	0.8	0.6	0.7	0.7	0.5	0.5	0.4	0.5	0.8	0.8	0.6
1969	0.7	0.7	1.2	1.0	0.8	0.5	0.5	0.8	0.6	0.5	0.8	0.8	0.7
1970	0.4	0.9	0.6	0.8	0.7	0.7	0.6	0.5	0.5	0.6	0.7	0.7	0.7
1971	0.6	1.0	0.8	0.7	1.0	0.7	0.7	0.6	0.5	0.7	0.6	0.6	0.7
1972	0.8	1.0	1.0	0.6	0.8	0.8	0.5	0.4	0.5	0.8	0.8	0.9	0.7
1973	0.8	0.8	0.8	0.9	0.8	0.7	0.5	0.4	0.4	0.7	1.2	1.5	0.8
1974	0.8	0.8	1.3	1.2	0.6	0.6	0.5	0.5	0.4	0.4	0.6	0.8	0.7
1975	0.9	1.1	0.8	0.6	0.3	0.6	0.7	0.3	0.4	0.4	0.7	1.1	0.7
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.6	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 44

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.3	2.8	2.6	4.2	1.8	2.0	2.4	1.1	2.0	2.0	2.4	2.4
1957	2.1	2.0	2.5	2.9	1.2	2.4	1.5	1.2	2.1	1.7	2.7	2.7
1958	2.5	2.9	3.2	2.1	1.6	1.5	1.4	2.3	1.5	2.3	2.4	1.7
1959	3.4	2.4	3.0	2.3	1.3	1.3	2.5	1.4	1.0	3.0	2.7	2.9
1960	2.2	3.5	2.5	2.8	1.4	1.8	2.8	1.7	2.4	2.5	2.2	2.3
1961	2.1	2.9	2.7	2.6	2.5	2.2	1.2	1.4	3.1	1.7	2.1	2.1
1962	2.5	1.7	2.7	3.0	1.1	1.3	1.4	1.5	1.4	2.4	2.9	3.9
1963	2.4	2.5	2.4	1.9	3.2	1.5	1.5	2.5	2.4	1.8	3.8	2.5
1964	3.7	3.0	2.6	2.2	1.3	1.2	1.5	2.4	2.0	1.7	2.6	2.4
1965	2.5	2.6	2.0	2.0	0.9	1.4	1.5	1.5	1.6	2.4	2.3	2.1
1966	3.0	2.3	1.9	2.0	1.6	2.5	1.7	2.0	2.6	1.3	2.6	2.5
1967	2.4	2.6	2.3	2.0	2.4	1.4	1.3	1.4	2.1	2.5	2.4	2.6
1968	2.4	1.6	2.8	2.4	2.6	1.9	0.9	1.3	1.6	2.0	3.1	3.3
1969	2.0	2.2	2.9	2.1	2.9	1.1	1.3	2.1	1.7	2.1	2.7	3.4
1970	2.2	2.9	2.1	4.0	1.5	1.5	1.6	1.8	2.3	2.6	2.7	3.4
1971	2.9	2.7	3.6	3.6	2.2	1.1	1.9	2.5	1.4	2.2	2.5	1.9
1972	2.4	4.1	3.1	1.5	2.8	3.0	1.4	1.4	2.5	2.5	3.4	3.5
1973	3.5	3.6	3.5	3.1	2.4	1.7	1.4	2.1	2.2	2.8	3.1	4.2
1974	2.9	3.4	3.7	3.2	2.5	1.7	1.4	1.9	2.3	1.9	2.0	3.3
1975	2.9	3.3	3.6	2.9	1.3	1.7	1.8	0.8	2.1	1.6	2.3	3.2

LARGEST HS(METRES) FOR STATION 44 = 4.2

STATION 45 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1521	3480	1942	1368	395	49	5	.	.	.	8760
0.50 - 0.99	.	619	3155	1550	130	15	.	.	.	.	5869
1.00 - 1.49	.	.	35	306	73	6	.	.	.	.	420
1.50 - 1.99	.	.	.	3	10	1	.	.	.	.	14
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1521	4099	5132	3627	609	71	5	0	0	0	

AVERAGE HS(M) = 0.46 LARGEST HS(M) = 2.00 ANGLE CLASS % = 15.1

STATION 45 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	939	1704			2310	5083	1409	63	15	.	11523
0.50 - 0.99	.	1574	3112	609	186	4702	2693	40	8	.	12304
1.00 - 1.49	.	.	297	1481	619	1079	978	32	6	.	4492
1.50 - 1.99	.	.	.	77	330	604	322	44	13	.	1394
2.00 - 2.49	.	.	.	.	51	323	183	15	11	1	584
2.50 - 2.99	.	.	.	.	.	13	53	30	.	.	96
3.00 - 3.49	.	.	.	.	.	.	6	18	.	.	24
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	939	3278	3409	2167	3496	11804	5648	223	54	1	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 3.77 ANGLE CLASS % = 31.0

STATION 45 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	542	747			1146	2097	1398	169	275	152	6526
0.50 - 0.99	.	764	1247	78	177	2468	1827	350	506	523	7960
1.00 - 1.49	.	.	179	566	94	713	590	183	434	145	2924
1.50 - 1.99	.	.	1	66	232	721	335	109	121	25	1150
2.00 - 2.49	.	.	.	.	70	373	219	66	35	6	769
2.50 - 2.99	.	.	.	.	.	53	165	59	20	3	300
3.00 - 3.49	.	.	.	.	.	.	22	54	8	5	89
3.50 - 3.99	.	.	.	.	.	.	.	10	17	5	32
4.00 - 4.49	.	.	.	.	.	.	.	.	3	1	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	542	1511	1427	730	1719	5985	4556	1000	1419	865	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 4.18 ANGLE CLASS % = 19.8

STATION 45 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	426	592			663	1574	1486	253	186	420	5600
0.50 - 0.99	.	799	1221	54	81	667	1276	311	114	910	5433
1.00 - 1.49	.	.	212	699	90	198	362	42	71	429	2103
1.50 - 1.99	.	.	.	78	237	155	119	6	39	70	704
2.00 - 2.49	.	.	.	.	66	253	121	3	1	25	469
2.50 - 2.99	.	.	.	.	.	46	85	30	5	3	169
3.00 - 3.49	.	.	.	.	.	.	10	37	1	.	46
3.50 - 3.99	.	.	.	.	.	.	.	1	5	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	426	1391	1433	831	1117	3093	3459	683	422	1858	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.11 ANGLE CLASS % = 14.7

STATION 45 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	323	542	6		641	1435	912	83	212	87	4241
0.50 - 0.99	.	455	1151	371	154	922	751	183	160	111	4258
1.00 - 1.49	.	.	128	597	417	441	242	22	47	84	1977
1.50 - 1.99	.	.	.	10	148	439	102	17	3	15	734
2.00 - 2.49	.	.	.	.	30	147	82	11	.	.	270
2.50 - 2.99	.	.	.	.	1	10	15	8	.	.	34
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	323	997	1285	978	1391	3394	2104	324	422	296	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 2.93 ANGLE CLASS % = 11.5

STATION 45 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

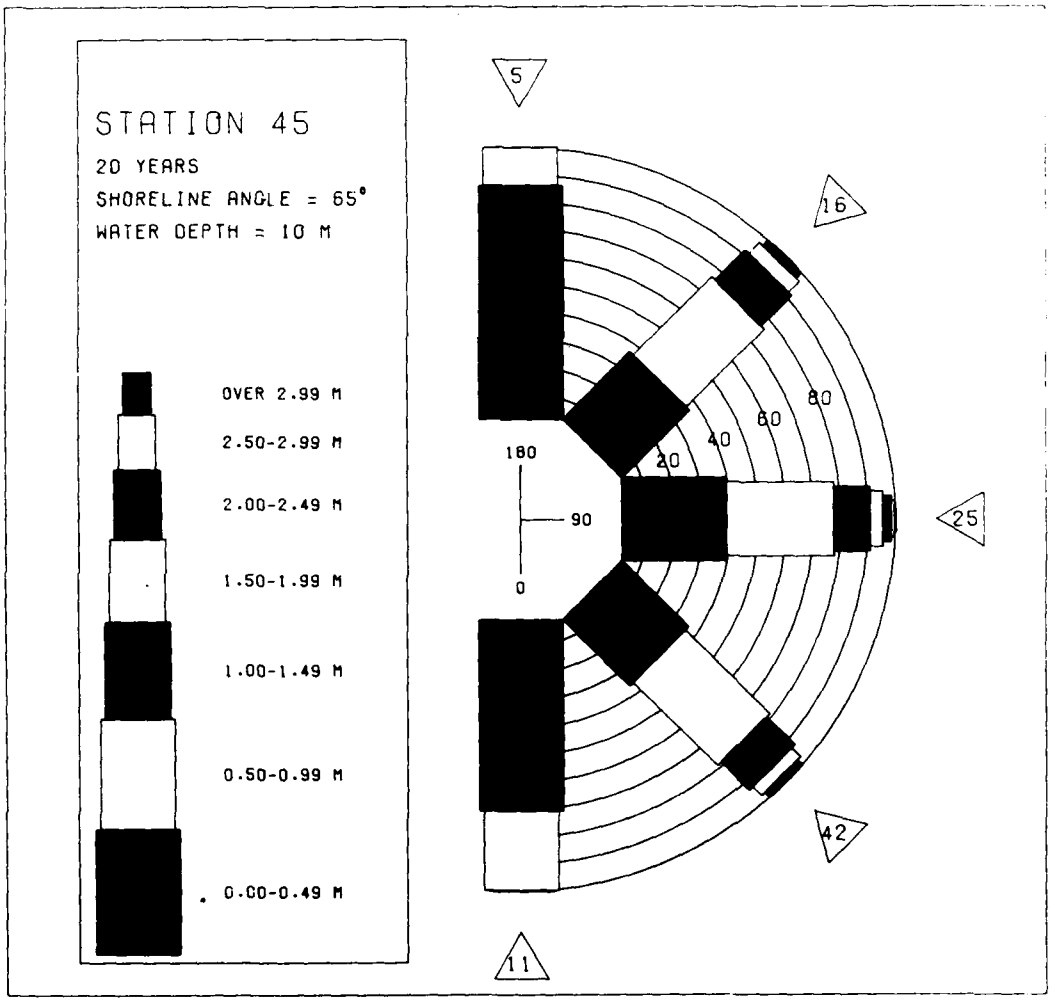
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	550	1274	1060	1184	325	59	.	.	.	.	4452
0.50 - 0.99	.	73	746	894	171	22	.	.	.	.	1906
1.00 - 1.49	.	.	6	54	35	1	.	.	.	.	96
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	3	.	.	.	.	.	3
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	550	1347	1812	2132	537	82	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 2.10 ANGLE CLASS % = 6.5

STATION 45 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	430	834	300	255	548	1030	521	56	68	66	4108
0.50 - 0.99	.	428	1063	395	88	901	654	86	79	154	3848
1.00 - 1.49	.	.	86	372	133	244	217	28	56	65	1201
1.50 - 1.99	.	.	.	23	56	146	88	17	17	11	398
2.00 - 2.49	.	.	.	.	22	109	60	9	4	3	207
2.50 - 2.99	.	.	.	.	.	12	31	13	2	.	58
3.00 - 3.49	.	.	.	.	.	.	3	11	1	.	15
3.50 - 3.99	.	.	.	.	.	.	.	1	2	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	430	1262	1449	1045	887	2442	1574	221	229	299	

AVE HS(M) = 0.68 LARGEST HS(M) = 4.18 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 45

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.9	0.7	0.9	0.5	0.7	0.7	0.4	0.5	0.9	0.7	0.7	0.7
1957	0.5	0.6	0.6	0.7	0.5	0.5	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1958	0.8	0.6	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.8	0.8	0.5	0.7
1959	0.7	0.7	0.8	0.7	0.4	0.5	0.7	0.5	0.3	0.9	1.0	0.7	0.7
1960	0.5	1.0	0.6	1.0	0.6	0.8	0.6	0.6	0.6	0.5	0.6	0.5	0.6
1961	0.6	0.8	0.6	0.9	0.7	0.8	0.5	0.5	0.7	0.8	0.7	0.7	0.7
1962	0.8	0.7	1.0	1.0	0.4	0.5	0.5	0.5	0.4	0.6	0.8	1.1	0.7
1963	0.6	0.6	0.9	0.5	0.8	0.5	0.5	0.4	0.7	0.5	1.0	0.5	0.6
1964	1.0	0.7	0.9	0.8	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.8	0.7
1965	0.7	0.8	0.7	0.6	0.4	0.5	0.5	0.7	0.5	0.7	0.8	0.6	0.6
1966	0.6	0.5	0.6	0.6	0.7	0.8	0.7	0.6	0.7	0.5	0.7	0.6	0.6
1967	0.7	0.9	1.1	0.6	0.7	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.7
1968	0.4	0.5	0.8	0.6	0.7	0.7	0.5	0.5	0.4	0.5	0.8	0.8	0.6
1969	0.7	0.7	1.2	1.0	0.8	0.5	0.5	0.8	0.6	0.5	0.8	0.8	0.7
1970	0.4	0.9	0.6	0.8	0.7	0.7	0.6	0.5	0.5	0.6	0.7	0.7	0.6
1971	0.6	0.9	0.8	0.7	1.0	0.7	0.7	0.6	0.5	0.8	0.6	0.6	0.7
1972	0.8	1.0	1.0	0.6	0.8	0.8	0.5	0.4	0.5	0.8	0.8	0.9	0.7
1973	0.8	0.8	0.8	0.9	0.8	0.7	0.5	0.4	0.4	0.6	1.1	1.5	0.8
1974	0.8	0.8	1.3	1.2	0.6	0.6	0.5	0.5	0.4	0.4	0.6	0.8	0.7
1975	0.9	1.1	0.8	0.6	0.3	0.6	0.8	0.3	0.4	0.4	0.7	1.1	0.7
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.6	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 45

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.8	2.6	2.9	4.2	1.8	2.0	2.4	1.2	2.3	2.1	2.4	2.4
1957	2.0	2.0	2.5	2.8	1.2	2.4	1.4	1.2	2.1	1.8	2.6	2.6
1958	2.5	2.8	3.2	2.1	1.6	1.5	1.4	2.2	1.4	2.5	2.4	1.8
1959	3.3	2.4	3.0	2.3	1.2	1.3	2.5	1.3	1.0	3.1	2.7	2.8
1960	2.2	3.5	2.5	2.7	1.3	1.8	2.8	1.7	2.4	2.5	2.2	2.3
1961	1.9	2.9	2.7	2.5	2.5	2.1	1.2	1.3	3.1	1.7	2.1	2.1
1962	2.5	1.7	2.7	2.9	1.1	1.3	1.4	1.5	1.5	2.2	2.9	3.9
1963	2.4	2.5	2.4	1.9	3.2	1.5	1.4	2.5	2.3	1.9	3.6	2.5
1964	3.7	2.9	2.6	2.2	1.3	1.2	1.6	2.4	2.0	1.7	2.6	2.4
1965	2.5	2.6	2.0	2.0	0.9	1.3	1.4	1.5	1.6	2.4	2.3	2.2
1966	2.9	2.3	1.9	2.2	1.5	2.5	1.7	1.9	2.6	1.2	2.6	2.5
1967	2.3	2.6	2.3	2.0	2.4	1.4	1.3	1.4	2.1	2.5	2.4	2.6
1968	2.4	1.6	2.8	2.4	2.6	1.9	0.9	1.3	1.6	2.0	3.1	3.1
1969	2.0	2.2	2.9	2.1	2.9	1.1	1.3	2.1	1.7	1.9	2.7	3.4
1970	2.2	2.9	2.1	4.0	1.5	1.4	1.6	1.8	2.3	2.6	2.7	3.2
1971	2.9	2.7	3.6	3.4	2.2	1.2	1.9	2.5	1.4	2.2	2.5	1.8
1972	2.4	4.1	3.0	1.5	2.8	3.0	1.3	1.4	2.8	2.5	3.4	3.5
1973	3.4	3.5	3.5	3.1	2.4	1.7	1.4	2.1	2.2	2.8	3.1	4.0
1974	2.9	3.2	3.7	3.1	2.5	1.8	1.4	1.9	2.3	1.9	2.0	3.3
1975	2.9	3.3	3.6	2.7	1.3	1.7	1.8	0.8	2.1	1.6	2.3	3.2

LARGEST HS(METRES) FOR STATION 45 = 4.2

STATION 46 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 69.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1497	3446	2000	1471	443	39	.	.	.	.	8896
0.50 - 0.99	.	559	3056	1998	124	8	.	.	.	.	5745
1.00 - 1.49	.	.	42	331	75	10	.	.	.	.	458
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	3	.	.	.	.	.	3
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1497	4005	5098	3800	653	57	0	0	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 2.21 ANGLE CLASS % = 15.1

STATION 46 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 69.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	992	1745	.	.	1579	2400	402	51	15	.	7184
0.50 - 0.99	.	1661	3314	627	157	2869	1013	29	5	.	9675
1.00 - 1.49	.	.	304	1582	600	835	694	20	3	.	4038
1.50 - 1.99	.	.	.	80	342	520	325	35	8	.	1310
2.00 - 2.49	.	.	.	.	59	340	176	11	6	.	592
2.50 - 2.99	.	.	.	.	.	17	56	15	.	.	88
3.00 - 3.49	.	.	.	.	.	.	8	18	.	.	26
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	992	3406	3618	2289	2737	6981	2674	180	37	0	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 3.62 ANGLE CLASS % = 22.9

STATION 46 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 69.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	569	799	.	.	1793	4387	2181	162	266	154	10311
0.50 - 0.99	.	788	1298	94	215	4510	3615	354	489	521	11884
1.00 - 1.49	.	.	189	593	95	1026	924	198	446	147	3618
1.50 - 1.99	.	.	1	66	249	342	354	114	131	27	1284
2.00 - 2.49	.	.	.	.	70	379	234	71	37	8	799
2.50 - 2.99	.	.	.	.	.	56	188	71	30	3	348
3.00 - 3.49	.	.	.	.	.	.	23	54	8	5	90
3.50 - 3.99	.	.	.	.	.	.	.	17	17	5	39
4.00 - 4.49	.	.	.	.	.	.	.	.	5	1	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	569	1587	1488	753	2422	10700	7519	1041	1429	871	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.24 ANGLE CLASS % = 28.4

STATION 46 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 69.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	504	638			602	1517	1442	246	184	499	5632
0.50 - 0.99	.	819	1254	61	58	864	1290	314	112	1035	5807
1.00 - 1.49	.	.	207	715	92	207	354	42	75	458	2150
1.50 - 1.99	.	.	.	87	225	157	128	6	35	75	713
2.00 - 2.49	.	.	.	.	61	251	119	3	10	.	444
2.50 - 2.99	.	.	.	.	.	46	88	30	5	.	169
3.00 - 3.49	.	.	.	.	.	.	10	37	1	.	48
3.50 - 3.99	.	.	.	.	.	.	.	1	5	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	504	1457	1461	863	1038	3042	3431	679	417	2078	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.11 ANGLE CLASS % = 15.0

STATION 46 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 69.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	321	544	8		669	1430	965	118	251		4306
0.50 - 0.99	.	455	1131	383	131	764	562	138	111	44	3719
1.00 - 1.49	.	.	130	576	419	463	183	25	22	6	1824
1.50 - 1.99	.	.	.	15	147	407	102	13	.	.	684
2.00 - 2.49	.	.	.	.	29	136	71	10	.	.	246
2.50 - 2.99	.	.	.	.	.	5	8	10	.	.	23
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	321	999	1269	974	1395	3205	1891	315	384	50	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.31 ANGLE CLASS % = 10.8

STATION 46 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 69.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

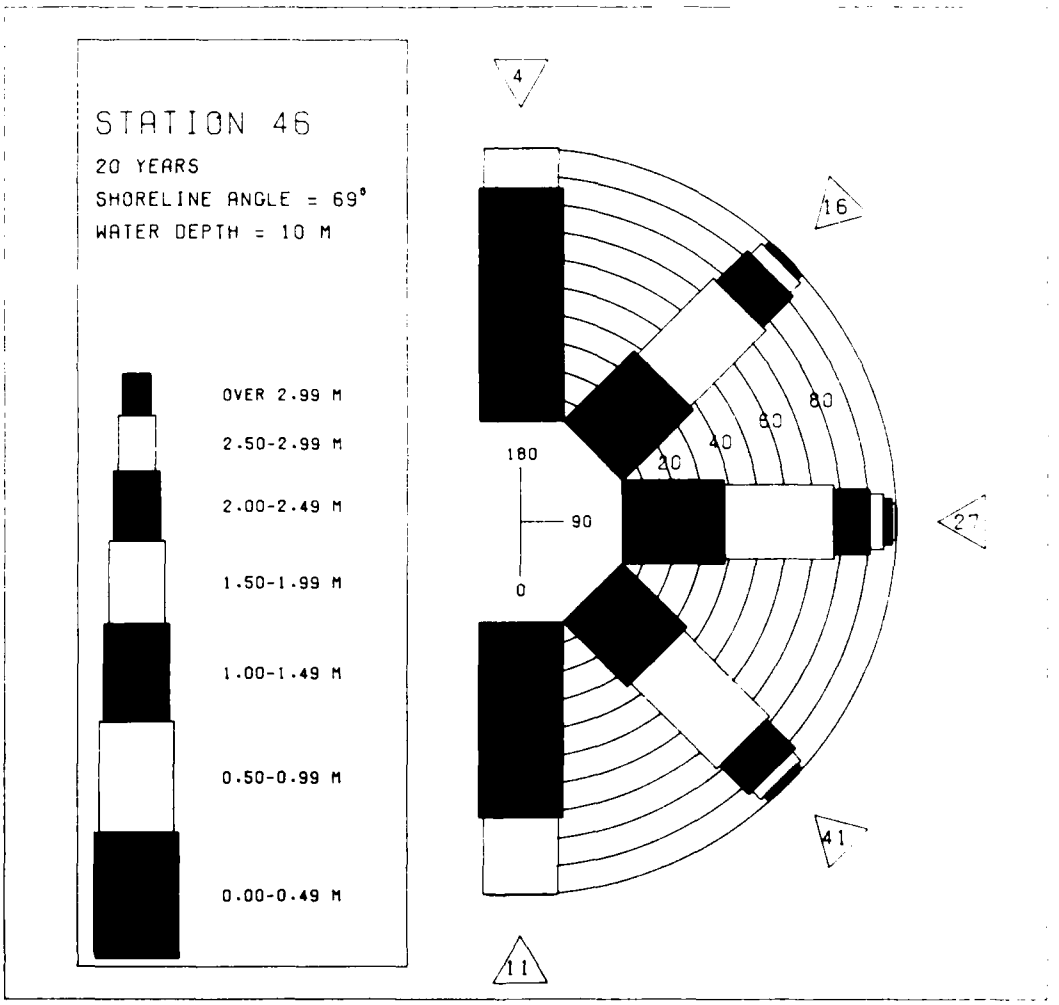
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	557	1273	1064	1112	311	58	.	.	.	.	4375
0.50 - 0.99	.	78	766	853	215	22	.	.	.	.	1934
1.00 - 1.49	.	.	3	49	25	1	.	.	.	.	78
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	557	1351	1833	2014	553	81	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 2.09 ANGLE CLASS % = 6.4

STATION 46 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 69.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	444	844	307	258	539	983	499	57	71	65	4067
0.50 - 0.99	.	436	1082	401	90	904	648	83	71	160	3875
1.00 - 1.49	.	.	87	385	130	254	215	28	54	61	1214
1.50 - 1.99	.	.	.	24	97	142	91	17	17	10	398
2.00 - 2.49	.	.	.	.	22	110	60	9	4	1	206
2.50 - 2.99	.	.	.	.	.	12	34	12	3	.	61
3.00 - 3.49	.	.	.	.	.	.	4	11	1	.	16
3.50 - 3.99	.	.	.	.	.	.	.	2	2	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	444	1280	1476	1068	878	2405	1551	219	223	297	

AVE HS(M) = 0.68 LARGEST HS(M) = 4.24 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 46

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.9	0.7	0.9	0.5	0.7	0.7	0.4	0.5	0.8	0.7	0.7	0.7
1957	0.5	0.6	0.6	0.7	0.5	0.5	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1958	0.8	0.7	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.7	0.8	0.5	0.7
1959	0.8	0.7	0.8	0.7	0.5	0.5	0.7	0.5	0.3	0.9	1.0	0.7	0.7
1960	0.5	1.0	0.6	1.0	0.6	0.8	0.5	0.6	0.5	0.5	0.6	0.5	0.6
1961	0.6	0.8	0.6	0.9	0.7	0.8	0.5	0.5	0.7	0.8	0.7	0.7	0.7
1962	0.8	0.7	1.0	1.0	0.4	0.5	0.6	0.5	0.5	0.7	0.8	1.1	0.7
1963	0.6	0.7	0.9	0.5	0.8	0.6	0.5	0.4	0.7	0.4	1.0	0.5	0.6
1964	1.0	0.8	0.9	0.7	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.9	0.7
1965	0.7	0.8	0.7	0.6	0.4	0.5	0.5	0.7	0.5	0.7	0.8	0.6	0.6
1966	0.6	0.5	0.6	0.6	0.7	0.8	0.7	0.6	0.7	0.5	0.7	0.6	0.6
1967	0.7	0.9	1.0	0.6	0.7	0.5	0.6	0.7	0.6	0.7	0.6	0.7	0.7
1968	0.4	0.5	0.8	0.6	0.7	0.7	0.5	0.5	0.4	0.5	0.8	0.8	0.6
1969	0.7	0.7	1.2	1.0	0.8	0.5	0.5	0.8	0.6	0.5	0.8	0.8	0.7
1970	0.4	0.9	0.6	0.8	0.7	0.7	0.6	0.5	0.5	0.6	0.7	0.7	0.7
1971	0.6	1.0	0.8	0.7	1.0	0.7	0.7	0.6	0.5	0.7	0.6	0.7	0.7
1972	0.8	1.0	1.1	0.6	0.8	0.8	0.5	0.4	0.5	0.8	0.8	0.9	0.7
1973	0.8	0.8	0.8	0.9	0.8	0.7	0.5	0.4	0.4	0.7	1.2	1.5	0.8
1974	0.8	0.8	1.3	1.2	0.6	0.6	0.6	0.5	0.4	0.4	0.6	0.8	0.7
1975	0.9	1.1	0.8	0.6	0.3	0.6	0.7	0.3	0.4	0.4	0.7	1.1	0.7
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.5	0.6	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 46

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.3	2.8	2.6	4.2	1.8	2.0	2.4	1.1	2.0	2.0	2.4	2.4
1957	2.1	2.0	2.5	2.9	1.2	2.4	1.5	1.2	2.1	1.7	2.7	2.7
1958	2.5	2.9	3.2	2.1	1.5	1.5	1.4	2.3	1.5	2.3	2.4	1.7
1959	3.5	2.4	3.0	2.3	1.3	1.3	2.5	1.4	1.0	3.0	2.7	2.9
1960	2.2	3.5	2.5	2.8	1.4	1.8	2.8	1.7	2.4	2.5	2.2	2.3
1961	2.1	3.0	2.7	2.6	2.5	2.2	1.2	1.4	3.1	1.7	2.1	2.1
1962	2.5	1.7	2.7	3.0	1.1	1.3	1.4	1.5	1.4	2.4	2.9	3.9
1963	2.4	2.5	2.4	1.9	3.2	1.5	1.5	2.5	2.4	1.8	3.8	2.5
1964	3.7	3.0	2.6	2.2	1.3	1.2	1.5	2.4	2.0	1.7	2.6	2.4
1965	2.5	2.6	2.0	2.0	0.9	1.4	1.5	1.5	1.6	2.4	2.3	2.1
1966	3.0	2.3	1.8	2.0	1.6	2.5	1.7	2.0	2.6	1.3	2.6	2.5
1967	2.4	2.6	2.3	2.0	2.3	1.4	1.3	1.4	2.1	2.5	2.4	2.6
1968	2.4	1.6	2.8	2.4	2.6	1.9	1.0	1.4	1.6	2.0	3.1	3.3
1969	1.8	2.0	2.9	2.1	2.9	1.1	1.3	2.1	1.7	2.1	2.7	3.4
1970	2.2	2.9	2.1	4.0	1.5	1.5	1.6	1.8	2.3	2.6	2.7	3.4
1971	2.9	2.7	3.6	3.6	2.3	1.1	1.9	2.5	1.4	2.2	2.5	1.9
1972	2.4	4.1	3.1	1.5	2.8	3.0	1.4	1.4	2.5	2.5	3.4	3.5
1973	3.5	3.6	3.5	3.1	2.5	1.7	1.5	2.1	2.2	2.7	3.1	4.2
1974	2.9	3.4	3.7	3.2	2.5	1.6	1.4	2.0	2.3	1.9	2.0	3.3
1975	2.9	3.3	3.5	2.9	1.3	1.7	1.8	0.8	2.1	1.6	2.3	3.2

LARGEST HS(METRES) FOR STATION 46 = 4.2

STATION 47 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1676	3699	2525	1933	1031	1281	3	.	.	.	12148
0.50 - 0.99	.	574	3054	1382	506	1307	.	.	.	.	6823
1.00 - 1.49	.	.	29	244	215	58	.	.	.	.	546
1.50 - 1.99	.	.	.	.	10	.	.	.	.	.	10
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1676	4273	5608	3559	1762	2646	3	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.72 ANGLE CLASS % = 19.5

STATION 47 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	903	1654	.	.	1913	1161	249	29	.	.	5909
0.50 - 0.99	3	1495	3288	696	450	2742	641	56	.	.	9371
1.00 - 1.49	.	.	297	1613	727	1779	462	63	.	.	4941
1.50 - 1.99	.	.	.	66	383	889	270	66	6	.	1660
2.00 - 2.49	.	.	.	.	63	296	227	66	10	.	662
2.50 - 2.99	.	.	.	.	.	8	44	37	20	.	109
3.00 - 3.49	.	.	.	.	.	.	.	13	6	3	22
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	906	3149	3585	2375	3536	6875	1893	333	43	3	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 3.55 ANGLE CLASS % = 22.7

STATION 47 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	604	749	.	.	2522	4081	2022	183	133	65	10359
0.50 - 0.99	.	800	1353	83	346	4419	3242	284	452	87	10965
1.00 - 1.49	.	.	148	621	95	847	795	164	395	73	3088
1.50 - 1.99	.	.	.	54	224	263	253	34	220	11	1059
2.00 - 2.49	.	.	.	.	78	302	176	66	37	3	662
2.50 - 2.99	.	.	.	.	.	63	154	49	6	1	273
3.00 - 3.49	.	.	.	.	.	.	10	47	13	.	70
3.50 - 3.99	.	.	.	.	.	.	.	3	11	6	20
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	604	1549	1501	758	3264	9975	6652	830	1167	197	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 4.11 ANGLE CLASS % = 26.5

STATION 47 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	619	826			331	63	39	56	66	287	2287
0.50 - 0.99	.	884	1305	121	37	126	27	41	5	540	3088
1.00 - 1.49	.	.	213	679	107	85	30	8	.	215	1337
1.50 - 1.99	.	.	.	46	277	116	29	.	.	65	533
2.00 - 2.49	.	.	.	.	46	213	70	6	.	20	355
2.50 - 2.99	.	.	.	.	.	49	67	18	3	1	158
3.00 - 3.49	.	.	.	.	.	1	10	17	10	.	38
3.50 - 3.99	.	.	.	.	.	.	.	3	5	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	619	1710	1518	848	798	653	292	149	90	1129	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 4.11 ANGLE CLASS % = 7.8

STATION 47 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	463	797	3		989	1332	896	148	95	441	5164
0.50 - 0.99	.	583	1473	439	186	1043	826	104	294	289	5237
1.00 - 1.49	.	.	104	631	456	590	361	42	53	82	2319
1.50 - 1.99	.	.	.	17	167	362	184	25	5	.	760
2.00 - 2.49	.	.	.	.	22	90	73	23	8	3	219
2.50 - 2.99	.	.	.	.	.	5	5	11	3	.	24
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	463	1380	1580	1087	1820	3422	2345	354	458	815	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 3.09 ANGLE CLASS % = 13.7

STATION 47 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

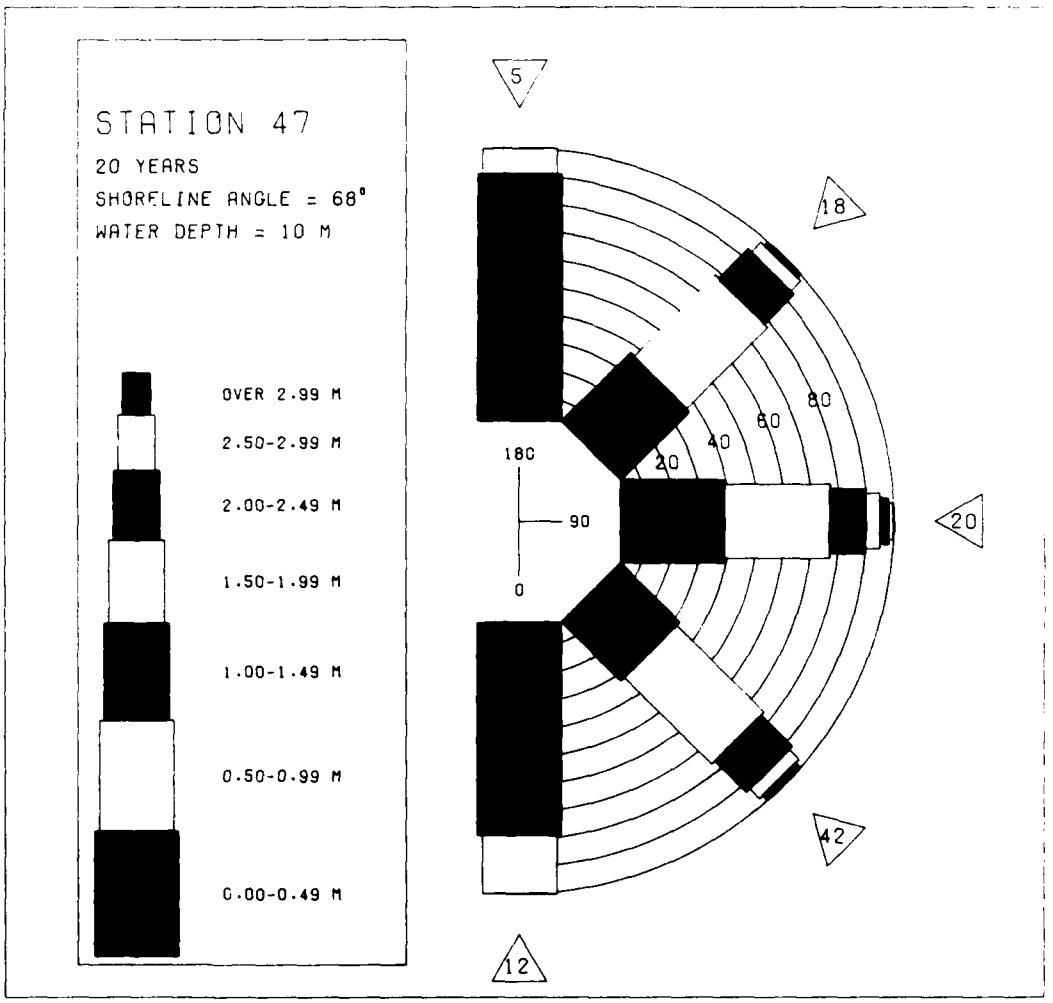
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	614	1358	1242	1531	539	147	.	.	.	.	5431
0.50 - 0.99	.	104	775	633	275	142	.	.	.	.	1929
1.00 - 1.49	.	.	3	34	35	1	.	.	.	.	73
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	614	1462	2020	2198	850	290	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.55 ANGLE CLASS % = 7.4

STATION 47 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	488	908	377	346	732	806	321	41	29	79	4127
0.50 - 0.99	.	444	1125	335	180	978	473	48	65	91	3739
1.00 - 1.49	.	.	79	382	163	336	164	27	44	32	1227
1.50 - 1.99	.	.	.	18	106	163	73	12	23	7	402
2.00 - 2.49	.	.	.	.	21	60	54	16	5	2	188
2.50 - 2.99	.	.	.	.	.	12	29	11	3	.	55
3.00 - 3.49	.	.	.	.	.	.	2	8	3	.	13
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	488	1352	1581	1081	1202	2385	1116	164	173	211	

AVE HS(M) = 0.67 LARGEST HS(M) = 4.11 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 47

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.9	0.7	0.9	0.5	0.6	0.8	0.5	0.5	0.8	0.7	0.7	0.7
1957	0.5	0.7	0.6	0.7	0.6	0.6	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1958	0.6	0.6	0.6	0.8	0.6	0.4	0.6	0.6	0.4	0.7	0.7	0.5	0.6
1959	0.7	0.7	0.8	0.8	0.5	0.5	0.7	0.5	0.3	0.8	0.7	0.6	0.6
1960	0.5	1.0	0.5	1.0	0.7	0.8	0.6	0.6	0.6	0.5	0.6	0.5	0.6
1961	0.6	0.8	0.6	0.9	0.7	0.8	0.5	0.5	0.6	0.6	0.6	0.7	0.7
1962	0.8	0.6	1.0	1.0	0.4	0.5	0.6	0.5	0.4	0.6	0.8	1.0	0.7
1963	0.6	0.6	1.0	0.5	0.7	0.6	0.6	0.5	0.6	0.5	0.9	0.5	0.6
1964	1.0	0.8	0.9	0.8	0.7	0.6	0.7	0.6	0.6	0.5	0.7	0.8	0.7
1965	0.7	0.7	0.7	0.6	0.5	0.6	0.6	0.6	0.5	0.7	0.8	0.6	0.6
1966	0.6	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.5	0.6	0.6	0.6
1967	0.7	0.9	1.2	0.7	0.7	0.5	0.7	0.9	0.6	0.6	0.6	0.8	0.7
1968	0.4	0.5	0.7	0.6	0.7	0.5	0.3	0.3	0.3	0.5	0.7	0.7	0.5
1969	0.6	0.6	0.8	0.7	0.7	0.5	0.5	0.8	0.5	0.5	0.8	0.7	0.6
1970	0.5	0.9	0.7	0.8	0.6	0.6	0.6	0.5	0.6	0.7	0.7	0.6	0.7
1971	0.7	1.0	0.8	0.8	1.0	0.6	0.7	0.6	0.5	0.8	0.5	0.7	0.7
1972	0.8	1.0	1.0	0.6	0.8	0.8	0.5	0.5	0.5	0.7	0.8	0.8	0.7
1973	0.8	0.7	0.9	0.9	0.8	0.7	0.5	0.4	0.5	0.7	1.1	1.4	0.8
1974	0.7	0.8	1.2	1.1	0.6	0.6	0.5	0.5	0.4	0.3	0.6	0.7	0.7
1975	0.8	0.7	0.8	0.5	0.3	0.6	0.8	0.6	0.4	0.4	0.7	0.9	0.6
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 47

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.6	2.5	3.0	3.6	1.9	1.9	2.2	1.2	2.0	2.1	2.2	2.2
1957	2.0	2.0	2.0	2.8	1.4	2.4	1.5	1.3	2.0	2.2	2.5	2.6
1958	2.4	2.5	2.7	2.1	1.6	1.5	1.6	2.3	1.5	2.4	2.8	1.6
1959	3.1	2.2	3.0	2.2	1.3	2.0	2.4	1.3	1.0	2.8	2.5	2.5
1960	2.2	3.4	2.8	2.8	1.9	1.6	2.9	1.5	2.3	2.4	2.0	2.6
1961	2.0	2.8	2.3	2.5	2.5	2.1	1.2	1.5	2.8	1.3	2.3	2.0
1962	2.5	2.1	2.8	3.3	1.1	1.3	1.6	1.6	1.4	2.2	2.6	3.4
1963	2.4	2.3	2.5	2.1	2.9	2.0	1.5	2.5	2.1	1.9	2.9	2.6
1964	3.3	2.9	2.3	2.1	1.5	1.3	1.9	2.0	1.8	1.7	2.6	2.5
1965	2.7	2.7	2.0	1.9	1.0	1.2	1.8	1.5	1.5	2.7	2.2	2.1
1966	3.4	2.2	1.9	2.0	2.1	2.3	2.1	1.8	2.7	1.5	2.7	2.4
1967	2.1	2.7	2.4	2.2	2.0	1.3	1.6	1.7	2.1	2.8	1.7	2.7
1968	2.6	1.7	2.8	2.3	2.8	2.4	0.9	1.1	1.5	2.3	3.4	2.7
1969	2.2	1.6	2.8	2.0	2.9	1.4	1.5	2.1	1.6	2.0	3.2	3.2
1970	2.5	3.0	2.1	3.5	1.4	1.6	1.6	1.9	2.2	2.5	2.7	3.6
1971	2.8	2.9	3.7	3.6	2.3	1.3	2.1	3.0	1.4	2.0	2.3	1.5
1972	2.2	4.1	3.1	1.7	2.3	3.2	1.1	1.6	1.8	2.8	3.4	2.5
1973	2.6	3.1	3.6	2.8	2.4	2.1	1.4	2.0	1.8	3.0	2.9	3.9
1974	2.4	3.4	3.3	3.2	2.2	1.8	1.4	1.8	2.3	1.9	2.2	3.4
1975	2.7	2.9	4.1	2.8	1.2	1.6	1.9	1.0	2.0	1.8	2.4	3.3

LARGEST HS(METRES) FOR STATION 47 = 4.1

STATION 48 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1670	3634	2527	1873	1006	1332	1	1	.	.	12044
0.50 - 0.99	.	592	3059	1353	492	1300	.	.	.	.	6796
1.00 - 1.49	.	.	22	268	219	49	.	.	.	.	558
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1670	4226	5608	3494	1723	2681	1	1	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.72 ANGLE CLASS % = 19.4

STATION 48 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	872	1599	.	.	2488	2592	917	29	.	.	8497
0.50 - 0.99	3	1471	3182	658	480	3957	2063	56	.	.	11870
1.00 - 1.49	.	.	304	1606	706	1805	633	65	.	.	5119
1.50 - 1.99	.	.	.	70	373	908	282	68	6	.	1707
2.00 - 2.49	.	.	.	.	59	296	242	65	10	.	672
2.50 - 2.99	.	.	.	.	.	8	41	39	18	.	106
3.00 - 3.49	.	.	.	.	.	.	.	11	8	5	24
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	875	3070	3486	2334	4106	9566	4178	334	43	5	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.55 ANGLE CLASS % = 28.0

STATION 48 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	585	732	.	.	1972	2742	1411	193	136	65	7836
0.50 - 0.99	.	781	1348	62	308	3134	1795	270	345	87	8150
1.00 - 1.49	.	.	155	598	104	758	592	155	405	22	2789
1.50 - 1.99	.	.	.	56	241	224	242	34	217	10	1024
2.00 - 2.49	.	.	.	.	73	292	160	66	34	3	628
2.50 - 2.99	.	.	.	.	.	63	147	47	6	1	264
3.00 - 3.49	.	.	.	.	.	.	6	47	11	.	64
3.50 - 3.99	.	.	.	.	.	.	.	3	11	5	19
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	585	1513	1503	736	2698	7213	4353	815	1165	194	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 4.11 ANGLE CLASS % = 20.8

STATION 48 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	624	828			352	63	39	53	65	414	2438
0.50 - 0.99	.	843	1278	121	37	130	27	41	6	995	3478
1.00 - 1.49	.	.	210	693	97	82	32	8	.	470	1592
1.50 - 1.99	.	.	.	46	275	114	29	.	.	186	650
2.00 - 2.49	.	.	.	.	53	207	68	8	.	44	380
2.50 - 2.99	.	.	.	.	.	49	67	18	3	3	160
3.00 - 3.49	.	.	.	.	.	1	10	17	10	.	38
3.50 - 3.99	.	.	.	.	.	.	.	3	5	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	624	1671	1488	860	814	646	292	148	90	2113	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 4.11 ANGLE CLASS % = 8.8

STATION 48 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	456	756	5		983	1392	737	124	25	8	4486
0.50 - 0.99	.	578	1449	405	188	1151	1156	150	349	39	5465
1.00 - 1.49	.	.	116	638	463	624	386	47	100	35	2409
1.50 - 1.99	.	.	.	22	167	374	191	27	5	1	787
2.00 - 2.49	.	.	.	.	20	97	80	20	8	1	226
2.50 - 2.99	.	.	.	.	.	5	5	13	3	.	26
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	456	1334	1570	1065	1821	3643	2555	382	490	84	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 3.09 ANGLE CLASS % = 13.4

STATION 48 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

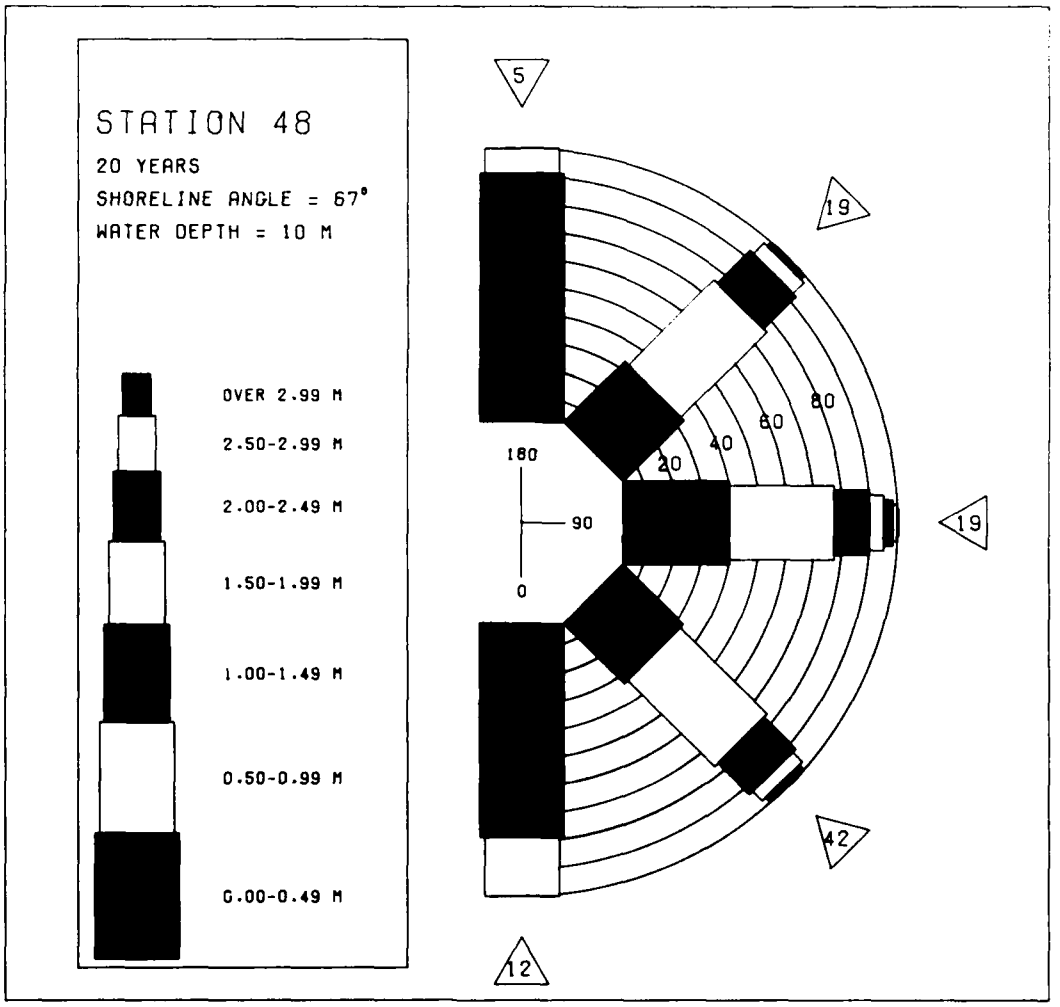
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	590	1377	1233	1500	515	135	.	.	.	.	5350
0.50 - 0.99	.	97	764	627	287	126	.	.	.	.	1901
1.00 - 1.49	.	.	5	34	34	.	.	.	.	.	73
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	590	1474	2002	2161	837	261	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.55 ANGLE CLASS % = 7.3

STATION 48 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 67.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	479	892	376	337	731	825	310	40	22	48	4060
0.50 - 0.99	.	436	1108	324	179	980	504	51	70	112	3764
1.00 - 1.49	.	.	81	383	162	331	164	27	50	52	1250
1.50 - 1.99	.	.	.	19	106	162	74	13	22	19	415
2.00 - 2.49	.	.	.	.	20	89	55	16	5	4	189
2.50 - 2.99	.	.	.	.	.	12	28	11	3	.	54
3.00 - 3.49	.	.	.	.	.	.	1	7	3	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	479	1328	1565	1063	1198	2399	1136	165	176	235	

AVE HS(M) = 0.67 LARGEST HS(M) = 4.11 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 48

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.9	0.7	0.9	0.5	0.6	0.8	0.5	0.5	0.8	0.7	0.7	0.7
1957	0.5	0.7	0.6	0.7	0.6	0.6	0.7	0.5	0.5	0.6	0.9	1.3	0.7
1958	0.6	0.6	0.6	0.8	0.6	0.6	0.6	0.6	0.4	0.7	0.7	0.5	0.6
1959	0.7	0.7	0.8	0.8	0.5	0.5	0.7	0.5	0.3	0.8	0.7	0.6	0.6
1960	0.5	1.0	0.5	1.0	0.6	0.8	0.6	0.6	0.6	0.5	0.6	0.5	0.7
1961	0.6	0.8	0.6	0.9	0.7	0.8	0.5	0.5	0.7	0.7	0.7	0.7	0.7
1962	0.8	0.7	1.3	1.2	0.4	0.5	0.6	0.5	0.4	0.6	0.8	1.0	0.7
1963	0.6	0.6	1.0	0.5	0.7	0.6	0.6	0.5	0.7	0.5	0.9	0.5	0.6
1964	1.0	0.8	0.9	0.8	0.7	0.6	0.7	0.6	0.6	0.5	0.7	0.8	0.7
1965	0.7	0.7	0.7	0.6	0.5	0.6	0.6	0.6	0.5	0.7	0.7	0.6	0.6
1966	0.6	0.6	0.6	0.6	0.7	0.7	0.5	0.7	0.7	0.5	0.6	0.6	0.6
1967	0.7	0.9	1.2	0.8	0.7	0.5	0.7	0.9	0.6	0.6	0.6	0.7	0.7
1968	0.4	0.5	0.7	0.6	0.7	0.5	0.3	0.3	0.3	0.5	0.7	0.7	0.5
1969	0.6	0.7	0.9	0.8	0.7	0.5	0.5	0.8	0.5	0.5	0.8	0.7	0.7
1970	0.5	0.9	0.6	0.8	0.6	0.6	0.6	0.5	0.6	0.7	0.7	0.6	0.6
1971	0.6	1.0	0.8	0.8	1.0	0.6	0.7	0.6	0.5	0.9	0.6	0.7	0.7
1972	0.8	1.0	1.0	0.6	0.8	0.8	0.5	0.5	0.5	0.7	0.7	0.8	0.7
1973	0.8	0.8	0.9	0.9	0.8	0.7	0.5	0.4	0.5	0.7	1.1	1.4	0.8
1974	0.7	0.8	1.1	1.1	0.6	0.6	0.5	0.5	0.4	0.3	0.6	0.7	0.7
1975	0.8	0.7	0.8	0.5	0.3	0.6	0.8	0.6	0.4	0.4	0.7	0.9	0.6
MEAN	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.5	0.6	0.7	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 48

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.8	2.5	3.0	3.6	1.9	1.9	2.2	1.2	2.0	2.1	2.2	2.2
1957	1.9	2.0	2.0	2.8	1.4	2.4	1.4	1.3	2.0	2.2	2.5	2.6
1958	2.4	2.5	2.9	2.1	1.6	1.5	1.6	2.3	1.5	2.4	2.8	1.7
1959	3.1	2.2	3.0	2.2	1.2	1.8	2.4	1.3	1.0	2.8	2.5	2.5
1960	2.2	3.2	2.8	2.8	1.9	1.6	2.9	1.4	2.3	2.4	2.0	2.7
1961	2.0	2.8	2.3	2.5	2.5	2.1	1.2	1.5	2.8	1.6	2.3	2.0
1962	2.5	2.1	2.8	3.3	1.1	1.4	1.6	1.5	1.4	2.1	2.6	3.4
1963	2.4	2.3	2.5	2.1	2.9	2.0	1.4	2.5	2.1	1.9	2.9	2.6
1964	3.3	2.9	2.3	2.0	1.5	1.3	1.9	2.0	1.8	1.7	2.6	2.4
1965	2.7	2.7	2.0	1.9	1.0	1.2	1.8	1.5	1.5	2.6	2.2	2.1
1966	3.4	2.2	1.9	2.0	1.9	2.3	2.1	1.8	2.7	1.5	2.7	2.4
1967	2.1	2.6	2.4	2.2	2.0	1.3	1.5	1.7	2.1	2.8	1.7	2.7
1968	2.6	1.7	2.8	2.3	2.8	2.4	0.9	1.1	1.5	2.3	3.4	2.7
1969	2.2	1.8	2.8	2.0	2.9	1.4	1.5	2.1	1.6	1.8	3.2	3.2
1970	2.5	2.9	2.1	3.3	1.5	1.6	1.5	1.9	2.1	2.5	2.7	3.6
1971	2.8	2.9	3.7	3.6	2.2	1.3	2.1	3.0	1.4	2.0	2.4	1.5
1972	2.2	4.1	3.0	1.7	2.3	3.2	1.1	1.6	1.8	2.8	3.4	2.5
1973	2.6	3.1	3.6	2.8	2.4	2.1	1.4	2.0	1.8	3.0	2.9	3.9
1974	2.4	3.4	3.3	3.2	2.2	1.8	1.4	1.8	2.3	1.9	2.2	3.4
1975	2.7	2.9	4.1	2.8	1.2	1.6	1.9	1.0	2.0	1.8	2.4	3.3

LARGEST HS(METRES) FOR STATION 48 = 4.1

STATION 49 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 77.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 49 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 77.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1522	3723	2114	1035	2387	2268	112	.	.	.	13161
0.50 - 0.99	.	609	3386	1608	770	1331	109	3	.	.	7816
1.00 - 1.49	.	.	102	770	583	681	73	.	.	.	2209
1.50 - 1.99	.	.	.	8	195	473	87	3	.	.	766
2.00 - 2.49	.	.	.	.	27	78	51	13	.	.	169
2.50 - 2.99	.	.	.	.	.	.	3	5	.	.	8
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1522	4332	5602	3421	3962	4831	435	24	0	0	

AVERAGE HS(M) = 0.55 LARGEST HS(M) = 2.73 ANGLE CLASS % = 24.1

STATION 49 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 77.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	646	937	.	.	2371	4828	1959	154	109	59	11063
0.50 - 0.99	1	1052	1844	167	345	5236	3102	352	349	58	12506
1.00 - 1.49	.	.	260	927	165	1182	805	142	362	42	3885
1.50 - 1.99	.	.	.	53	316	451	402	51	118	109	1500
2.00 - 2.49	.	.	.	.	71	400	275	61	18	34	859
2.50 - 2.99	.	.	.	.	.	53	169	63	11	11	307
3.00 - 3.49	.	.	.	.	.	1	20	44	8	3	76
3.50 - 3.99	.	.	.	.	.	.	.	5	8	1	14
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	647	1989	2104	1147	3268	12151	6732	872	983	317	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 3.85 ANGLE CLASS % = 30.2

STATION 49 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 77.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	660	835			710	1795	1288	261	347	583	6479
0.50 - 0.99	.	886	1314	83	25	2517	2890	944	263	696	9618
1.00 - 1.49	.	.	237	701	94	462	740	343	385	415	3377
1.50 - 1.99	.	.	.	59	232	176	183	83	165	135	1033
2.00 - 2.49	.	.	.	.	70	203	109	29	10	10	431
2.50 - 2.99	.	.	.	.	1	51	51	22	6	3	134
3.00 - 3.49	.	.	.	.	.	.	13	18	5	5	41
3.50 - 3.99	.	.	.	.	.	.	.	.	10	1	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	660	1721	1551	843	1132	5204	5274	1700	1191	1851	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 4.15 ANGLE CLASS % = 21.1

STATION 49 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 77.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	484	802			927	1244	924	41	102	338	4862
0.50 - 0.99	.	648	1521	446	195	479	581	95	275	362	4602
1.00 - 1.49	.	.	169	646	405	337	193	17	11	70	1848
1.50 - 1.99	.	.	.	25	154	371	106	20	6	8	690
2.00 - 2.49	.	.	.	.	11	70	78	23	10	6	198
2.50 - 2.99	.	.	.	.	.	3	3	8	1	.	15
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	484	1450	1690	1117	1692	2504	1885	205	405	784	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.16 ANGLE CLASS % = 12.2

STATION 49 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 77.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

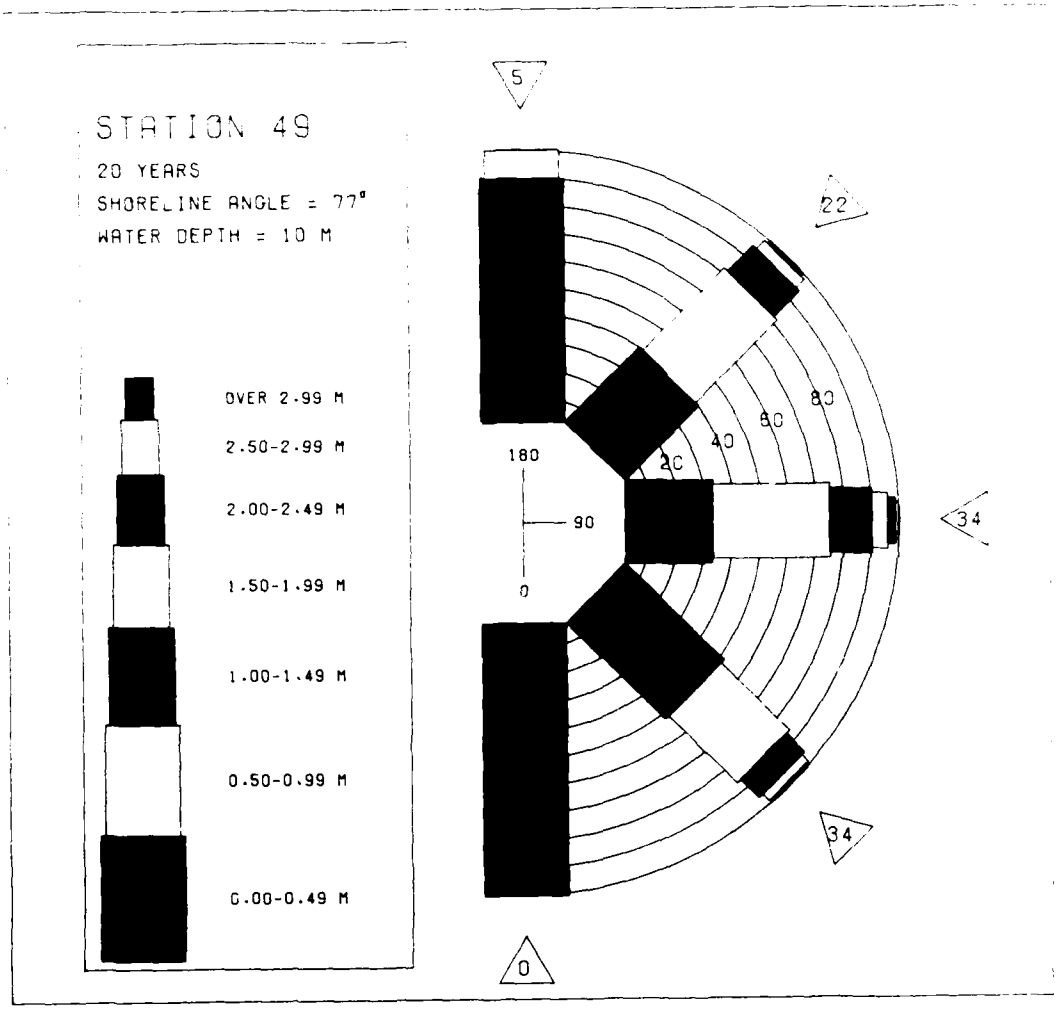
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	532	1115	1024	1408	704	94	.	.	.	.	4877
0.50 - 0.99	.	63	704	610	237	32	.	.	.	.	1646
1.00 - 1.49	.	.	1	20	23	.	.	.	.	.	44
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	532	1178	1729	2038	967	126	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.95 ANGLE CLASS % = 6.6

STATION 49 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 77.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	384	741	313	244	710	1023	428	45	55	98	4041
0.50 - 0.99	.	325	877	291	157	959	668	139	88	111	3615
1.00 - 1.49	.	.	77	306	127	266	161	50	75	52	1134
1.50 - 1.99	.	.	.	14	90	147	77	15	29	25	397
2.00 - 2.49	.	.	.	.	18	75	51	12	3	5	164
2.50 - 2.99	.	.	.	.	.	10	22	9	2	1	44
3.00 - 3.49	.	.	.	.	.	.	3	6	1	.	10
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	384	1066	1267	855	1102	2480	1430	276	254	292	

AVE HS(M) = 0.63 LARGEST HS(M) = 4.15 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 49

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.7	1.0	0.6	0.7	0.5	0.5	0.7	0.4	0.5	1.3	0.7	0.6	0.7
1957	0.4	0.6	0.7	0.6	0.5	0.6	0.6	0.5	0.6	1.0	1.0	1.0	0.7
1958	0.6	0.5	0.5	0.8	0.6	0.7	0.6	0.6	0.4	0.8	0.8	0.4	0.6
1959	0.6	0.7	0.6	0.7	0.4	0.4	0.7	0.5	0.3	0.8	1.0	0.5	0.6
1960	0.4	0.8	0.5	0.9	0.6	0.9	0.5	0.5	0.5	0.4	0.5	0.4	0.6
1961	0.5	0.7	0.6	0.8	0.7	1.0	0.6	0.6	0.6	0.5	0.6	0.6	0.6
1962	0.7	0.5	0.9	0.9	0.4	0.4	0.5	0.4	0.4	0.5	0.8	0.8	0.6
1963	0.5	0.5	0.9	0.4	1.0	0.8	0.5	0.4	0.7	0.4	0.8	0.4	0.6
1964	0.8	0.6	0.8	0.9	0.6	0.5	0.6	0.5	0.6	0.6	0.7	0.8	0.7
1965	0.6	0.7	0.6	0.5	0.4	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6
1966	0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.7	0.5	0.6	0.5	0.6
1967	0.6	0.8	1.1	0.6	0.6	0.4	0.6	0.8	0.7	0.7	0.5	0.7	0.7
1968	0.3	0.3	0.6	0.6	0.6	0.9	0.7	0.7	0.7	0.5	0.7	0.6	0.6
1969	0.9	0.8	1.4	0.7	0.7	0.5	0.4	0.5	0.4	0.4	0.7	0.7	0.7
1970	0.3	0.9	0.6	0.8	0.6	0.6	0.5	0.5	0.6	0.7	0.6	0.5	0.6
1971	0.5	0.9	0.6	0.6	0.9	0.6	0.6	0.5	0.5	0.8	0.5	0.6	0.7
1972	0.8	0.8	1.0	0.6	1.0	0.7	0.4	0.4	0.5	0.9	0.6	0.7	0.7
1973	0.6	0.6	0.7	0.8	0.7	0.7	0.5	0.5	0.4	0.6	0.9	1.2	0.7
1974	0.7	0.7	1.0	1.4	0.7	0.7	0.6	0.4	0.3	0.3	0.5	0.7	0.7
1975	0.6	0.7	0.8	0.5	0.3	0.7	0.8	0.7	0.5	0.4	0.6	0.8	0.6
MEAN	0.6	0.7	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 49

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.5	2.5	2.4	2.9	1.6	1.6	2.2	1.1	2.3	2.0	2.2	2.2
1957	2.1	2.0	2.0	2.6	1.4	2.2	1.4	1.4	1.9	3.1	2.6	2.5
1958	2.6	2.5	2.2	2.1	1.5	1.5	1.7	2.1	1.2	2.4	2.9	1.6
1959	3.1	2.2	3.0	2.2	1.1	1.7	2.2	1.3	1.0	2.7	2.5	2.3
1960	2.2	3.3	2.8	2.9	1.9	2.1	2.9	1.2	2.1	1.9	2.1	2.3
1961	2.2	2.4	2.1	2.4	2.4	2.1	1.2	1.4	2.2	1.3	2.5	2.0
1962	2.4	1.7	2.8	3.1	1.1	1.2	1.2	1.4	1.4	1.9	3.2	3.0
1963	2.4	2.1	2.4	2.1	3.1	2.1	1.7	2.6	2.0	1.8	2.8	2.6
1964	3.3	3.1	2.3	2.1	1.4	1.2	1.9	2.0	1.7	1.7	2.5	2.5
1965	2.6	2.7	1.9	2.0	0.9	1.5	1.6	1.5	1.7	2.7	2.0	2.0
1966	3.4	2.2	1.9	1.9	1.6	2.6	1.9	1.7	2.4	1.5	2.4	2.3
1967	2.4	2.4	2.3	2.0	2.1	1.1	1.5	2.0	2.2	2.8	1.7	2.8
1968	2.5	1.5	2.7	2.3	2.6	2.6	1.0	1.1	1.6	2.1	2.4	2.6
1969	3.3	1.9	3.4	1.9	2.8	1.4	1.5	1.8	1.6	2.1	2.8	3.6
1970	2.2	3.6	2.1	3.4	1.4	1.5	1.6	1.7	2.3	2.0	2.4	3.2
1971	2.7	3.1	3.7	3.5	2.3	1.3	1.4	2.9	1.5	1.9	2.5	1.6
1972	2.4	4.2	2.9	1.6	2.2	2.7	1.1	1.4	1.6	2.3	3.4	2.6
1973	2.6	3.2	3.5	3.0	2.4	1.9	1.5	2.0	1.8	2.8	3.2	4.0
1974	2.4	3.1	3.4	2.7	2.3	1.7	1.3	2.0	2.2	1.7	2.2	3.3
1975	3.0	3.0	3.9	2.7	1.2	1.8	1.8	1.0	2.2	2.1	2.5	3.3

LARGEST HS(METRES) FOR STATION 49 = 4.2

STATION 50 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 50 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1194	3071	2424	1007	2279	1808	109	1	.	.	11893
0.50 - 0.99	.	179	1978	1365	651	946	92	1	.	.	5212
1.00 - 1.49	.	.	11	237	326	566	77	1	.	.	1218
1.50 - 1.99	.	.	.	.	46	109	34	1	.	.	190
2.00 - 2.49	.	.	.	.	6	.	3	.	.	.	9
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1194	3250	4413	2609	3308	3429	315	4	0	0	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 2.39 ANGLE CLASS % = 18.5

STATION 50 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	811	1386	.	.	2407	5102	2092	174	124	61	12157
0.50 - 0.99	1	1081	2412	412	328	5100	3114	361	357	54	13220
1.00 - 1.49	.	.	227	1006	318	1155	805	138	366	42	4057
1.50 - 1.99	.	.	.	35	326	681	467	59	119	111	1798
2.00 - 2.49	.	.	.	.	66	352	278	90	23	32	841
2.50 - 2.99	.	.	.	.	.	41	135	58	8	11	253
3.00 - 3.49	.	.	.	.	.	.	13	32	6	3	54
3.50 - 3.99	.	.	.	.	.	.	.	3	10	1	14
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	812	2467	2639	1453	3445	12431	6904	915	1013	315	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.85 ANGLE CLASS % = 32.4

STATION 50 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	662	823	.	.	485	1978	1445	266	354	627	6640
0.50 - 0.99	.	874	1271	87	68	2570	2979	971	258	716	9794
1.00 - 1.49	.	.	224	716	107	462	706	337	390	410	3352
1.50 - 1.99	.	.	.	59	241	176	207	83	167	135	1068
2.00 - 2.49	.	.	.	.	65	196	104	25	8	10	408
2.50 - 2.99	.	.	.	.	1	46	68	22	10	3	150
3.00 - 3.49	.	.	.	.	.	.	13	20	5	5	43
3.50 - 3.99	.	.	.	.	.	.	.	.	6	1	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	662	1697	1495	862	967	5428	5522	1724	1198	1910	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.15 ANGLE CLASS % = 21.5

STATION 50 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	438	766	3	.	1353	1416	1011	56	162	373	5578
0.50 - 0.99	.	634	1521	439	118	602	689	99	314	362	4778
1.00 - 1.49	.	.	165	670	424	325	198	37	15	80	1914
1.50 - 1.99	.	.	.	20	172	381	116	18	11	8	726
2.00 - 2.49	.	.	.	.	13	83	73	22	8	6	205
2.50 - 2.99	.	.	.	.	.	5	5	10	3	.	23
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	438	1400	1689	1129	2080	2812	2092	243	513	829	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 3.16 ANGLE CLASS % = 13.2

STATION 50 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

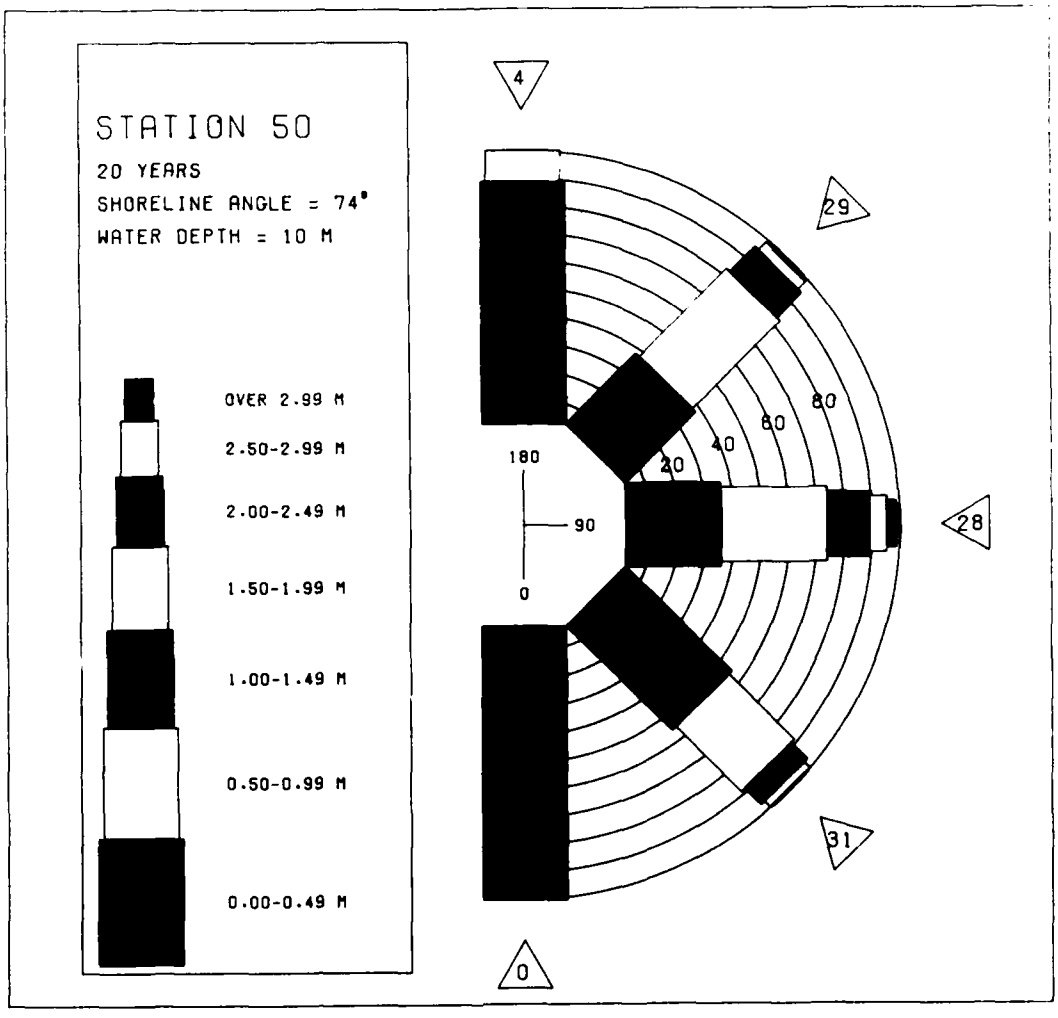
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	504	1076	1007	1300	590	97	.	.	.	.	4574
0.50 - 0.99	.	68	696	665	222	32	.	.	.	.	1683
1.00 - 1.49	.	.	5	17	22	1	.	.	.	.	45
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	504	1144	1708	1982	835	130	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.95 ANGLE CLASS % = 6.3

STATION 50 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	361	712	343	230	711	1040	465	49	64	106	4081
0.50 - 0.99	.	283	787	297	138	925	687	143	93	113	3466
1.00 - 1.49	.	.	63	264	119	251	178	51	77	53	1056
1.50 - 1.99	.	.	.	11	78	154	82	16	29	25	375
2.00 - 2.49	.	.	.	.	15	63	46	13	4	4	145
2.50 - 2.99	.	.	.	.	.	9	20	9	2	1	41
3.00 - 3.49	.	.	.	.	.	.	2	5	1	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	361	995	1193	802	1061	2422	1480	286	271	302	

AVE HS(M) = 0.60 LARGEST HS(M) = 4.15 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 50

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.7	0.9	0.6	0.7	0.5	0.5	0.7	0.3	0.5	1.3	0.7	0.6	0.7
1957	0.4	0.5	0.6	0.6	0.4	0.5	0.6	0.5	0.5	1.0	1.0	1.0	0.6
1958	0.5	0.4	0.5	0.8	0.6	0.6	0.5	0.6	0.3	0.8	0.7	0.4	0.6
1959	0.5	0.6	0.6	0.6	0.3	0.4	0.7	0.5	0.3	0.8	0.9	0.4	0.6
1960	0.4	0.7	0.5	0.8	0.6	0.9	0.5	0.5	0.5	0.4	0.4	0.3	0.6
1961	0.5	0.6	0.6	0.8	0.6	0.9	0.6	0.5	0.6	0.5	0.6	0.5	0.6
1962	0.7	0.5	0.9	0.9	0.4	0.4	0.5	0.4	0.3	0.5	0.8	0.7	0.6
1963	0.5	0.5	0.8	0.4	1.0	0.7	0.5	0.4	0.7	0.4	0.7	0.4	0.6
1964	0.7	0.6	0.7	0.9	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.8	0.6
1965	0.5	0.6	0.5	0.5	0.4	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.5
1966	0.4	0.4	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.4	0.5	0.4	0.5
1967	0.6	0.7	1.1	0.6	0.6	0.4	0.6	0.8	0.7	0.7	0.4	0.7	0.7
1968	0.3	0.2	0.6	0.6	0.6	0.9	0.7	0.6	0.7	0.4	0.6	0.5	0.6
1969	0.9	0.8	1.4	0.7	0.6	0.4	0.4	0.5	0.4	0.4	0.6	0.7	0.6
1970	0.3	0.8	0.5	0.8	0.6	0.6	0.5	0.5	0.6	0.7	0.6	0.5	0.6
1971	0.5	0.9	0.6	0.6	0.9	0.5	0.5	0.5	0.5	0.8	0.5	0.6	0.6
1972	0.7	0.7	0.9	0.5	0.9	0.7	0.4	0.4	0.5	0.9	0.6	0.7	0.7
1973	0.6	0.6	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.8	1.2	0.6
1974	0.6	0.7	1.0	1.4	0.7	0.7	0.6	0.4	0.3	0.3	0.4	0.6	0.6
1975	0.6	0.7	0.8	0.5	0.3	0.7	0.8	0.7	0.5	0.4	0.5	0.8	0.6
MEAN	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 50

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.5	2.4	2.2	2.9	1.6	1.5	2.1	0.9	2.3	2.0	2.2	2.2
1957	2.1	1.9	2.0	2.6	1.3	2.2	1.3	1.4	1.9	3.1	2.5	2.5
1958	2.6	2.5	2.2	2.1	1.4	1.4	1.6	2.1	1.0	2.5	2.8	1.6
1959	3.1	2.2	3.0	2.1	1.1	1.4	2.2	1.2	1.0	2.7	2.5	2.1
1960	2.0	3.2	2.8	2.8	1.9	2.1	2.9	1.2	2.0	1.8	1.7	2.3
1961	2.2	2.4	2.1	2.3	2.4	2.0	1.2	1.4	2.1	1.3	2.4	2.0
1962	2.3	1.7	2.8	3.1	1.1	1.2	1.2	1.3	1.4	1.7	3.1	2.7
1963	2.3	2.1	2.4	2.1	3.1	2.1	1.7	2.4	1.9	1.8	2.7	2.6
1964	3.1	3.1	2.3	2.0	1.4	1.0	1.9	2.0	1.7	1.6	2.5	2.5
1965	2.6	2.7	1.8	2.0	0.9	1.5	1.5	1.5	1.6	2.7	1.7	2.9
1966	3.3	2.2	1.9	2.0	1.5	2.5	1.9	1.6	2.4	1.5	2.4	2.3
1967	2.3	2.4	2.3	2.0	2.1	1.1	1.5	1.8	2.2	2.8	1.5	2.8
1968	2.6	1.5	2.7	2.1	2.6	2.6	1.0	1.1	1.6	1.8	2.4	2.6
1969	3.2	1.9	3.4	1.9	2.8	1.3	1.5	1.6	1.6	1.5	2.8	3.6
1970	2.2	3.6	2.0	3.3	1.4	1.5	1.5	1.7	2.2	2.2	2.4	3.2
1971	2.6	3.0	3.6	3.4	2.2	1.3	1.4	2.9	1.5	1.9	2.5	1.6
1972	2.1	4.2	2.9	1.4	2.2	2.7	1.0	1.4	1.6	2.3	3.3	2.5
1973	2.4	3.1	3.2	3.0	2.4	1.9	1.5	2.0	1.8	2.8	3.0	4.0
1974	2.4	3.0	3.2	2.6	2.2	1.6	1.2	1.8	2.1	1.5	2.0	3.3
1975	3.0	2.9	3.9	2.6	1.1	1.7	1.8	1.0	2.1	2.1	2.5	3.3

LARGEST HS(METRES) FOR STATION 50 = 4.2

STATION 51 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 51 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	835	1830	2161	1143	1380	1779	78	.	.	.	9206
0.50 - 0.99	.	.	225	179	294	314	13	.	.	.	1025
1.00 - 1.49	.	.	.	.	15	87	3	.	.	.	105
1.50 - 1.99	.	.	.	.	.	27	1	.	.	.	28
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	835	1830	2386	1322	1689	2207	95	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.90 ANGLE CLASS % = 10.4

STATION 51 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1307	2813	477	.	2717	3622	942	107	47	1	12033
0.50 - 0.99	1	838	3875	1565	701	4881	1653	147	75	.	13936
1.00 - 1.49	.	.	136	1098	622	1509	761	41	75	13	4275
1.50 - 1.99	.	.	.	20	349	768	432	25	61	1	1656
2.00 - 2.49	.	.	.	.	51	302	249	54	20	.	676
2.50 - 2.99	.	.	.	.	.	29	92	56	13	.	190
3.00 - 3.49	.	.	.	.	.	1	6	32	8	.	47
3.50 - 3.99	.	.	.	.	.	.	.	3	5	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1308	3651	4488	2683	4440	11112	4355	465	304	15	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 3.71 ANGLE CLASS % = 32.8

STATION 51 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	930	1165			1074	1740	2677	379	429	484	6878
0.50 - 0.99	.	1100	1731	142	75	1344	4236	1021	585	296	10530
1.00 - 1.49	.	.	260	800	136	282	696	359	646	237	3416
1.50 - 1.99	.	.	.	73	273	232	174	85	183	189	1209
2.00 - 2.49	.	.	.	.	85	249	128	34	1	37	534
2.50 - 2.99	.	.	.	.	1	54	124	22	3	18	222
3.00 - 3.49	.	.	.	.	.	.	13	22	5	3	43
3.50 - 3.99	.	.	.	.	.	.	.	.	11	3	14
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	930	2265	1991	1015	1644	3901	8048	1922	1863	1270	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 4.15 ANGLE CLASS % = 24.9

STATION 51 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	602	903	3		1079	2236	82	10	44	.	4959
0.50 - 0.99	.	696	1563	482	217	2547	114	169	.	.	5788
1.00 - 1.49	.	.	111	574	357	689	126	47	6	.	1910
1.50 - 1.99	.	.	.	13	97	297	131	32	5	.	575
2.00 - 2.49	.	.	.	.	18	61	49	22	5	.	155
2.50 - 2.99	.	.	.	.	.	5	5	8	1	.	19
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	602	1599	1677	1069	1768	5835	507	288	61	0	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 2.89 ANGLE CLASS % = 13.4

STATION 51 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

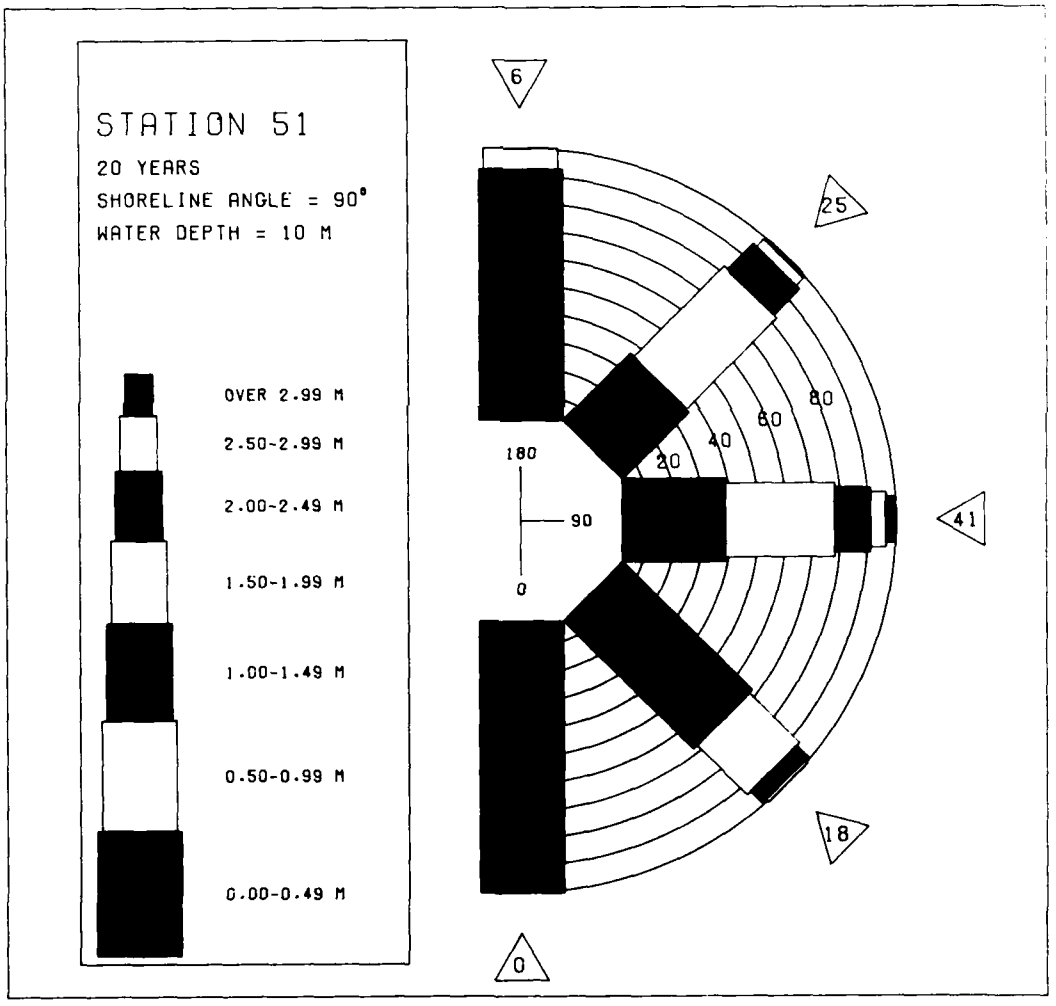
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	756	1483	1302	1663	829	114	.	.	.	.	6147
0.50 - 0.99	.	80	773	569	268	73	.	.	.	.	1763
1.00 - 1.49	.	.	5	17	22	.	.	.	.	.	44
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	756	1563	2080	2249	1119	187	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.41 ANGLE CLASS % = 8.0

STATION 51 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	443	819	394	280	708	949	378	49	52	48	4120
0.50 - 0.99	.	271	817	293	155	916	621	133	66	29	3301
1.00 - 1.49	.	.	51	249	115	256	160	44	72	25	972
1.50 - 1.99	.	.	.	10	72	132	74	14	24	19	345
2.00 - 2.49	.	.	.	.	15	61	42	11	2	3	134
2.50 - 2.99	.	.	.	.	.	8	22	8	1	1	40
3.00 - 3.49	.	.	.	.	.	.	2	5	1	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	443	1090	1262	832	1065	2322	1299	264	219	125	

AVE HS(M) = 0.57 LARGEST HS(M) = 4.15 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 51

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.9	0.5	0.7	0.5	0.4	0.7	0.3	0.4	1.1	0.6	0.6	0.6
1957	0.4	0.5	0.6	0.6	0.4	0.5	0.6	0.4	0.5	0.9	0.9	1.0	0.6
1958	0.5	0.4	0.4	0.7	0.6	0.6	0.6	0.6	0.3	0.7	0.7	0.3	0.5
1959	0.5	0.6	0.6	0.6	0.4	0.4	0.7	0.5	0.3	0.7	0.9	0.4	0.5
1960	0.4	0.7	0.5	0.9	0.6	0.8	0.3	0.5	0.4	0.4	0.5	0.3	0.5
1961	0.5	0.6	0.5	0.8	0.6	0.9	0.6	0.6	0.4	0.2	0.3	0.5	0.5
1962	0.7	0.4	0.3	0.5	0.3	0.4	0.5	0.4	0.3	0.4	0.7	0.7	0.5
1963	0.5	0.5	0.8	0.4	0.9	0.7	0.5	0.4	0.4	0.3	0.8	0.4	0.5
1964	0.7	0.6	0.7	0.8	0.4	0.5	0.6	0.5	0.5	0.6	0.6	0.8	0.6
1965	0.5	0.6	0.5	0.5	0.4	0.6	0.6	0.6	0.4	0.6	0.5	0.5	0.5
1966	0.4	0.4	0.6	0.5	0.6	0.7	0.6	0.6	0.6	0.4	0.5	0.4	0.5
1967	0.6	0.7	0.8	0.3	0.5	0.4	0.6	0.8	0.6	0.7	0.5	0.6	0.6
1968	0.3	0.3	0.6	0.5	0.6	0.9	0.6	0.6	0.6	0.4	0.6	0.5	0.5
1969	0.9	0.5	1.2	0.5	0.6	0.4	0.4	0.5	0.3	0.3	0.6	0.6	0.6
1970	0.3	0.8	0.5	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.6
1971	0.5	0.9	0.6	0.6	0.9	0.5	0.6	0.5	0.4	0.6	0.4	0.6	0.6
1972	0.7	0.7	0.9	0.5	0.9	0.7	0.4	0.4	0.4	0.8	0.6	0.6	0.6
1973	0.6	0.4	0.6	0.7	0.7	0.6	0.5	0.4	0.4	0.5	0.8	1.2	0.6
1974	0.6	0.6	1.0	1.4	0.7	0.6	0.6	0.3	0.3	0.3	0.4	0.6	0.6
1975	0.6	0.7	0.7	0.5	0.3	0.7	0.7	0.7	0.4	0.3	0.5	0.7	0.6
MEAN	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.4	0.5	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 51

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.1	2.5	2.4	3.0	1.7	1.6	2.2	1.1	2.1	1.7	2.2	2.2
1957	2.1	1.9	2.0	2.6	1.4	2.2	1.5	1.3	1.8	3.1	2.6	2.5
1958	2.6	2.4	2.2	2.1	1.4	1.5	1.6	2.1	1.2	2.3	2.9	1.4
1959	3.2	2.2	3.0	2.3	1.1	1.7	2.2	1.2	1.0	2.7	2.5	2.2
1960	2.2	3.2	2.8	2.9	1.8	2.0	2.9	1.2	2.0	1.9	2.0	2.3
1961	2.2	2.5	1.9	2.3	2.4	2.0	1.1	1.4	2.2	1.2	2.4	2.1
1962	2.5	1.6	2.8	3.1	1.0	1.2	1.3	1.4	1.4	1.9	3.2	2.9
1963	2.4	2.1	2.4	2.1	3.1	2.1	1.7	2.5	1.9	1.6	2.8	2.6
1964	3.3	3.2	2.3	2.1	1.1	1.1	1.9	2.0	1.6	1.7	2.5	2.5
1965	2.3	2.7	1.9	2.0	0.9	1.1	1.5	1.4	1.6	2.7	2.0	1.9
1966	3.4	2.2	1.7	1.9	1.7	2.6	1.9	1.7	2.2	1.5	2.4	2.3
1967	2.4	2.4	2.3	2.1	2.1	1.1	1.5	1.8	2.1	2.8	1.7	2.8
1968	2.3	1.5	2.7	2.2	2.2	2.6	1.0	1.1	1.6	2.0	2.2	2.8
1969	3.2	1.9	2.8	1.8	2.8	1.4	1.5	1.7	1.1	1.9	2.8	3.6
1970	2.2	3.6	2.1	3.3	1.4	1.5	1.6	1.7	2.3	1.8	2.3	3.2
1971	2.7	3.1	3.7	3.5	2.3	1.2	1.4	2.9	1.4	1.8	2.3	1.6
1972	2.3	4.2	2.9	1.5	2.2	2.7	1.1	1.4	1.6	2.1	3.4	2.6
1973	2.6	3.1	3.4	3.0	2.4	1.9	1.5	2.0	1.6	2.6	3.1	4.0
1974	2.4	3.1	3.2	2.8	2.3	1.7	1.2	2.0	2.2	1.7	2.2	3.3
1975	3.1	2.9	3.8	2.7	1.1	1.8	1.8	1.0	2.1	2.1	2.5	2.9

LARGEST HS(METRES) FOR STATION 51 = 4.2

STATION 52 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 52 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	75	.	.	.	.	.	75
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	75	0	0	0	0	0	

AVERAGE HS(M) = 0.18 LARGEST HS(M) = 0.41 ANGLE CLASS % = 0.1

STATION 52 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2414	5196	3035	1699	2448	5431	1840	183	99	1	22366
0.50 - 0.99	.	518	3275	2123	270	3680	1728	102	109	1	11806
1.00 - 1.49	.	.	39	665	420	773	727	51	70	.	2745
1.50 - 1.99	.	.	.	8	160	417	220	30	39	.	874
2.00 - 2.49	.	.	.	.	35	111	124	18	27	.	315
2.50 - 2.99	.	.	.	.	.	10	56	17	13	1	97
3.00 - 3.49	.	.	.	.	.	.	1	10	5	.	16
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2414	5714	6349	4495	3333	10422	4716	412	365	3	

AVERAGE HS(M) = 0.52 LARGEST HS(M) = 3.73 ANGLE CLASS % = 38.2

STATION 52 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1144	1594			2108	4200	4089	1021	378	785	15319
0.50 - 0.99	.	1178	2043	184	203	2511	2392	434	643	278	9866
1.00 - 1.49	.	.	183	841	184	619	343	56	314	10	2550
1.50 - 1.99	.	.	.	63	270	335	210	20	22	5	925
2.00 - 2.49	.	.	.	.	65	374	179	18	20	.	656
2.50 - 2.99	.	.	.	.	.	41	107	18	10	.	176
3.00 - 3.49	.	.	.	.	.	.	10	30	6	.	46
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1144	2772	2226	1088	2830	8080	7330	1597	1394	1079	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 4.21 ANGLE CLASS % = 29.6

STATION 52 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	776	1062	6		869	2861	92	66	41	.	5773
0.50 - 0.99	.	693	1680	469	196	831	133	47	1	.	4070
1.00 - 1.49	.	.	95	559	328	361	34	3	1	.	1461
1.50 - 1.99	.	.	.	11	68	217	68	5	.	.	369
2.00 - 2.49	.	.	.	.	15	47	34	5	.	.	101
2.50 - 2.99	.	.	.	.	.	3	8	5	.	.	16
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	776	1755	1781	1059	1476	4340	449	131	43	0	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 2.78 ANGLE CLASS % = 11.8

STATION 52 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

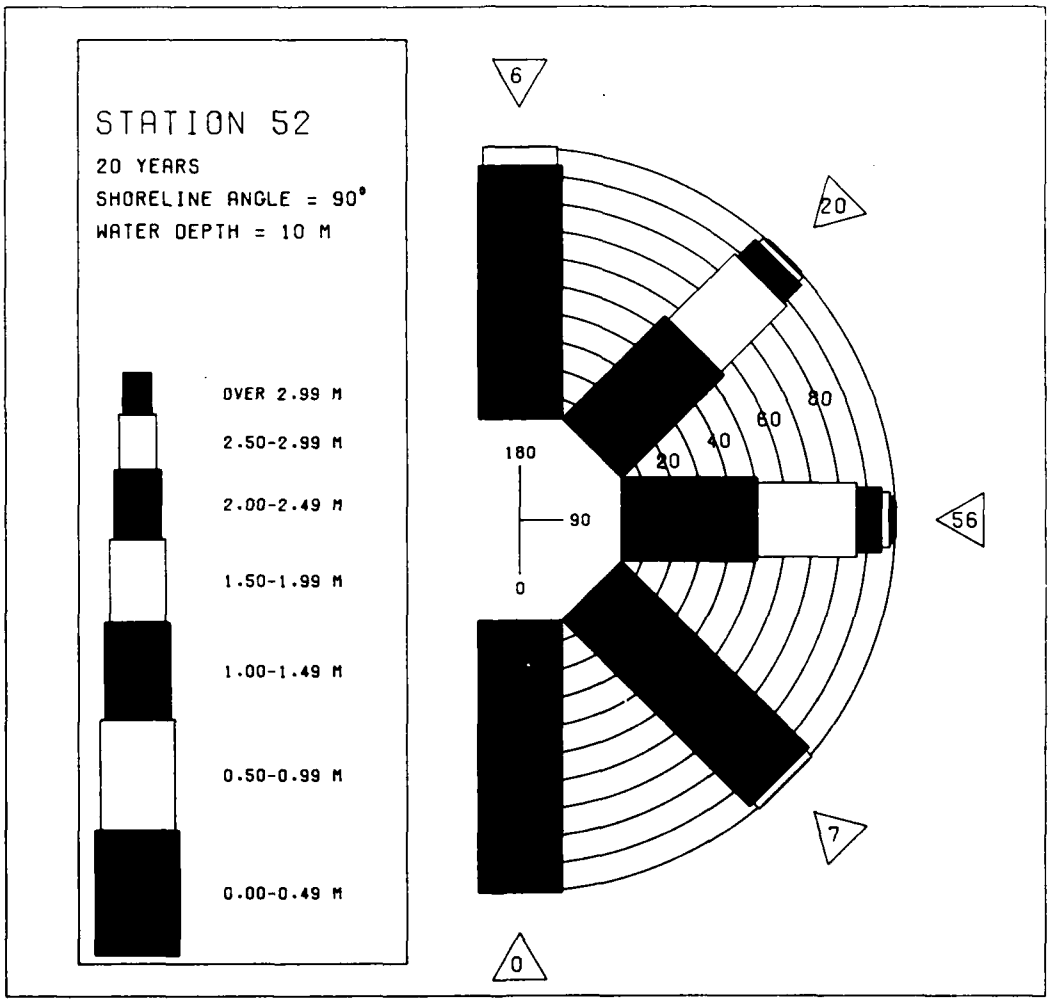
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	930	1640	1468	1712	860	140	.	.	.	.	6750
0.50 - 0.99	.	99	727	581	277	59	.	.	.	.	1743
1.00 - 1.49	.	.	3	11	15	.	.	.	.	.	29
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	930	1739	2198	2304	1152	199	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.17 ANGLE CLASS % = 8.5

STATION 52 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	526	949	451	341	636	1263	604	127	51	78	5026
0.50 - 0.99	.	248	772	337	94	708	425	58	75	28	2745
1.00 - 1.49	.	.	32	207	94	177	116	11	38	1	676
1.50 - 1.99	.	.	.	8	49	97	52	5	6	.	217
2.00 - 2.49	.	.	.	.	11	53	33	4	4	.	105
2.50 - 2.99	.	.	.	.	.	5	17	4	2	.	28
3.00 - 3.49	.	.	.	.	.	.	1	4	1	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	526	1197	1255	893	884	2303	1248	213	177	107	

AVE HS(M) = 0.48 LARGEST HS(M) = 4.21 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 52

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.8	0.5	0.6	0.4	0.4	0.7	0.4	0.2	0.7	0.4	0.4	0.5
1957	0.3	0.4	0.2	0.5	0.4	0.5	0.5	0.3	0.4	0.6	0.8	0.9	0.5
1958	0.4	0.3	0.3	0.6	0.5	0.5	0.4	0.5	0.3	0.4	0.5	0.3	0.4
1959	0.5	0.6	0.5	0.5	0.3	0.3	0.5	0.4	0.3	0.5	0.7	0.4	0.5
1960	0.4	0.7	0.4	0.7	0.5	0.5	0.3	0.4	0.4	0.3	0.4	0.3	0.4
1961	0.3	0.6	0.5	0.7	0.7	0.8	0.6	0.5	0.3	0.2	0.3	0.5	0.5
1962	0.6	0.4	0.3	0.5	0.3	0.4	0.4	0.4	0.3	0.3	0.6	0.6	0.4
1963	0.4	0.5	0.7	0.4	0.6	0.5	0.4	0.3	0.3	0.2	0.8	0.4	0.5
1964	0.7	0.5	0.7	0.8	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.8	0.5
1965	0.4	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.6	0.5	0.4	0.5
1966	0.4	0.4	0.5	0.4	0.5	0.7	0.5	0.5	0.5	0.4	0.5	0.3	0.5
1967	0.5	0.7	0.7	0.3	0.4	0.3	0.6	0.8	0.4	0.5	0.4	0.6	0.5
1968	0.3	0.2	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.5	0.6	0.4
1969	0.7	0.5	0.4	0.5	0.5	0.4	0.3	0.4	0.2	0.3	0.5	0.5	0.5
1970	0.2	0.9	0.5	0.6	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.5
1971	0.4	0.8	0.5	0.5	0.7	0.5	0.5	0.5	0.4	0.5	0.4	0.6	0.5
1972	0.7	0.7	0.9	0.4	0.7	0.6	0.3	0.3	0.3	0.6	0.6	0.6	0.5
1973	0.6	0.4	0.6	0.6	0.6	0.5	0.3	0.3	0.3	0.4	0.8	1.1	0.6
1974	0.6	0.6	0.9	0.9	0.5	0.5	0.6	0.3	0.3	0.2	0.4	0.6	0.5
1975	0.6	0.6	0.6	0.4	0.3	0.6	0.6	0.5	0.4	0.3	0.5	0.6	0.5
MEAN	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 52

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.6	2.2	2.2	3.4	1.3	1.3	2.1	0.9	1.2	1.3	2.2	2.1
1957	2.1	1.5	2.4	2.4	1.3	2.3	1.0	1.3	1.7	2.0	2.4	2.4
1958	2.4	2.2	1.7	2.4	1.4	1.4	1.2	1.9	1.1	1.9	2.1	1.4
1959	3.0	2.1	2.9	1.9	1.1	1.0	2.0	1.2	1.0	2.7	2.4	2.0
1960	2.1	3.7	2.7	2.2	1.7	1.8	2.8	0.9	1.6	1.6	1.5	2.3
1961	2.2	2.5	2.0	2.2	2.4	1.8	1.2	1.2	2.2	1.8	2.2	1.9
1962	2.4	1.5	2.6	2.7	1.0	1.1	1.1	1.2	1.4	1.4	3.0	2.6
1963	2.2	2.1	2.2	2.1	2.9	2.0	2.0	2.3	1.5	1.1	2.6	2.5
1964	3.4	2.6	2.2	2.0	1.2	1.0	1.9	1.9	1.2	1.4	2.5	2.4
1965	2.5	2.6	1.6	2.1	1.0	1.1	1.4	1.5	1.5	2.5	2.0	1.8
1966	2.9	2.0	1.5	1.5	1.2	2.6	1.6	1.4	2.0	1.4	2.3	2.3
1967	2.3	2.0	1.8	1.9	1.6	1.1	1.4	1.4	2.1	2.4	1.3	2.4
1968	2.4	2.0	2.7	2.2	2.0	1.4	0.9	0.9	1.3	1.9	2.2	3.1
1969	2.6	1.5	2.7	1.7	2.6	1.3	1.5	1.2	1.1	1.3	2.7	2.7
1970	1.7	3.1	2.0	2.9	1.3	1.4	1.4	1.4	2.2	1.7	2.1	3.2
1971	2.5	2.8	3.4	2.5	2.3	1.1	1.3	3.0	1.3	1.7	2.4	1.7
1972	2.2	2.9	2.7	1.2	2.2	2.5	1.0	1.3	1.4	2.1	3.1	2.4
1973	2.7	3.4	3.1	2.7	2.3	1.8	1.4	1.7	1.5	2.7	3.7	4.2
1974	2.3	3.0	3.6	2.5	2.4	1.4	1.0	1.2	2.1	1.4	1.9	2.8
1975	2.6	3.4	3.4	2.5	1.1	1.6	1.7	0.7	2.0	1.8	2.5	2.8

LARGEST HS(METRES) FOR STATION 52 = 4.2

STATION 53 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2111	4911	3297	1748	280	456	150	13	10	.	12976
0.50 - 0.99	.	463	2421	1601	282	97	5	.	.	.	4869
1.00 - 1.49	.	.	15	94	99	5	1	.	.	.	214
1.50 - 1.99	.	.	.	.	11	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2111	5374	5733	3443	672	558	156	13	10	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.88 ANGLE CLASS % = 18.1

STATION 53 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	982	1314	.	.	4144	11702	5763	350	528	229	25012
0.50 - 0.99	.	896	1765	362	203	3042	2215	299	395	42	9219
1.00 - 1.49	.	.	150	770	420	829	533	53	130	.	2885
1.50 - 1.99	.	.	.	25	208	393	229	39	47	1	942
2.00 - 2.49	.	.	.	.	34	133	94	27	8	.	296
2.50 - 2.99	.	.	.	.	.	6	10	10	.	.	26
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	982	2210	1915	1157	5009	16105	8844	779	1108	272	

AVERAGE HS(M) = 0.50 LARGEST HS(M) = 3.20 ANGLE CLASS % = 38.4

STATION 53 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	597	841	.	.	800	2958	2058	982	266	617	9119
0.50 - 0.99	.	723	1493	140	39	850	638	270	309	147	4609
1.00 - 1.49	.	.	111	672	128	152	123	32	75	17	1310
1.50 - 1.99	.	.	.	44	203	136	42	1	17	3	446
2.00 - 2.49	.	.	.	.	32	205	58	5	.	3	303
2.50 - 2.99	.	.	.	.	.	34	82	6	.	1	123
3.00 - 3.49	.	.	.	.	.	.	1	17	3	1	22
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	597	1564	1604	856	1202	4335	3002	1314	671	789	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.71 ANGLE CLASS % = 16.0

STATION 53 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	706	1476	1127	1327	1370	1365	776	133	75	405	8760
0.50 - 0.99	.	154	1040	896	366	1409	1038	181	301	1153	6538
1.00 - 1.49	.	.	15	289	333	568	465	51	61	313	2095
1.50 - 1.99	.	.	.	5	65	398	203	35	8	124	868
2.00 - 2.49	.	.	.	.	8	121	131	8	6	32	306
2.50 - 2.99	.	.	.	.	.	11	34	10	3	11	69
3.00 - 3.49	.	.	.	.	.	.	.	5	1	5	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	706	1630	2182	2517	2172	3872	2647	423	455	2043	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.43 ANGLE CLASS % = 18.7

STATION 53 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	8	.	.	.	.	.	.	.	.	.	8
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 53 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

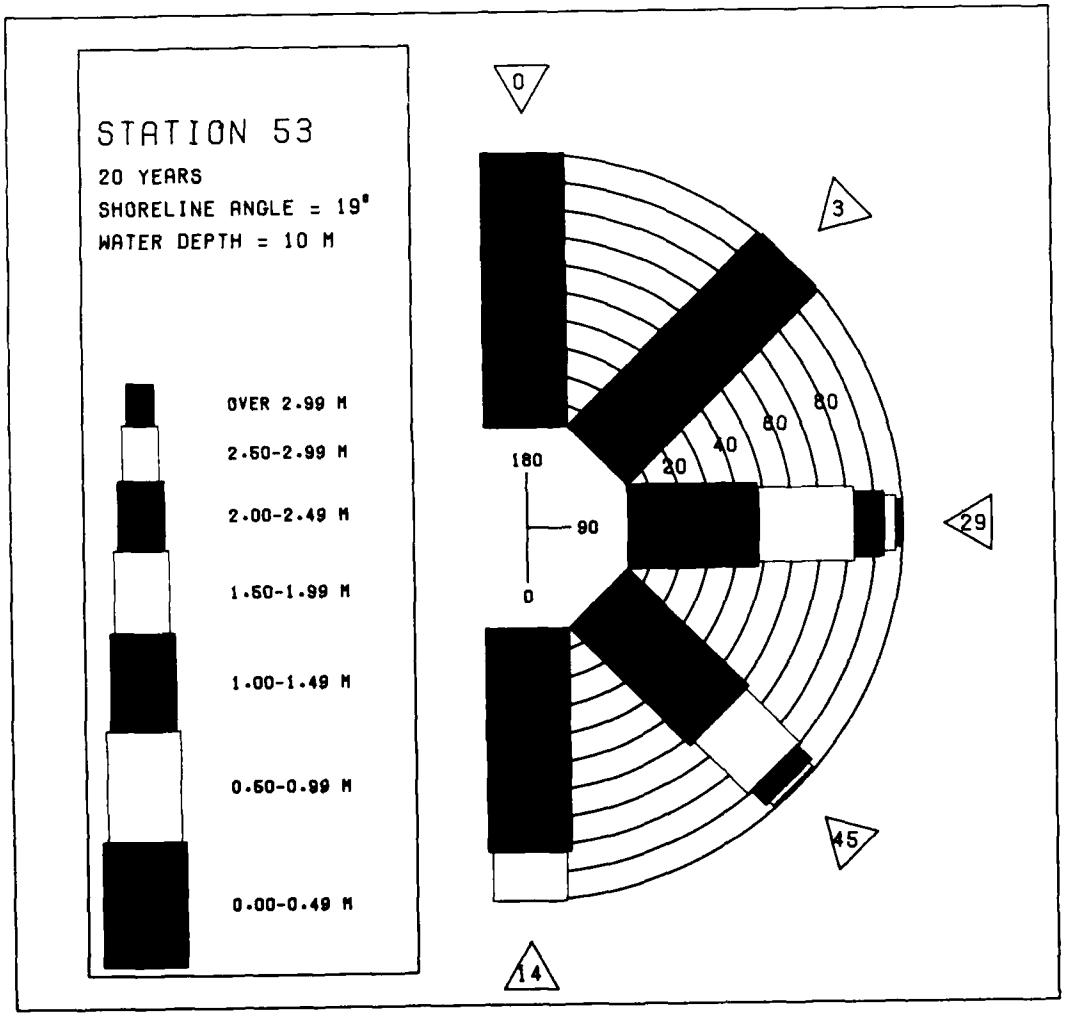
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 53 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	440	854	442	307	659	1648	874	148	88	125	5585
0.50 - 0.99	.	223	672	300	89	540	389	75	100	134	2522
1.00 - 1.49	.	.	29	182	98	155	112	13	26	33	648
1.50 - 1.99	.	.	.	7	52	92	47	7	7	13	225
2.00 - 2.49	.	.	.	.	7	46	28	4	1	3	89
2.50 - 2.99	.	.	.	.	.	5	12	2	.	1	20
3.00 - 3.49	.	.	.	.	.	.	.	2	.	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	440	1077	1143	796	905	2486	1462	251	222	309	

AVE HS(M) = 0.47 LARGEST HS(M) = 3.71 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 53

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.7	0.5	0.5	0.3	0.4	0.6	0.3	0.4	0.9	0.5	0.4	0.5
1957	0.3	0.5	0.5	0.5	0.3	0.5	0.4	0.3	0.4	0.7	0.7	0.7	0.5
1958	0.5	0.3	0.4	0.7	0.5	0.4	0.3	0.4	0.3	0.6	0.5	0.3	0.4
1959	0.4	0.4	0.5	0.5	0.2	0.2	0.5	0.3	0.3	0.7	0.6	0.3	0.4
1960	0.3	0.8	0.4	0.6	0.5	0.8	0.5	0.4	0.4	0.3	0.4	0.3	0.5
1961	0.4	0.5	0.5	0.6	0.6	0.7	0.5	0.4	0.6	0.6	0.6	0.4	0.5
1962	0.5	0.5	1.1	0.9	0.3	0.3	0.3	0.3	0.3	0.4	0.7	0.6	0.5
1963	0.3	0.4	0.6	0.3	0.6	0.5	0.3	0.3	0.6	0.4	0.7	0.3	0.4
1964	0.6	0.4	0.5	0.7	0.6	0.3	0.4	0.3	0.6	0.4	0.4	0.6	0.5
1965	0.5	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
1966	0.4	0.3	0.4	0.5	0.5	0.6	0.4	0.4	0.5	0.3	0.4	0.3	0.4
1967	0.4	0.5	0.9	0.6	0.4	0.3	0.5	0.7	0.6	0.5	0.3	0.6	0.5
1968	0.3	0.2	0.5	0.4	0.5	0.6	0.4	0.4	0.4	0.3	0.5	0.4	0.4
1969	0.6	0.7	0.9	0.6	0.4	0.4	0.3	0.3	0.4	0.3	0.5	0.5	0.5
1970	0.2	0.8	0.5	0.6	0.5	0.4	0.4	0.3	0.4	0.6	0.6	0.4	0.5
1971	0.3	0.7	0.4	0.4	0.6	0.4	0.4	0.4	0.4	0.8	0.5	0.4	0.5
1972	0.5	0.6	0.8	0.3	0.7	0.6	0.2	0.2	0.5	0.6	0.5	0.6	0.5
1973	0.4	0.6	0.7	0.5	0.6	0.5	0.3	0.3	0.3	0.4	0.5	0.9	0.5
1974	0.5	0.5	0.7	0.7	0.5	0.5	0.5	0.4	0.3	0.2	0.3	0.6	0.5
1975	0.5	0.6	0.6	0.3	0.3	0.5	0.6	0.4	0.3	0.3	0.4	0.6	0.5
MEAN	0.4	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 53

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.4	1.7	2.3	2.6	1.1	1.0	1.7	0.9	2.7	2.6	2.0	1.6
1957	1.7	1.3	2.3	2.4	1.3	1.7	0.8	1.7	1.9	3.0	1.9	2.1
1958	2.4	2.3	2.8	2.3	1.4	1.2	0.9	1.4	0.9	2.7	2.8	2.1
1959	2.4	2.0	2.6	1.9	0.8	0.8	2.0	1.2	1.0	2.6	1.9	1.6
1960	1.7	2.8	2.3	1.7	1.6	1.8	2.8	1.0	1.5	1.5	1.2	2.7
1961	1.9	2.6	2.4	2.5	2.3	1.5	1.0	1.2	2.2	1.8	2.5	1.4
1962	2.2	1.4	2.9	2.2	1.1	1.2	0.9	1.2	1.3	1.3	2.9	2.6
1963	2.1	1.9	2.1	1.9	2.4	2.2	1.5	1.7	2.2	2.4	2.2	2.0
1964	2.6	2.6	1.9	2.1	1.8	0.8	1.9	1.8	1.9	1.7	2.4	2.0
1965	2.8	2.6	1.7	2.1	1.0	1.5	1.1	1.4	1.4	2.2	1.5	2.0
1966	3.3	1.6	2.1	1.9	1.2	2.1	1.4	1.0	2.2	1.3	2.4	2.1
1967	1.7	1.5	1.6	1.7	1.4	0.9	1.2	1.1	2.4	2.1	1.3	2.7
1968	2.7	1.6	2.7	2.0	2.7	1.6	0.8	0.8	1.2	1.3	2.5	2.0
1969	2.3	1.9	2.6	1.7	2.1	1.2	1.4	0.9	1.8	1.6	2.9	3.0
1970	1.2	2.3	2.0	2.4	1.4	1.3	1.1	1.1	1.6	2.0	2.5	3.2
1971	1.9	2.5	2.9	2.8	1.8	1.2	1.3	2.5	1.5	2.1	2.6	1.3
1972	1.6	3.5	2.7	1.1	1.9	2.2	0.9	0.9	2.0	2.3	2.7	2.3
1973	2.2	2.9	2.5	2.4	1.9	1.8	1.2	1.5	1.9	3.0	2.4	3.2
1974	2.2	2.4	2.7	1.8	2.2	1.6	0.7	0.9	1.7	1.1	1.6	3.3
1975	2.3	2.4	3.7	2.2	1.1	1.3	1.9	0.7	2.1	1.8	2.5	3.2

LARGEST HS(METRES) FOR STATION 53 = 3.7

STATION 54 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 4.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2888	5985	4065	2347	588	869	313	11	6		17072
0.50 - 0.99	.	313	1976	1213	388	179	47	5	6	1	4128
1.00 - 1.49	.	.	17	77	100	6	.	.	1	.	201
1.50 - 1.99	.	.	.	.	10	1	.	.	.	.	11
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2888	6298	6058	3637	1086	1055	360	16	13	1	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.85 ANGLE CLASS % = 21.4

STATION 54 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 4.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	944	1254	.	.	3237	7493	3879	302	494	456	18059
0.50 - 0.99	.	821	1651	340	130	1481	795	80	205	8	5511
1.00 - 1.49	.	.	114	665	316	485	248	53	37	.	1918
1.50 - 1.99	.	.	.	25	154	309	109	20	10	1	628
2.00 - 2.49	.	.	.	.	27	90	51	10	.	.	178
2.50 - 2.99	.	.	.	.	.	3	11	11	1	.	26
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	944	2075	1765	1030	3864	9861	5093	479	747	465	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 3.05 ANGLE CLASS % = 26.3

STATION 54 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 4.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	634	744	.	.	593	2861	2286	992	278	455	8843
0.50 - 0.99	.	571	1309	148	37	718	631	277	311	106	4108
1.00 - 1.49	.	.	111	693	147	164	131	30	70	58	1404
1.50 - 1.99	.	.	.	34	256	159	71	6	11	25	562
2.00 - 2.49	.	.	.	.	29	285	80	5	1	25	425
2.50 - 2.99	.	.	.	.	.	51	92	5	1	1	150
3.00 - 3.49	.	.	.	.	.	.	6	10	5	.	21
3.50 - 3.99	.	.	.	.	.	.	.	8	.	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	634	1315	1420	875	1062	4238	3297	1333	677	670	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 3.70 ANGLE CLASS % = 15.5

910

STATION 54 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 4.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	908	1839	1471	1617	1358	1795	961	123	78	432	10582
0.50 - 0.99	.	116	956	1018	236	1651	1247	310	333	1156	6023
1.00 - 1.49	.	.	17	349	516	586	545	102	85	213	2313
1.50 - 1.99	.	.	.	8	123	381	217	44	15	131	919
2.00 - 2.49	.	.	.	.	13	154	138	6	7	34	340
2.50 - 2.99	.	.	.	.	.	15	49	3	1	15	83
3.00 - 3.49	.	.	.	.	.	.	1	1	.	3	5
3.50 - 3.99	.	.	.	.	.	.	.	1	.	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	908	1955	2444	2992	2046	4582	3158	490	518	2074	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 3.68 ANGLE CLASS % = 21.2

STATION 54 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 4.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	10	.	.	.	.	.	.	.	.	.	10
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 54 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 4.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

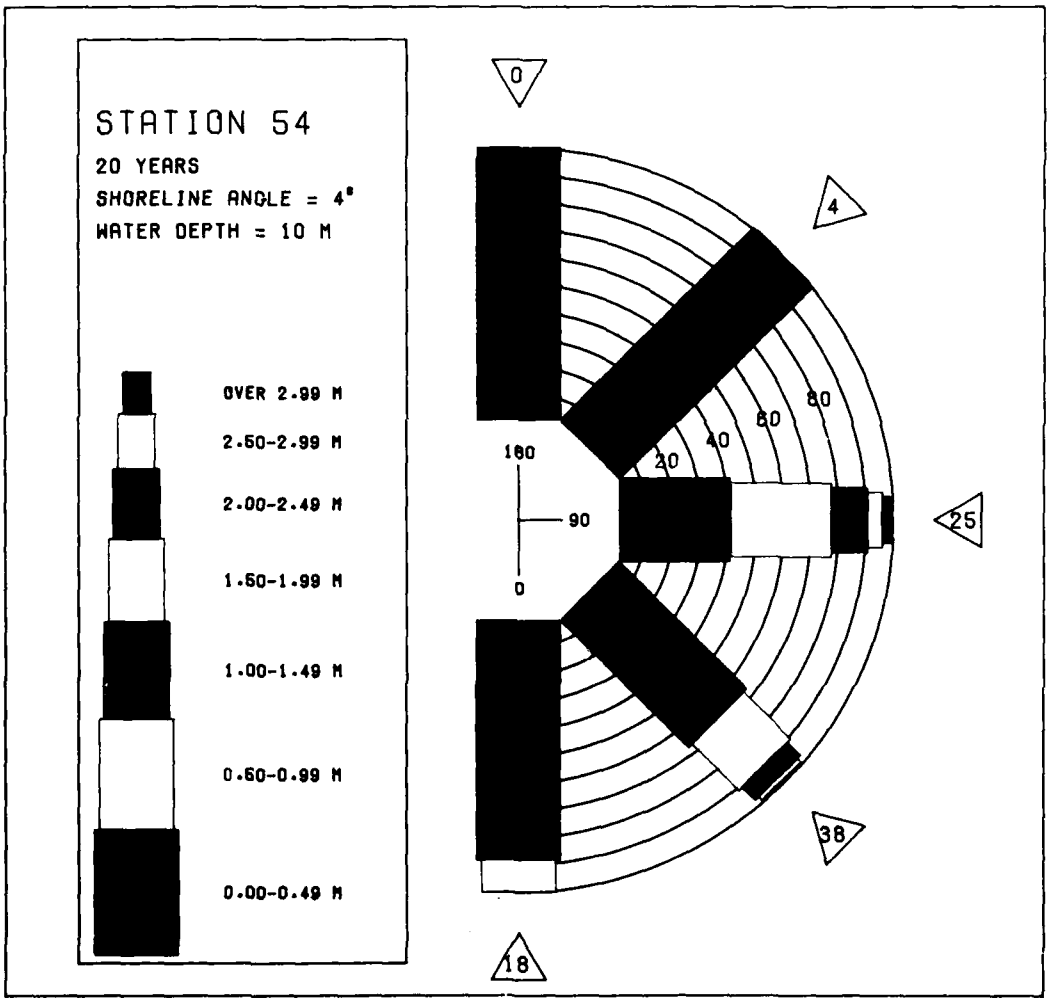
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 54 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 4.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	538	982	553	396	577	1301	744	143	85	134	5453
0.50 - 0.99	.	182	589	272	79	403	272	57	85	127	2066
1.00 - 1.49	.	.	26	178	88	124	92	18	19	37	582
1.50 - 1.99	.	.	.	6	54	85	39	7	3	15	209
2.00 - 2.49	.	.	.	.	7	53	27	2	.	4	93
2.50 - 2.99	.	.	.	.	.	7	15	2	.	1	25
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	538	1164	1168	852	805	1973	1189	231	192	318	

AVE HS(M) = 0.42 LARGEST HS(M) = 3.70 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 54

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.5	0.4	0.4	0.3	0.3	0.4	0.3	0.4	1.0	0.5	0.3	0.5
1957	0.2	0.5	0.6	0.4	0.3	0.4	0.2	0.3	0.4	0.7	0.6	0.6	0.4
1958	0.4	0.3	0.5	0.6	0.5	0.3	0.2	0.3	0.2	0.7	0.5	0.3	0.4
1959	0.3	0.3	0.4	0.4	0.1	0.2	0.4	0.3	0.3	0.7	0.6	0.3	0.4
1960	0.2	0.7	0.4	0.4	0.4	0.8	0.5	0.3	0.4	0.4	0.3	0.2	0.4
1961	0.4	0.5	0.4	0.4	0.4	0.5	0.3	0.3	0.6	0.7	0.6	0.3	0.5
1962	0.3	0.5	1.2	0.9	0.3	0.2	0.2	0.3	0.3	0.3	0.7	0.6	0.5
1963	0.3	0.4	0.4	0.2	0.6	0.4	0.2	0.2	0.7	0.4	0.5	0.2	0.4
1964	0.5	0.4	0.4	0.6	0.6	0.2	0.4	0.3	0.6	0.4	0.3	0.4	0.4
1965	0.5	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3
1966	0.4	0.2	0.4	0.4	0.4	0.5	0.3	0.3	0.5	0.3	0.4	0.3	0.4
1967	0.3	0.4	0.8	0.7	0.4	0.3	0.3	0.5	0.7	0.4	0.2	0.5	0.5
1968	0.3	0.2	0.4	0.4	0.5	0.6	0.3	0.3	0.4	0.3	0.5	0.3	0.4
1969	0.5	0.8	0.9	0.6	0.4	0.3	0.3	0.2	0.4	0.3	0.6	0.4	0.5
1970	0.1	0.6	0.4	0.5	0.4	0.3	0.3	0.2	0.3	0.7	0.5	0.4	0.4
1971	0.3	0.5	0.4	0.3	0.5	0.3	0.3	0.4	0.4	0.9	0.5	0.3	0.4
1972	0.4	0.6	0.6	0.2	0.7	0.5	0.1	0.2	0.5	0.6	0.4	0.5	0.4
1973	0.3	0.7	0.7	0.4	0.5	0.4	0.3	0.3	0.2	0.4	0.3	0.7	0.4
1974	0.4	0.5	0.6	0.4	0.4	0.5	0.3	0.4	0.3	0.2	0.3	0.5	0.4
1975	0.5	0.5	0.5	0.3	0.2	0.4	0.5	0.3	0.3	0.4	0.3	0.6	0.4
MEAN	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.4	0.5	0.4	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 54

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.6	1.9	2.4	2.2	1.0	0.9	1.4	0.9	3.0	2.7	2.0	1.4
1957	1.5	1.5	2.4	2.2	1.4	1.5	0.8	1.8	1.9	3.0	2.0	1.7
1958	2.4	2.2	2.9	2.0	1.4	1.0	0.8	1.2	0.9	2.8	2.3	2.3
1959	2.1	1.9	2.6	2.1	0.7	0.9	1.9	1.2	1.0	2.6	1.7	1.6
1960	1.9	2.9	2.4	1.5	1.5	1.7	2.8	1.0	1.5	2.0	1.5	2.7
1961	1.9	2.8	2.5	2.5	2.4	1.4	1.0	1.2	2.1	1.9	2.5	1.4
1962	1.8	1.4	3.7	2.2	1.1	1.1	1.1	1.2	1.1	1.4	2.9	2.6
1963	1.9	1.9	1.9	1.8	2.2	2.1	1.3	1.5	2.3	2.5	2.2	1.7
1964	3.3	2.6	2.3	2.3	2.0	0.7	1.9	1.5	2.1	1.9	2.4	1.7
1965	2.8	2.6	1.8	1.9	0.9	1.6	1.0	1.3	1.4	2.0	1.3	1.9
1966	3.2	1.4	2.3	2.0	1.1	2.2	1.2	0.9	2.3	1.1	2.3	1.8
1967	1.4	1.6	2.6	1.5	1.5	0.8	1.0	1.1	2.6	1.9	1.3	2.7
1968	2.6	1.5	2.7	1.9	2.6	1.5	0.7	0.7	1.2	1.2	2.7	2.0
1969	2.7	2.0	2.5	1.7	1.6	1.0	1.3	0.8	1.9	1.9	2.9	3.0
1970	1.3	2.3	2.0	2.3	1.4	1.3	0.9	1.1	1.3	2.1	2.6	3.1
1971	2.4	2.4	2.6	2.6	2.0	1.2	1.4	2.1	1.5	2.2	2.6	1.3
1972	1.4	3.5	2.8	1.1	2.0	2.2	0.8	0.9	2.2	2.5	2.7	2.3
1973	1.9	2.7	2.0	2.3	1.9	1.7	1.0	1.3	2.0	3.1	1.7	3.2
1974	2.2	1.9	2.8	1.8	2.1	1.8	0.5	0.8	1.5	1.0	1.4	3.7
1975	2.0	2.2	3.4	2.0	1.1	1.6	2.1	0.8	2.1	1.9	2.3	3.2

LARGEST HS(METRES) FOR STATION 54 = 3.7

STATION 55 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 13.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2426	5400	3612	2114	443	982	343	8	22	.	15350
0.50 - 0.99	.	436	2263	1425	343	167	59	5	5	.	4703
1.00 - 1.49	.	.	13	102	88	3	1	.	.	.	207
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2426	5836	5888	3641	880	1152	403	13	27	0	

AVERAGE HS(M) = 0.35 LARGEST HS(M) = 1.88 ANGLE CLASS % = 20.3

STATION 55 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 13.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	997	1286			3718	8795	4166	215	443	424	20044
0.50 - 0.99	.	840	1674	344	207	2185	1540	234	378	11	7413
1.00 - 1.49	.	.	123	720	388	691	458	47	53	1	2481
1.50 - 1.99	.	.	.	29	195	367	174	41	39	.	845
2.00 - 2.49	.	.	.	.	30	104	68	22	3	.	227
2.50 - 2.99	.	.	.	.	.	6	8	6	.	1	21
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	997	2126	1801	1089	4538	12148	6414	568	916	437	

AVERAGE HS(M) = 0.51 LARGEST HS(M) = 3.20 ANGLE CLASS % = 31.1

STATION 55 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 13.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	511	687			604	2869	2072	942	263	424	8372
0.50 - 0.99	.	670	1238	92	18	821	715	284	302	143	4207
1.00 - 1.49	.	.	150	625	106	164	133	30	78	20	1303
1.50 - 1.99	.	.	.	39	196	114	44	9	15	2	419
2.00 - 2.49	.	.	.	.	30	234	61	7	.	5	337
2.50 - 2.99	.	.	.	.	.	39	82	5	1	.	127
3.00 - 3.49	.	.	.	.	.	.	5	11	3	.	19
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	511	1357	1388	753	954	4241	3036	1277	663	595	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.61 ANGLE CLASS % = 14.8

STATION 55 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 13.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	672	1223	345	80	995	1745	983	126	73	422	6664
0.50 - 0.99	.	319	1423	1021	239	1663	1249	225	328	1127	7594
1.00 - 1.49	.	.	42	614	383	622	559	67	87	352	2756
1.50 - 1.99	.	.	.	17	222	434	248	49	13	147	1130
2.00 - 2.49	.	.	.	.	22	236	171	10	8	44	491
2.50 - 2.99	.	.	.	.	.	37	70	5	3	15	130
3.00 - 3.49	.	.	.	.	.	.	3	3	.	3	9
3.50 - 3.99	.	.	.	.	.	.	.	8	.	1	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	672	1542	1810	1732	1861	4737	3283	523	512	2111	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 3.70 ANGLE CLASS % = 18.8

STATION 55 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 13.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	361	662	882	1343	369	44	.	.	.	.	3661
0.50 - 0.99	.	.	.	41	23	1	.	.	.	.	65
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	361	662	882	1384	392	45	0	0	0	0	

AVERAGE HS(M) = 0.14 LARGEST HS(M) = 0.95 ANGLE CLASS % = 3.7

STATION 55 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 13.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

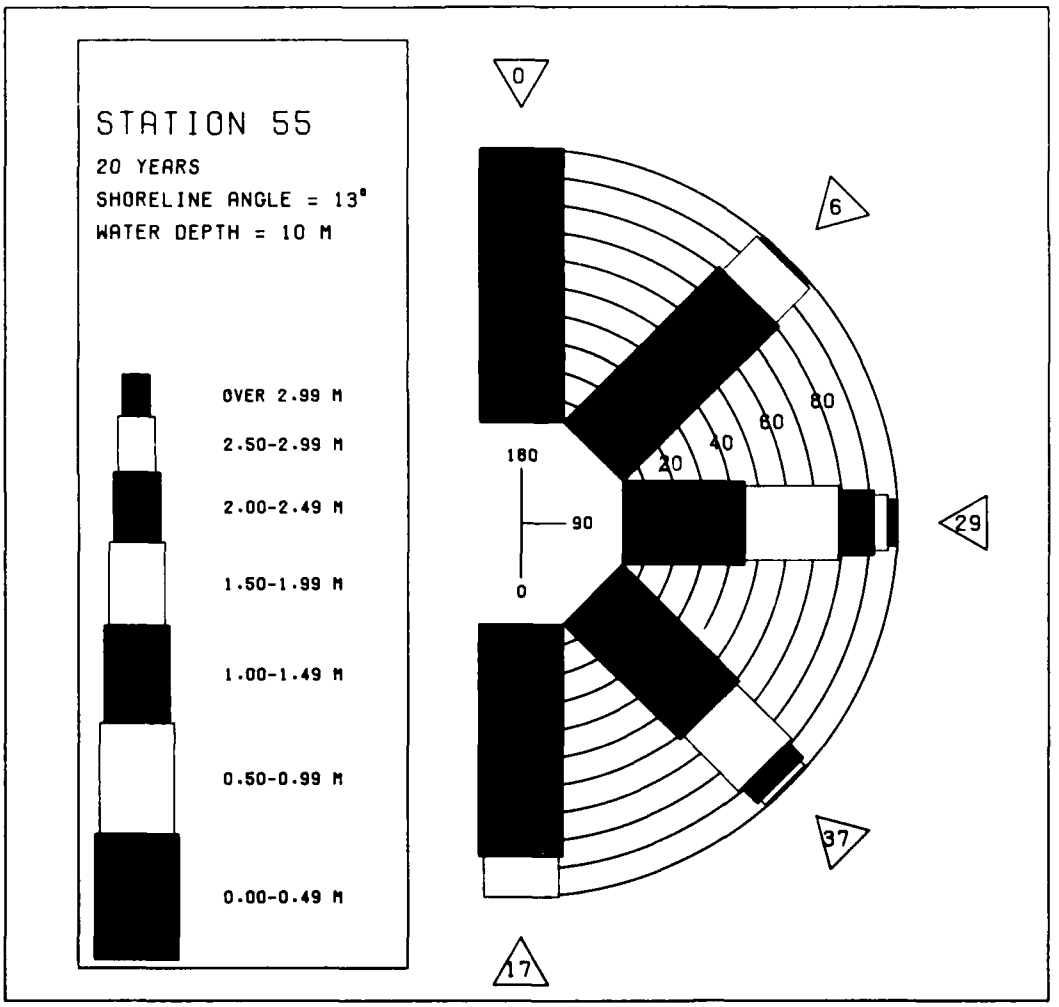
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 55 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 13.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	496	926	484	353	613	1443	756	129	80	127	5407
0.50 - 0.99	.	226	660	292	83	483	348	74	101	128	2395
1.00 - 1.49	.	.	33	206	96	148	115	17	21	37	673
1.50 - 1.99	.	.	.	8	62	91	46	9	6	15	237
2.00 - 2.49	.	.	.	.	8	57	30	3	1	4	103
2.50 - 2.99	.	.	.	.	.	8	16	1	.	1	26
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	496	1152	1177	859	862	2230	1311	235	209	312	

AVE HS(M) = 0.47 LARGEST HS(M) = 3.70 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 55

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.6	0.5	0.5	0.3	0.4	0.5	0.3	0.4	1.0	0.5	0.4	0.5
1957	0.3	0.5	0.6	0.4	0.3	0.4	0.3	0.3	0.4	0.7	0.7	0.7	0.5
1958	0.5	0.3	0.5	0.7	0.5	0.4	0.3	0.4	0.2	0.7	0.5	0.4	0.4
1959	0.3	0.4	0.4	0.5	0.2	0.2	0.4	0.3	0.3	0.8	0.6	0.4	0.4
1960	0.3	0.8	0.4	0.5	0.4	0.8	0.5	0.4	0.4	0.4	0.3	0.2	0.5
1961	0.4	0.5	0.5	0.5	0.5	0.6	0.4	0.4	0.6	0.7	0.6	0.3	0.5
1962	0.4	0.5	1.2	0.9	0.3	0.3	0.3	0.3	0.3	0.4	0.8	0.6	0.5
1963	0.3	0.4	0.5	0.3	0.6	0.5	0.3	0.2	0.7	0.4	0.6	0.3	0.4
1964	0.6	0.4	0.5	0.7	0.6	0.3	0.4	0.3	0.6	0.4	0.4	0.5	0.5
1965	0.5	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4
1966	0.4	0.3	0.4	0.5	0.5	0.6	0.4	0.3	0.6	0.3	0.5	0.4	0.4
1967	0.3	0.5	0.9	0.7	0.4	0.3	0.4	0.6	0.7	0.5	0.3	0.5	0.5
1968	0.4	0.3	0.5	0.5	0.5	0.6	0.4	0.3	0.4	0.3	0.5	0.4	0.4
1969	0.6	0.8	0.9	0.6	0.4	0.3	0.3	0.3	0.4	0.4	0.6	0.5	0.5
1970	0.2	0.7	0.4	0.6	0.4	0.4	0.4	0.3	0.4	0.7	0.6	0.4	0.4
1971	0.3	0.7	0.5	0.4	0.6	0.4	0.4	0.4	0.5	0.9	0.5	0.4	0.5
1972	0.5	0.6	0.7	0.3	0.7	0.5	0.2	0.2	0.5	0.6	0.5	0.6	0.5
1973	0.4	0.8	0.8	0.5	0.5	0.4	0.3	0.3	0.3	0.5	0.4	0.9	0.5
1974	0.5	0.6	0.7	0.6	0.4	0.5	0.4	0.4	0.3	0.2	0.3	0.6	0.5
1975	0.5	0.6	0.6	0.3	0.3	0.5	0.6	0.3	0.3	0.4	0.4	0.6	0.4
MEAN	0.4	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.4	0.5	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 55

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.5	1.9	2.4	2.2	1.0	1.0	1.7	0.9	3.0	2.7	2.0	1.5
1957	1.5	1.5	2.4	2.3	1.4	1.7	0.8	1.8	1.9	3.0	2.0	2.0
1958	2.5	2.3	3.0	2.2	1.4	1.0	0.8	1.4	0.9	2.8	2.9	2.3
1959	2.4	2.0	2.6	2.1	0.8	0.9	2.0	1.2	1.0	2.6	1.9	1.6
1960	1.9	2.9	2.4	1.7	1.6	1.8	2.8	1.0	1.5	1.9	1.5	2.7
1961	1.9	2.8	2.5	2.6	2.4	1.4	1.0	1.2	2.0	1.9	2.6	1.4
1962	2.1	1.4	3.6	2.2	1.1	1.2	1.1	1.2	1.2	1.4	2.9	2.6
1963	2.0	1.9	2.0	1.9	2.4	2.1	1.3	1.5	2.3	2.5	2.2	1.9
1964	3.3	2.6	2.3	2.3	2.0	0.8	1.9	1.6	2.0	1.9	2.4	1.9
1965	2.8	2.6	1.8	2.1	1.0	1.7	1.1	1.4	1.4	2.1	1.4	2.0
1966	3.3	1.5	2.3	2.0	1.2	2.2	1.3	0.9	2.3	1.2	2.3	1.8
1967	1.5	1.6	2.5	1.5	1.4	0.9	1.0	1.1	2.5	1.9	1.3	2.7
1968	2.7	1.6	2.7	2.0	2.6	1.5	0.8	0.8	1.3	1.3	2.7	2.0
1969	2.7	2.0	2.6	1.7	1.9	1.1	1.4	0.9	1.9	1.9	2.9	3.0
1970	1.3	2.3	2.0	2.3	1.4	1.3	1.0	1.1	1.6	2.1	2.6	3.1
1971	2.4	2.4	2.7	2.7	2.0	1.3	1.4	2.2	1.5	2.2	2.7	1.3
1972	1.5	3.5	2.8	1.1	2.0	2.2	0.8	0.9	2.2	2.5	2.7	2.3
1973	2.1	2.9	2.3	2.4	1.9	1.8	1.2	1.4	2.0	3.1	2.0	3.2
1974	2.2	2.2	2.8	1.8	2.1	1.8	0.7	0.8	1.6	1.0	1.4	3.7
1975	2.2	2.2	3.6	2.1	1.1	1.6	2.1	0.8	2.1	1.9	2.5	3.2

LARGEST HS(METRES) FOR STATION 55 = 3.7

STATION 56 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2469	5484	3757	2303	506	716	374	29	39	.	15677
0.50 - 0.99	.	393	2137	1331	350	160	32	8	17	.	4428
1.00 - 1.49	.	.	8	87	112	11	.	.	.	.	218
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2469	5877	5902	3721	975	887	406	37	56	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 2.42 ANGLE CLASS % = 20.3

STATION 56 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	963	1254	.	.	3451	8169	3843	205	424	434	18743
0.50 - 0.99	.	848	1661	325	164	1842	1387	200	333	15	6775
1.00 - 1.49	.	.	123	691	350	607	347	44	54	1	2217
1.50 - 1.99	.	.	.	27	171	349	159	35	18	.	759
2.00 - 2.49	.	.	.	.	25	100	49	13	1	.	188
2.50 - 2.99	.	.	.	.	.	6	11	6	1	1	25
3.00 - 3.49	.	.	.	.	.	.	.	5	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	963	2102	1784	1043	4161	11073	5796	508	831	451	

AVERAGE HS(M) = 0.51 LARGEST HS(M) = 3.13 ANGLE CLASS % = 28.7

STATION 56 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	520	607	.	.	460	2742	2075	927	256	407	7994
0.50 - 0.99	.	612	1141	88	32	725	627	272	302	116	3915
1.00 - 1.49	.	.	147	633	87	142	119	30	63	17	1238
1.50 - 1.99	.	.	.	44	196	109	49	3	15	3	419
2.00 - 2.49	.	.	.	.	30	196	51	3	.	5	285
2.50 - 2.99	.	.	.	.	.	49	83	5	.	.	137
3.00 - 3.49	.	.	.	.	.	.	3	10	3	.	16
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	520	1219	1288	765	805	3963	3007	1251	640	548	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.61 ANGLE CLASS % = 14.0

STATION 56 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	539	831	15	.	922	1858	1069	164	128	446	5972
0.50 - 0.99	.	417	1291	419	77	1557	1226	217	335	1124	6663
1.00 - 1.49	.	.	99	816	314	473	549	100	85	349	2785
1.50 - 1.99	.	.	.	53	338	427	237	46	17	147	1265
2.00 - 2.49	.	.	.	.	49	325	167	13	8	47	609
2.50 - 2.99	.	.	.	.	1	54	77	3	3	13	151
3.00 - 3.49	.	.	.	.	.	1	23	3	.	6	33
3.50 - 3.99	.	.	.	.	.	.	.	10	.	1	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	539	1248	1405	1288	1701	4695	3348	556	576	2133	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.87 ANGLE CLASS % = 17.5

STATION 56 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	687	1374	1531	2070	740	42	.	.	.	.	6444
0.50 - 0.99	.	13	405	843	167	29	10	.	.	.	1467
1.00 - 1.49	.	.	.	99	70	15	1	.	.	.	185
1.50 - 1.99	.	.	.	.	10	10	.	.	.	.	20
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	687	1387	1936	3012	987	96	11	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.80 ANGLE CLASS % = 8.1

STATION 56 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

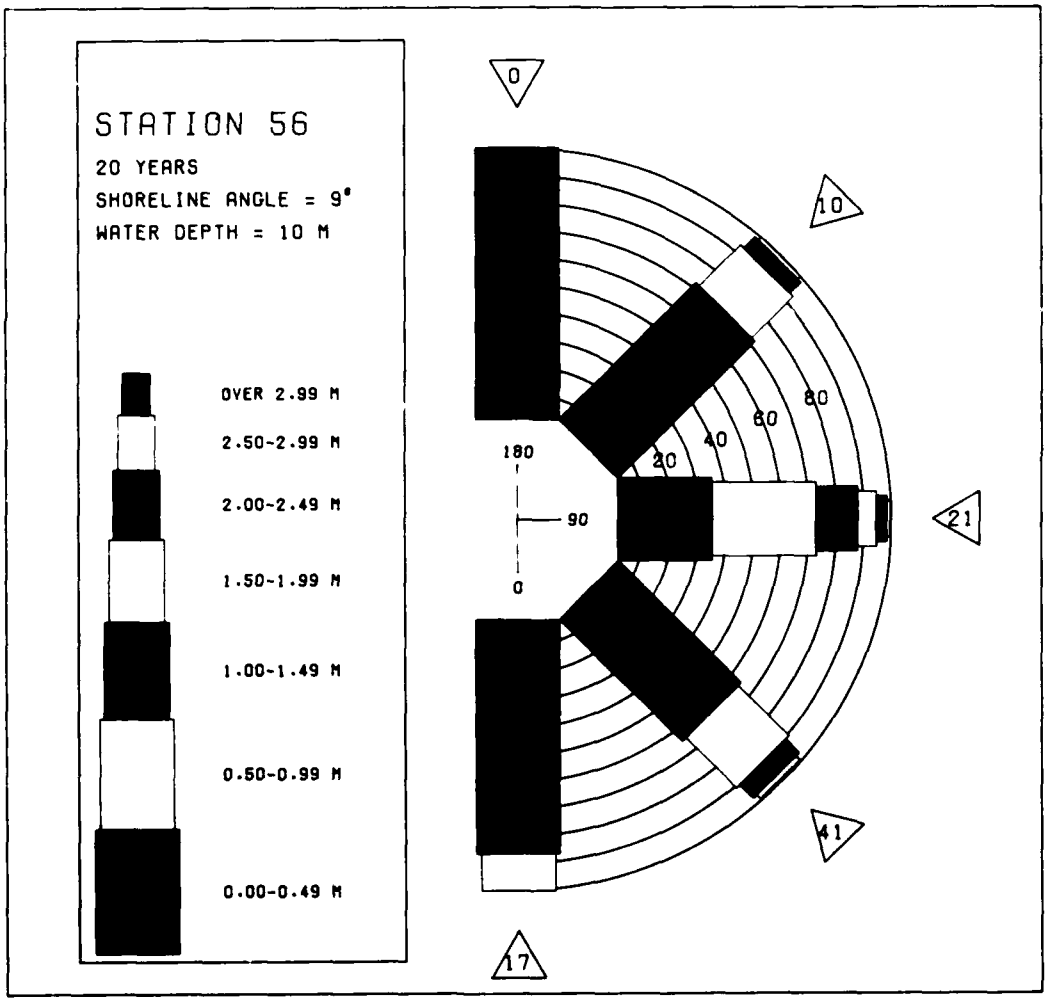
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 56 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	517	955	530	437	608	1353	736	132	84	128	5480
0.50 - 0.99	.	228	663	300	79	431	328	69	98	125	2321
1.00 - 1.49	.	.	37	232	93	125	101	17	20	36	661
1.50 - 1.99	.	.	.	12	72	89	44	8	5	15	245
2.00 - 2.49	.	.	.	.	10	62	26	3	1	5	107
2.50 - 2.99	.	.	.	.	.	11	17	1	.	1	30
3.00 - 3.49	.	.	.	.	.	.	2	1	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	517	1183	1230	981	862	2071	1254	232	208	310	

AVE HS(M) = 0.46 LARGEST HS(M) = 3.87 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 56

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.6	0.5	0.5	0.3	0.3	0.5	0.3	0.5	1.0	0.5	0.3	0.5
1957	0.3	0.5	0.6	0.4	0.3	0.4	0.3	0.3	0.4	0.7	0.6	0.7	0.5
1958	0.5	0.3	0.6	0.7	0.5	0.4	0.3	0.4	0.2	0.7	0.5	0.4	0.4
1959	0.3	0.4	0.4	0.5	0.2	0.2	0.4	0.3	0.3	0.8	0.6	0.4	0.4
1960	0.3	0.7	0.4	0.5	0.4	0.8	0.5	0.4	0.5	0.4	0.3	0.2	0.5
1961	0.4	0.5	0.5	0.5	0.5	0.6	0.4	0.4	0.6	0.7	0.6	0.3	0.5
1962	0.4	0.6	1.2	0.9	0.3	0.3	0.3	0.3	0.3	0.4	0.8	0.6	0.5
1963	0.3	0.4	0.5	0.2	0.6	0.4	0.2	0.2	0.7	0.4	0.6	0.2	0.4
1964	0.5	0.4	0.4	0.6	0.6	0.3	0.4	0.3	0.6	0.4	0.3	0.5	0.5
1965	0.5	0.4	0.4	0.4	0.3	0.5	0.4	0.3	0.4	0.4	0.3	0.3	0.4
1966	0.4	0.3	0.4	0.5	0.4	0.5	0.4	0.3	0.6	0.3	0.5	0.4	0.4
1967	0.3	0.5	0.9	0.7	0.4	0.3	0.4	0.6	0.7	0.5	0.3	0.6	0.5
1968	0.4	0.3	0.5	0.5	0.5	0.6	0.4	0.3	0.4	0.3	0.5	0.4	0.4
1969	0.6	0.9	0.9	0.6	0.4	0.3	0.3	0.3	0.4	0.4	0.6	0.5	0.5
1970	0.2	0.7	0.4	0.6	0.4	0.3	0.3	0.3	0.4	0.7	0.6	0.4	0.4
1971	0.3	0.6	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.9	0.5	0.4	0.5
1972	0.4	0.6	0.7	0.3	0.7	0.5	0.2	0.2	0.5	0.6	0.5	0.6	0.5
1973	0.4	0.8	0.8	0.5	0.5	0.4	0.3	0.3	0.3	0.5	0.4	0.8	0.5
1974	0.4	0.6	0.7	0.5	0.4	0.5	0.4	0.4	0.3	0.2	0.3	0.6	0.5
1975	0.5	0.6	0.6	0.3	0.3	0.5	0.6	0.3	0.3	0.4	0.4	0.6	0.4
MEAN	0.4	0.5	0.6	0.5	0.4	0.4	0.4	0.3	0.5	0.5	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 56

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.6	2.0	2.4	2.2	1.0	1.0	1.4	0.9	3.1	2.7	2.0	1.5
1957	1.7	1.7	2.4	2.3	1.4	1.5	0.8	1.9	1.9	3.0	2.1	1.9
1958	2.6	2.3	3.0	2.2	1.4	1.1	0.8	1.3	0.9	2.9	2.9	2.4
1959	2.2	2.0	2.6	2.2	0.7	1.1	2.0	1.4	1.0	2.6	1.7	1.6
1960	2.2	2.9	2.4	1.6	1.6	1.8	2.8	1.1	1.5	2.0	1.5	2.7
1961	2.0	3.1	2.6	2.7	2.5	1.4	1.0	1.2	2.1	2.0	2.6	1.4
1962	2.1	1.4	3.9	2.2	1.1	1.2	1.1	1.2	1.3	1.4	2.9	2.6
1963	2.0	2.3	2.0	1.8	2.2	2.1	1.3	1.5	2.4	2.5	2.3	1.7
1964	3.5	2.6	2.5	2.4	2.0	0.8	1.9	1.6	2.1	1.9	2.4	1.8
1965	2.8	2.6	1.9	1.9	1.0	2.0	1.1	1.4	1.4	2.1	1.4	2.0
1966	3.3	1.5	2.3	2.1	1.1	2.3	1.3	0.9	2.3	1.2	2.3	1.9
1967	1.5	1.8	2.7	1.5	1.6	0.8	1.0	1.2	2.6	1.9	1.3	2.8
1968	2.6	1.5	2.7	1.9	2.6	1.5	0.8	0.7	1.3	1.2	2.7	2.0
1969	2.8	2.1	2.5	1.7	1.9	1.1	1.4	0.8	1.9	1.9	2.9	3.0
1970	1.6	2.3	2.0	2.3	1.4	1.3	1.0	1.2	1.3	2.1	2.6	3.1
1971	2.4	2.4	2.7	2.8	2.0	1.3	1.4	2.2	1.5	2.2	2.7	1.4
1972	1.5	3.5	2.8	1.1	2.0	2.2	0.8	1.0	2.3	2.7	2.7	2.4
1973	2.0	2.7	2.3	2.3	1.9	1.8	1.0	1.3	2.1	3.2	2.0	3.2
1974	2.2	2.2	3.1	1.8	2.1	1.9	0.6	1.0	1.5	1.0	1.4	3.7
1975	2.2	2.5	3.6	2.0	1.1	1.7	2.2	0.8	2.1	1.9	2.5	3.2

LARGEST HS(METRES) FOR STATION 56 = 3.9

STATION 57 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1971	5203	3969	2345	809	1214	362	20	18	.	15911
0.50 - 0.99	.	456	2215	1475	470	342	121	25	34	.	5138
1.00 - 1.49	.	.	11	118	85	10	1	1	6	.	232
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1971	5659	6195	3938	1369	1566	484	46	58	0	

AVERAGE HS(M) = 0.35 LARGEST HS(M) = 1.72 ANGLE CLASS % = 21.3

STATION 57 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	687	1090	.	.	2433	5915	2989	136	436	354	14040
0.50 - 0.99	.	785	1584	302	181	1668	1459	229	386	22	6616
1.00 - 1.49	.	.	121	730	373	634	289	49	63	1	2260
1.50 - 1.99	.	.	.	20	172	357	171	42	18	.	780
2.00 - 2.49	.	.	.	.	34	104	61	17	11	.	227
2.50 - 2.99	.	.	.	.	.	8	15	8	5	.	36
3.00 - 3.49	.	.	.	.	.	.	1	3	.	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	687	1875	1705	1052	3193	8686	4985	484	919	377	

AVERAGE HS(M) = 0.56 LARGEST HS(M) = 3.18 ANGLE CLASS % = 24.0

STATION 57 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	395	521	.	.	379	1860	1907	1288	181	297	6828
0.50 - 0.99	.	617	1045	68	18	598	515	604	29	56	3550
1.00 - 1.49	.	.	159	513	90	124	90	10	6	.	992
1.50 - 1.99	.	.	.	37	160	111	23	.	.	.	331
2.00 - 2.49	.	.	.	.	29	152	42	6	.	.	229
2.50 - 2.99	.	.	.	.	.	34	56	23	.	.	113
3.00 - 3.49	.	.	.	.	.	.	3	11	1	.	15
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	395	1138	1204	618	676	2879	2636	1943	220	353	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 3.65 ANGLE CLASS % = 12.1

STATION 57 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	467	715			787	1486	1096	227	319	451	5548
0.50 - 0.99	.	585	1442	150	80	1346	1921	699	162	942	7327
1.00 - 1.49	.	.	162	780	212	487	711	135	29	415	2931
1.50 - 1.99	.	.	.	59	359	491	290	100	8	195	1502
2.00 - 2.49	.	.	.	.	63	605	201	30	5	49	953
2.50 - 2.99	.	.	.	.	1	66	183	61	5	18	334
3.00 - 3.49	.	.	.	.	.	.	23	53	11	5	92
3.50 - 3.99	.	.	.	.	.	.	.	6	8	.	14
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	467	1300	1604	989	1502	4481	4425	1311	547	2075	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 3.97 ANGLE CLASS % = 18.7

STATION 57 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	848	1858	1759	1872	1408	1119	75	1	.	.	8940
0.50 - 0.99	.	107	1033	821	533	552	37	.	.	.	3083
1.00 - 1.49	.	.	22	224	333	431	41	1	.	.	1052
1.50 - 1.99	.	.	.	.	116	324	30	.	.	.	470
2.00 - 2.49	.	.	.	.	15	53	22	1	.	.	91
2.50 - 2.99	.	.	.	.	.	.	3	.	.	.	3
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	848	1965	2814	2917	2405	2478	208	3	0	0	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 2.75 ANGLE CLASS % = 13.6

STATION 57 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

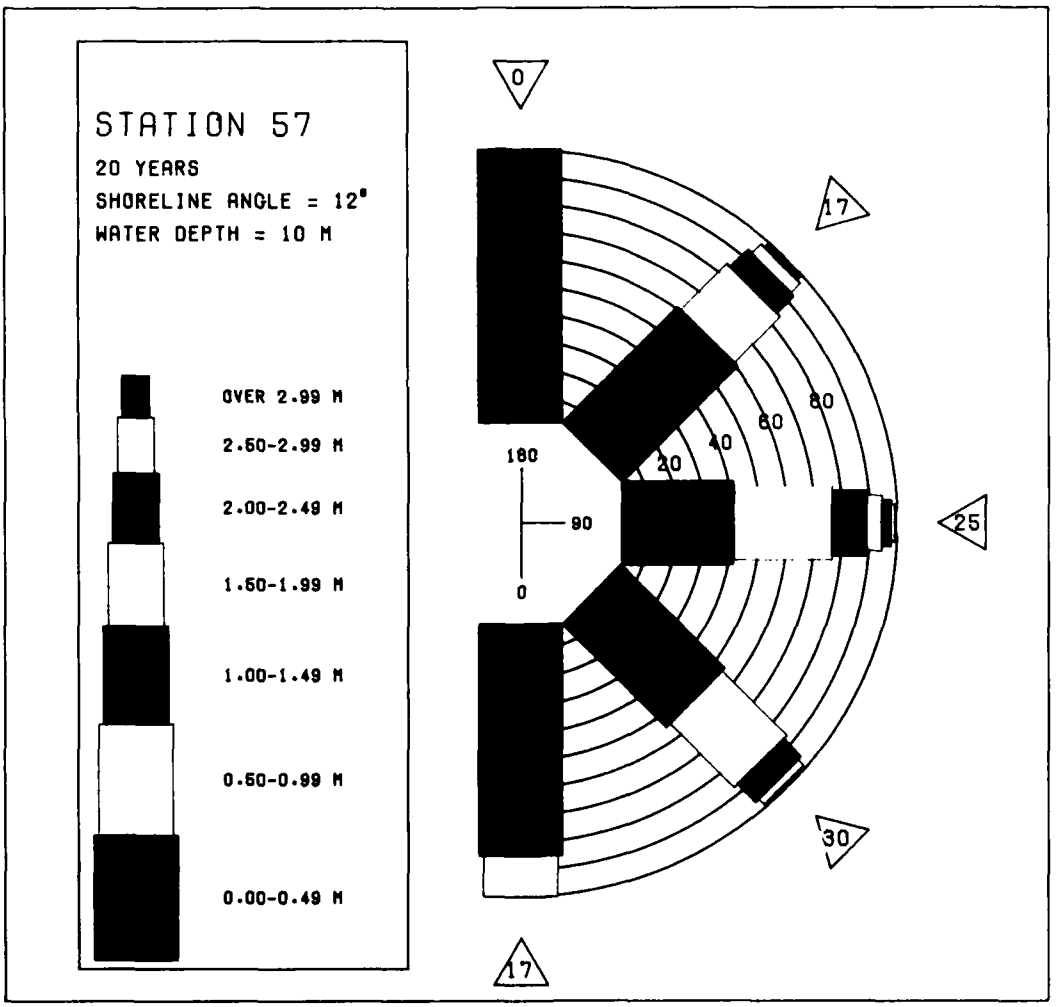
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	15	.	.	.	.	.	.	.	.	.	15
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	15	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 57 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	438	938	572	421	581	1159	643	167	95	110	5124
0.50 - 0.99	.	255	732	281	128	450	405	155	61	102	2569
1.00 - 1.49	.	.	47	236	109	168	113	19	10	41	743
1.50 - 1.99	.	.	.	11	81	128	51	14	2	19	306
2.00 - 2.49	.	.	.	.	14	91	32	5	1	4	147
2.50 - 2.99	.	.	.	.	.	10	25	9	1	1	46
3.00 - 3.49	.	.	.	.	.	.	2	6	1	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	438	1193	1351	949	913	2006	1271	375	172	277	

AVE HS(M) = 0.51 LARGEST HS(M) = 3.97 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 57

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.7	0.5	0.5	0.3	0.4	0.5	0.4	0.6	1.2	0.7	0.4	0.6
1957	0.3	0.7	0.6	0.4	0.3	0.5	0.3	0.4	0.5	0.8	0.6	0.7	0.5
1958	0.4	0.3	0.6	0.7	0.6	0.5	0.3	0.5	0.3	0.9	0.5	0.4	0.5
1959	0.4	0.4	0.4	0.6	0.2	0.2	0.4	0.4	0.4	0.8	0.6	0.4	0.4
1960	0.3	0.7	0.5	0.5	0.5	0.9	0.6	0.5	0.6	0.5	0.4	0.2	0.5
1961	0.4	0.6	0.5	0.5	0.5	0.6	0.4	0.4	0.7	0.8	0.6	0.3	0.5
1962	0.5	0.6	1.4	1.1	0.4	0.4	0.3	0.4	0.4	0.4	0.9	0.7	0.6
1963	0.4	0.5	0.5	0.3	0.6	0.4	0.2	0.2	0.8	0.5	0.6	0.3	0.4
1964	0.6	0.5	0.5	0.7	0.9	0.5	0.5	0.3	0.8	0.5	0.3	0.5	0.5
1965	0.5	0.5	0.3	0.4	0.3	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.4
1966	0.4	0.3	0.4	0.5	0.5	0.6	0.4	0.3	0.6	0.4	0.5	0.4	0.4
1967	0.3	0.6	0.7	0.3	0.4	0.3	0.4	0.6	0.9	0.5	0.3	0.5	0.5
1968	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.3	0.5	0.4	0.5
1969	0.7	0.9	0.9	0.6	0.4	0.4	0.4	0.3	0.5	0.5	0.6	0.5	0.6
1970	0.2	0.8	0.5	0.7	0.5	0.3	0.4	0.3	0.4	0.8	0.9	0.4	0.5
1971	0.3	0.6	0.5	0.4	0.6	0.4	0.4	0.5	0.6	1.0	0.5	0.5	0.5
1972	0.4	0.6	0.7	0.3	0.8	0.6	0.2	0.3	0.6	0.6	0.6	0.6	0.5
1973	0.4	0.8	0.9	0.5	0.6	0.4	0.3	0.3	0.3	0.5	0.4	0.8	0.5
1974	0.5	0.6	0.6	0.6	0.4	0.6	0.4	0.5	0.4	0.2	0.4	0.6	0.5
1975	0.6	0.5	0.6	0.4	0.3	0.5	0.8	0.5	0.4	0.5	0.4	0.7	0.5
MEAN	0.5	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.6	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 57

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.6	2.0	2.4	2.3	1.1	1.1	1.5	1.2	4.0	2.8	2.1	2.0
1957	1.7	2.1	2.7	2.3	1.4	1.5	1.0	1.8	1.9	3.3	2.3	2.2
1958	2.7	2.3	3.1	2.2	1.4	1.1	0.8	1.4	1.2	3.1	2.5	2.5
1959	2.2	2.1	2.4	2.1	0.8	1.1	2.1	1.7	1.1	2.6	1.9	1.7
1960	2.7	2.9	2.6	1.8	1.4	2.0	2.8	1.9	1.6	2.7	1.9	2.7
1961	2.9	3.5	2.7	2.7	2.7	1.7	1.3	1.2	2.5	2.1	2.2	1.7
1962	2.1	2.0	3.9	2.3	1.3	1.7	1.3	1.6	2.3	1.3	3.1	2.6
1963	2.1	2.5	2.1	2.1	2.3	2.4	1.3	1.9	2.5	2.4	2.3	2.0
1964	3.9	2.6	2.6	2.2	2.4	1.0	2.0	1.6	2.7	2.0	2.4	1.7
1965	2.9	2.6	2.0	1.7	1.0	1.9	1.1	1.4	1.5	2.2	1.5	2.0
1966	2.9	1.6	2.3	2.1	1.2	2.3	1.3	1.2	2.5	1.6	2.2	2.5
1967	1.4	2.3	2.5	1.4	2.2	0.9	1.1	1.3	2.7	1.6	1.4	2.9
1968	2.8	1.7	2.7	2.0	3.1	1.5	0.8	0.8	1.4	1.3	2.9	2.0
1969	3.2	2.8	2.5	1.6	1.6	1.1	1.7	1.0	2.2	2.2	3.0	3.0
1970	2.0	2.3	2.1	2.5	1.6	1.5	1.1	2.0	1.3	2.7	2.4	3.0
1971	2.0	2.4	2.7	3.3	2.4	1.5	1.3	2.7	1.7	2.5	2.6	1.9
1972	1.8	3.6	2.7	1.5	2.3	2.3	1.0	2.0	2.4	2.9	2.7	2.5
1973	2.6	2.8	2.3	2.6	2.2	1.8	1.0	1.5	2.1	3.2	2.0	3.6
1974	2.2	2.3	3.3	2.0	2.0	2.2	0.7	1.9	1.7	0.8	1.2	3.8
1975	2.9	2.6	3.3	2.0	1.1	2.4	2.7	0.9	2.2	2.1	2.9	3.3

LARGEST HS(METRES) FOR STATION 57 = 4.0

STATION 58 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1955	5188	3961	2344	770	1101	347	18	17	.	15701
0.50 - 0.99	.	456	2215	1475	470	345	123	25	35	.	5144
1.00 - 1.49	.	.	11	118	85	10	1	1	6	.	232
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1955	5644	6187	3937	1330	1456	471	44	58	0	

AVERAGE HS(M) = 0.35 LARGEST HS(M) = 1.72 ANGLE CLASS % = 21.1

STATION 58 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	687	1088	.	.	2168	5420	2773	109	369	294	12908
0.50 - 0.99	.	785	1584	302	176	1668	1463	241	383	25	6627
1.00 - 1.49	.	.	121	730	373	631	302	49	63	1	2270
1.50 - 1.99	.	.	.	20	172	359	171	42	18	.	782
2.00 - 2.49	.	.	.	.	34	104	61	17	11	.	227
2.50 - 2.99	.	.	.	.	.	8	15	8	5	.	36
3.00 - 3.49	.	.	.	.	.	.	1	3	.	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	687	1873	1705	1052	2923	8190	4786	469	849	320	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.18 ANGLE CLASS % = 22.9

STATION 58 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	371	504	.	.	333	1709	1762	1161	160	265	6265
0.50 - 0.99	.	593	1016	65	11	597	506	633	29	54	3504
1.00 - 1.49	.	.	152	489	87	126	90	17	6	.	967
1.50 - 1.99	.	.	.	37	152	106	23	.	.	.	318
2.00 - 2.49	.	.	.	.	20	142	42	6	.	.	210
2.50 - 2.99	.	.	.	.	.	34	56	23	.	.	113
3.00 - 3.49	.	.	.	.	.	.	3	11	1	.	15
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	371	1097	1168	591	603	2714	2482	1852	199	319	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 3.65 ANGLE CLASS % = 11.4

STATION 58 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	422	569	.	.	682	1305	992	203	270	419	4862
0.50 - 0.99	.	622	1225	75	66	1220	1911	687	150	925	6881
1.00 - 1.49	.	.	193	727	150	468	711	135	42	422	2848
1.50 - 1.99	.	.	.	75	325	314	260	57	6	193	1230
2.00 - 2.49	.	.	.	.	80	566	154	32	6	54	894
2.50 - 2.99	.	.	.	.	1	88	213	47	5	17	371
3.00 - 3.49	.	.	.	.	.	1	32	66	8	6	113
3.50 - 3.99	.	.	.	.	.	.	.	8	10	.	18
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	422	1191	1418	877	1314	3962	4303	1275	498	2038	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 4.03 ANGLE CLASS % = 17.3

STATION 58 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	424	636	8	.	150	164	53	.	.	.	1435
0.50 - 0.99	.	419	1266	487	425	523	39	1	.	.	2760
1.00 - 1.49	.	.	143	713	580	544	30	.	.	.	2010
1.50 - 1.99	.	.	.	25	265	592	49	1	.	.	932
2.00 - 2.49	.	.	.	.	68	373	41	.	.	.	482
2.50 - 2.99	.	.	.	.	.	27	30	3	.	.	60
3.00 - 3.49	.	.	.	.	.	.	5	.	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	424	1055	1417	1225	1288	2223	247	5	0	0	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 3.32 ANGLE CLASS % = 7.9

STATION 58 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

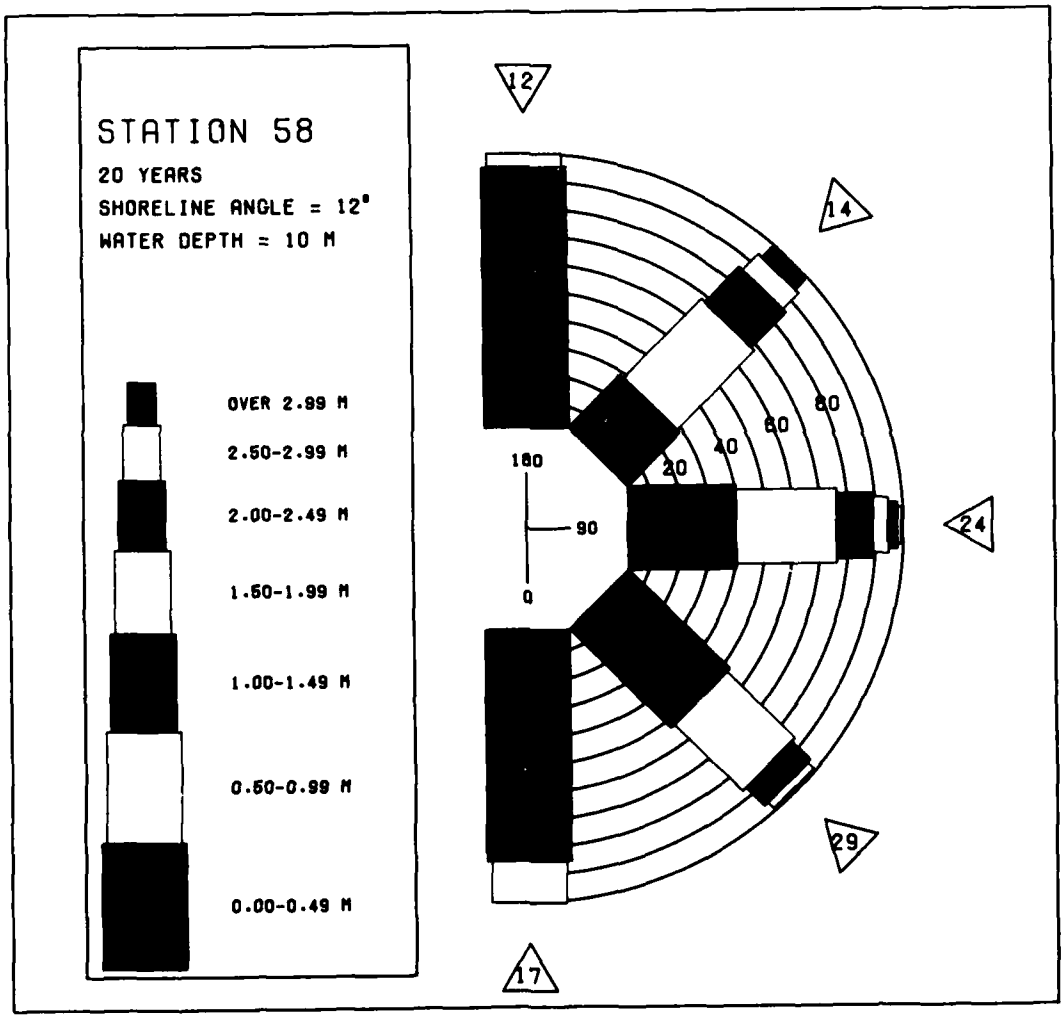
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	877	2171	2414	4426	2111	489	.	.	.	.	12488
0.50 - 0.99	.	94	930	713	527	231	.	.	.	.	2495
1.00 - 1.49	.	.	1	23	78	.	.	.	.	.	102
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	877	2265	3345	5162	2724	720	0	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.68 ANGLE CLASS % = 15.1

STATION 58 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	473	1015	638	677	621	1019	592	149	81	97	5362
0.50 - 0.99	.	297	823	311	147	458	404	158	59	100	2757
1.00 - 1.49	.	.	62	280	135	178	113	20	11	42	841
1.50 - 1.99	.	.	.	15	93	137	83	14	2	19	363
2.00 - 2.49	.	.	.	.	20	118	29	5	1	5	178
2.50 - 2.99	.	.	.	.	.	15	51	6	1	1	74
3.00 - 3.49	.	.	.	.	.	.	4	8	1	.	13
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	473	1312	1523	1283	1016	1925	1226	363	157	264	

AVE HS(M) = 0.55 LARGEST HS(M) = 4.03 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 58

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.2	0.7	0.6	0.5	0.4	0.4	0.5	0.4	0.6	1.2	0.7	0.4	0.6
1957	0.4	0.7	0.6	0.5	0.4	0.5	0.3	0.4	0.5	0.8	0.7	0.7	0.6
1958	0.5	0.4	0.7	0.8	0.6	0.5	0.3	0.5	0.3	0.9	0.6	0.5	0.5
1959	0.4	0.5	0.5	0.6	0.2	0.2	0.4	0.4	0.4	0.8	0.6	0.5	0.5
1960	0.4	0.7	0.6	0.5	0.5	1.0	0.6	0.5	0.6	0.5	0.4	0.3	0.5
1961	0.5	0.7	0.6	0.5	0.5	0.6	0.5	0.5	0.8	0.9	0.7	0.4	0.6
1962	0.6	0.7	1.5	1.1	0.4	0.4	0.3	0.4	0.4	0.4	1.0	0.8	0.7
1963	0.5	0.5	0.6	0.3	0.6	0.4	0.3	0.3	0.9	0.6	0.6	0.3	0.5
1964	0.6	0.5	0.5	0.7	0.9	0.5	0.5	0.4	0.8	0.5	0.4	0.6	0.6
1965	0.6	0.6	0.4	0.4	0.3	0.6	0.4	0.4	0.5	0.5	0.4	0.3	0.5
1966	0.5	0.4	0.5	0.5	0.5	0.6	0.4	0.4	0.6	0.4	0.6	0.5	0.5
1967	0.4	0.6	0.8	0.4	0.5	0.3	0.4	0.7	1.0	0.6	0.3	0.6	0.6
1968	0.5	0.4	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.3	0.6	0.4	0.5
1969	0.8	1.1	1.0	0.7	0.4	0.4	0.4	0.3	0.6	0.6	0.7	0.6	0.6
1970	0.3	0.8	0.6	0.7	0.5	0.4	0.4	0.3	0.4	0.9	0.9	0.5	0.5
1971	0.4	0.6	0.5	0.4	0.6	0.4	0.5	0.5	0.6	1.0	0.6	0.6	0.6
1972	0.5	0.7	0.7	0.4	0.8	0.6	0.3	0.3	0.7	0.7	0.7	0.7	0.6
1973	0.4	0.9	0.9	0.5	0.6	0.4	0.3	0.3	0.3	0.5	0.4	0.9	0.6
1974	0.5	0.7	0.7	0.6	0.5	0.6	0.4	0.5	0.4	0.3	0.5	0.7	0.5
1975	0.7	0.5	0.7	0.5	0.3	0.5	0.8	0.5	0.4	0.5	0.5	0.8	0.6
MEAN	0.5	0.6	0.7	0.6	0.5	0.5	0.4	0.4	0.6	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 58

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.6	2.0	2.4	2.4	1.3	1.3	1.5	1.5	4.0	2.8	2.2	2.0
1957	2.2	2.3	2.8	2.3	1.4	1.5	1.2	1.9	1.9	3.3	2.3	2.2
1958	2.7	2.3	3.1	2.4	1.4	1.2	0.8	1.5	1.2	3.1	2.5	2.7
1959	2.2	2.1	2.4	2.1	0.8	1.2	2.1	2.0	1.1	2.6	2.1	1.8
1960	2.7	3.0	2.6	1.8	1.4	2.0	2.8	2.0	1.7	2.8	1.9	2.7
1961	3.0	3.5	2.7	2.7	2.7	1.7	1.3	1.2	2.8	2.2	2.2	1.7
1962	2.2	2.0	3.9	2.3	1.3	1.7	1.4	1.7	2.5	1.5	3.1	2.8
1963	2.1	2.6	2.1	2.1	2.3	2.4	1.3	1.9	2.6	2.4	2.3	2.1
1964	3.9	2.6	2.6	2.2	2.4	1.0	2.2	2.0	2.8	2.1	2.4	1.7
1965	2.9	2.6	2.0	1.7	1.0	2.1	1.2	1.4	1.5	2.2	1.6	2.0
1966	2.9	1.6	2.3	2.1	1.2	2.4	1.3	1.2	2.5	1.6	2.2	2.5
1967	1.4	2.6	2.7	1.7	2.4	1.2	1.1	1.5	2.7	1.6	1.4	2.9
1968	2.8	2.0	2.7	2.0	3.1	1.5	0.8	1.0	1.4	1.3	2.9	2.0
1969	3.3	2.8	2.8	1.7	1.6	1.2	1.9	1.2	2.2	2.3	3.0	3.0
1970	2.2	2.3	2.3	2.5	1.6	1.5	1.1	2.2	1.3	2.8	2.5	3.0
1971	2.2	2.4	2.7	3.3	2.4	1.5	1.3	2.7	1.7	2.7	2.6	2.2
1972	2.2	3.6	2.7	1.8	2.3	2.4	1.4	2.0	2.5	2.9	2.7	2.5
1973	2.6	2.8	2.3	2.6	2.2	1.8	1.0	1.5	2.1	3.2	2.0	3.6
1974	2.2	2.6	3.5	2.0	2.0	2.3	0.7	2.0	1.7	1.0	1.6	3.8
1975	2.9	2.6	3.3	2.0	1.1	2.6	3.0	0.9	2.2	2.1	3.0	3.3

LARGEST HS(METRES) FOR STATION 58 = 4.0

STATION 59 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1498	4144	2861	1906	545	278	13	.	1	.	11245
0.50 - 0.99	.	556	2852	1805	402	193	23	.	.	.	5832
1.00 - 1.49	.	.	25	179	104	20	.	.	.	.	326
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1498	4700	5738	3890	1059	491	36	0	1	0	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 1.68 ANGLE CLASS % = 17.4

STATION 59 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	634	1095	.	.	2770	7813	3264	220	92	1	15889
0.50 - 0.99	.	1083	2046	443	309	4264	3323	325	94	.	11887
1.00 - 1.49	.	.	169	953	533	1151	677	92	90	.	3665
1.50 - 1.99	.	.	.	34	251	569	349	54	32	.	1289
2.00 - 2.49	.	.	.	.	30	162	148	61	10	1	412
2.50 - 2.99	.	.	.	.	.	20	23	13	3	.	59
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	634	2178	2215	1430	3893	13979	7984	766	321	2	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.07 ANGLE CLASS % = 33.4

STATION 59 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	422	537	.	.	422	1606	1493	1031	290	528	6329
0.50 - 0.99	.	624	934	56	26	658	527	771	480	167	4246
1.00 - 1.49	.	.	124	513	78	114	65	17	232	.	1173
1.50 - 1.99	.	.	.	35	150	124	30	.	15	.	354
2.00 - 2.49	.	.	.	.	35	142	47	6	20	1	251
2.50 - 2.99	.	.	.	.	.	27	66	17	11	.	121
3.00 - 3.49	.	.	.	.	.	.	11	20	3	.	34
3.50 - 3.99	.	.	.	.	.	.	.	.	5	.	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	422	1161	1058	604	714	2671	2269	1862	1056	696	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.60 ANGLE CLASS % = 12.5

STATION 59 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	431	585			287	689	759	207	260	422	3640
0.50 - 0.99	.	735	1302	49	34	708	1608	550	142	908	6076
1.00 - 1.49	.	.	217	715	123	256	530	130	20	369	2360
1.50 - 1.99	.	.	.	66	299	213	195	32	5	152	1022
2.00 - 2.49	.	.	.	.	59	333	95	26	6	41	563
2.50 - 2.99	.	.	.	.	.	42	114	59	6	15	236
3.00 - 3.49	.	.	.	.	.	.	6	27	11	1	45
3.50 - 3.99	.	.	.	.	.	.	.	6	5	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	431	1320	1519	830	802	2241	3307	1140	455	1908	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 3.78 ANGLE CLASS % = 14.0

STATION 59 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	350	535	5		494	821	338	39	.	.	2582
0.50 - 0.99	.	511	1331	390	162	953	560	56	10	.	3773
1.00 - 1.49	.	.	135	708	485	691	148	1	1	.	2169
1.50 - 1.99	.	.	.	30	254	701	119	1	.	.	1105
2.00 - 2.49	.	.	.	.	23	232	155	11	.	.	421
2.50 - 2.99	.	.	.	.	1	10	25	18	1	.	55
3.00 - 3.49	.	.	.	.	.	.	.	3	1	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	350	1046	1471	1128	1419	3408	1045	129	13	0	

AVERAGE HS(M) = 0.92 LARGEST HS(M) = 3.20 ANGLE CLASS % = 10.0

STATION 59 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

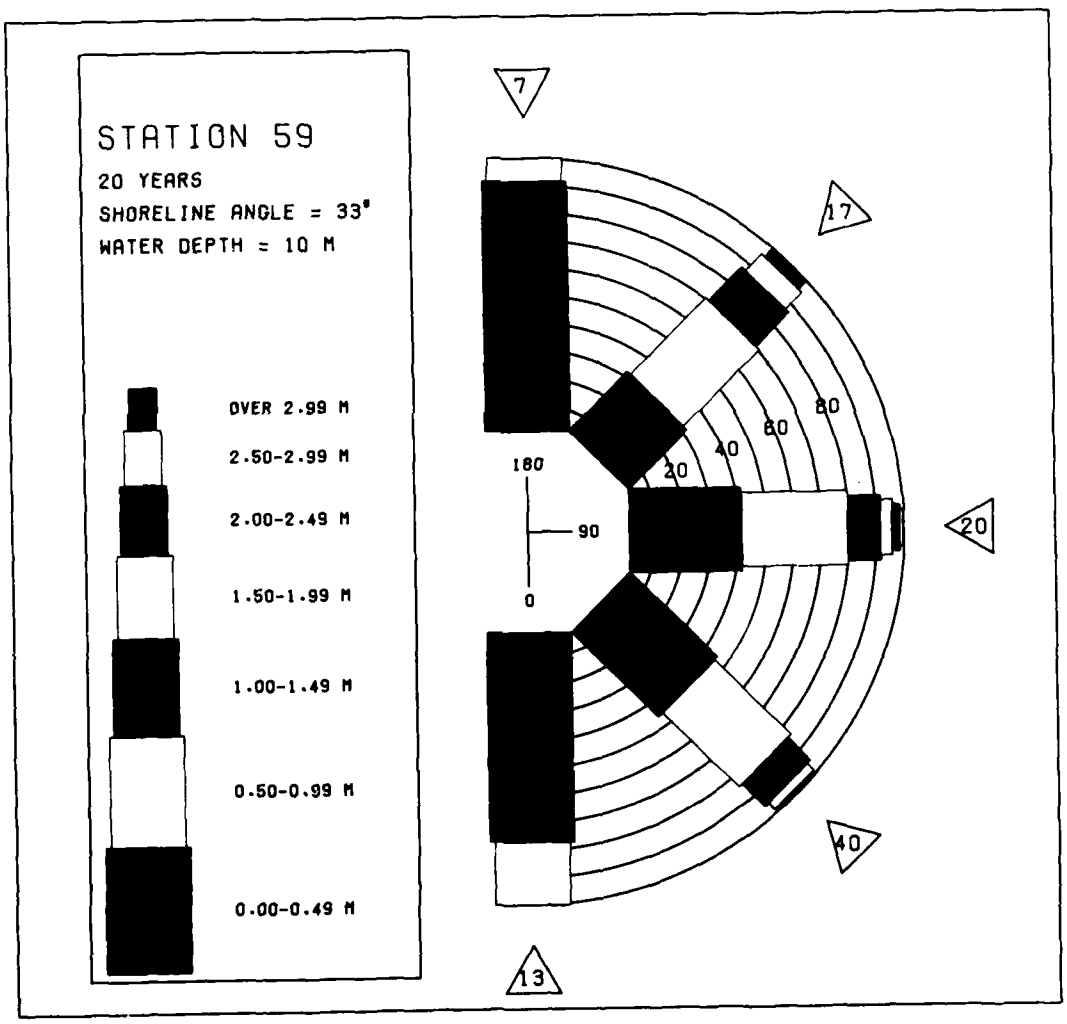
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	602	1396	1433	1690	1466	1081	.	.	.	.	7669
0.50 - 0.99	.	73	797	631	429	207	.	.	.	.	2137
1.00 - 1.49	.	.	.	20	49	.	.	.	.	.	69
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	602	1469	2230	2341	1945	1288	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.66 ANGLE CLASS % = 9.9

STATION 59 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 33.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	394	829	430	359	598	1229	587	149	64	95	4734
0.50 - 0.99	.	358	926	337	136	698	574	174	72	107	3382
1.00 - 1.49	.	.	67	309	137	223	165	24	34	36	995
1.50 - 1.99	.	.	.	16	96	161	69	14	5	15	376
2.00 - 2.49	.	.	.	.	15	87	44	10	3	4	163
2.50 - 2.99	.	.	.	.	.	10	23	10	2	1	46
3.00 - 3.49	.	.	.	.	.	.	1	5	1	.	7
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	394	1187	1423	1021	982	2408	1463	386	182	258	

AVE HS(M) = 0.61 LARGEST HS(M) = 3.78 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 59

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.9	0.6	0.7	0.5	0.5	0.7	0.5	0.6	1.1	0.7	0.5	0.7
1957	0.4	0.7	0.6	0.6	0.4	0.6	0.5	0.5	0.6	0.8	0.8	0.9	0.6
1958	0.5	0.4	0.6	0.8	0.6	0.6	0.5	0.6	0.4	0.9	0.6	0.5	0.6
1959	0.5	0.6	0.6	0.7	0.3	0.3	0.5	0.5	0.4	0.9	0.7	0.5	0.5
1960	0.4	0.8	0.5	0.7	0.6	0.9	0.6	0.6	0.6	0.5	0.5	0.3	0.6
1961	0.5	0.7	0.6	0.7	0.7	0.8	0.6	0.6	0.8	0.8	0.6	0.5	0.7
1962	0.6	0.7	1.3	1.1	0.4	0.4	0.5	0.5	0.4	0.5	1.0	0.8	0.7
1963	0.5	0.6	0.7	0.4	0.7	0.5	0.4	0.4	0.8	0.5	0.8	0.4	0.6
1964	0.7	0.6	0.7	0.8	0.9	0.5	0.6	0.4	0.8	0.5	0.5	0.7	0.6
1965	0.6	0.7	0.5	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.5
1966	0.5	0.4	0.6	0.6	0.6	0.7	0.5	0.5	0.7	0.5	0.6	0.5	0.6
1967	0.5	0.7	0.9	0.5	0.6	0.4	0.6	0.8	0.9	0.6	0.4	0.7	0.6
1968	0.5	0.4	0.6	0.6	0.6	0.7	0.5	0.5	0.5	0.4	0.6	0.5	0.5
1969	0.8	1.0	0.9	0.7	0.5	0.5	0.4	0.4	0.6	0.6	0.7	0.6	0.6
1970	0.3	1.0	0.6	0.8	0.6	0.5	0.5	0.4	0.5	0.8	0.9	0.5	0.6
1971	0.5	0.8	0.6	0.6	0.8	0.5	0.6	0.6	0.6	1.0	0.6	0.6	0.6
1972	0.7	0.8	0.9	0.5	0.9	0.7	0.4	0.4	0.6	0.7	0.7	0.7	0.7
1973	0.6	0.8	0.9	0.7	0.7	0.6	0.4	0.4	0.4	0.6	0.6	1.1	0.6
1974	0.6	0.8	0.8	0.9	0.5	0.6	0.5	0.5	0.4	0.3	0.5	0.7	0.6
1975	0.7	0.6	0.7	0.5	0.3	0.6	0.8	0.6	0.5	0.5	0.6	0.8	0.6
MEAN	0.6	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 59

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.4	2.2	2.3	2.9	1.3	1.4	1.9	1.1	3.5	2.7	2.0	2.0
1957	1.9	1.9	2.4	2.6	1.5	2.0	1.1	1.8	1.9	3.2	2.2	2.3
1958	2.7	2.4	2.9	2.3	1.4	1.3	1.2	1.9	1.5	3.0	2.7	2.4
1959	2.9	2.1	2.7	2.2	1.0	1.1	2.4	1.6	1.1	2.7	2.2	1.8
1960	2.4	3.1	2.6	2.0	1.5	1.9	2.8	1.9	1.7	2.5	1.8	2.5
1961	2.6	3.3	2.6	2.7	2.5	1.9	1.4	1.3	2.3	2.0	2.3	1.9
1962	2.3	2.1	3.3	2.6	1.3	1.8	1.3	1.5	2.2	1.8	3.0	2.7
1963	2.3	2.4	2.3	2.3	2.7	2.3	1.5	2.1	2.3	2.4	2.3	2.0
1964	3.7	2.6	2.4	2.1	2.1	1.0	1.9	1.6	2.4	2.0	2.4	2.1
1965	2.9	2.7	2.0	2.1	1.0	1.8	1.3	1.5	1.4	2.4	1.7	2.0
1966	3.0	1.7	2.3	2.1	1.3	2.6	1.6	1.7	2.4	1.7	2.3	2.3
1967	1.8	2.2	2.2	1.8	2.1	1.0	1.3	1.4	2.6	1.8	1.4	2.8
1968	2.8	1.8	2.7	1.9	2.9	1.5	0.9	0.9	1.3	1.6	2.9	2.5
1969	3.0	2.6	2.8	1.8	2.1	1.3	1.6	1.2	1.9	2.1	3.0	3.1
1970	1.9	3.0	2.1	2.7	1.6	1.9	1.4	1.9	1.8	2.5	2.5	3.2
1971	2.2	2.7	3.0	3.3	2.3	1.5	1.2	3.1	1.6	2.4	2.7	1.8
1972	1.9	3.6	2.8	1.6	2.3	2.2	1.1	2.0	2.2	3.0	2.7	2.4
1973	2.6	3.1	2.6	2.7	2.2	1.9	1.3	1.8	2.1	3.2	2.6	3.6
1974	2.3	2.6	3.2	2.1	2.3	2.1	1.0	1.8	1.9	1.4	1.9	3.8
1975	2.5	2.6	3.5	2.4	1.0	2.3	2.5	0.9	2.2	2.1	2.6	3.1

LARGEST HS(METRES) FOR STATION 59 = 3.8

STATION 60 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1480	4515	3027	1671	485	251	8	.	.	.	11437
0.50 - 0.99	.	539	3124	1783	453	184	25	.	.	.	6108
1.00 - 1.49	.	.	29	169	174	25	1	.	.	.	398
1.50 - 1.99	.	.	.	.	3	1	.	.	.	.	4
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1480	5054	6180	3623	1115	461	34	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.60 ANGLE CLASS % = 18.0

STATION 60 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	641	1221	.	.	3092	7896	3025	188	114	.	16177
0.50 - 0.99	.	1062	2200	549	386	3809	2407	111	66	.	10590
1.00 - 1.49	.	.	201	970	552	1189	641	37	35	.	3625
1.50 - 1.99	.	.	.	27	272	658	328	37	20	.	1342
2.00 - 2.49	.	.	.	.	47	143	155	34	6	.	385
2.50 - 2.99	.	.	.	.	.	10	20	22	5	.	57
3.00 - 3.49	.	.	.	.	.	.	.	1	1	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	641	2283	2401	1546	4349	13705	6576	430	247	0	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 3.05 ANGLE CLASS % = 32.2

STATION 60 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	354	521	.	.	412	1086	569	169	140	1451	4702
0.50 - 0.99	.	569	930	47	32	299	54	61	771	410	3173
1.00 - 1.49	.	.	97	455	61	94	42	23	521	155	1448
1.50 - 1.99	.	.	1	30	164	95	27	.	22	18	357
2.00 - 2.49	.	.	.	.	22	147	39	6	8	11	233
2.50 - 2.99	.	.	.	.	.	17	47	25	10	1	100
3.00 - 3.49	.	.	.	.	.	.	5	15	8	1	29
3.50 - 3.99	.	.	.	.	.	.	.	3	10	.	13
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	354	1090	1028	532	691	1738	783	302	1490	2047	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 3.94 ANGLE CLASS % = 10.1

STATION 60 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	364	511			366	983	773	299	682	497	4475
0.50 - 0.99	.	631	1168	54	27	788	1261	405	727	1599	6680
1.00 - 1.49	.	.	210	621	62	201	561	111	602	1351	3749
1.50 - 1.99	.	.	.	53	248	239	169	148	236	367	1463
2.00 - 2.49	.	.	.	.	56	321	131	27	82	111	728
2.50 - 2.99	.	.	.	.	.	58	114	54	37	44	307
3.00 - 3.49	.	.	.	.	.	.	6	37	27	25	95
3.50 - 3.99	.	.	.	.	.	.	.	1	15	25	41
4.00 - 4.49	.	.	.	.	.	.	.	.	.	6	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	364	1142	1378	728	789	2590	3035	1082	2411	4025	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 4.45 ANGLE CLASS % = 17.6

STATION 60 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	301	657	5	.	424	1096	453	54	17	.	3007
0.50 - 0.99	.	429	1261	496	100	954	496	111	5	.	3852
1.00 - 1.49	.	.	104	732	446	441	386	24	3	.	2136
1.50 - 1.99	.	.	.	29	200	520	248	13	1	.	1011
2.00 - 2.49	.	.	.	.	34	241	179	27	1	.	482
2.50 - 2.99	.	.	.	.	.	8	42	42	1	.	93
3.00 - 3.49	.	.	.	.	.	.	1	1	.	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	301	1086	1370	1257	1204	3260	1805	271	28	0	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.08 ANGLE CLASS % = 10.6

STATION 60 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

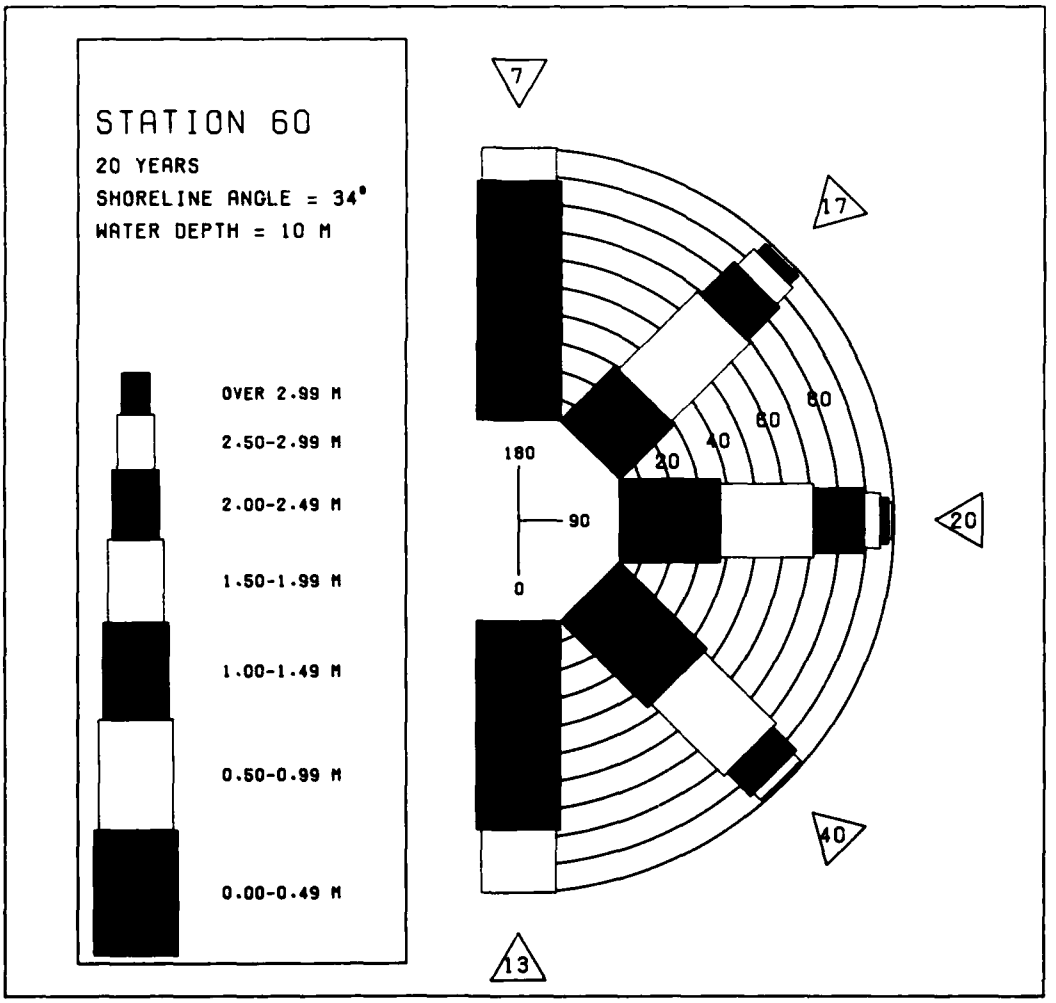
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	501	1488	1521	2363	799	44	.	.	.	.	6716
0.50 - 0.99	.	75	908	1177	160	13	.	.	.	.	2333
1.00 - 1.49	.	.	8	92	30	.	.	.	.	.	130
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	501	1563	2437	3632	990	57	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.71 ANGLE CLASS % = 9.2

STATION 60 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	364	891	455	403	558	1136	483	71	95	194	4650
0.50 - 0.99	.	330	959	410	116	605	426	68	157	201	3272
1.00 - 1.49	.	.	65	304	135	195	163	19	116	150	1147
1.50 - 1.99	.	.	.	14	88	151	77	20	28	38	416
2.00 - 2.49	.	.	.	.	16	85	50	9	9	12	181
2.50 - 2.99	.	.	.	.	.	9	22	14	5	4	54
3.00 - 3.49	.	.	.	.	.	.	1	5	3	2	11
3.50 - 3.99	.	.	.	.	.	.	.	.	2	2	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	364	1221	1479	1131	913	2181	1222	206	415	603	

AVE HS(M) = 0.64 LARGEST HS(M) = 4.45 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 60

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	0.9	0.6	0.7	0.5	0.5	0.8	0.6	0.6	1.2	0.9	0.5	0.8
1957	0.4	0.8	0.6	0.6	0.4	0.6	0.4	0.5	0.6	0.7	0.7	0.8	0.6
1958	0.5	0.4	0.7	0.8	0.6	0.4	0.5	0.6	0.4	0.9	0.6	0.6	0.6
1959	0.6	0.5	0.7	0.7	0.4	0.3	0.5	0.5	0.4	0.8	0.7	0.5	0.5
1960	0.4	0.8	0.6	0.8	0.6	1.0	0.6	0.6	0.6	0.6	0.5	0.4	0.6
1961	0.5	0.8	0.6	0.7	0.6	0.7	0.6	0.5	0.8	0.8	0.6	0.5	0.6
1962	0.7	0.6	1.6	1.4	0.5	0.5	0.5	0.5	0.4	0.5	1.0	0.9	0.7
1963	0.5	0.6	0.7	0.4	0.6	0.5	0.4	0.4	0.9	0.6	0.6	0.4	0.6
1964	0.8	0.6	0.7	0.8	0.9	0.6	0.7	0.5	0.9	0.5	0.5	0.8	0.7
1965	0.6	0.7	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.4	0.5
1966	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.9	0.7	0.4	0.6	0.5	0.6
1967	0.5	0.7	0.9	0.5	0.6	0.4	0.6	0.7	1.0	0.7	0.4	0.7	0.6
1968	0.4	0.4	0.6	0.5	0.6	0.4	0.4	0.4	0.3	0.3	0.6	0.5	0.5
1969	0.8	1.2	1.1	0.8	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7
1970	0.3	1.1	0.7	0.8	0.5	0.5	0.5	0.4	0.4	0.8	1.0	0.6	0.6
1971	0.5	0.8	0.6	0.6	0.7	0.4	0.6	0.6	0.7	1.1	0.7	0.6	0.6
1972	0.6	0.8	0.8	0.6	0.9	0.7	0.4	0.5	0.7	0.7	0.7	0.7	0.7
1973	0.6	1.1	1.0	0.7	0.7	0.6	0.4	0.3	0.4	0.6	0.5	1.1	0.7
1974	0.6	0.8	0.8	0.9	0.5	0.6	0.4	0.5	0.4	0.3	0.5	0.6	0.6
1975	0.8	0.7	0.7	0.5	0.3	0.4	1.5	1.3	1.1	1.0	0.8	1.0	0.9
MEAN	0.6	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 60

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	2.3	2.6	3.4	1.2	1.8	1.9	1.0	3.8	2.9	2.3	1.7
1957	1.3	2.1	2.7	2.4	1.4	1.6	1.0	2.0	1.9	3.3	2.1	2.4
1958	2.7	2.3	3.0	2.3	1.7	1.5	1.3	1.9	1.3	3.3	2.7	2.7
1959	2.7	1.9	2.5	2.3	1.2	1.0	1.7	1.5	1.3	2.8	2.1	1.7
1960	2.6	3.0	2.9	2.3	1.4	1.9	2.4	1.9	2.0	3.0	1.9	2.5
1961	2.4	3.5	2.5	2.7	2.6	1.8	1.2	1.4	2.9	2.5	2.0	2.1
1962	2.0	1.5	3.9	2.7	1.5	1.9	1.1	1.4	1.7	1.3	3.3	3.1
1963	1.9	2.4	2.2	2.4	2.4	2.3	1.5	2.0	2.5	2.6	2.5	1.9
1964	3.7	2.5	2.4	2.2	2.1	1.2	2.4	1.4	2.5	2.1	2.4	2.1
1965	2.6	2.9	2.3	2.0	1.0	1.9	1.3	1.3	1.6	2.5	1.5	2.0
1966	3.0	2.0	2.1	2.1	1.3	2.9	1.7	1.7	2.6	1.9	2.3	2.4
1967	2.1	2.0	2.0	1.7	2.0	1.1	1.5	1.8	2.8	1.8	1.5	3.0
1968	2.8	2.2	2.6	1.9	2.7	1.0	0.7	0.8	1.4	1.4	3.2	3.0
1969	3.1	3.2	3.5	1.9	2.1	1.3	1.7	1.2	1.8	2.3	3.1	2.9
1970	1.6	3.4	2.1	2.7	1.7	1.7	1.3	1.8	1.4	2.6	2.6	2.7
1971	2.1	2.7	2.8	3.0	2.1	1.3	1.5	3.2	2.3	2.3	2.5	1.5
1972	1.9	3.6	2.5	1.8	2.3	2.2	1.2	1.4	2.2	2.9	2.4	2.4
1973	2.7	3.2	2.6	2.9	2.0	1.9	1.2	1.8	2.4	3.3	3.1	3.6
1974	2.2	2.6	3.1	2.3	2.0	2.1	1.0	1.3	1.9	1.2	1.7	3.8
1975	2.5	2.7	3.9	2.5	1.0	2.0	3.9	1.5	2.2	2.1	3.1	3.6

LARGEST HS(METRES) FOR STATION 60 = 4.5

STATION 61 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1421	3877	2587	1682	580	148	11	.	.	.	10306
0.50 - 0.99	.	629	3292	1627	227	58	.	.	.	.	6033
1.00 - 1.49	.	.	44	282	99	17	.	.	.	.	442
1.50 - 1.99	.	.	.	1	1	.	.	.	.	.	2
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1421	4506	5923	3792	907	223	11	0	0	0	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 1.57 ANGLE CLASS % = 16.8

STATION 61 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	826	1663	.	.	2048	3877	1317	119	.	.	9850
0.50 - 0.99	.	1471	3040	718	236	2823	703	20	.	.	9011
1.00 - 1.49	.	.	237	1442	768	773	347	5	.	.	3572
1.50 - 1.99	.	.	.	61	347	593	119	1	.	.	1121
2.00 - 2.49	.	.	.	.	65	251	92	3	.	.	411
2.50 - 2.99	.	.	.	.	.	10	30	20	.	.	60
3.00 - 3.49	.	.	.	.	.	.	.	1	1	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	826	3134	3277	2221	3464	8327	2608	169	1	0	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 3.32 ANGLE CLASS % = 24.0

STATION 61 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	383	580	.	.	1059	3762	1124	65	184	1009	8166
0.50 - 0.99	.	653	1117	49	207	1870	2149	118	547	366	7076
1.00 - 1.49	.	.	169	573	92	747	463	59	876	160	3139
1.50 - 1.99	.	.	.	34	201	326	294	25	65	22	967
2.00 - 2.49	.	.	.	.	53	249	171	25	13	13	524
2.50 - 2.99	.	.	.	.	.	44	92	42	13	1	192
3.00 - 3.49	.	.	.	.	.	.	8	23	17	1	49
3.50 - 3.99	.	.	.	.	.	.	.	3	8	1	12
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	383	1233	1286	656	1612	6998	4301	360	1724	1573	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 4.13 ANGLE CLASS % = 20.2

STATION 61 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	453	634			362	1131	583	410	535	937	5045
0.50 - 0.99	.	751	1255	83	15	231	82	278	422	1694	5011
1.00 - 1.49	.	.	162	573	85	66	26	58	583	1026	2582
1.50 - 1.99	.	.	.	44	208	111	25	30	83	198	699
2.00 - 2.49	.	.	.	3	34	189	53	6	13	53	351
2.50 - 2.99	.	.	.	.	.	29	61	35	8	41	174
3.00 - 3.49	.	.	.	.	.	.	5	11	10	15	41
3.50 - 3.99	.	.	.	.	.	.	.	3	6	1	10
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	453	1385	1417	703	704	1757	838	831	1660	4165	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.65 ANGLE CLASS % = 13.9

STATION 61 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	335	657	1		627	1974	1398	119	260	32	5403
0.50 - 0.99	.	460	1305	422	160	1139	1534	219	162	10	5411
1.00 - 1.49	.	.	130	626	400	597	621	107	47	8	2536
1.50 - 1.99	.	.	.	13	157	523	277	66	44	8	1090
2.00 - 2.49	.	.	.	.	27	126	128	65	25	.	371
2.50 - 2.99	.	.	.	.	.	5	8	15	13	.	41
3.00 - 3.49	.	.	.	.	.	.	.	.	3	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	335	1117	1436	1061	1371	4364	3966	593	554	58	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 3.07 ANGLE CLASS % = 14.9

STATION 61 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

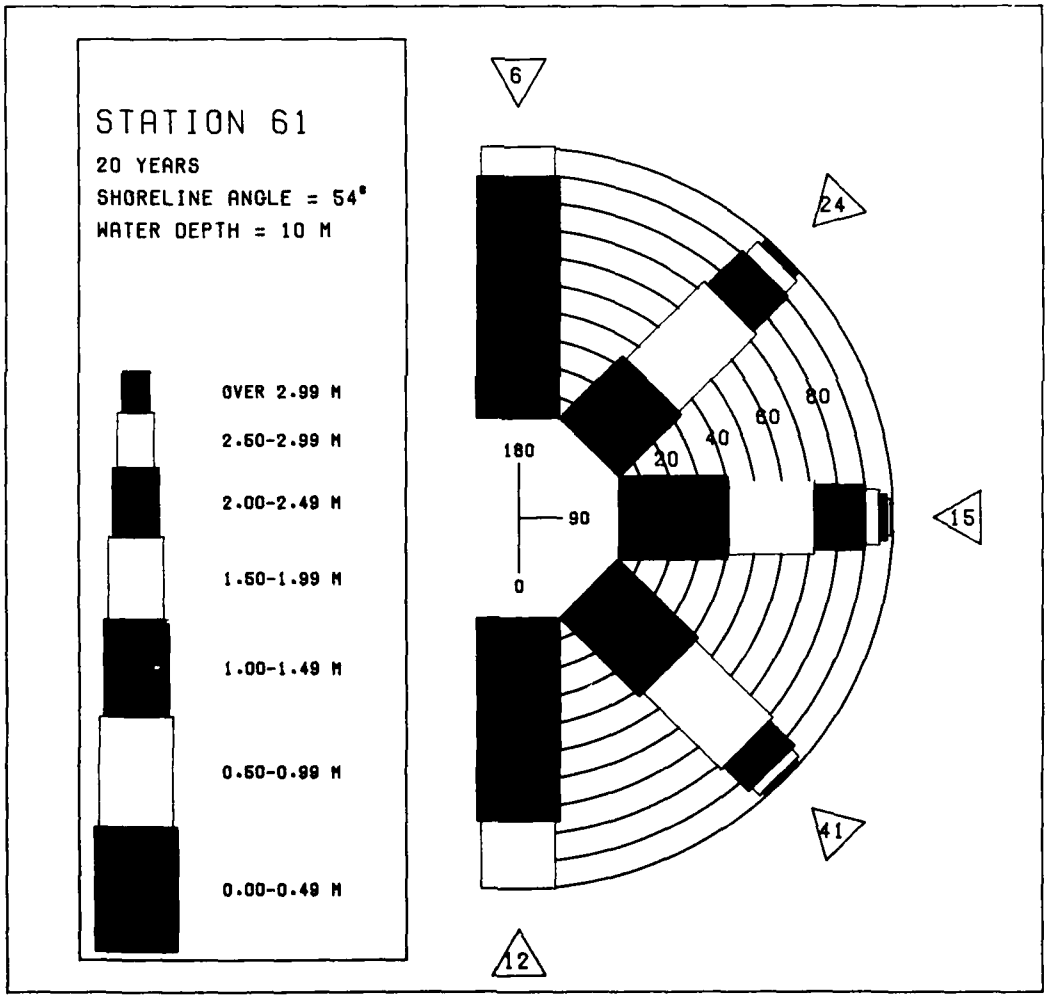
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	475	1428	1435	2044	602	51	.	.	.	.	6035
0.50 - 0.99	.	68	831	843	225	51	.	.	.	.	2018
1.00 - 1.49	.	.	3	25	27	.	.	.	.	.	55
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	475	1496	2269	2912	855	102	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.53 ANGLE CLASS % = 8.1

STATION 61 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	389	884	402	372	528	1094	443	71	98	197	4478
0.50 - 0.99	.	403	1084	394	107	617	446	63	113	227	3454
1.00 - 1.49	.	.	74	352	147	220	146	23	150	119	1231
1.50 - 1.99	.	.	.	15	91	155	71	12	19	22	385
2.00 - 2.49	.	.	.	.	17	81	44	10	5	6	163
2.50 - 2.99	.	.	.	.	.	8	19	11	3	4	45
3.00 - 3.49	.	.	.	.	.	.	1	3	3	1	8
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	389	1287	1560	1133	890	2175	1170	193	392	576	

AVE HS(M) = 0.65 LARGEST HS(M) = 4.13 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 61

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	1.0	0.7	0.8	0.5	0.6	0.9	0.6	0.6	1.0	0.8	0.6	0.8
1957	0.4	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.6	0.8	0.9	0.6
1958	0.5	0.5	0.6	0.8	0.6	0.5	0.6	0.7	0.4	0.8	0.7	0.5	0.6
1959	0.7	0.6	0.7	0.7	0.4	0.4	0.6	0.5	0.4	0.8	0.7	0.5	0.6
1960	0.5	0.9	0.5	0.8	0.6	0.9	0.6	0.6	0.6	0.5	0.6	0.4	0.6
1961	0.5	0.8	0.7	0.8	0.7	0.8	0.7	0.6	0.7	0.6	0.5	0.6	0.7
1962	0.7	0.6	1.3	1.2	0.5	0.5	0.5	0.5	0.4	0.5	0.9	0.9	0.7
1963	0.5	0.6	0.8	0.5	0.7	0.6	0.4	0.4	0.7	0.5	0.7	0.4	0.6
1964	0.8	0.6	0.8	0.9	0.8	0.6	0.7	0.5	0.7	0.5	0.5	0.8	0.7
1965	0.6	0.8	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.7	0.6	0.4	0.6
1966	0.5	0.5	0.6	0.5	0.5	1.1	1.2	1.0	0.7	0.5	0.6	0.5	0.7
1967	0.6	0.7	0.9	0.5	0.6	0.4	0.7	0.8	0.8	0.7	0.5	0.7	0.7
1968	0.4	0.4	0.6	0.5	0.6	0.4	0.4	0.4	0.3	0.3	0.6	0.6	0.5
1969	0.8	1.0	1.0	0.8	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7
1970	0.3	1.2	0.7	0.8	0.6	0.6	0.6	0.5	0.5	0.8	0.9	0.6	0.7
1971	0.5	0.9	0.6	0.6	0.8	0.4	0.6	0.6	0.6	1.0	0.6	0.6	0.7
1972	0.7	0.8	0.9	0.6	0.9	0.7	0.5	0.5	0.6	0.6	0.7	0.7	0.7
1973	0.7	1.0	0.9	0.8	0.7	0.7	0.4	0.4	0.4	0.6	0.7	1.2	0.7
1974	0.6	0.8	0.9	1.0	0.5	0.6	0.5	0.4	0.4	0.3	0.5	0.7	0.6
1975	0.8	0.7	0.7	0.5	0.3	0.4	1.3	1.1	1.0	0.8	0.8	0.9	0.8
MEAN	0.6	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 61

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.7	2.3	2.4	3.7	1.3	1.8	1.9	1.2	3.1	2.5	2.3	1.9
1957	1.4	2.1	2.3	2.6	1.7	2.0	1.2	1.7	1.9	2.9	2.4	2.7
1958	2.7	2.3	2.4	2.4	1.7	1.8	1.7	2.1	1.4	2.8	2.8	2.1
1959	2.9	2.0	2.7	2.2	1.3	1.2	2.0	1.5	1.3	2.7	2.3	1.9
1960	2.1	3.4	2.6	2.6	1.4	1.7	2.8	1.6	2.0	2.3	2.0	2.3
1961	2.4	3.0	2.3	2.6	2.5	2.1	1.4	1.6	2.4	1.9	2.1	2.0
1962	2.3	1.5	2.9	2.9	1.6	1.9	1.2	1.3	1.5	1.6	3.0	2.7
1963	2.0	2.2	2.3	2.6	2.8	2.2	1.7	2.2	2.0	2.2	2.4	2.2
1964	3.1	2.7	2.2	2.1	1.9	1.3	2.2	1.4	2.1	2.1	2.4	2.3
1965	2.5	3.1	2.3	2.0	1.0	1.4	1.5	1.3	1.4	2.6	1.9	2.0
1966	3.0	2.1	2.2	2.0	1.8	3.2	2.0	2.1	2.5	2.0	2.5	2.4
1967	2.2	1.8	2.2	1.9	1.6	1.2	1.7	2.0	2.3	2.2	1.9	3.0
1968	2.7	2.2	2.7	2.1	2.7	1.0	0.8	0.8	1.3	1.7	2.8	3.4
1969	2.4	2.6	2.9	1.9	2.4	1.4	1.7	1.5	1.4	1.8	3.0	3.1
1970	2.0	3.6	2.3	2.8	1.6	2.0	1.5	1.5	1.8	2.1	2.6	2.9
1971	2.4	3.0	2.9	2.7	2.3	1.1	1.6	3.4	2.1	2.2	2.6	1.8
1972	2.2	3.6	2.7	1.9	2.3	2.0	1.3	1.5	1.9	2.9	2.8	2.4
1973	2.9	3.5	2.9	2.9	2.2	2.1	1.2	1.9	2.4	3.2	3.5	3.6
1974	2.2	2.9	2.7	2.5	2.0	1.6	1.2	1.2	2.0	1.7	1.7	3.5
1975	2.6	3.1	4.1	2.6	1.1	1.4	3.3	1.3	2.1	2.1	2.4	3.0

LARGEST HS(METRES) FOR STATION 61 = 4.1

STATION 62 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 31.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1504	4621	3085	1724	487	112	5	.	.	.	11538
0.50 - 0.99	.	539	3030	1781	444	195	.	.	.	.	5989
1.00 - 1.49	.	.	29	193	159	23	.	.	.	.	404
1.50 - 1.99	.	.	.	.	11	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1504	5160	6144	3698	1101	330	5	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.78 ANGLE CLASS % = 18.0

STATION 62 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 31.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	626	1137	.	.	3121	8129	3124	195	220	1	16553
0.50 - 0.99	.	954	2094	496	379	3617	2390	112	814	.	10856
1.00 - 1.49	.	.	201	922	535	1156	636	37	540	.	4027
1.50 - 1.99	.	.	.	22	268	633	309	41	32	.	1305
2.00 - 2.49	.	.	.	.	37	142	171	37	3	.	390
2.50 - 2.99	.	.	.	.	.	6	13	22	11	.	52
3.00 - 3.49	.	.	.	.	.	.	.	6	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	626	2091	2295	1440	4340	13683	6643	450	1620	1	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.24 ANGLE CLASS % = 33.2

STATION 62 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 31.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	350	513	.	.	410	1098	576	172	44	1473	4636
0.50 - 0.99	.	573	920	54	20	316	46	61	27	412	2429
1.00 - 1.49	.	.	94	410	61	83	23	23	17	154	865
1.50 - 1.99	.	.	.	35	148	71	13	.	11	10	288
2.00 - 2.49	.	.	.	.	27	133	20	1	6	11	198
2.50 - 2.99	.	.	.	.	.	18	51	20	5	1	95
3.00 - 3.49	.	.	.	.	.	.	5	8	10	1	24
3.50 - 3.99	.	.	.	.	.	.	.	3	8	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	350	1086	1014	499	666	1719	734	288	128	2062	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.94 ANGLE CLASS % = 8.6

STATION 62 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 31.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	364	515			352	1047	788	296	677	414	4453
0.50 - 0.99	.	619	1173	75	54	888	1353	419	737	1623	6921
1.00 - 1.49	.	.	213	610	106	244	646	116	605	1321	3863
1.50 - 1.99	.	.	1	58	254	266	327	152	243	301	1601
2.00 - 2.49	.	.	.	.	58	366	154	37	77	133	825
2.50 - 2.99	.	.	.	.	.	56	133	68	45	46	348
3.00 - 3.49	.	.	.	.	.	.	10	41	39	30	119
3.50 - 3.99	.	.	.	.	.	.	.	1	18	23	42
4.00 - 4.49	.	.	.	.	.	.	.	.	.	10	10
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER											0
TOTAL	364	1134	1387	743	804	2867	3301	1122	2420	4002	

AVERAGE HS(M) = 0.95 LARGEST HS(M) = 4.51 ANGLE CLASS % = 18.2

STATION 62 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 31.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	304	631	3		451	1006	420	58	13	.	2886
0.50 - 0.99	.	407	1242	489	102	877	420	104	20	.	3661
1.00 - 1.49	.	.	100	812	427	386	261	13	1	.	2000
1.50 - 1.99	.	.	.	25	196	496	231	13	3	.	964
2.00 - 2.49	.	.	.	.	35	249	164	23	3	.	474
2.50 - 2.99	.	.	.	.	.	11	54	22	1	.	88
3.00 - 3.49	.	.	.	.	.	.	1	10	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	304	1038	1345	1326	1211	3025	1551	243	41	0	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.31 ANGLE CLASS % = 10.1

STATION 62 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 31.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

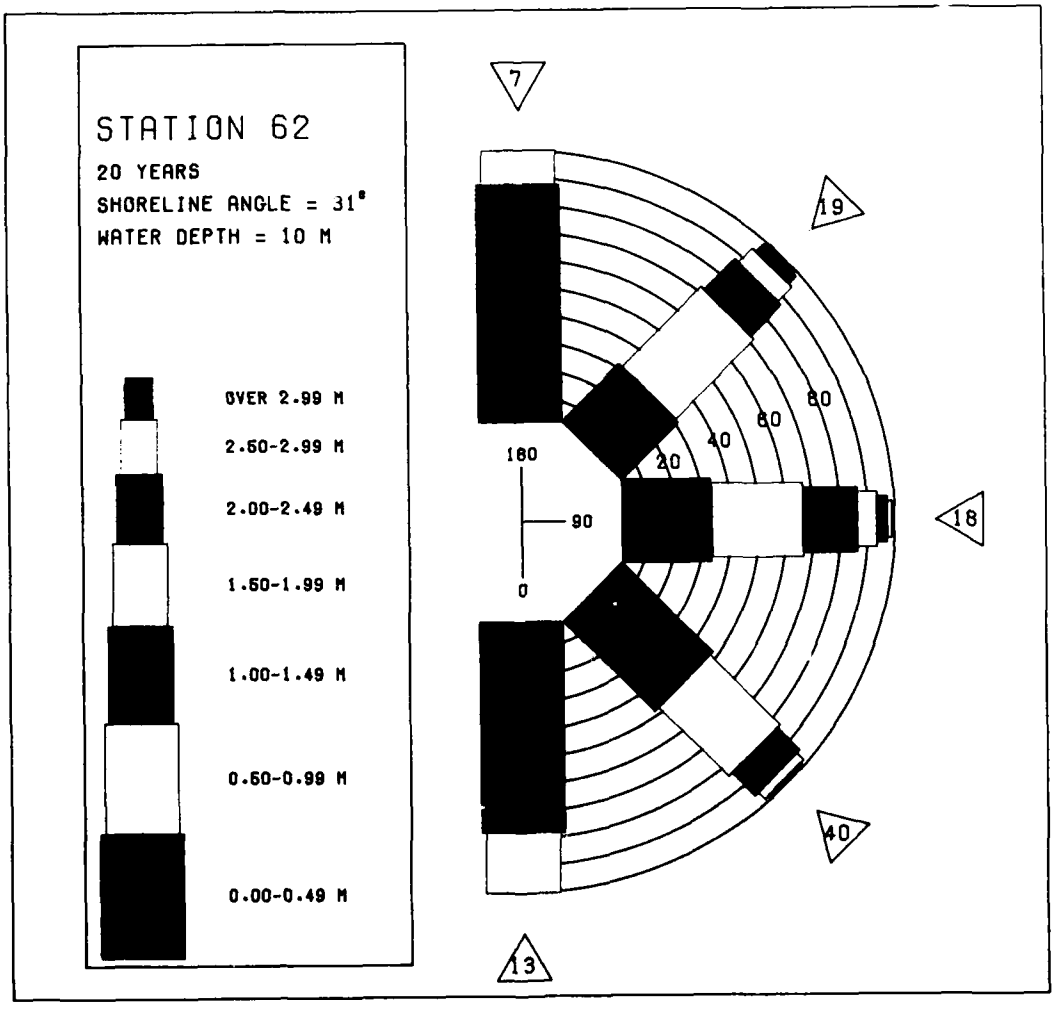
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	503	1555	1543	2446	864	39	.	.	.	.	6950
0.50 - 0.99	.	85	954	1267	159	15	.	.	.	.	2480
1.00 - 1.49	.	.	10	80	34	.	.	.	.	.	124
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	503	1640	2507	3793	1058	54	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.66 ANGLE CLASS % = 9.6

STATION 62 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 31.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	365	897	463	417	568	1143	491	72	95	188	4699
0.50 - 0.99	.	317	941	416	114	591	421	69	159	203	3231
1.00 - 1.49	.	.	65	303	132	189	156	19	116	149	1129
1.50 - 1.99	.	.	.	14	68	146	78	20	29	39	414
2.00 - 2.49	.	.	.	.	15	89	50	9	9	14	186
2.50 - 2.99	.	.	.	.	.	9	24	13	5	4	55
3.00 - 3.49	.	.	.	.	.	.	1	6	3	3	13
3.50 - 3.99	.	.	.	.	.	.	.	.	2	2	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	365	1214	1469	1150	917	2167	1221	208	418	603	

AVE HS(M) = 0.64 LARGEST HS(M) = 4.51 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 62

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.4	0.9	0.6	0.7	0.5	0.5	0.8	0.6	0.6	1.2	0.9	0.5	0.8
1957	0.4	0.8	0.6	0.5	0.4	0.6	0.4	0.5	0.6	0.7	0.7	0.8	0.6
1958	0.5	0.4	0.7	0.8	0.6	0.4	0.5	0.6	0.4	0.9	0.6	0.6	0.6
1959	0.6	0.5	0.6	0.7	0.4	0.3	0.5	0.5	0.4	0.8	0.7	0.5	0.5
1960	0.4	0.8	0.6	0.7	0.6	1.0	0.6	0.6	0.6	0.6	0.5	0.4	0.6
1961	0.5	0.8	0.6	0.7	0.6	0.7	0.6	0.5	0.8	0.8	0.6	0.5	0.6
1962	0.6	0.6	1.7	1.4	0.5	0.5	0.5	0.5	0.4	0.5	1.0	0.9	0.8
1963	0.5	0.6	0.7	0.4	0.6	0.5	0.4	0.3	0.9	0.6	0.6	0.4	0.5
1964	0.7	0.6	0.7	0.8	0.9	0.6	0.7	0.4	0.9	0.5	0.5	0.7	0.7
1965	0.6	0.7	0.5	0.5	0.5	0.6	0.5	0.4	0.6	0.6	0.5	0.4	0.5
1966	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.9	0.7	0.4	0.6	0.5	0.6
1967	0.5	0.7	0.9	0.5	0.6	0.4	0.6	0.7	1.0	0.7	0.4	0.7	0.6
1968	0.5	0.4	0.6	0.5	0.6	0.4	0.4	0.4	0.3	0.3	0.6	0.5	0.4
1969	0.8	1.2	1.1	0.8	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.7
1970	0.3	1.0	0.7	0.8	0.5	0.5	0.5	0.4	0.4	0.9	1.0	0.6	0.6
1971	0.5	0.8	0.6	0.6	0.7	0.4	0.6	0.6	0.7	1.1	0.6	0.6	0.6
1972	0.6	0.8	0.8	0.6	0.9	0.7	0.4	0.5	0.7	0.7	0.7	0.7	0.7
1973	0.6	1.2	1.0	0.7	0.7	0.6	0.4	0.3	0.4	0.6	0.5	1.1	0.7
1974	0.6	0.8	0.8	0.8	0.5	0.6	0.4	0.5	0.4	0.3	0.5	0.6	0.6
1975	0.8	0.7	0.7	0.5	0.3	0.4	1.5	1.3	1.1	1.0	0.8	1.0	0.9
MEAN	0.6	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 62

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	2.2	2.6	3.2	1.1	1.8	1.9	1.0	3.8	2.9	2.3	1.7
1957	1.3	2.1	2.9	2.4	1.4	1.6	1.0	2.0	1.9	3.3	2.1	2.4
1958	2.7	2.4	3.0	2.3	1.7	1.4	1.3	1.9	1.3	3.3	2.7	2.8
1959	2.7	1.9	2.5	2.4	1.2	1.0	1.6	1.5	1.3	2.9	2.1	1.7
1960	2.6	3.0	2.9	2.3	1.4	1.9	2.4	1.9	1.9	3.0	1.9	2.5
1961	2.5	3.5	2.5	2.7	2.6	1.8	1.2	1.4	2.9	2.6	2.0	2.1
1962	2.0	1.5	4.3	2.6	1.5	1.9	1.1	1.4	1.9	1.3	3.5	3.2
1963	1.8	2.4	2.2	2.3	2.4	2.3	1.5	2.0	2.6	2.7	2.5	2.0
1964	3.7	2.5	2.4	2.2	2.1	1.2	2.4	1.7	2.6	2.1	2.4	2.1
1965	2.6	2.9	2.3	2.0	1.0	2.1	1.2	1.3	1.6	2.5	1.5	2.0
1966	3.0	2.0	2.1	2.1	1.3	2.9	1.7	1.7	2.6	1.9	2.3	2.3
1967	2.1	2.3	2.2	1.7	2.0	1.1	1.5	1.5	2.9	1.8	1.5	3.0
1968	2.8	2.2	2.6	1.9	2.7	1.0	0.7	0.8	1.4	1.2	3.3	3.0
1969	3.2	3.2	3.6	1.9	2.1	1.3	1.7	1.2	2.0	2.3	3.1	2.7
1970	1.8	3.2	2.1	2.7	1.7	1.7	1.3	1.8	1.4	2.6	2.6	2.6
1971	2.1	2.5	2.8	3.0	2.1	1.3	1.5	3.2	2.3	2.3	2.5	1.5
1972	1.9	3.6	2.4	1.8	2.3	2.2	1.2	1.4	2.2	2.9	2.4	2.4
1973	2.5	3.2	2.6	2.9	2.0	1.9	1.2	1.8	2.4	3.3	2.8	3.6
1974	2.1	2.5	3.1	2.2	2.0	2.3	1.0	1.3	1.8	1.1	1.7	3.8
1975	2.5	2.7	3.9	2.5	1.0	2.0	3.9	1.5	2.2	2.1	3.4	3.6

LARGEST HS(METRES) FOR STATION 62 = 4.5

STATION 63 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1523	4652	3056	1742	501	314	12	.	.	.	11800
0.50 - 0.99	.	613	3291	1857	462	179	21	.	.	.	6423
1.00 - 1.49	.	.	26	188	165	24	1	.	.	.	404
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1523	5265	6373	3787	1133	517	34	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.60 ANGLE CLASS % = 18.6

STATION 63 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	634	1242	.	.	3159	8041	3098	184	115	.	16473
0.50 - 0.99	.	1061	2286	540	375	3945	2410	101	71	.	10789
1.00 - 1.49	.	.	222	1031	568	1230	679	55	28	.	3793
1.50 - 1.99	.	.	.	26	291	670	321	37	12	.	1357
2.00 - 2.49	.	.	.	.	46	145	151	35	7	.	384
2.50 - 2.99	.	.	.	.	.	12	21	21	1	.	55
3.00 - 3.49	.	.	.	.	.	.	.	1	3	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	634	2303	2508	1597	4439	14043	6680	414	237	0	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.07 ANGLE CLASS % = 32.9

STATION 63 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	336	524	.	.	421	840	592	172	119	1481	4485
0.50 - 0.99	.	544	901	46	39	314	62	65	570	424	2965
1.00 - 1.49	.	.	88	453	62	99	42	24	796	161	1725
1.50 - 1.99	.	.	1	30	156	101	39	.	39	19	385
2.00 - 2.49	.	.	.	.	19	156	55	7	8	12	257
2.50 - 2.99	.	.	.	.	.	16	51	28	8	1	104
3.00 - 3.49	.	.	.	.	.	.	5	16	12	1	34
3.50 - 3.99	.	.	.	.	.	.	.	3	10	.	13
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	336	1068	990	529	697	1526	846	315	1562	2099	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.94 ANGLE CLASS % = 10.0

STATION 63 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	344	586			371	974	794	302	711	344	4426
0.50 - 0.99	.	686	1290	65	24	769	1278	423	695	944	6177
1.00 - 1.49	.	.	218	668	103	199	572	92	273	700	2825
1.50 - 1.99	.	.	.	58	259	236	152	138	145	362	1350
2.00 - 2.49	.	.	.	.	55	316	128	28	67	110	704
2.50 - 2.99	.	.	.	.	.	56	104	46	23	49	278
3.00 - 3.49	.	.	.	.	.	.	7	39	26	26	98
3.50 - 3.99	.	.	.	.	.	.	.	1	12	17	30
4.00 - 4.49	.	.	.	.	.	.	.	.	.	7	7
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	344	1272	1508	791	812	2550	3035	1072	1952	2559	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 4.45 ANGLE CLASS % = 15.9

STATION 63 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	279	631			43	1166	471	64	10	.	3060
0.50 - 0.99	.	442	1294	480	106	1006	563	112	1	.	4004
1.00 - 1.49	.	.	90	730	455	449	387	23	3	.	2137
1.50 - 1.99	.	.	.	23	202	531	257	21	.	.	1034
2.00 - 2.49	.	.	.	.	35	238	181	24	1	.	479
2.50 - 2.99	.	.	.	.	.	8	42	42	3	.	95
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	279	1073	1384	1233	1237	3398	1901	286	18	0	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 2.97 ANGLE CLASS % = 10.8

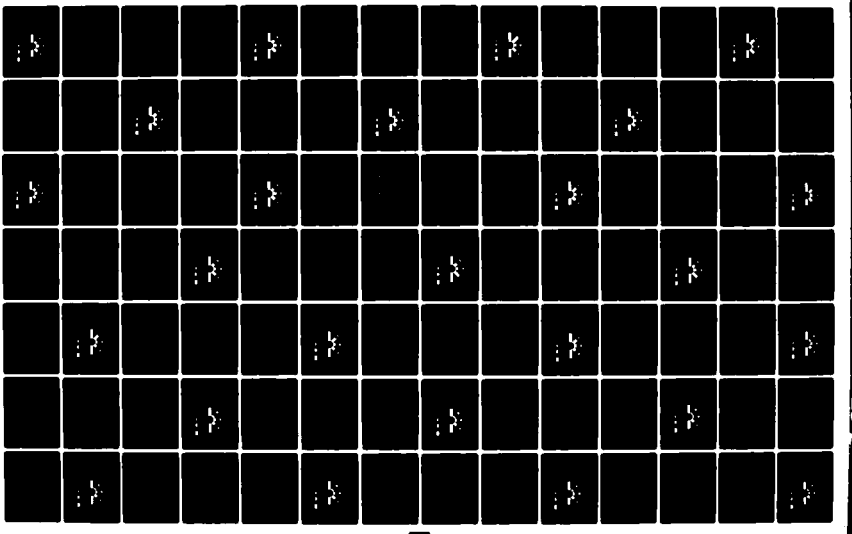
STATION 63 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	485	1532	1594	2531	849	49	.	.	.	.	7040
0.50 - 0.99	.	81	899	1228	156	17	.	.	.	.	2381
1.00 - 1.49	.	.	7	87	21	.	.	.	.	.	115
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	485	1613	2500	3846	1027	66	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.71 ANGLE CLASS % = 9.5

AD-A129 642 ATLANTIC COAST HINDCAST SHALLOW-WATER SIGNIFICANT WAVE INFORMATION(U) ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRAULICS LAB R E JENSEN JAN 83 4/8

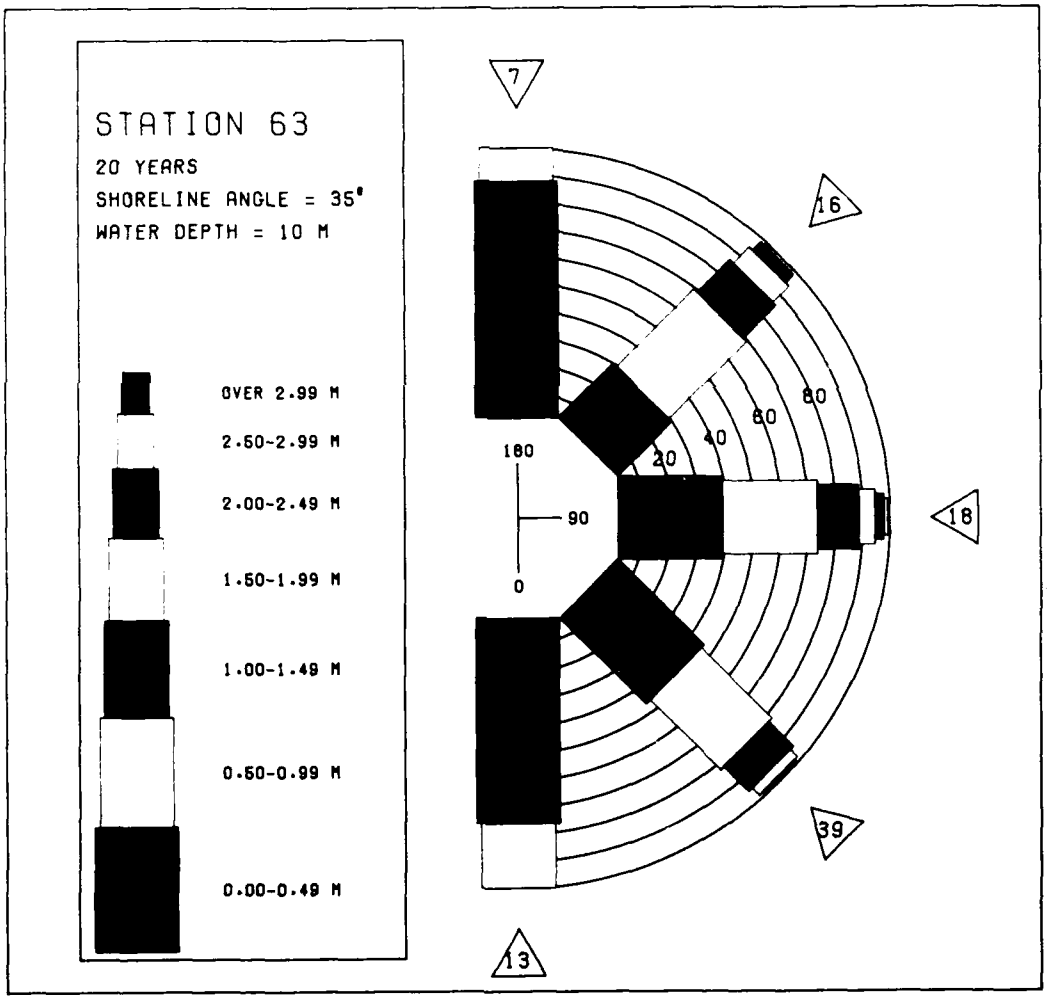
UNCLASSIFIED WIS-9 F/G 12/1 NL



STATION 63 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	360	917	465	427	574	1138	496	72	95	182	4726
0.50 - 0.99	.	342	996	421	116	623	433	70	133	136	3270
1.00 - 1.49	.	.	65	315	137	200	168	17	110	86	1098
1.50 - 1.99	.	.	.	13	91	153	77	19	19	38	410
2.00 - 2.49	.	.	.	.	15	85	51	9	8	12	180
2.50 - 2.99	.	.	.	.	.	9	22	13	3	5	52
3.00 - 3.49	.	.	.	.	.	.	1	5	4	2	12
3.50 - 3.99	.	.	.	.	.	.	.	.	2	1	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	360	1259	1526	1176	933	2208	1248	205	374	462	

AVE HS(M) = 0.63 LARGEST HS(M) = 4.45 TOTAL CASES = 56244



MEAN HS(METRES) BY MONTH AND YEAR

STATION 63

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	0.9	0.6	0.7	0.5	0.5	0.8	0.6	0.6	1.1	0.9	0.5	0.8
1957	0.4	0.8	0.6	0.6	0.4	0.6	0.4	0.5	0.6	0.7	0.7	0.8	0.6
1958	0.5	0.4	0.7	0.8	0.6	0.4	0.5	0.6	0.4	0.9	0.6	0.6	0.6
1959	0.6	0.5	0.7	0.7	0.4	0.3	0.5	0.5	0.4	0.8	0.7	0.5	0.5
1960	0.4	0.8	0.6	0.8	0.6	1.0	0.6	0.6	0.6	0.6	0.5	0.4	0.6
1961	0.5	0.8	0.6	0.7	0.7	0.7	0.6	0.6	0.8	0.8	0.6	0.5	0.7
1962	0.7	0.6	1.6	1.4	0.5	0.5	0.5	0.5	0.4	0.5	1.0	0.9	0.8
1963	0.5	0.6	0.7	0.4	0.6	0.5	0.4	0.4	0.9	0.6	0.6	0.4	0.6
1964	0.8	0.6	0.7	0.8	0.9	0.6	0.7	0.5	0.9	0.5	0.5	0.8	0.7
1965	0.6	0.7	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.7	0.5	0.4	0.6
1966	0.5	0.5	0.6	0.5	0.5	1.0	1.1	1.0	0.7	0.4	0.6	0.5	0.7
1967	0.5	0.7	0.9	0.5	0.6	0.4	0.6	0.7	1.0	0.7	0.5	0.7	0.7
1968	0.4	0.4	0.6	0.5	0.6	0.4	0.4	0.4	0.3	0.3	0.6	0.5	0.5
1969	0.8	1.2	1.1	0.8	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7
1970	0.3	1.1	0.7	0.8	0.5	0.5	0.5	0.4	0.4	0.8	1.0	0.6	0.6
1971	0.5	0.8	0.6	0.6	0.7	0.4	0.6	0.6	0.7	1.1	0.7	0.6	0.6
1972	0.6	0.8	0.8	0.6	0.9	0.7	0.4	0.5	0.7	0.6	0.7	0.7	0.7
1973	0.6	1.1	1.0	0.7	0.7	0.6	0.4	0.3	0.4	0.6	0.6	1.1	0.7
1974	0.6	0.8	0.8	0.9	0.5	0.6	0.4	0.5	0.4	0.3	0.5	0.6	0.6
1975	0.8	0.7	0.7	0.5	0.3	0.4	1.5	1.3	1.1	1.0	0.8	1.0	0.9
MEAN	0.6	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 63

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	2.3	2.6	3.4	1.2	1.8	1.9	1.1	3.8	2.9	2.3	1.7
1957	1.3	2.1	2.7	2.4	1.4	1.6	1.1	2.0	1.9	3.3	2.1	2.6
1958	2.7	2.3	3.0	2.3	1.7	1.5	1.5	1.9	1.3	3.3	2.7	2.7
1959	2.7	1.9	2.5	2.3	1.2	1.0	1.7	1.5	1.3	2.8	2.1	1.7
1960	2.6	3.0	2.9	2.3	1.4	1.9	2.4	1.9	2.0	3.0	1.9	2.5
1961	2.4	3.4	2.5	2.7	2.6	1.8	1.2	1.5	2.9	2.5	2.0	2.1
1962	2.2	1.5	3.9	2.7	1.5	1.9	1.1	1.4	1.6	1.3	3.3	3.1
1963	1.9	2.3	2.2	2.4	2.4	2.3	1.6	2.0	2.5	2.6	2.5	1.9
1964	3.7	2.5	2.4	2.1	2.1	1.2	2.4	1.4	2.5	2.1	2.4	2.1
1965	2.6	2.9	2.3	2.0	1.0	1.9	1.4	1.3	1.6	2.5	1.5	2.0
1966	3.0	2.0	2.1	2.1	1.4	3.1	1.8	1.7	2.6	1.9	2.3	2.4
1967	2.1	2.0	2.0	1.7	2.0	1.1	1.5	1.8	2.8	1.8	1.5	3.0
1968	2.8	2.2	2.6	1.9	2.7	1.0	0.7	0.8	1.4	1.4	3.2	3.0
1969	3.1	3.2	3.5	1.9	2.1	1.3	1.7	1.2	1.8	2.1	3.1	2.9
1970	1.6	3.4	2.1	2.7	1.7	1.7	1.3	1.8	1.4	2.6	2.6	2.7
1971	2.1	2.7	2.8	3.0	2.1	1.3	1.5	3.2	2.3	2.3	2.5	1.5
1972	1.9	3.6	2.5	1.8	2.3	2.2	1.2	1.4	2.2	2.9	2.4	2.4
1973	2.7	3.2	2.6	2.9	2.0	1.9	1.2	1.8	2.4	3.3	3.1	3.6
1974	2.2	2.6	3.1	2.3	2.0	2.1	1.0	1.3	1.9	1.2	1.7	3.8
1975	2.5	2.7	3.9	2.5	1.0	2.0	3.7	1.5	2.2	2.1	3.1	3.6

LARGEST HS(METRES) FOR STATION 63 = 4.5

STATION 64 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 51.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 64 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 51.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1370	4218	3364	1764	2546	5225	219	.	.	.	18706
0.50 - 0.99	.	188	1947	1507	746	2609	621	10	3	.	7631
1.00 - 1.49	.	.	6	159	280	715	388	5	1	.	1554
1.50 - 1.99	.	.	.	.	35	97	133	3	.	.	268
2.00 - 2.49	.	.	.	.	3	1	17	.	.	.	21
2.50 - 2.99	.	.	.	.	.	.	1	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1370	4406	5317	3430	3610	8847	1379	18	4	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 2.63 ANGLE CLASS % = 28.4

STATION 64 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 51.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	665	1305	.	.	1290	1509	1413	85	167	1321	7755
0.50 - 0.99	.	795	1964	309	234	1398	2103	130	557	410	7900
1.00 - 1.49	.	.	143	744	249	622	359	58	893	160	3228
1.50 - 1.99	.	.	.	25	277	571	256	34	58	17	1238
2.00 - 2.49	.	.	.	.	41	234	186	41	17	11	530
2.50 - 2.99	.	.	.	.	.	17	66	49	11	1	144
3.00 - 3.49	.	.	.	.	.	.	5	15	13	1	34
3.50 - 3.99	.	.	.	.	.	.	.	3	11	1	15
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	665	2100	2107	1078	2091	4351	4388	415	1728	1922	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 4.10 ANGLE CLASS % = 20.9

STATION 64 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 51.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	462	641	.	.	530	1435	877	227	917	1146	6235
0.50 - 0.99	.	727	1298	95	27	272	166	239	602	1667	5333
1.00 - 1.49	.	.	165	578	90	77	109	22	600	1100	2741
1.50 - 1.99	.	.	.	39	210	121	58	18	119	222	789
2.00 - 2.49	.	.	.	1	37	168	68	.	45	71	410
2.50 - 2.99	.	.	.	.	.	32	65	27	37	42	203
3.00 - 3.49	.	.	.	.	.	.	3	10	10	27	50
3.50 - 3.99	.	.	.	.	.	.	.	3	3	3	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	462	1368	1463	713	894	2137	1366	546	2303	4498	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 3.71 ANGLE CLASS % = 15.8

STATION 64 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 51.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	319	701	3	.	845	2491	1741	422	107	42	6671
0.50 - 0.99	.	403	1269	436	157	1213	1493	290	34	6	5301
1.00 - 1.49	.	.	119	619	414	580	580	123	37	6	2478
1.50 - 1.99	.	.	.	18	167	562	272	94	22	1	1136
2.00 - 2.49	.	.	.	.	32	136	143	75	8	.	394
2.50 - 2.99	.	.	.	.	.	5	8	27	10	.	50
3.00 - 3.49	.	.	.	.	.	.	.	1	3	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	319	1104	1391	1073	1615	4987	4237	1032	221	55	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 3.15 ANGLE CLASS % = 16.1

STATION 64 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 51.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

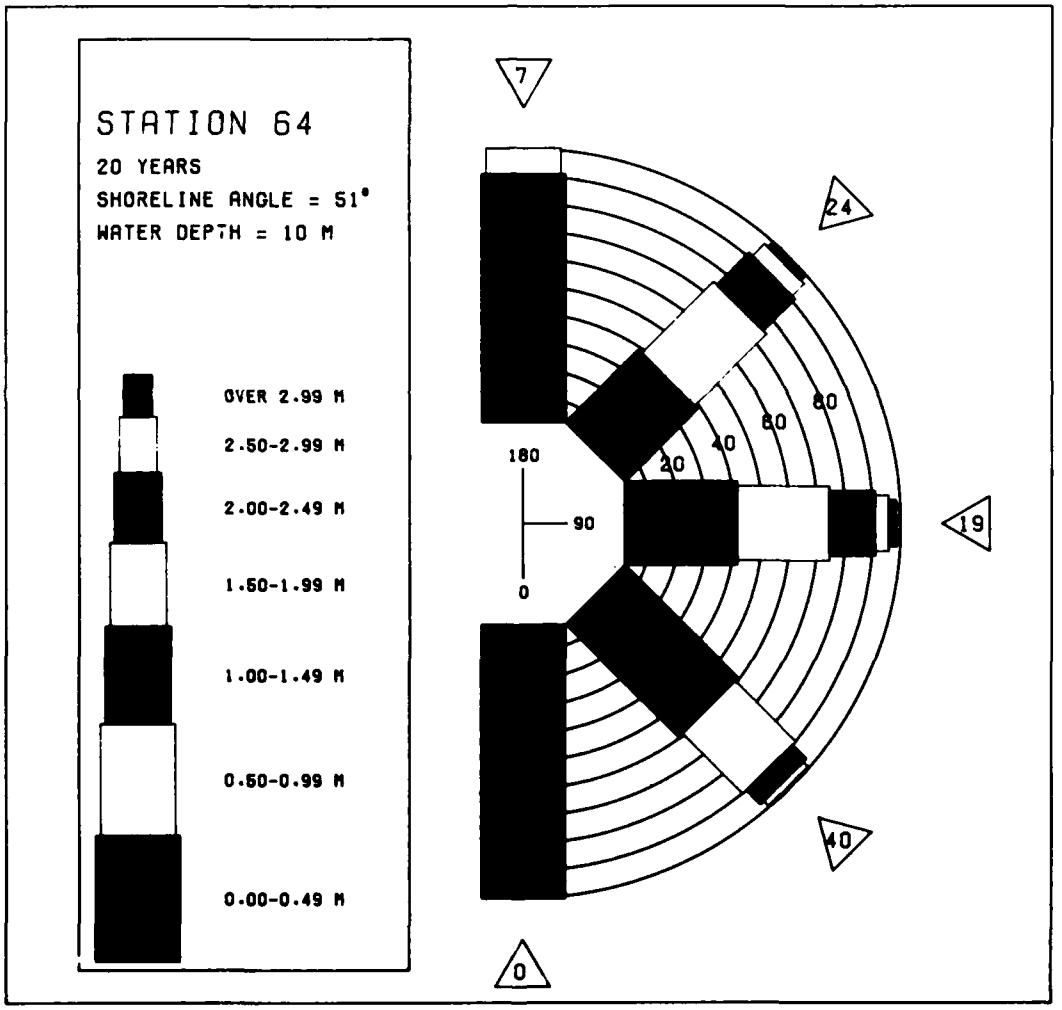
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	588	1644	1678	2419	694	49	.	.	.	.	7072
0.50 - 0.99	.	71	814	896	220	30	.	.	.	.	2031
1.00 - 1.49	.	.	3	29	11	.	.	.	.	.	43
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	588	1715	2495	3344	925	79	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.28 ANGLE CLASS % = 9.2

STATION 64 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 51.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	340	851	504	418	590	1071	425	73	119	251	4642
0.50 - 0.99	.	218	729	324	138	572	440	67	119	230	2837
1.00 - 1.49	.	.	43	213	104	199	143	20	153	126	1001
1.50 - 1.99	.	.	.	8	69	135	72	15	20	24	343
2.00 - 2.49	.	.	.	.	11	57	41	11	6	8	134
2.50 - 2.99	.	.	.	.	.	5	14	10	3	4	36
3.00 - 3.49	.	.	.	.	.	.	.	2	2	2	6
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	340	1069	1276	963	912	2039	1135	198	423	645	

AVE HS(M) = 0.55 LARGEST HS(M) = 4.10 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 64

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.2	0.9	0.6	0.6	0.4	0.5	0.8	0.5	0.5	1.0	0.7	0.4	0.7
1957	0.3	0.7	0.5	0.5	0.4	0.5	0.4	0.4	0.6	0.6	0.6	0.7	0.5
1958	0.4	0.3	0.5	0.7	0.5	0.4	0.4	0.6	0.3	0.8	0.6	0.5	0.5
1959	0.5	0.4	0.6	0.6	0.3	0.2	0.5	0.4	0.4	0.6	0.6	0.4	0.5
1960	0.3	0.7	0.5	0.7	0.5	0.9	0.5	0.5	0.5	0.5	0.4	0.3	0.5
1961	0.3	0.7	0.6	0.7	0.6	0.7	0.6	0.5	0.6	0.6	0.5	0.4	0.6
1962	0.5	0.5	1.4	1.3	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.7	0.6
1963	0.4	0.5	0.6	0.4	0.5	0.5	0.3	0.3	0.7	0.5	0.5	0.3	0.5
1964	0.6	0.4	0.6	0.8	0.8	0.5	0.6	0.4	0.7	0.4	0.4	0.7	0.6
1965	0.4	0.6	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.6	0.4	0.3	0.5
1966	0.4	0.4	0.5	0.5	0.5	1.0	1.1	1.0	0.6	0.4	0.5	0.3	0.6
1967	0.4	0.6	0.9	0.4	0.5	0.3	0.6	0.7	0.8	0.6	0.4	0.6	0.6
1968	0.3	0.3	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.5	0.5	0.4
1969	0.7	1.0	0.9	0.7	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6
1970	0.2	1.1	0.6	0.7	0.5	0.4	0.5	0.3	0.4	0.8	0.8	0.5	0.6
1971	0.4	0.8	0.5	0.5	0.7	0.3	0.5	0.5	0.6	0.9	0.6	0.5	0.6
1972	0.6	0.6	0.8	0.5	0.8	0.6	0.4	0.5	0.5	0.6	0.6	0.6	0.6
1973	0.5	1.0	0.9	0.6	0.7	0.6	0.3	0.3	0.3	0.5	0.4	1.0	0.6
1974	0.6	0.6	0.7	0.8	0.4	0.5	0.4	0.4	0.3	0.2	0.4	0.5	0.5
1975	0.7	0.6	0.6	0.4	0.3	0.4	1.3	1.1	1.0	0.9	0.7	0.9	0.7
MEAN	0.5	0.6	0.7	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 64

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.7	2.1	2.5	3.5	1.0	1.8	1.9	1.0	3.1	2.5	2.3	1.7
1957	1.2	1.8	2.5	2.4	1.3	1.5	0.9	1.8	1.9	2.9	2.1	2.6
1958	2.7	2.3	2.4	2.4	1.7	1.4	1.1	1.9	1.4	2.8	2.8	2.2
1959	2.8	1.9	2.6	2.0	1.2	0.9	1.6	1.5	1.3	2.7	2.1	1.6
1960	2.1	3.3	2.6	2.5	1.4	1.8	2.4	1.6	2.0	2.3	1.6	2.3
1961	2.2	3.2	2.3	2.6	2.5	1.8	1.2	1.4	2.4	2.1	2.1	2.0
1962	1.9	1.5	3.5	2.6	1.5	1.9	1.1	1.4	1.4	1.3	3.0	2.7
1963	1.9	2.1	2.2	2.4	2.5	2.2	1.5	2.0	2.2	2.4	2.4	1.8
1964	3.1	2.5	1.9	1.9	1.9	1.1	2.2	1.3	2.2	2.1	2.4	2.1
1965	2.5	3.0	2.3	1.9	1.0	1.7	1.3	1.3	1.4	2.5	1.1	2.0
1966	2.9	2.1	2.0	2.0	1.4	3.2	1.8	1.6	2.5	1.8	2.4	2.4
1967	2.1	1.7	2.0	1.6	1.5	1.0	1.5	1.3	2.3	1.8	1.5	2.9
1968	2.7	2.2	2.6	2.0	2.7	1.0	0.7	0.6	1.3	1.2	3.0	3.4
1969	2.6	2.6	3.2	1.9	2.2	1.2	1.7	1.1	1.6	1.8	3.0	3.0
1970	1.5	3.5	2.1	2.7	1.6	1.7	1.3	1.5	1.4	2.2	2.6	2.7
1971	2.1	2.8	2.9	2.7	2.1	1.1	1.5	3.4	2.1	2.2	2.5	1.6
1972	1.9	3.6	2.6	1.8	2.3	2.0	1.2	1.4	1.8	2.9	2.6	2.3
1973	2.6	3.4	2.7	2.9	2.0	1.8	1.2	1.8	2.4	3.2	3.3	3.6
1974	2.2	2.5	2.6	2.4	2.0	1.9	0.9	1.0	1.8	0.9	1.4	3.5
1975	2.5	2.8	4.1	2.5	0.9	1.4	3.3	1.3	2.1	2.1	2.8	3.0

LARGEST HS(METRES) FOR STATION 64 = 4.1

STATION 65 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 353.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2419	6331	5249	2477	1512	3401	1747	77	1038	208	24459
0.50 - 0.99	.	232	1610	1139	402	376	70	6	68	18	3921
1.00 - 1.49	.	.	10	58	70	3	5	.	6	1	153
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2419	6563	6869	3674	1989	3780	1822	83	1112	227	

AVERAGE HS(M) = 0.27 LARGEST HS(M) = 1.91 ANGLE CLASS % = 28.6

STATION 65 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 353.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	639	1030	.	.	1100	1733	68	47	34	195	4846
0.50 - 0.99	.	597	1536	278	87	477	147	39	20	.	3181
1.00 - 1.49	.	.	107	568	290	366	112	42	5	.	1490
1.50 - 1.99	.	.	.	27	165	203	47	17	3	.	462
2.00 - 2.49	.	.	.	.	13	63	25	17	3	.	121
2.50 - 2.99	.	.	.	.	.	8	15	1	6	.	30
3.00 - 3.49	.	.	.	.	.	.	.	3	1	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	639	1627	1643	873	1655	2850	414	166	72	195	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 3.30 ANGLE CLASS % = 10.2

STATION 65 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 353.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	455	619	.	.	561	1276	1901	552	882	2063	8309
0.50 - 0.99	.	458	1098	102	51	671	1276	448	775	1800	6679
1.00 - 1.49	.	.	131	576	102	222	610	114	438	1437	3630
1.50 - 1.99	.	.	.	42	207	239	188	104	386	414	1580
2.00 - 2.49	.	.	.	.	59	349	126	32	61	160	787
2.50 - 2.99	.	.	.	.	.	59	118	27	25	54	283
3.00 - 3.49	.	.	.	.	.	.	13	32	18	32	95
3.50 - 3.99	.	.	.	.	.	.	.	5	15	20	40
4.00 - 4.49	.	.	.	.	.	.	.	.	1	13	14
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER											0
TOTAL	455	1077	1229	720	980	3116	4232	1314	2601	5998	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 4.97 ANGLE CLASS % = 21.7

STATION 65 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 353.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	811	1635	677	162	504	1019	400	46	44	8	5306
0.50 - 0.99	.	225	1599	1469	234	1047	544	116	68	37	5339
1.00 - 1.49	.	.	54	636	403	475	309	54	35	13	1979
1.50 - 1.99	.	.	.	11	196	509	282	32	22	13	1065
2.00 - 2.49	.	.	.	.	37	410	258	32	23	6	766
2.50 - 2.99	.	.	.	.	.	37	171	42	27	11	288
3.00 - 3.49	.	.	.	.	.	.	17	70	17	1	105
3.50 - 3.99	.	.	.	.	.	.	.	8	15	.	23
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	3	3
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	811	1860	2330	2278	1374	3497	1981	400	251	95	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.71 ANGLE CLASS % = 14.9

STATION 65 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 353.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	506	1290	1753	3583	889	32	.	.	.	.	8053
0.50 - 0.99	.	.	6	41	35	3	.	.	.	.	85
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	506	1290	1759	3624	924	35	0	0	0	0	

AVERAGE HS(M) = 0.13 LARGEST HS(M) = 0.98 ANGLE CLASS % = 8.1

STATION 65 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 353.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

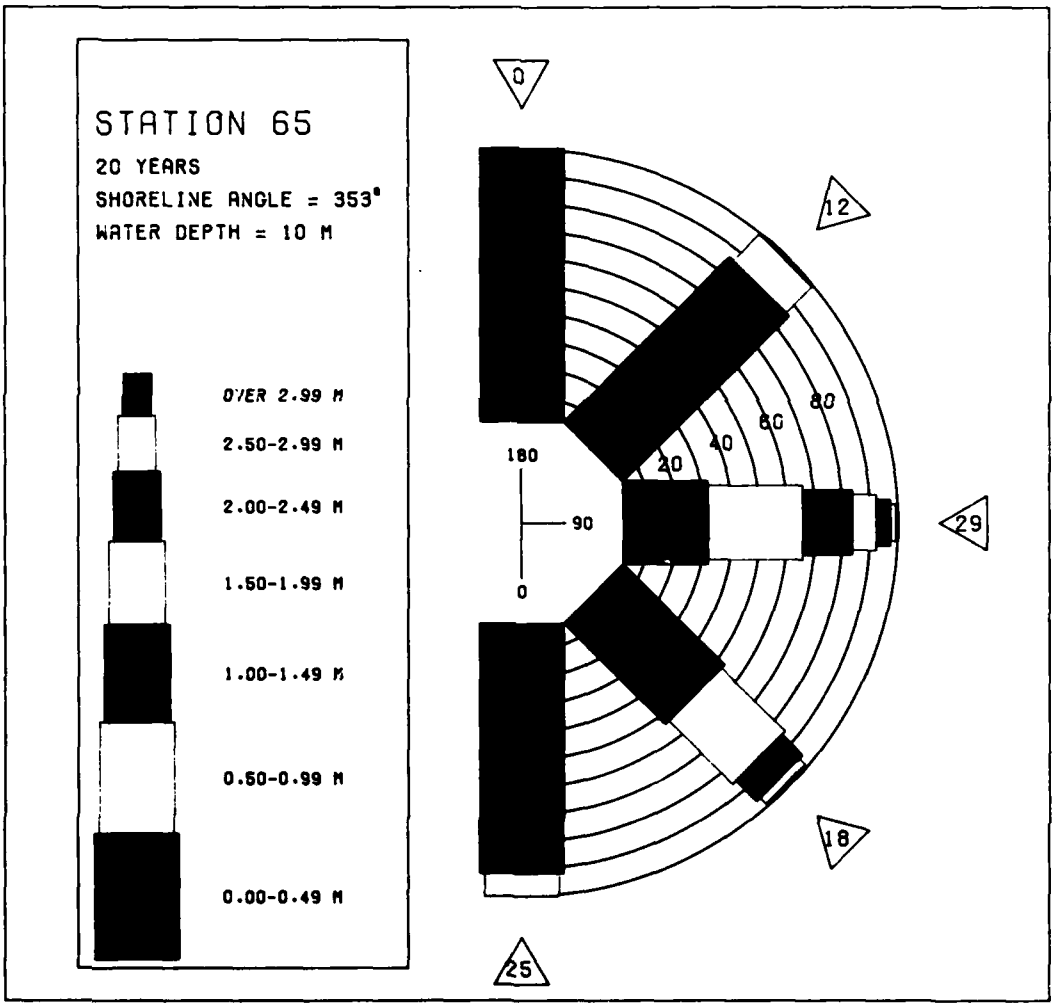
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 65 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 353.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	483	1090	768	622	456	746	411	72	200	247	5095
0.50 - 0.99	.	151	585	303	81	287	203	61	93	185	1949
1.00 - 1.49	.	.	30	183	86	106	103	21	48	145	722
1.50 - 1.99	.	.	.	8	57	95	51	15	41	42	309
2.00 - 2.49	.	.	.	.	11	82	41	8	8	16	166
2.50 - 2.99	.	.	.	.	.	10	30	7	5	6	58
3.00 - 3.49	.	.	.	.	.	.	3	10	3	3	19
3.50 - 3.99	.	.	.	.	.	.	.	1	3	2	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	483	1241	1383	1116	691	1326	842	195	401	647	

AVE HS(M) = 0.46 LARGEST HS(M) = 4.97 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 65

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.6	1.2	0.9	0.4	0.6
1957	0.2	0.7	0.6	0.3	0.2	0.4	0.1	0.4	0.4	0.7	0.4	0.5	0.4
1958	0.4	0.3	0.7	0.6	0.4	0.2	0.2	0.3	0.3	0.9	0.5	0.5	0.4
1959	0.3	0.3	0.4	0.5	0.1	0.1	0.3	0.3	0.4	0.6	0.4	0.3	0.3
1960	0.2	0.5	0.4	0.4	0.4	1.0	0.5	0.4	0.5	0.6	0.4	0.2	0.5
1961	0.4	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.7	0.8	0.6	0.3	0.5
1962	0.4	0.5	1.8	1.4	0.4	0.3	0.2	0.4	0.4	0.4	0.9	0.7	0.6
1963	0.3	0.4	0.4	0.2	0.4	0.3	0.1	0.1	0.9	0.6	0.3	0.2	0.4
1964	0.5	0.4	0.4	0.5	0.9	0.6	0.5	0.3	0.9	0.4	0.2	0.4	0.5
1965	0.5	0.5	0.3	0.3	0.2	0.4	0.2	0.2	0.5	0.4	0.3	0.2	0.4
1966	0.4	0.3	0.3	0.4	0.3	0.5	0.4	0.4	0.5	0.3	0.4	0.4	0.4
1967	0.3	0.5	0.6	0.3	0.4	0.3	0.2	0.4	1.0	0.7	0.2	0.5	0.4
1968	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.4	0.3	0.3
1969	0.6	1.2	1.2	0.8	0.3	0.3	0.3	0.3	0.6	0.6	0.5	0.4	0.6
1970	0.2	0.5	0.5	0.6	0.4	0.3	0.2	0.2	0.2	0.8	1.0	0.4	0.4
1971	0.2	0.4	0.4	0.3	0.4	0.2	0.4	0.4	0.6	1.1	0.6	0.4	0.4
1972	0.3	0.6	0.5	0.3	0.7	0.5	0.2	0.3	0.6	0.5	0.5	0.5	0.5
1973	0.3	1.1	0.9	0.4	0.4	0.4	0.2	0.2	0.3	0.5	0.2	0.7	0.5
1974	0.3	0.6	0.5	0.3	0.3	0.4	0.2	0.4	0.3	0.2	0.3	0.5	0.4
1975	0.7	0.5	0.5	0.3	0.3	0.3	1.7	1.4	1.2	1.0	0.7	1.0	0.8
MEAN	0.4	0.5	0.6	0.5	0.4	0.4	0.3	0.4	0.5	0.6	0.5	0.4	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 65

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	5.0	2.1	2.6	2.5	0.9	1.7	1.7	1.1	4.1	3.1	2.2	1.4
1957	1.3	2.3	3.2	2.0	1.4	1.2	1.0	2.1	1.8	3.6	2.2	1.9
1958	2.6	2.3	3.5	2.1	1.4	1.0	0.8	1.3	0.9	3.4	2.6	3.4
1959	1.8	2.0	2.1	2.4	0.7	1.0	1.3	1.5	1.2	3.0	1.3	1.4
1960	2.9	3.4	2.9	1.9	1.2	2.1	2.0	1.9	1.7	3.4	2.1	2.7
1961	2.9	3.8	2.7	2.6	2.6	1.1	1.0	1.2	3.2	2.9	2.0	2.0
1962	1.8	1.9	4.7	2.5	1.4	1.9	1.0	1.6	2.0	1.3	3.8	3.6
1963	1.5	2.4	1.6	1.8	1.5	2.2	0.7	1.2	2.8	2.8	2.6	2.0
1964	4.0	2.4	2.7	2.4	2.2	0.9	2.6	1.6	3.0	2.1	2.2	1.5
1965	3.0	2.4	2.3	1.3	0.9	2.1	0.9	1.0	1.7	2.3	1.6	2.0
1966	2.7	2.1	2.1	2.1	0.9	2.4	0.9	1.2	2.7	1.6	1.7	2.3
1967	1.6	2.5	2.6	1.2	2.4	1.1	0.9	1.4	3.2	1.5	1.4	3.0
1968	2.8	1.7	2.6	2.0	2.7	1.0	0.6	0.7	1.4	1.0	3.4	1.9
1969	3.5	3.5	3.8	1.5	1.2	0.8	1.3	0.8	2.1	2.3	3.1	2.7
1970	2.0	2.0	2.1	2.6	1.7	1.3	0.9	1.9	1.1	2.8	2.8	2.3
1971	2.3	2.1	2.3	3.1	2.1	1.4	1.4	2.6	2.3	2.6	2.5	1.6
1972	1.4	3.3	2.4	1.7	2.5	2.3	0.9	1.2	2.5	2.8	2.3	2.4
1973	2.3	2.9	2.4	2.6	2.1	1.8	0.6	1.2	2.4	3.2	1.2	3.6
1974	2.0	2.2	3.4	1.8	1.8	2.3	0.4	1.5	1.3	1.0	2.1	3.8
1975	3.0	2.7	3.1	2.1	1.0	2.3	4.4	1.6	2.1	2.0	3.6	3.9

LARGEST HS(METRES) FOR STATION 65 = 5.0

STATION 66 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1629	4892	4561	2568	1507	1367	200	17	6	1	16748
0.50 - 0.99	.	296	2044	1358	564	463	42	11	.	13	4791
1.00 - 1.49	.	.	15	102	85	11	.	1	3	5	222
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1629	5188	6620	4028	2159	1841	242	29	9	19	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.77 ANGLE CLASS % = 21.8

STATION 66 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	616	1129			2623	5843	2659	229	227	222	13548
0.50 - 0.99	.	778	1728	261	78	1040	313	18	116	87	4419
1.00 - 1.49	.	.	164	638	366	347	90	15	1	8	1649
1.50 - 1.99	.	.	.	27	157	165	54	5	.	.	408
2.00 - 2.49	.	.	.	.	25	78	23	5	3	.	134
2.50 - 2.99	.	.	.	.	.	15	13	5	.	.	33
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	616	1907	1892	926	3269	7488	3153	277	347	317	

AVERAGE HS(M) = 0.48 LARGEST HS(M) = 3.02 ANGLE CLASS % = 20.2

STATION 66 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	319	462			684	586	1285	236	521	1649	5742
0.50 - 0.99	.	480	1040	97	54	971	797	715	833	3778	8765
1.00 - 1.49	.	.	136	568	111	260	282	200	400	867	2824
1.50 - 1.99	.	.	.	58	177	164	68	15	126	219	827
2.00 - 2.49	.	.	.	.	53	256	78	3	65	104	559
2.50 - 2.99	.	.	.	.	.	37	61	2	11	17	129
3.00 - 3.49	.	.	.	.	.	.	11	10	13	.	34
3.50 - 3.99	.	.	.	.	.	.	.	.	8	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	319	942	1176	723	1079	2274	2582	1182	1977	6639	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 4.84 ANGLE CLASS % = 18.9

STATION 66 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	458	884	23		648	1038	203	8	27	11	3300
0.50 - 0.99	.	470	1575	453	119	1105	361	20	47	30	4180
1.00 - 1.49	.	.	130	828	408	600	338	11	32	20	2367
1.50 - 1.99	.	.	.	23	318	720	285	19	32	17	1412
2.00 - 2.49	.	.	.	.	61	484	345	51	35	6	982
2.50 - 2.99	.	.	.	.	1	37	183	97	37	8	363
3.00 - 3.49	.	.	.	.	.	.	11	41	44	5	101
3.50 - 3.99	.	.	.	.	.	.	.	5	35	15	55
4.00 - 4.49	.	.	.	.	.	.	.	.	5	20	25
4.50 - 4.99	.	.	.	.	.	.	.	.	1	2	3
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	458	1354	1728	1304	1555	3984	1726	240	295	138	

AVERAGE HS(M) = 1.04 LARGEST HS(M) = 5.13 ANGLE CLASS % = 12.8

STATION 66 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	554	1666	2400	3153	2070	1225	106	1	.	.	11175
0.50 - 0.99	.	11	556	737	614	867	70	1	.	.	2856
1.00 - 1.49	.	.	3	25	177	547	68	.	.	.	840
1.50 - 1.99	.	.	.	.	25	111	35	.	.	.	171
2.00 - 2.49	.	.	.	.	.	8	6	.	.	.	14
2.50 - 2.99	.	.	.	.	.	.	1	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	554	1677	2959	3915	2886	2758	306	2	0	0	

AVERAGE HS(M) = 0.35 LARGEST HS(M) = 2.56 ANGLE CLASS % = 15.1

STATION 66 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

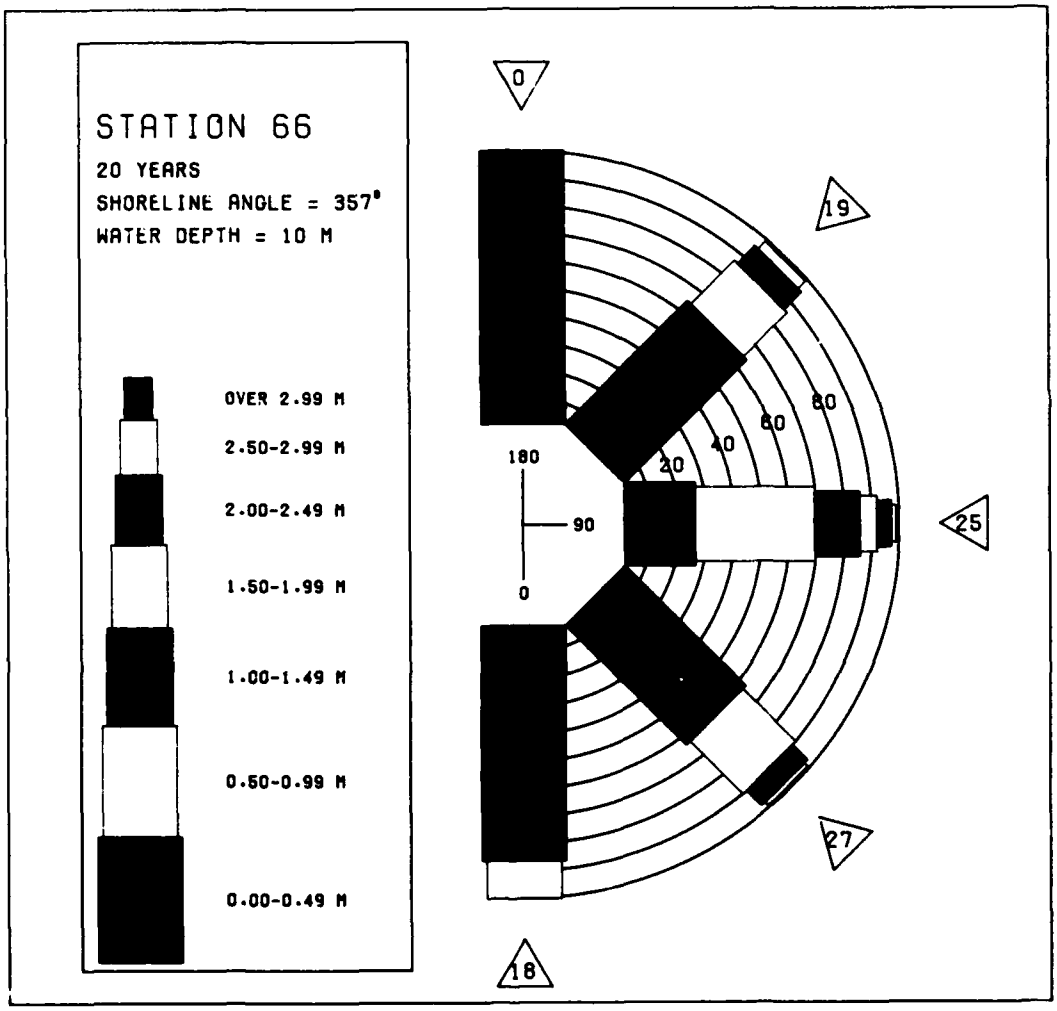
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 66 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	357	903	698	572	753	1006	445	49	78	188	5049
0.50 - 0.99	.	203	694	290	143	444	158	76	99	390	2497
1.00 - 1.49	.	.	45	216	117	176	80	22	43	90	789
1.50 - 1.99	.	.	.	10	68	116	44	3	15	23	279
2.00 - 2.49	.	.	.	.	14	82	45	5	10	11	167
2.50 - 2.99	.	.	.	.	.	9	26	9	4	2	50
3.00 - 3.49	.	.	.	.	.	.	2	5	5	.	12
3.50 - 3.99	.	.	.	.	.	.	.	.	4	1	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	2	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	357	1106	1437	1088	1095	1833	800	169	258	707	

AVE HS(M) = 0.50 LARGEST HS(M) = 5.13 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 66

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	1.0	0.5	0.5	0.4	0.4	0.5	0.4	0.7	1.3	0.9	0.4	0.7
1957	0.3	0.7	0.7	0.3	0.3	0.6	0.3	0.4	0.5	0.9	0.5	0.5	0.5
1958	0.3	0.2	0.7	0.7	0.5	0.3	0.3	0.5	0.4	1.3	1.2	1.0	0.6
1959	0.8	0.8	0.8	0.8	0.2	0.2	0.4	0.4	0.5	0.6	0.6	0.4	0.5
1960	0.3	0.6	0.5	0.4	0.6	0.9	0.5	0.5	0.6	0.5	0.4	0.2	0.5
1961	0.4	0.7	0.5	0.3	0.5	0.5	0.3	0.4	0.9	0.7	0.3	0.2	0.5
1962	0.5	0.6	0.7	0.5	0.4	0.4	0.4	0.4	0.4	0.5	1.0	0.8	0.6
1963	0.4	0.6	0.4	0.3	0.5	0.5	0.2	0.2	0.8	0.6	0.3	0.3	0.4
1964	0.5	0.4	0.4	0.6	0.5	0.3	0.5	0.4	0.9	0.5	0.3	0.4	0.5
1965	0.5	0.5	0.4	0.4	0.4	0.5	0.3	0.3	0.5	0.6	0.4	0.2	0.4
1966	0.5	0.3	0.4	0.4	0.3	0.6	0.5	0.3	0.7	0.4	0.5	0.5	0.5
1967	0.3	0.5	0.6	0.3	0.4	0.4	0.3	0.5	1.0	0.7	0.2	0.6	0.5
1968	0.5	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3
1969	0.6	0.8	0.8	0.6	0.3	0.4	0.3	0.4	0.8	0.8	0.5	0.4	0.6
1970	0.2	0.7	0.5	0.7	0.5	0.5	0.3	0.3	0.3	0.9	1.2	0.4	0.5
1971	0.3	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.7	1.1	0.6	0.5	0.5
1972	0.3	0.7	0.5	0.3	1.0	0.6	0.3	0.4	0.7	0.7	0.6	0.6	0.5
1973	0.4	0.8	0.7	0.4	0.5	0.5	0.5	0.3	0.3	0.6	0.2	0.7	0.5
1974	0.4	0.5	0.5	0.3	0.4	0.5	0.2	0.3	0.3	0.2	0.3	0.4	0.4
1975	0.6	0.5	0.5	0.3	0.3	0.3	0.9	0.9	0.8	0.9	0.8	0.8	0.6
MEAN	0.5	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.6	0.7	0.6	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 66

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	5.1	2.2	2.3	2.8	2.1	2.1	1.5	1.6	4.7	3.7	2.5	1.0
1957	1.3	2.5	2.8	1.9	1.4	1.7	1.2	2.2	1.9	4.0	2.0	2.1
1958	2.4	2.2	2.9	2.2	1.4	1.0	0.9	1.6	1.5	4.0	2.7	2.7
1959	1.7	1.7	2.4	2.3	1.1	0.9	1.2	1.5	1.3	2.6	1.9	2.1
1960	3.3	3.8	2.6	2.1	1.3	2.0	1.4	2.1	1.9	2.4	2.1	2.8
1961	2.7	3.3	2.5	2.5	2.3	1.3	0.7	1.3	3.7	2.2	2.0	2.0
1962	2.2	2.2	4.3	2.1	1.5	2.2	1.8	1.4	1.9	2.0	4.4	3.4
1963	1.2	2.9	2.2	2.5	1.5	2.3	1.0	0.9	2.6	3.0	2.7	2.2
1964	3.4	2.5	2.6	2.0	2.1	1.0	2.4	1.8	2.8	2.1	1.8	1.5
1965	3.1	2.1	1.8	1.2	1.0	2.6	1.1	1.0	1.8	2.3	1.8	1.4
1966	2.5	1.6	1.6	2.4	0.9	2.8	2.0	1.3	2.6	1.8	1.9	2.5
1967	1.6	2.3	2.5	1.8	2.4	1.4	1.0	1.5	2.7	1.6	1.5	3.2
1968	2.9	2.4	2.1	1.9	2.3	0.7	0.6	0.9	1.2	1.1	2.6	1.7
1969	3.6	2.6	3.7	1.5	1.3	1.0	1.2	1.1	2.4	2.6	3.0	2.3
1970	2.0	2.3	2.0	2.5	1.7	2.2	1.1	2.1	0.9	3.3	2.7	2.2
1971	2.2	2.3	2.4	2.6	2.3	1.2	2.0	2.7	2.8	2.7	2.1	2.0
1972	1.4	3.0	2.0	1.4	3.2	2.4	1.0	1.5	2.6	2.5	2.2	2.5
1973	2.5	2.7	2.7	2.7	2.1	1.9	0.9	1.0	2.0	2.9	1.4	3.8
1974	1.9	2.2	3.7	1.5	1.8	2.1	0.7	1.6	1.3	1.8	1.8	3.5
1975	3.4	2.4	3.1	2.0	1.1	2.0	3.6	1.0	1.5	2.0	3.6	3.1

LARGEST HS(METRES) FOR STATION 66 = 5.1

STATION 67 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1283	4070	3311	1817	675	660	189	8	23	.	12036
0.50 - 0.99	.	431	2763	1869	663	386	29	.	.	.	6141
1.00 - 1.49	.	.	18	133	95	13	.	.	.	.	259
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1283	4501	6092	3839	1439	1059	218	8	23	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 1.73 ANGLE CLASS % = 18.5

STATION 67 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	597	1095	.	.	3174	6093	2577	261	186	135	14118
0.50 - 0.99	.	949	1885	290	179	2067	1943	47	280	124	7764
1.00 - 1.49	.	.	174	790	491	651	330	41	42	80	2599
1.50 - 1.99	.	.	.	27	234	314	97	18	6	8	704
2.00 - 2.49	.	.	.	.	30	73	46	11	3	1	164
2.50 - 2.99	.	.	.	.	.	6	11	5	3	3	28
3.00 - 3.49	.	.	.	.	.	.	5	3	.	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	597	2044	2059	1107	4108	9204	5009	386	520	351	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 3.34 ANGLE CLASS % = 25.4

STATION 67 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	326	485	.	.	922	2624	999	88	160	1035	6639
0.50 - 0.99	.	530	982	42	68	1132	231	220	126	1300	4631
1.00 - 1.49	.	.	148	444	80	145	95	56	.	458	1426
1.50 - 1.99	.	.	.	51	130	99	25	.	.	104	409
2.00 - 2.49	.	.	.	.	39	157	22	.	.	65	283
2.50 - 2.99	.	.	.	.	.	39	23	3	.	8	73
3.00 - 3.49	.	.	.	.	.	.	8	6	3	1	18
3.50 - 3.99	.	.	.	.	.	.	.	.	5	.	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	326	1015	1130	537	1239	4196	1403	373	294	2971	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.66 ANGLE CLASS % = 13.5

STATION 67 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	338	545			735	1076	386	118	340	593	4131
0.50 - 0.99	.	532	1242	124	63	1326	807	501	732	2357	7684
1.00 - 1.49	.	.	172	793	136	379	385	152	436	436	2889
1.50 - 1.99	.	.	.	49	285	330	138	23	167	118	1110
2.00 - 2.49	.	.	.	.	65	465	241	35	94	54	954
2.50 - 2.99	.	.	.	.	1	58	167	65	41	13	345
3.00 - 3.49	.	.	.	.	.	.	17	42	56	5	120
3.50 - 3.99	.	.	.	.	.	.	.	1	25	11	37
4.00 - 4.49	.	.	.	.	.	.	.	.	1	20	21
4.50 - 4.99	.	.	.	.	.	.	.	.	1	8	9
5.00 - GREATER	.	.	.	.	.	.	.	.	.	3	3
TOTAL	338	1077	1414	966	1285	3634	2141	937	1893	3618	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 5.04 ANGLE CLASS % = 17.3

STATION 67 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	436	1235	713	518	1358	1630	138	3	.	.	6031
0.50 - 0.99	.	297	1683	1119	682	1504	275	8	.	.	5568
1.00 - 1.49	.	.	88	574	532	977	258	3	.	.	2432
1.50 - 1.99	.	.	.	11	166	580	213	3	.	.	993
2.00 - 2.49	.	.	.	.	29	128	159	44	1	.	361
2.50 - 2.99	.	.	.	.	1	5	15	3	6	.	30
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	436	1532	2484	2222	2788	4824	1058	64	7	0	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 2.80 ANGLE CLASS % = 15.4

STATION 67 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

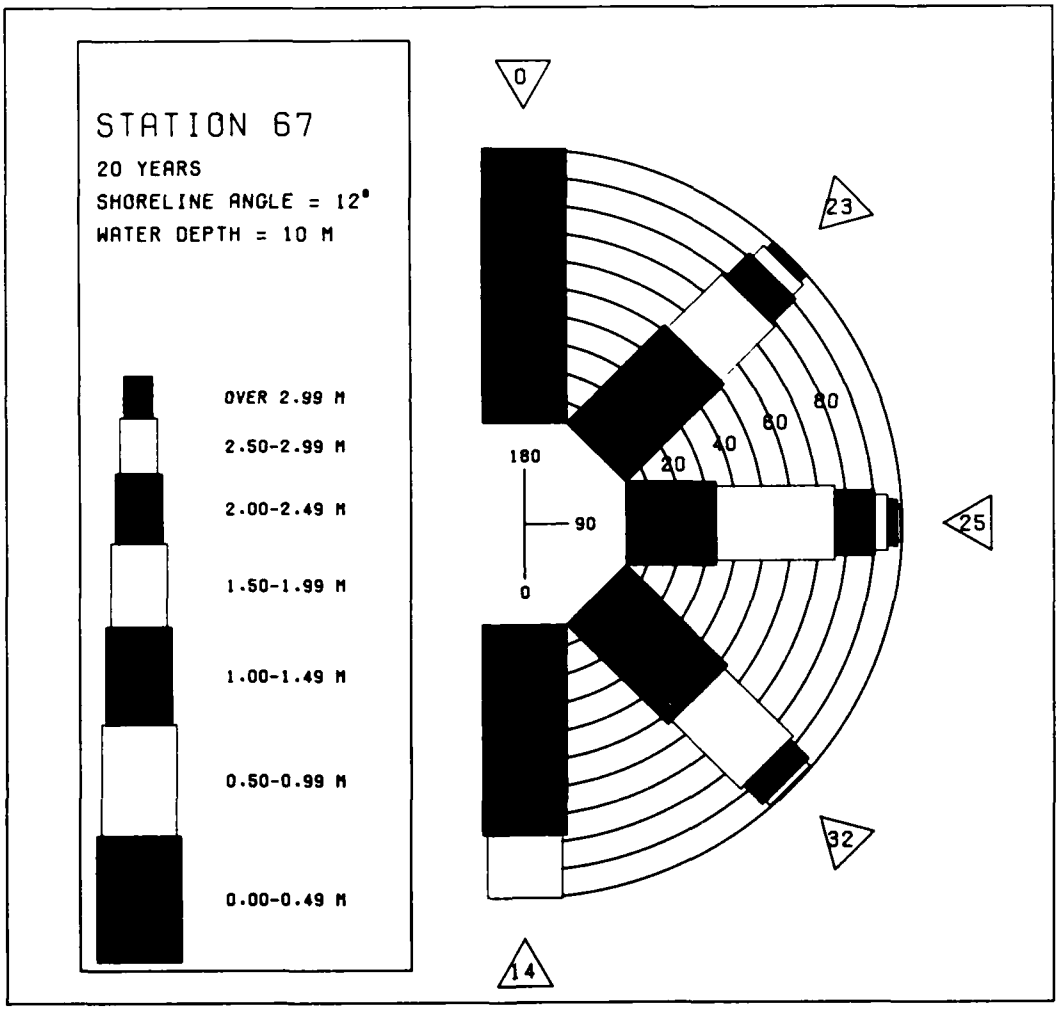
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	208	658	1240	2156	605	.	.	.	.	.	4867
0.50 - 0.99	.	.	5	.	.	.	.	.	.	.	5
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	208	658	1245	2156	605	0	0	0	0	0	

AVERAGE HS(M) = 0.09 LARGEST HS(M) = 0.56 ANGLE CLASS % = 4.9

STATION 67 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	319	809	526	449	747	1208	429	48	71	176	4782
0.50 - 0.99	.	274	856	346	165	641	328	77	113	378	3178
1.00 - 1.49	.	.	60	273	133	216	106	25	47	97	957
1.50 - 1.99	.	.	.	14	84	132	47	4	17	23	321
2.00 - 2.49	.	.	.	.	16	82	46	9	9	12	174
2.50 - 2.99	.	.	.	.	.	10	21	7	5	2	45
3.00 - 3.49	.	.	.	.	.	.	3	5	5	.	13
3.50 - 3.99	.	.	.	.	.	.	.	.	3	1	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	2	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	319	1083	1442	1082	1145	2289	980	175	270	691	

AVE HS(M) = 0.59 LARGEST HS(M) = 5.04 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 67

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	1.1	0.7	0.6	0.5	0.5	0.7	0.5	0.7	1.3	0.9	0.5	0.8
1957	0.4	0.8	0.7	0.4	0.4	0.6	0.4	0.5	0.6	0.9	0.7	0.7	0.6
1958	0.4	0.3	0.7	0.8	0.5	0.4	0.4	0.6	0.5	1.3	1.2	1.0	0.7
1959	0.8	0.9	0.9	0.9	0.3	0.3	0.5	0.5	0.5	0.7	0.7	0.5	0.6
1960	0.4	0.7	0.6	0.6	0.7	0.9	0.5	0.6	0.7	0.6	0.5	0.3	0.6
1961	0.4	0.8	0.6	0.5	0.6	0.6	0.4	0.5	0.9	0.7	0.3	0.3	0.6
1962	0.6	0.7	0.8	0.6	0.4	0.5	0.5	0.5	0.4	0.5	1.0	0.9	0.6
1963	0.5	0.7	0.5	0.4	0.6	0.6	0.3	0.3	0.8	0.6	0.4	0.3	0.5
1964	0.6	0.5	0.6	0.8	0.6	0.4	0.6	0.5	0.9	0.6	0.4	0.6	0.6
1965	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.6	0.4	0.3	0.5
1966	0.5	0.4	0.5	0.5	0.4	0.6	0.6	0.5	0.7	0.5	0.6	0.5	0.5
1967	0.4	0.6	0.7	0.4	0.5	0.5	0.5	0.6	1.0	0.8	0.3	0.7	0.6
1968	0.5	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.5	0.4	0.4
1969	0.7	0.8	0.8	0.7	0.4	0.4	0.4	0.5	0.8	0.8	0.6	0.5	0.6
1970	0.3	0.9	0.6	0.8	0.6	0.6	0.4	0.4	0.4	0.9	1.2	0.5	0.6
1971	0.4	0.6	0.5	0.4	0.6	0.4	0.6	0.6	0.8	1.2	0.6	0.6	0.6
1972	0.5	0.8	0.6	0.5	1.0	0.7	0.4	0.5	0.7	0.8	0.6	0.7	0.7
1973	0.5	0.9	0.8	0.6	0.6	0.6	0.5	0.4	0.4	0.6	0.3	0.9	0.6
1974	0.5	0.6	0.7	0.6	0.5	0.5	0.2	0.3	0.4	0.3	0.3	0.5	0.5
1975	0.7	0.5	0.7	0.4	0.3	0.3	1.0	0.8	0.8	0.9	0.9	0.9	0.7
MEAN	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 67

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	5.0	2.2	2.3	2.7	2.0	2.1	1.5	1.6	4.6	3.6	2.3	1.1
1957	1.4	2.5	2.7	2.0	1.6	1.8	1.2	2.2	1.9	3.9	1.9	2.2
1958	2.5	2.2	2.8	2.2	1.6	1.1	0.9	1.6	1.5	4.0	2.8	2.7
1959	2.0	1.7	2.7	2.2	1.2	0.9	1.3	1.6	1.4	2.6	1.9	2.0
1960	3.0	3.5	2.5	2.1	1.4	2.0	1.6	2.1	1.9	2.5	1.9	2.8
1961	2.5	3.5	2.5	2.5	2.3	1.6	0.9	1.2	3.5	2.3	2.0	2.0
1962	2.1	2.0	4.1	2.1	1.6	2.2	1.7	1.4	1.9	2.1	4.3	3.0
1963	1.3	2.9	2.2	2.5	1.9	2.3	1.0	1.3	2.6	2.9	2.7	2.2
1964	2.9	2.4	2.3	1.9	2.1	1.2	2.4	1.8	2.8	2.1	2.0	1.6
1965	2.8	2.1	1.8	1.2	1.1	2.6	1.1	1.2	1.8	2.3	1.8	1.6
1966	2.5	1.7	1.8	2.4	1.3	2.9	1.9	1.5	2.6	2.0	2.0	2.4
1967	1.6	2.2	2.3	1.9	2.5	1.4	1.3	1.6	2.6	1.6	1.5	3.2
1968	2.9	2.5	2.1	2.1	2.3	0.8	0.7	1.0	1.2	1.3	2.6	2.2
1969	3.5	2.6	3.6	1.7	1.3	1.2	1.4	1.4	2.3	2.5	3.0	2.4
1970	2.0	2.7	2.0	2.4	1.7	2.2	1.1	2.1	1.0	3.1	2.6	2.3
1971	2.3	2.6	2.3	2.6	2.3	1.2	1.9	3.0	2.8	2.7	2.2	1.9
1972	1.8	3.0	2.2	1.5	3.2	2.5	1.3	1.5	2.4	2.4	2.3	2.5
1973	2.5	2.7	2.4	2.7	2.0	1.9	1.0	1.1	2.1	3.1	1.6	3.8
1974	1.8	2.4	3.5	1.9	2.0	2.0	0.7	1.5	1.5	1.9	1.7	3.6
1975	3.2	2.4	3.1	1.8	1.1	2.2	3.2	1.0	1.5	1.9	3.4	3.0

LARGEST HS(METRES) FOR STATION 67 = 5.0

STATION 68 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 27.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1083	3499	2556	1386	376	198	8	.	.	.	9106
0.50 - 0.99	.	573	3198	2132	590	205	.	.	.	.	6698
1.00 - 1.49	.	.	30	277	154	30	.	.	.	.	491
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1083	4072	5784	3795	1126	433	8	0	0	0	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 1.58 ANGLE CLASS % = 16.3

STATION 68 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 27.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	580	1026	.	.	3001	6086	2707	296	107	3	13806
0.50 - 0.99	.	1081	2245	441	290	3690	2477	118	87	.	10429
1.00 - 1.49	.	.	212	956	607	1276	783	22	29	.	3885
1.50 - 1.99	.	.	.	39	282	513	278	34	11	.	1157
2.00 - 2.49	.	.	.	.	46	147	99	30	11	1	334
2.50 - 2.99	.	.	.	.	.	8	17	8	6	1	40
3.00 - 3.49	.	.	.	.	.	.	1	1	3	3	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	580	2107	2457	1436	4226	11720	6362	509	254	8	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 3.27 ANGLE CLASS % = 29.7

STATION 68 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 27.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	321	566	.	.	894	2243	408	.	88	1036	5556
0.50 - 0.99	.	638	1054	37	53	1043	140	1	188	335	3489
1.00 - 1.49	.	.	169	489	73	111	44	.	118	66	1070
1.50 - 1.99	.	.	.	46	148	42	8	.	5	42	291
2.00 - 2.49	.	.	.	.	29	124	11	.	.	3	167
2.50 - 2.99	.	.	.	.	.	34	27	1	.	.	62
3.00 - 3.49	.	.	.	.	.	.	13	8	3	.	24
3.50 - 3.99	.	.	.	.	.	.	.	.	3	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	321	1204	1223	572	1197	3597	651	10	405	1482	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 3.58 ANGLE CLASS % = 10.7

STATION 68 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 27.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	330	465			501	533	752	183	467	566	3797
0.50 - 0.99	.	631	1221	71	42	953	799	693	829	3497	8736
1.00 - 1.49	.	.	201	679	126	321	326	203	407	865	3128
1.50 - 1.99	.	.	.	58	231	232	112	18	147	201	999
2.00 - 2.49	.	.	.	.	61	335	152	15	68	114	745
2.50 - 2.99	.	.	.	.	.	41	88	27	34	18	208
3.00 - 3.49	.	.	.	.	.	.	5	23	42	8	78
3.50 - 3.99	.	.	.	.	.	.	.	.	17	23	40
4.00 - 4.49	.	.	.	.	.	.	.	.	1	10	11
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	330	1096	1422	808	961	2415	2234	1162	2012	5307	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 4.67 ANGLE CLASS % = 17.8

STATION 68 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 27.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	282	523	1		535	1382	217	6	8	.	2954
0.50 - 0.99	.	518	1341	501	236	1466	480	13	10	.	4565
1.00 - 1.49	.	.	164	805	566	872	309	8	17	.	2741
1.50 - 1.99	.	.	.	25	244	586	239	30	29	.	1153
2.00 - 2.49	.	.	.	.	39	200	213	75	17	.	544
2.50 - 2.99	.	.	.	.	1	6	35	25	13	.	80
3.00 - 3.49	.	.	.	.	.	.	.	3	1	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	282	1041	1506	1331	1621	4512	1493	160	95	0	

AVERAGE HS(M) = 0.92 LARGEST HS(M) = 3.13 ANGLE CLASS % = 12.1

STATION 68 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 27.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

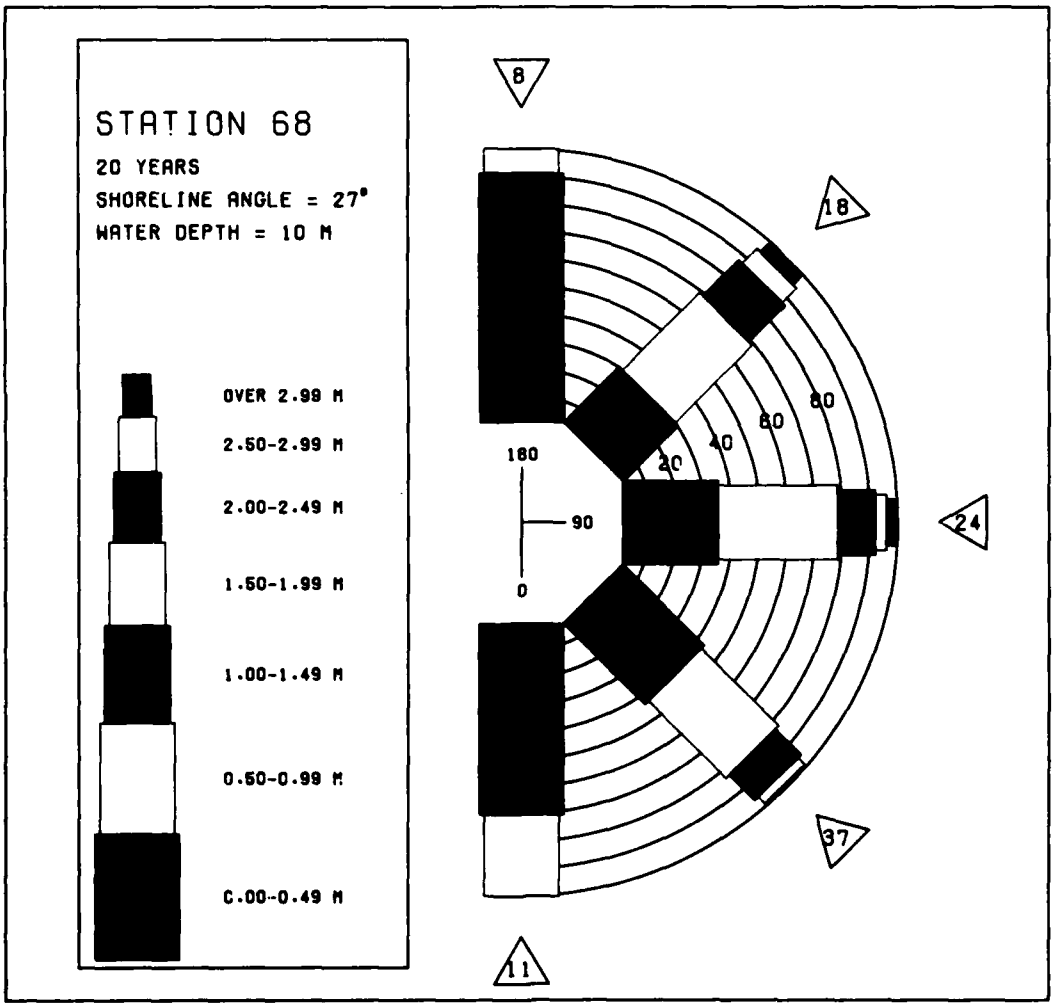
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	451	1445	1798	2304	1747	1014	.	.	.	.	8759
0.50 - 0.99	.	88	982	824	446	287	.	.	.	.	2627
1.00 - 1.49	.	.	6	39	94	6	.	.	.	.	145
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	451	1533	2786	3167	2287	1307	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.40 ANGLE CLASS % = 11.5

STATION 68 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 27.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	304	752	435	369	705	1145	409	48	67	160	4394
0.50 - 0.99	.	353	1004	400	165	764	389	82	111	383	3651
1.00 - 1.49	.	.	78	324	162	261	146	24	57	93	1144
1.50 - 1.99	.	.	.	16	91	137	63	8	19	24	358
2.00 - 2.49	.	.	.	.	17	80	47	12	9	11	176
2.50 - 2.99	.	.	.	.	.	9	16	6	5	2	38
3.00 - 3.49	.	.	.	.	.	.	2	3	5	1	11
3.50 - 3.99	.	.	.	.	.	.	.	.	2	2	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	304	1105	1517	1109	1140	2396	1072	182	275	677	

AVE HS(M) = 0.64 LARGEST HS(M) = 4.67 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 68

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	1.1	0.7	0.7	0.5	0.6	0.8	0.6	0.7	1.3	1.0	0.5	0.8
1957	0.4	0.8	0.7	0.5	0.5	0.6	0.5	0.6	0.6	0.9	0.7	0.8	0.6
1958	0.5	0.4	0.7	0.8	0.6	0.5	0.5	0.7	0.5	1.3	1.2	1.0	0.7
1959	0.9	0.9	0.9	0.9	0.4	0.3	0.5	0.5	0.5	0.8	0.7	0.5	0.7
1960	0.5	0.8	0.6	0.8	0.7	0.9	0.5	0.6	0.7	0.6	0.5	0.4	0.6
1961	0.4	0.8	0.6	0.7	0.6	0.7	0.5	0.6	0.9	0.7	0.4	0.5	0.6
1962	0.7	0.7	0.8	0.7	0.5	0.5	0.6	0.6	0.4	0.5	1.1	0.9	0.7
1963	0.6	0.7	0.7	0.5	0.6	0.7	0.4	0.4	0.8	0.6	0.5	0.4	0.6
1964	0.7	0.5	0.7	0.9	0.6	0.5	0.7	0.5	0.8	0.6	0.5	0.7	0.6
1965	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.7	0.5	0.3	0.6
1966	0.5	0.5	0.6	0.5	0.5	0.7	0.6	0.6	0.8	0.5	0.6	0.5	0.6
1967	0.5	0.7	0.9	0.5	0.6	0.5	0.6	0.7	1.0	0.8	0.4	0.8	0.7
1968	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4
1969	0.7	0.8	0.8	0.7	0.5	0.5	0.4	0.6	0.8	0.8	0.6	0.6	0.7
1970	0.3	1.1	0.7	0.8	0.6	0.6	0.5	0.5	0.5	0.9	1.1	0.6	0.7
1971	0.5	0.8	0.6	0.5	0.7	0.5	0.7	0.7	0.8	1.2	0.7	0.7	0.7
1972	0.6	0.8	0.7	0.6	1.1	0.8	0.5	0.6	0.7	0.8	0.7	0.7	0.7
1973	0.6	0.9	0.9	0.7	0.7	0.7	0.6	0.4	0.4	0.6	0.5	1.1	0.7
1974	0.6	0.7	0.8	0.7	0.5	0.6	0.3	0.3	0.4	0.3	0.4	0.6	0.5
1975	0.7	0.6	0.7	0.5	0.3	0.4	1.0	0.8	0.8	0.9	0.9	0.9	0.7
MEAN	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.8	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 68

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.7	2.2	2.4	2.6	2.0	2.1	1.6	1.2	4.3	3.4	2.2	1.3
1957	1.2	2.4	2.6	2.2	1.7	1.6	1.1	2.1	1.9	3.8	2.1	2.4
1958	2.6	2.3	2.7	2.2	1.8	1.3	1.2	1.9	1.5	4.0	2.8	2.5
1959	2.4	1.7	2.7	2.1	1.6	0.9	1.4	1.6	1.4	2.5	1.9	2.0
1960	2.9	3.3	2.4	2.3	1.5	1.9	1.8	2.0	2.0	2.1	1.9	2.7
1961	2.2	3.5	2.4	2.5	2.3	1.7	1.0	1.5	3.3	2.1	2.0	2.0
1962	2.0	1.7	3.4	2.5	1.8	2.2	1.7	1.4	1.7	1.9	4.0	3.0
1963	1.5	2.8	2.3	2.5	2.1	2.3	1.0	1.6	2.4	2.7	2.7	2.2
1964	2.8	2.5	2.2	1.8	2.0	1.2	2.3	1.7	2.6	2.0	1.8	2.0
1965	2.7	2.2	1.8	1.5	1.1	2.5	1.2	1.3	1.7	2.3	1.7	1.7
1966	2.7	2.3	1.8	2.3	1.4	2.8	1.8	1.6	2.6	1.9	2.0	2.4
1967	1.8	2.2	2.0	1.8	2.1	1.4	1.5	1.6	2.6	1.6	1.5	3.1
1968	2.9	2.3	2.5	2.1	2.2	0.9	0.7	1.0	1.2	1.3	2.5	2.5
1969	3.1	2.4	3.4	1.8	1.7	1.3	1.5	1.6	2.2	2.2	3.0	2.6
1970	1.8	3.3	2.0	2.4	2.0	2.2	1.3	1.9	1.3	2.9	2.5	2.4
1971	2.5	2.8	2.3	2.6	2.2	1.1	1.9	3.1	2.6	2.5	2.4	1.8
1972	2.0	3.1	2.4	1.5	3.1	2.5	1.5	1.6	2.3	2.4	2.3	2.5
1973	2.6	2.9	2.3	2.7	1.9	1.9	1.2	1.4	2.2	3.1	2.3	3.7
1974	1.8	2.8	3.3	2.3	2.1	2.0	0.7	1.2	1.4	1.6	1.3	3.6
1975	3.1	2.4	3.1	1.7	1.1	1.9	3.0	0.9	1.5	2.0	3.2	2.8

LARGEST HS(METRES) FOR STATION 68 = 4.7

STATION 69 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 26.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1072	3528	2577	1379	378	224	11	.	.	.	9169
0.50 - 0.99	.	573	3228	2142	607	229	3	.	.	.	6782
1.00 - 1.49	.	.	30	261	167	25	.	.	.	.	483
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1072	4101	5835	3782	1158	478	14	0	0	0	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 1.85 ANGLE CLASS % = 16.4

STATION 69 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 26.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	559	1011	.	.	2979	6105	2725	301	107	3	13790
0.50 - 0.99	.	1062	2168	415	294	3641	2467	112	92	.	10251
1.00 - 1.49	.	.	196	927	576	1261	775	22	29	.	3786
1.50 - 1.99	.	.	.	39	278	501	275	32	11	7	1144
2.00 - 2.49	.	.	.	.	46	142	102	30	11	3	334
2.50 - 2.99	.	.	.	.	.	8	17	8	6	1	40
3.00 - 3.49	.	.	.	.	.	.	1	1	3	3	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	559	2073	2364	1381	4173	11658	6362	508	259	16	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.27 ANGLE CLASS % = 29.4

STATION 69 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 26.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	333	550	.	.	903	2294	441	.	88	1031	5640
0.50 - 0.99	.	641	1047	34	51	1052	154	1	183	335	3498
1.00 - 1.49	.	.	177	485	71	114	44	.	118	65	1074
1.50 - 1.99	.	.	.	44	147	46	8	.	5	35	285
2.00 - 2.49	.	.	.	.	30	121	6	.	.	1	158
2.50 - 2.99	.	.	.	.	.	35	25	1	.	.	61
3.00 - 3.49	.	.	.	.	.	.	13	8	3	.	24
3.50 - 3.99	.	.	.	.	.	.	.	.	3	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	333	1191	1224	563	1202	3662	691	10	400	1467	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 3.58 ANGLE CLASS % = 10.8

STATION 69 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 26.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	323	455			496	533	723	186	467	581	3764
0.50 - 0.99	.	631	1201	73	44	947	790	687	826	3497	8696
1.00 - 1.49	.	.	196	682	114	316	333	205	410	660	3116
1.50 - 1.99	.	.	.	63	225	237	114	20	147	201	1007
2.00 - 2.49	.	.	.	.	59	342	154	13	73	116	757
2.50 - 2.99	.	.	.	.	.	39	94	22	30	18	203
3.00 - 3.49	.	.	.	.	.	.	6	23	44	8	81
3.50 - 3.99	.	.	.	.	.	.	.	.	18	18	36
4.00 - 4.49	.	.	.	.	.	.	.	.	1	11	12
4.50 - 4.99	.	.	.	.	.	.	.	.	.	8	8
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	323	1086	1397	818	938	2414	2214	1156	2016	5318	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 4.90 ANGLE CLASS % = 17.7

STATION 69 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 26.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	282	528	3		545	1374	215	6	8	.	2961
0.50 - 0.99	.	509	1360	508	224	1476	467	13	10	.	4567
1.00 - 1.49	.	.	167	819	595	893	308	8	15	.	2805
1.50 - 1.99	.	.	.	23	256	597	239	25	29	1	1170
2.00 - 2.49	.	.	.	.	41	205	222	78	17	.	563
2.50 - 2.99	.	.	.	.	1	8	30	32	15	.	86
3.00 - 3.49	.	.	.	.	.	.	.	5	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	282	1037	1530	1350	1662	4553	1481	167	94	1	

AVERAGE HS(M) = 0.92 LARGEST HS(M) = 3.14 ANGLE CLASS % = 12.2

STATION 69 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 26.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

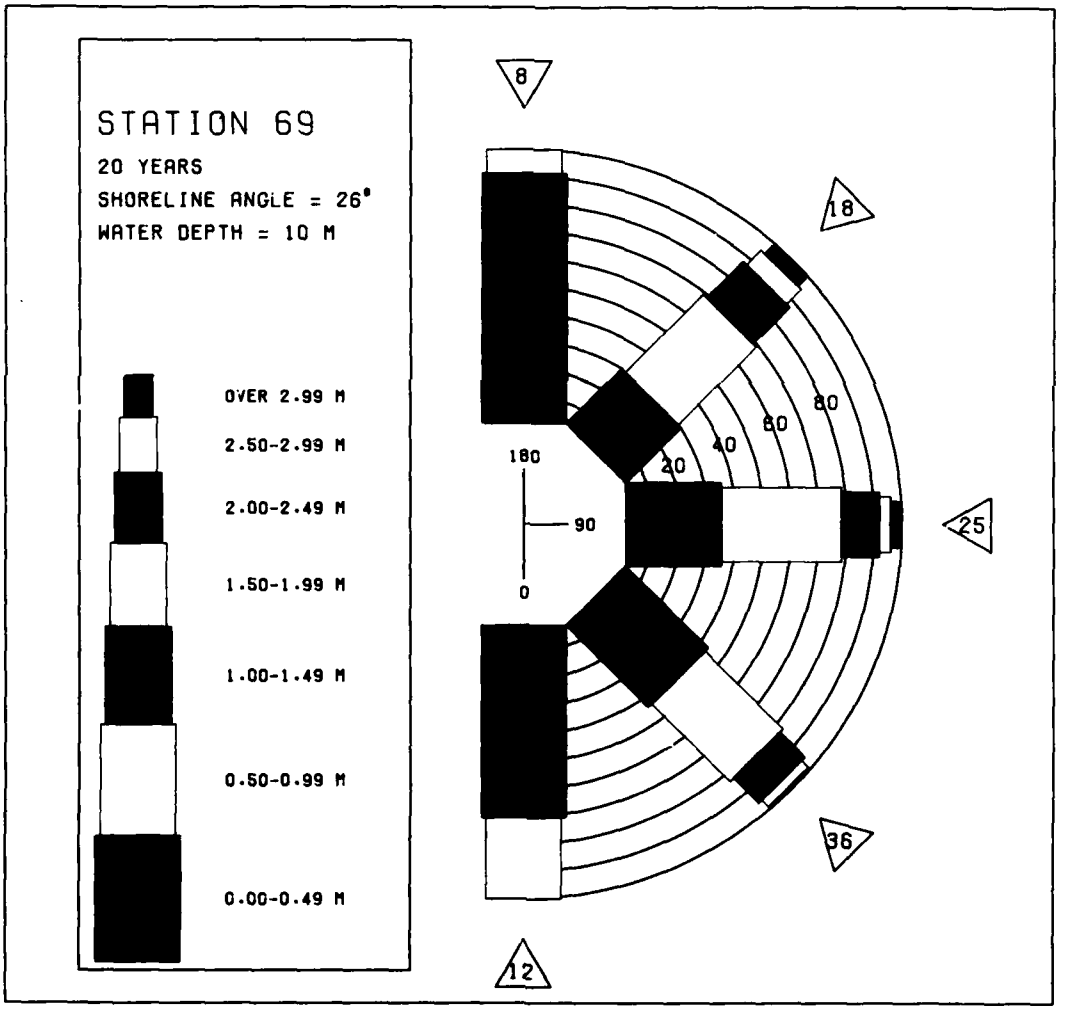
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	463	1447	1825	2366	1728	992	.	.	.	.	8821
0.50 - 0.99	.	87	973	828	484	290	.	.	.	.	2662
1.00 - 1.49	.	.	6	41	90	6	.	.	.	.	143
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	463	1534	2804	3235	2302	1288	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.40 ANGLE CLASS % = 11.6

STATION 69 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 26.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	303	752	440	374	703	1152	411	49	67	161	4412
0.50 - 0.99	.	350	997	400	170	763	388	81	111	383	3643
1.00 - 1.49	.	.	77	321	161	261	146	23	57	92	1138
1.50 - 1.99	.	.	.	17	91	138	63	8	19	24	360
2.00 - 2.49	.	.	.	.	17	81	48	12	10	12	180
2.50 - 2.99	.	.	.	.	.	9	16	6	5	2	38
3.00 - 3.49	.	.	.	.	.	.	2	3	5	1	11
3.50 - 3.99	.	.	.	.	.	.	.	.	2	1	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	303	1102	1514	1112	1142	2404	1074	182	276	677	

AVE HS(M) = 0.64 LARGEST HS(M) = 4.90 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 69

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	1.1	0.7	0.7	0.5	0.6	0.8	0.6	0.7	1.3	1.0	0.5	0.8
1957	0.4	0.8	0.7	0.5	0.5	0.6	0.5	0.6	0.6	0.9	0.7	0.8	0.6
1958	0.5	0.4	0.7	0.8	0.6	0.4	0.5	0.7	0.5	1.3	1.2	1.0	0.7
1959	0.9	0.9	0.9	0.9	0.4	0.3	0.5	0.5	0.5	0.8	0.7	0.5	0.7
1960	0.5	0.8	0.6	0.8	0.7	0.9	0.5	0.6	0.7	0.6	0.5	0.4	0.6
1961	0.4	0.9	0.6	0.7	0.6	0.7	0.5	0.6	0.9	0.7	0.4	0.5	0.6
1962	0.7	0.7	0.8	0.7	0.5	0.5	0.6	0.6	0.4	0.5	1.1	0.9	0.7
1963	0.6	0.7	0.7	0.5	0.6	0.7	0.4	0.4	0.8	0.6	0.5	0.4	0.6
1964	0.7	0.5	0.7	0.9	0.6	0.5	0.7	0.5	0.8	0.6	0.5	0.7	0.6
1965	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.7	0.5	0.3	0.6
1966	0.6	0.5	0.6	0.5	0.5	0.7	0.6	0.6	0.8	0.5	0.6	0.5	0.6
1967	0.5	0.7	0.9	0.5	0.6	0.5	0.6	0.7	1.0	0.8	0.4	0.8	0.7
1968	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4
1969	0.7	0.8	0.8	0.7	0.5	0.5	0.4	0.6	0.8	0.8	0.6	0.6	0.7
1970	0.3	1.1	0.7	0.8	0.6	0.6	0.5	0.5	0.5	0.9	1.1	0.6	0.7
1971	0.5	0.8	0.6	0.5	0.7	0.5	0.7	0.7	0.8	1.2	0.7	0.7	0.7
1972	0.6	0.8	0.7	0.6	1.1	0.8	0.5	0.6	0.7	0.8	0.7	0.7	0.7
1973	0.6	0.9	0.9	0.7	0.7	0.7	0.6	0.4	0.4	0.6	0.5	1.1	0.7
1974	0.6	0.7	0.8	0.7	0.5	0.6	0.3	0.3	0.4	0.3	0.4	0.6	0.5
1975	0.7	0.6	0.7	0.5	0.3	0.4	1.0	0.8	0.8	0.9	0.9	0.9	0.7
MEAN	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.8	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 69

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.9	2.2	2.4	2.6	2.0	2.1	1.6	1.3	4.3	3.5	2.2	1.3
1957	1.3	2.4	2.6	2.2	1.7	1.6	1.2	2.1	1.9	3.8	2.1	2.4
1958	2.6	2.3	2.7	2.2	1.8	1.3	1.2	1.9	1.5	4.0	2.8	2.5
1959	2.4	1.7	2.7	2.1	1.6	0.9	1.4	1.6	1.4	2.5	1.9	2.0
1960	2.9	3.3	2.4	2.3	1.5	1.9	1.8	2.0	2.0	2.1	1.9	2.7
1961	2.2	3.5	2.4	2.5	2.3	1.7	1.0	1.5	3.3	2.1	2.0	2.0
1962	2.0	1.8	3.4	2.5	1.8	2.2	1.7	1.4	1.7	1.9	4.1	3.0
1963	1.5	2.8	2.3	2.5	2.1	2.3	1.0	1.6	2.4	2.7	2.7	2.2
1964	2.8	2.5	2.2	1.8	2.0	1.2	2.3	1.7	2.6	2.0	1.8	2.0
1965	2.7	2.2	1.8	1.5	1.1	2.5	1.2	1.3	1.7	2.3	1.7	1.7
1966	2.7	2.3	1.8	2.3	1.4	2.8	1.8	1.6	2.6	1.8	2.0	2.4
1967	1.8	2.2	2.0	1.8	2.1	1.4	1.5	1.6	2.6	1.6	1.5	3.1
1968	2.9	2.3	2.5	2.1	2.2	0.9	0.7	1.0	1.2	1.3	2.5	2.5
1969	3.2	2.4	3.4	1.8	1.7	1.3	1.5	1.6	2.2	2.2	3.0	2.6
1970	1.8	3.3	2.0	2.4	2.0	2.2	1.3	1.9	1.3	2.9	2.5	2.4
1971	2.5	2.8	2.3	2.6	2.2	1.1	1.9	3.1	2.7	2.5	2.4	1.8
1972	2.0	3.1	2.4	1.5	3.1	2.5	1.5	1.6	2.3	2.4	2.3	2.5
1973	2.6	2.9	2.3	2.7	1.9	1.9	1.1	1.4	2.2	3.1	2.3	3.7
1974	1.8	2.8	3.3	2.3	2.1	2.0	0.7	1.2	1.4	1.6	1.3	3.6
1975	3.1	2.4	3.1	1.7	1.1	1.9	3.0	0.9	1.5	2.0	3.2	2.8

LARGEST HS(METRES) FOR STATION 69 = 4.9

STATION 70 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1055	3400	2275	1297	381	195	8	.	.	.	8611
0.50 - 0.99	.	614	3403	2104	497	172	8	.	.	.	6798
1.00 - 1.49	.	.	41	284	164	18	.	.	.	.	507
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1055	4014	5719	3685	1048	385	16	0	0	0	

AVERAGE HS(M) = 0.48 LARGEST HS(M) = 1.85 ANGLE CLASS % = 15.9

STATION 70 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	592	1043	.	.	2972	5513	1420	145	83	3	11771
0.50 - 0.99	.	1153	2544	588	347	4164	1261	71	59	.	10187
1.00 - 1.49	.	.	229	1165	708	1459	771	18	37	.	4387
1.50 - 1.99	.	.	.	46	313	682	379	17	3	.	1440
2.00 - 2.49	.	.	.	.	58	205	145	41	3	.	452
2.50 - 2.99	.	.	.	.	.	13	27	18	1	.	59
3.00 - 3.49	.	.	.	.	.	.	1	.	3	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	592	2196	2773	1799	4398	12036	4004	310	189	3	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 3.29 ANGLE CLASS % = 28.3

STATION 70 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	340	528	.	.	766	2173	1271	145	83	997	6303
0.50 - 0.99	.	679	1038	34	44	1035	1380	65	220	292	4787
1.00 - 1.49	.	.	172	477	90	99	121	.	155	68	1182
1.50 - 1.99	.	.	.	47	165	22	6	.	15	59	314
2.00 - 2.49	.	.	.	.	29	123	11	.	6	6	175
2.50 - 2.99	.	.	.	.	.	34	32	3	6	3	78
3.00 - 3.49	.	.	.	.	.	.	11	10	5	1	27
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	340	1207	1210	558	1094	3486	2832	223	491	1427	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.65 ANGLE CLASS % = 12.9

STATION 70 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	359	540			506	480	905	205	453	595	4043
0.50 - 0.99	.	706	1329	73	37	770	809	698	846	3540	8810
1.00 - 1.49	.	.	201	669	119	234	246	167	343	809	2788
1.50 - 1.99	.	.	.	77	213	200	85	18	142	186	921
2.00 - 2.49	.	.	.	.	58	290	118	6	59	104	635
2.50 - 2.99	.	.	.	.	.	35	66	17	34	15	167
3.00 - 3.49	.	.	.	.	.	.	5	10	29	13	57
3.50 - 3.99	.	.	.	.	.	.	.	.	13	18	31
4.00 - 4.49	.	.	.	.	.	.	.	.	1	8	9
4.50 - 4.99	.	.	.	.	.	.	.	.	.	3	3
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	359	1246	1530	819	933	2009	2234	1121	1922	5291	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.66 ANGLE CLASS % = 17.5

STATION 70 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	268	537	6		627	1509	446	13	13	.	3381
0.50 - 0.99	.	501	1315	492	225	1255	557	11	11	.	4367
1.00 - 1.49	.	.	164	742	509	675	297	17	41	3	2548
1.50 - 1.99	.	.	.	15	210	630	256	41	17	1	1100
2.00 - 2.49	.	.	.	.	29	157	145	59	17	.	407
2.50 - 2.99	.	.	.	.	1	1	25	18	10	.	55
3.00 - 3.49	.	.	.	.	.	.	.	1	1	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	268	1038	1485	1249	1601	4227	1688	190	110	4	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.40 ANGLE CLASS % = 11.9

STATION 70 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

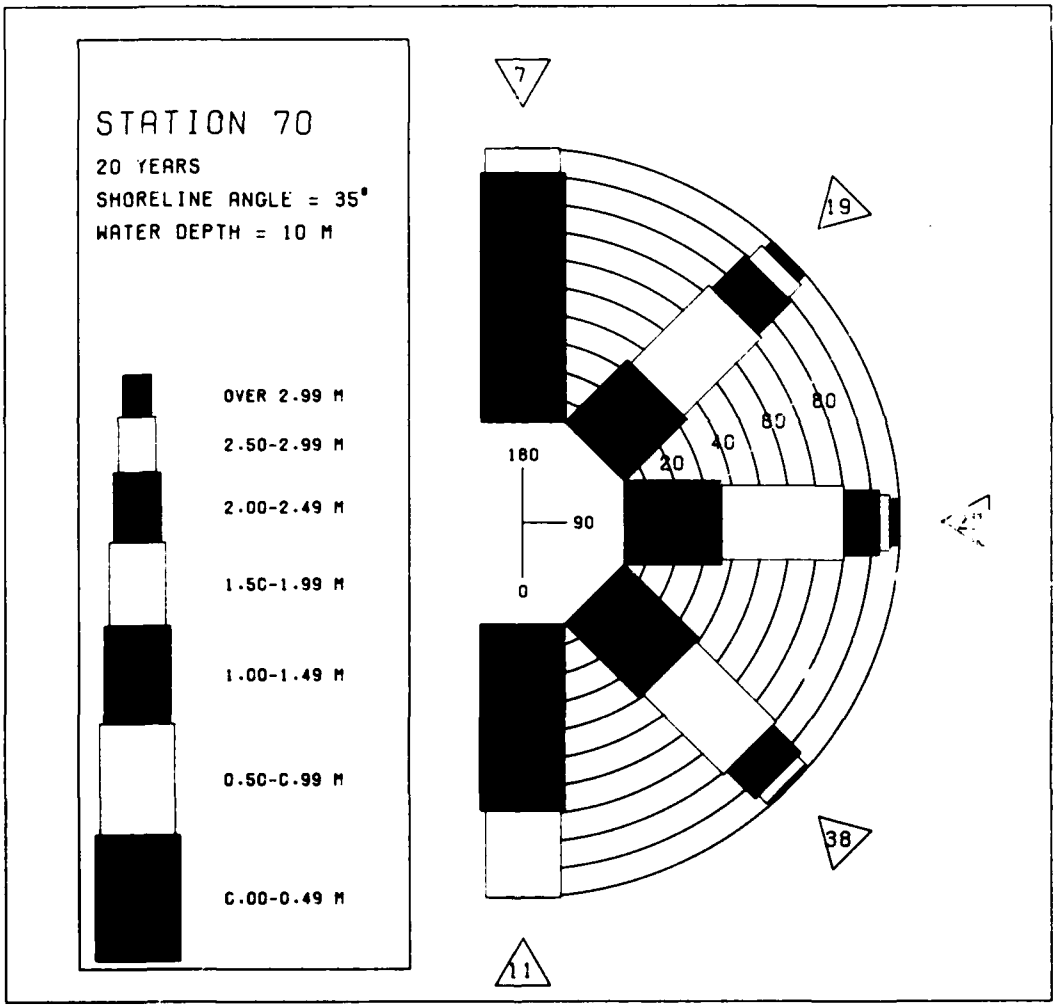
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	448	1338	1726	2002	1731	1247	.	.	.	.	8492
0.50 - 0.99	.	106	922	799	472	301	.	.	.	.	2600
1.00 - 1.49	.	.	6	44	44	10	.	.	.	.	104
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	448	1444	2654	2845	2250	1558	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.85 ANGLE CLASS % = 11.2

STATION 70 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 35.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	306	738	400	329	698	1111	401	50	63	159	4255
0.50 - 0.99	.	376	1055	409	162	770	401	84	114	383	3754
1.00 - 1.49	.	.	81	338	163	259	143	20	57	68	1149
1.50 - 1.99	.	.	.	18	91	143	72	10	17	24	375
2.00 - 2.49	.	.	.	.	17	77	42	10	8	11	165
2.50 - 2.99	.	.	.	.	.	8	15	5	5	1	34
3.00 - 3.49	.	.	.	.	.	.	1	2	3	1	7
3.50 - 3.99	.	.	.	.	.	.	.	.	1	2	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	306	1114	1536	1094	1131	2368	1075	181	268	669	

AVE HS(M) = 0.64 LARGEST HS(M) = 4.66 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 70

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.2	1.1	0.7	0.7	0.5	0.6	0.9	0.7	0.7	1.2	0.9	0.6	0.8
1957	0.4	0.8	0.7	0.6	0.5	0.7	0.5	0.6	0.6	0.9	0.8	0.8	0.6
1958	0.5	0.4	0.6	0.8	0.6	0.5	0.6	0.7	0.5	1.2	1.2	0.9	0.7
1959	0.9	0.9	0.9	0.9	0.5	0.4	0.6	0.5	0.5	0.8	0.7	0.5	0.7
1960	0.5	0.8	0.6	0.8	0.7	0.9	0.6	0.6	0.7	0.5	0.5	0.4	0.6
1961	0.4	0.8	0.7	0.7	0.6	0.8	0.5	0.6	0.8	0.7	0.3	0.5	0.6
1962	0.7	0.7	0.7	0.8	0.5	0.6	0.6	0.6	0.4	0.5	1.0	0.9	0.7
1963	0.6	0.7	0.7	0.5	0.7	0.7	0.4	0.4	0.8	0.5	0.5	0.4	0.6
1964	0.7	0.5	0.7	0.9	0.6	0.5	0.7	0.6	0.8	0.6	0.5	0.7	0.7
1965	0.6	0.7	0.5	0.5	0.6	0.7	0.6	0.5	0.5	0.7	0.5	0.3	0.6
1966	0.5	0.5	0.6	0.5	0.5	0.7	0.6	0.6	0.8	0.5	0.6	0.5	0.6
1967	0.6	0.7	0.9	0.5	0.6	0.5	0.6	0.8	0.9	0.7	0.4	0.8	0.7
1968	0.5	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4
1969	0.7	0.7	0.8	0.7	0.5	0.5	0.5	0.6	0.7	0.8	0.6	0.6	0.6
1970	0.3	1.2	0.8	0.8	0.6	0.7	0.6	0.5	0.5	0.9	1.1	0.6	0.7
1971	0.5	0.8	0.6	0.5	0.7	0.5	0.7	0.7	0.8	1.1	0.7	0.7	0.7
1972	0.6	0.8	0.8	0.6	1.1	0.8	0.6	0.6	0.7	0.7	0.7	0.7	0.7
1973	0.6	0.9	0.8	0.7	0.7	0.7	0.6	0.4	0.4	0.6	0.5	1.1	0.7
1974	0.6	0.7	0.8	0.8	0.5	0.6	0.3	0.3	0.4	0.3	0.4	0.6	0.5
1975	0.7	0.6	0.7	0.5	0.3	0.4	1.0	0.8	0.8	0.9	0.9	0.9	0.7
MEAN	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 70

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.7	2.2	2.6	2.9	1.7	2.1	1.6	1.1	4.3	3.4	2.1	1.5
1957	1.2	2.3	2.4	2.2	1.9	1.6	1.1	2.1	1.9	3.7	2.2	2.4
1958	2.6	2.3	2.6	2.2	1.8	1.5	1.3	2.0	1.5	4.0	2.8	2.5
1959	2.6	1.6	2.7	2.0	1.8	0.9	1.4	1.6	1.4	2.5	2.1	1.7
1960	2.6	3.0	2.4	2.5	1.5	1.8	1.9	2.0	2.0	2.0	1.8	2.7
1961	2.1	3.5	2.4	2.4	2.3	1.9	1.1	1.5	3.1	1.9	2.0	2.0
1962	2.0	1.6	3.4	2.5	1.8	2.2	1.5	1.4	1.4	1.9	3.9	3.1
1963	1.7	2.7	2.4	2.5	2.3	2.3	1.0	1.9	2.2	2.6	2.7	2.2
1964	2.9	2.5	2.4	1.7	1.9	1.2	2.3	1.7	2.5	1.9	1.9	2.1
1965	2.4	2.4	1.8	1.7	1.1	2.3	1.3	1.3	1.6	2.5	1.7	1.8
1966	2.8	2.4	1.9	2.3	1.6	2.8	1.6	1.7	2.7	1.9	2.0	2.3
1967	1.9	2.1	2.1	1.9	1.9	1.4	1.6	1.6	2.5	1.6	1.4	3.0
1968	2.9	2.2	2.8	2.2	2.1	1.0	0.7	0.9	1.1	1.3	2.5	2.7
1969	3.0	2.4	3.1	1.9	1.8	1.4	1.6	1.7	2.1	1.9	3.0	2.7
1970	1.6	3.6	2.1	2.4	2.0	2.2	1.4	1.8	1.5	2.6	2.3	2.4
1971	2.5	2.9	2.3	2.6	2.2	1.0	1.9	3.2	2.6	2.5	2.4	1.7
1972	2.2	3.1	2.5	1.5	3.0	2.4	1.5	1.6	2.1	2.4	2.3	2.5
1973	2.6	3.0	2.6	2.6	1.9	1.8	1.2	1.5	2.2	3.1	2.6	3.7
1974	2.1	2.9	3.1	2.3	2.1	1.6	0.8	1.2	1.5	1.4	1.5	3.6
1975	2.9	2.6	3.1	1.9	1.1	1.6	2.4	0.9	1.5	2.1	2.9	2.7

LARGEST HS(METRES) FOR STATION 70 = 4.7

STATION 71 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 71 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1115	3590	2257	1170	2929	2843	1084	102	70	.	15160
0.50 - 0.99	.	689	3968	2294	675	2506	586	51	27	.	10796
1.00 - 1.49	.	.	65	799	650	970	458	.	3	.	2945
1.50 - 1.99	.	.	.	6	189	487	241	3	.	.	926
2.00 - 2.49	.	.	.	.	18	63	107	6	.	.	194
2.50 - 2.99	.	.	.	.	.	1	17	.	.	.	18
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1115	4279	6290	4269	4461	6870	2493	162	100	0	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 2.86 ANGLE CLASS % = 30.1

STATION 71 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	491	790			893	3117	1543	210	119	1091	8254
0.50 - 0.99	.	905	1603	104	217	2330	2150	131	248	342	6030
1.00 - 1.49	.	.	210	734	179	610	509	20	205	53	2520
1.50 - 1.99	.	.	.	53	277	338	154	15	29	78	944
2.00 - 2.49	.	.	.	.	58	275	109	20	8	10	480
2.50 - 2.99	.	.	.	.	.	29	71	30	11	3	144
3.00 - 3.49	.	.	.	.	.	.	8	13	3	1	25
3.50 - 3.99	.	.	.	.	.	.	.	.	6	1	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	491	1695	1813	891	1624	6699	4544	439	629	1580	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 4.11 ANGLE CLASS % = 20.4

STATION 71 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	463	679			1086	2583	959	198	478	1018	7424
0.50 - 0.99	.	927	1500	70	53	1117	275	479	687	3415	8523
1.00 - 1.49	.	.	215	662	118	148	65	5	169	525	1907
1.50 - 1.99	.	.	.	56	200	99	34	1	56	167	615
2.00 - 2.49	.	.	.	.	44	201	34	1	3	42	325
2.50 - 2.99	.	.	.	.	.	41	47	5	10	5	108
3.00 - 3.49	.	.	.	.	.	.	10	11	15	5	41
3.50 - 3.99	.	.	.	.	.	.	.	.	8	10	18
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	463	1606	1715	788	1501	4189	1444	700	1388	5187	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 3.86 ANGLE CLASS % = 19.0

STATION 71 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	304	626	1	.	906	1606	720	82	176	.	4421
0.50 - 0.99	.	485	1363	448	213	1141	749	309	200	5	4913
1.00 - 1.49	.	.	119	627	369	686	373	65	90	6	2355
1.50 - 1.99	.	.	.	17	155	343	239	66	47	1	918
2.00 - 2.49	.	.	.	.	22	102	75	37	59	3	298
2.50 - 2.99	.	.	.	.	.	5	6	3	3	15	32
3.00 - 3.49	.	.	.	.	.	.	.	.	.	6	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	304	1111	1483	1092	1665	3933	2162	580	575	36	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.06 ANGLE CLASS % = 13.0

STATION 71 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

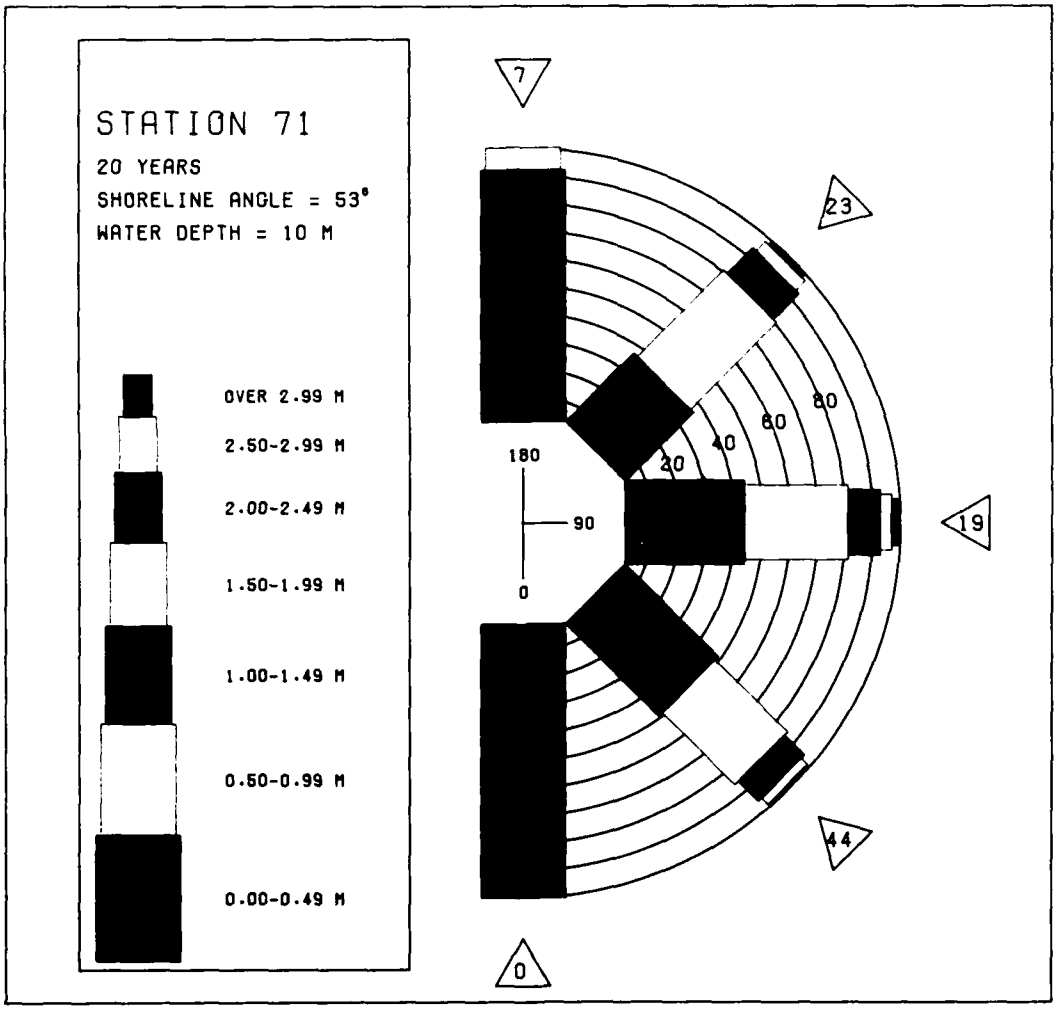
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	504	1495	1853	1483	1808	1618	.	.	.	.	8761
0.50 - 0.99	.	111	853	751	359	246	.	.	.	.	2320
1.00 - 1.49	.	.	5	25	51	3	.	.	.	.	84
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	504	1606	2711	2259	2218	1867	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.48 ANGLE CLASS % = 11.2

STATION 71 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	287	718	411	265	762	1177	430	59	60	210	4399
0.50 - 0.99	.	311	928	366	151	734	376	97	116	376	3455
1.00 - 1.49	.	.	61	284	136	241	142	10	46	56	976
1.50 - 1.99	.	.	.	13	82	131	66	8	13	24	337
2.00 - 2.49	.	.	.	.	14	64	32	6	7	5	128
2.50 - 2.99	.	.	.	.	.	7	14	3	2	2	28
3.00 - 3.49	.	.	.	.	.	.	1	2	1	1	5
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	287	1029	1400	928	1145	2354	1061	185	266	677	

AVE HS(M) = 0.58 LARGEST HS(M) = 4.11 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 71

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	1.0	0.6	0.7	0.5	0.6	0.9	0.6	0.6	1.0	0.8	0.5	0.7
1957	0.3	0.7	0.6	0.5	0.4	0.6	0.5	0.5	0.6	0.8	0.7	0.8	0.6
1958	0.4	0.4	0.5	0.7	0.5	0.4	0.6	0.7	0.5	1.1	1.1	0.8	0.6
1959	0.9	0.8	0.9	0.8	0.5	0.4	0.6	0.5	0.4	0.7	0.7	0.4	0.6
1960	0.4	0.7	0.5	0.8	0.7	0.8	0.5	0.6	0.6	0.4	0.5	0.3	0.6
1961	0.3	0.7	0.6	0.7	0.6	0.8	0.5	0.6	0.7	0.6	0.3	0.5	0.6
1962	0.6	0.6	0.5	0.8	0.4	0.5	0.6	0.5	0.3	0.4	0.8	0.8	0.6
1963	0.6	0.6	0.7	0.5	0.6	0.7	0.4	0.4	0.6	0.4	0.5	0.4	0.5
1964	0.7	0.5	0.6	0.9	0.6	0.5	0.7	0.5	0.6	0.5	0.5	0.7	0.6
1965	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.3	0.5
1966	0.4	0.5	0.6	0.5	0.5	0.7	0.6	0.6	0.7	0.5	0.5	0.4	0.5
1967	0.5	0.6	0.8	0.4	0.6	0.5	0.6	0.8	0.7	0.6	0.4	0.7	0.6
1968	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.5	0.5	0.4
1969	0.6	0.5	0.6	0.6	0.5	0.5	0.4	0.6	0.6	0.6	0.5	0.6	0.6
1970	0.2	1.2	0.7	0.8	0.6	0.6	0.6	0.5	0.5	0.8	0.9	0.6	0.7
1971	0.4	0.9	0.5	0.5	0.8	0.4	0.7	0.7	0.7	1.0	0.6	0.6	0.6
1972	0.6	0.7	0.7	0.6	1.0	0.8	0.6	0.6	0.5	0.6	0.6	0.6	0.6
1973	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.4	0.4	0.6	0.5	1.1	0.6
1974	0.6	0.7	0.8	0.8	0.5	0.5	0.3	0.3	0.3	0.2	0.3	0.6	0.5
1975	0.6	0.5	0.6	0.4	0.3	0.4	0.8	0.6	0.7	0.7	0.7	0.7	0.6
MEAN	0.5	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	

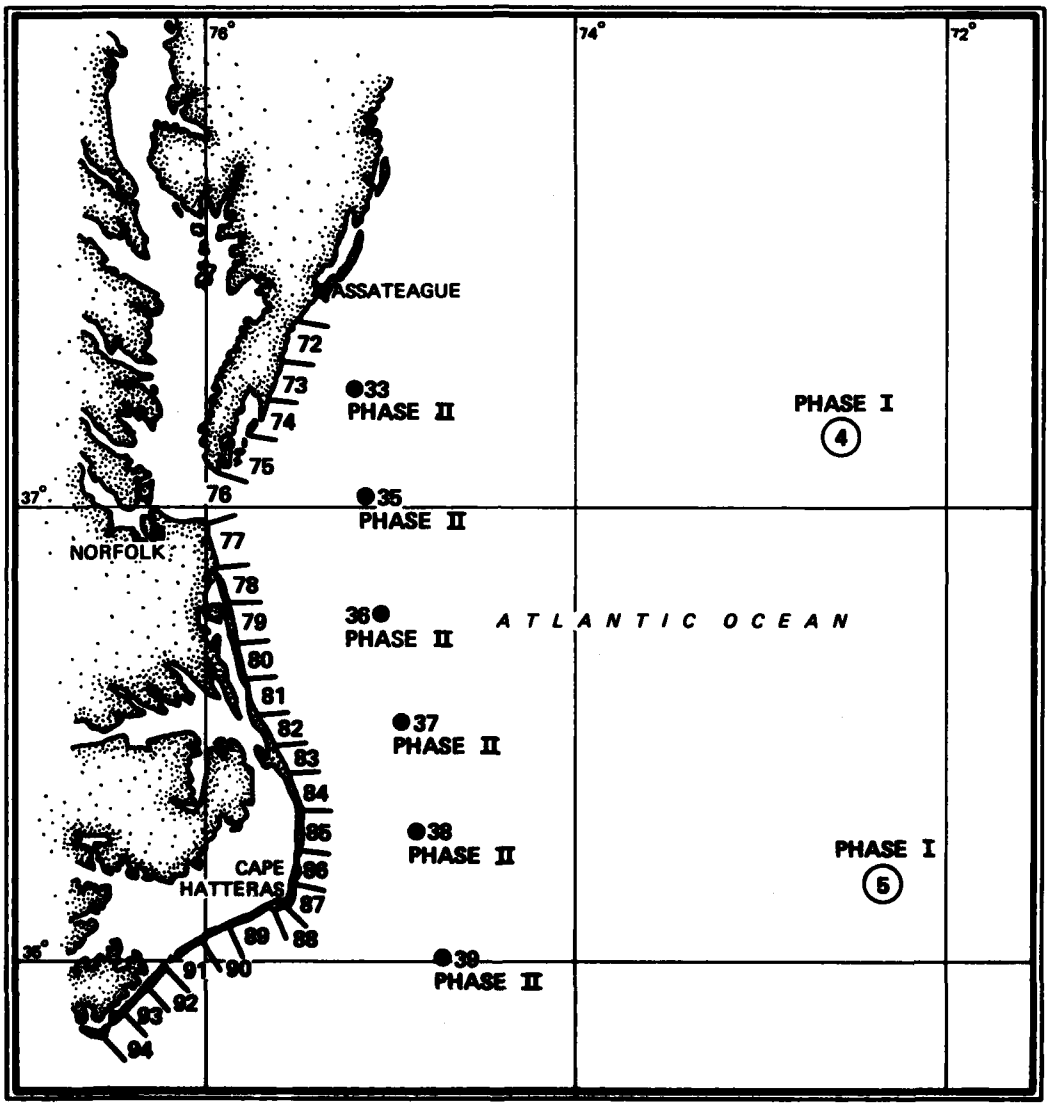
LARGEST HS(METRES) BY MONTH AND YEAR

STATION 71

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.9	2.2	2.6	3.3	1.4	1.9	1.7	1.1	3.6	2.8	1.8	1.5
1957	1.1	2.1	1.8	2.3	2.0	1.4	1.1	1.9	1.7	3.4	2.3	2.5
1958	2.6	2.3	2.3	2.2	1.8	1.5	1.3	2.2	1.5	3.6	2.8	2.2
1959	2.9	1.6	2.7	1.9	1.9	0.9	1.6	1.6	1.3	2.3	2.2	1.5
1960	2.1	2.8	2.6	2.7	1.6	1.5	2.1	1.9	2.1	1.8	1.5	2.4
1961	1.8	3.7	2.3	2.4	2.2	2.0	1.1	1.6	2.4	1.6	2.0	2.0
1962	2.2	1.7	2.2	2.7	1.8	2.0	1.4	1.4	1.3	1.4	3.1	3.0
1963	1.7	2.4	2.4	2.4	2.4	2.2	1.0	2.0	1.7	2.2	2.7	2.2
1964	3.1	2.5	2.3	1.7	1.7	1.2	2.3	1.6	1.9	1.8	2.0	2.2
1965	1.6	2.6	1.7	1.7	1.1	2.0	1.4	1.3	1.4	2.6	1.5	1.8
1966	3.0	2.6	2.0	2.1	1.6	2.7	1.5	1.8	2.7	1.9	2.2	1.9
1967	2.1	1.7	2.2	2.0	1.6	1.4	1.8	1.6	2.3	1.7	1.4	3.0
1968	2.7	2.3	3.1	2.1	1.8	0.9	0.7	0.7	1.1	1.3	2.9	2.9
1969	2.4	2.4	2.3	2.0	2.0	1.5	1.6	1.7	1.8	1.8	2.8	2.8
1970	1.4	4.1	2.2	2.3	2.0	2.2	1.5	1.5	1.6	2.1	1.8	2.5
1971	2.5	2.9	2.3	2.3	2.4	1.0	1.7	3.3	2.3	2.4	2.5	1.5
1972	2.3	3.1	2.8	1.6	2.7	2.4	1.6	1.6	1.8	2.1	2.3	2.4
1973	2.6	3.3	2.8	2.6	2.0	1.7	1.2	1.5	2.3	3.1	2.7	3.7
1974	1.9	2.9	2.5	2.7	2.1	1.7	0.9	0.8	1.6	0.9	1.5	3.6
1975	2.7	2.9	3.1	2.1	1.1	1.4	1.7	0.8	1.5	2.3	2.4	2.5

LARGEST HS(METRES) FOR STATION 71 = 4.1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NORFOLK
CAPE HATTERAS
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PHASE II
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PHASE II
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PHASE II
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PHASE II
38
PHASE II
39
PHASE II
ATLANTIC OCEAN
PHASE I
4
PHASE I
5

STATION 72 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 22.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1180	3723	2855	1481	426	284	27	.	.	.	9976
0.50 - 0.99	.	509	3129	2061	627	275	.	.	.	.	6601
1.00 - 1.49	.	.	18	205	162	25	.	.	.	.	410
1.50 - 1.99	.	.	.	.	10	.	.	.	.	.	10
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1180	4232	6002	3747	1225	584	27	0	0	0	

AVERAGE HS(M) = 0.46 LARGEST HS(M) = 1.84 ANGLE CLASS % = 17.0

STATION 72 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 22.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	580	1083	.	.	3427	7053	3186	381	261	90	16061
0.50 - 0.99	.	1009	2048	407	273	3293	2481	90	265	164	10070
1.00 - 1.49	.	.	183	866	525	1052	586	27	107	73	3449
1.50 - 1.99	.	.	.	25	254	439	217	32	13	13	993
2.00 - 2.49	.	.	.	.	41	118	68	25	6	.	258
2.50 - 2.99	.	.	.	.	.	6	18	1	3	.	28
3.00 - 3.49	.	.	.	.	.	.	3	1	1	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	580	2092	2231	1318	4520	11971	6559	557	676	360	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.36 ANGLE CLASS % = 30.9

STATION 72 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 22.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	378	554	.	.	1030	2535	947	15	.	1050	6509
0.50 - 0.99	.	650	1107	51	47	1115	198	1	.	116	3285
1.00 - 1.49	.	.	171	467	75	107	51	.	.	.	671
1.50 - 1.99	.	.	.	53	167	54	6	.	.	10	290
2.00 - 2.49	.	.	.	.	25	130	10	.	.	3	168
2.50 - 2.99	.	.	.	.	.	35	23	1	.	1	62
3.00 - 3.49	.	.	.	.	.	.	11	10	1	3	25
3.50 - 3.99	.	.	.	.	.	.	.	.	5	.	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	378	1204	1278	571	1344	3976	1246	29	10	1183	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.66 ANGLE CLASS % = 11.2

STATION 72 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 22.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	361	616	.	.	609	629	297	193	520	627	3852
0.50 - 0.99	.	593	1398	171	56	1016	788	734	881	3596	9233
1.00 - 1.49	.	.	167	730	195	357	353	181	405	850	3218
1.50 - 1.99	.	.	.	58	217	355	165	34	148	195	1212
2.00 - 2.49	.	.	.	.	63	366	242	56	80	112	919
2.50 - 2.99	.	.	.	.	.	37	99	47	47	17	247
3.00 - 3.49	.	.	.	.	.	.	6	17	37	6	66
3.50 - 3.99	.	.	.	.	.	.	.	.	11	25	36
4.00 - 4.49	.	.	.	.	.	.	.	.	1	10	11
4.50 - 4.99	.	.	.	.	.	.	.	.	.	6	6
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	361	1209	1565	959	1140	2800	1930	1262	2130	5444	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 4.87 ANGLE CLASS % = 18.8

STATION 72 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 22.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	482	1596	1844	1512	2070	2069	198	3	.	.	9794
0.50 - 0.99	.	143	1134	1024	629	989	164	1	.	.	4104
1.00 - 1.49	.	.	18	254	355	526	106	18	.	.	1337
1.50 - 1.99	.	.	.	.	87	253	160	30	1	.	531
2.00 - 2.49	.	.	.	.	3	18	23	3	.	.	47
2.50 - 2.99	.	.	.	.	1	.	1	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	482	1739	2996	2790	3145	3935	672	55	1	0	

AVERAGE HS(M) = 0.48 LARGEST HS(M) = 2.59 ANGLE CLASS % = 15.8

STATION 72 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 22.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

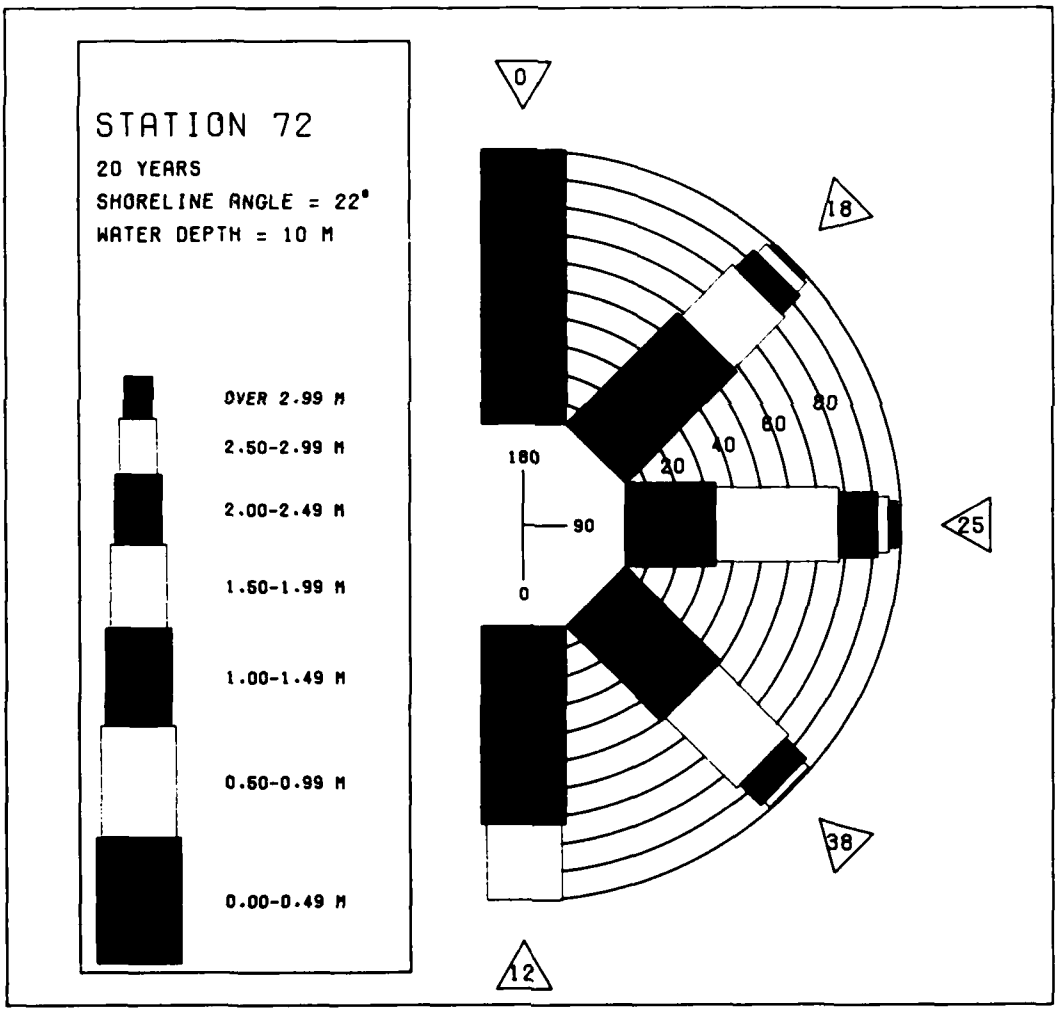
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	11	.	.	.	.	.	.	.	.	.	11
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 72 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 22.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	299	757	470	299	756	1259	445	59	78	176	4618
0.50 - 0.99	.	290	881	371	183	669	385	82	116	389	3336
1.00 - 1.49	.	.	55	254	131	214	107	22	51	92	926
1.50 - 1.99	.	.	.	13	73	114	55	6	16	21	301
2.00 - 2.49	.	.	.	.	13	93	34	8	8	11	167
2.50 - 2.99	.	.	.	.	.	8	14	5	5	1	33
3.00 - 3.49	.	.	.	.	.	.	2	2	4	1	9
3.50 - 3.99	.	.	.	.	.	.	.	.	1	2	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	299	1047	1406	937	1136	2367	1042	187	279	694	

AVE HS(M) = 0.57 LARGEST HS(M) = 4.87 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 72

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.2	1.1	0.6	0.6	0.5	0.5	0.8	0.6	0.6	1.2	0.9	0.5	0.8
1957	0.3	0.7	0.6	0.5	0.4	0.6	0.4	0.5	0.6	0.9	0.7	0.7	0.6
1958	0.4	0.3	0.5	0.7	0.5	0.4	0.5	0.7	0.5	1.2	1.2	0.9	0.7
1959	0.9	0.8	0.9	0.9	0.4	0.3	0.5	0.5	0.4	0.7	0.6	0.4	0.6
1960	0.4	0.7	0.5	0.7	0.7	0.9	0.5	0.6	0.6	0.5	0.5	0.3	0.6
1961	0.3	0.7	0.6	0.6	0.6	0.7	0.5	0.5	0.8	0.7	0.3	0.4	0.6
1962	0.6	0.6	0.6	0.7	0.4	0.5	0.5	0.5	0.4	0.5	1.0	0.8	0.6
1963	0.5	0.6	0.6	0.4	0.6	0.7	0.4	0.3	0.7	0.5	0.5	0.3	0.5
1964	0.6	0.4	0.6	0.8	0.6	0.4	0.6	0.5	0.7	0.5	0.4	0.6	0.6
1965	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.6	0.4	0.3	0.5
1966	0.4	0.4	0.5	0.5	0.5	0.7	0.6	0.5	0.7	0.5	0.5	0.4	0.5
1967	0.5	0.5	0.7	0.4	0.5	0.5	0.5	0.7	0.8	0.7	0.4	0.6	0.6
1968	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.4	0.4	0.4
1969	0.6	0.6	0.7	0.7	0.4	0.5	0.4	0.6	0.7	0.7	0.5	0.5	0.6
1970	0.2	1.0	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.8	1.1	0.5	0.6
1971	0.4	0.7	0.5	0.4	0.7	0.4	0.6	0.6	0.7	1.1	0.6	0.6	0.6
1972	0.5	0.7	0.7	0.5	1.0	0.8	0.5	0.5	0.6	0.7	0.5	0.6	0.6
1973	0.5	0.8	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.6	0.4	1.0	0.6
1974	0.5	0.6	0.7	0.7	0.5	0.5	0.2	0.3	0.3	0.2	0.3	0.6	0.5
1975	0.6	0.5	0.6	0.4	0.3	0.4	0.9	0.8	0.8	0.8	0.8	0.8	0.6
MEAN	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 72

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.9	2.2	2.4	2.4	1.4	2.1	1.6	1.0	4.5	3.5	2.2	1.3
1957	1.2	2.2	2.6	2.0	1.7	1.6	1.0	2.1	1.7	3.8	1.9	2.3
1958	2.6	2.3	2.6	2.2	1.7	1.1	1.1	1.9	1.5	4.0	2.8	2.6
1959	2.4	1.7	2.7	2.1	1.4	0.9	1.4	1.6	1.4	2.5	1.9	1.5
1960	2.6	3.0	2.4	2.1	1.5	1.9	1.8	2.0	1.9	2.1	1.9	2.7
1961	2.1	3.5	2.4	2.5	2.3	1.7	0.9	1.3	3.3	2.0	2.0	2.0
1962	1.8	1.5	3.8	2.3	1.7	2.2	1.5	1.4	1.5	1.7	4.0	3.0
1963	1.4	2.7	2.1	2.5	2.1	2.3	0.9	1.6	2.3	2.6	2.7	2.2
1964	2.8	2.5	2.0	1.7	2.0	1.2	2.3	1.5	2.6	2.0	1.8	1.8
1965	2.2	2.2	1.8	1.4	1.1	2.3	1.2	1.2	1.7	2.3	1.7	1.7
1966	2.7	2.0	1.7	2.3	1.4	2.8	1.5	1.6	2.6	1.8	2.0	2.3
1967	1.8	2.2	2.0	1.8	2.1	1.4	1.5	1.6	2.5	1.6	1.4	3.1
1968	2.9	2.0	2.3	2.1	2.1	0.9	0.7	0.7	1.2	1.3	2.5	2.4
1969	3.1	2.4	3.5	1.8	1.6	1.2	1.5	1.6	2.1	2.3	3.0	2.6
1970	1.4	3.3	2.0	2.4	1.9	2.2	1.2	1.9	1.2	2.8	2.3	2.3
1971	2.4	2.8	2.3	2.6	2.1	1.0	1.9	3.1	2.7	2.5	2.3	1.7
1972	2.0	3.1	2.3	1.5	3.1	2.5	1.4	1.5	2.3	2.4	2.3	2.5
1973	2.6	2.9	2.2	2.7	1.6	1.9	1.1	1.3	2.1	3.1	2.0	3.8
1974	1.5	2.6	3.3	2.2	2.1	1.8	0.7	0.9	1.4	1.5	1.2	3.6
1975	3.1	2.4	3.1	1.7	1.1	1.6	2.4	0.9	1.5	1.8	2.9	2.8

LARGEST HS(METRES) FOR STATION 72 = 4.9

STATION 73 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1125	3675	2871	1468	420	405	39	5	.	.	10008
0.50 - 0.99	.	509	3076	2073	645	268	5	.	.	.	6576
1.00 - 1.49	.	.	27	193	126	22	.	.	.	.	368
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1125	4184	5974	3734	1197	695	44	5	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 1.73 ANGLE CLASS % = 17.0

STATION 73 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	595	1062	.	.	3280	6878	3148	361	246	85	15655
0.50 - 0.99	.	1013	1969	364	241	3246	2481	90	269	177	9370
1.00 - 1.49	.	.	188	869	537	956	568	25	102	71	3316
1.50 - 1.99	.	.	.	23	258	415	200	34	15	8	953
2.00 - 2.49	.	.	.	.	37	97	56	22	5	.	217
2.50 - 2.99	.	.	.	.	.	10	17	1	5	.	33
3.00 - 3.49	.	.	.	.	.	.	1	3	.	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	595	2075	2157	1256	4353	11602	6471	536	662	341	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.36 ANGLE CLASS % = 30.1

STATION 73 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	321	520	.	.	987	2472	944	20	124	1074	6462
0.50 - 0.99	.	610	1052	37	58	1103	217	130	87	116	3410
1.00 - 1.49	.	.	154	458	73	119	78	44	.	3	928
1.50 - 1.99	.	.	.	56	143	65	6	.	.	15	285
2.00 - 2.49	.	.	.	.	29	140	11	.	.	3	183
2.50 - 2.99	.	.	.	.	.	35	25	1	.	1	62
3.00 - 3.49	.	.	.	.	.	.	13	8	6	3	29
3.50 - 3.99	.	.	.	.	.	.	.	.	5	.	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	321	1130	1206	551	1290	3933	1294	203	221	1215	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.66 ANGLE CLASS % = 11.4

STATION 73 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	330	518	.	.	614	609	335	177	388	578	3549
0.50 - 0.99	.	564	1276	109	61	1072	788	580	776	3565	8792
1.00 - 1.49	.	.	208	742	136	342	314	159	414	653	3168
1.50 - 1.99	.	.	.	56	251	266	124	17	167	193	1104
2.00 - 2.49	.	.	.	.	66	383	212	41	90	118	910
2.50 - 2.99	.	.	.	.	.	47	119	49	41	18	274
3.00 - 3.49	.	.	.	.	.	.	8	32	46	6	92
3.50 - 3.99	.	.	.	.	.	.	.	.	18	17	35
4.00 - 4.49	.	.	.	.	.	.	.	.	1	18	19
4.50 - 4.99	.	.	.	.	.	.	.	.	1	6	7
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	330	1082	1484	907	1128	2749	1900	1055	1942	5373	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 4.88 ANGLE CLASS % = 18.0

STATION 73 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	431	1168	674	479	1555	2161	207	6	.	.	6681
0.50 - 0.99	.	304	1617	1127	662	1418	355	10	.	.	5493
1.00 - 1.49	.	.	75	503	465	778	292	5	.	.	2118
1.50 - 1.99	.	.	.	5	174	460	251	20	6	.	916
2.00 - 2.49	.	.	.	.	27	133	154	56	10	.	380
2.50 - 2.99	.	.	.	.	1	1	6	1	1	.	10
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	431	1472	2366	2114	2882	4971	1265	98	17	0	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 2.97 ANGLE CLASS % = 15.6

STATION 73 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

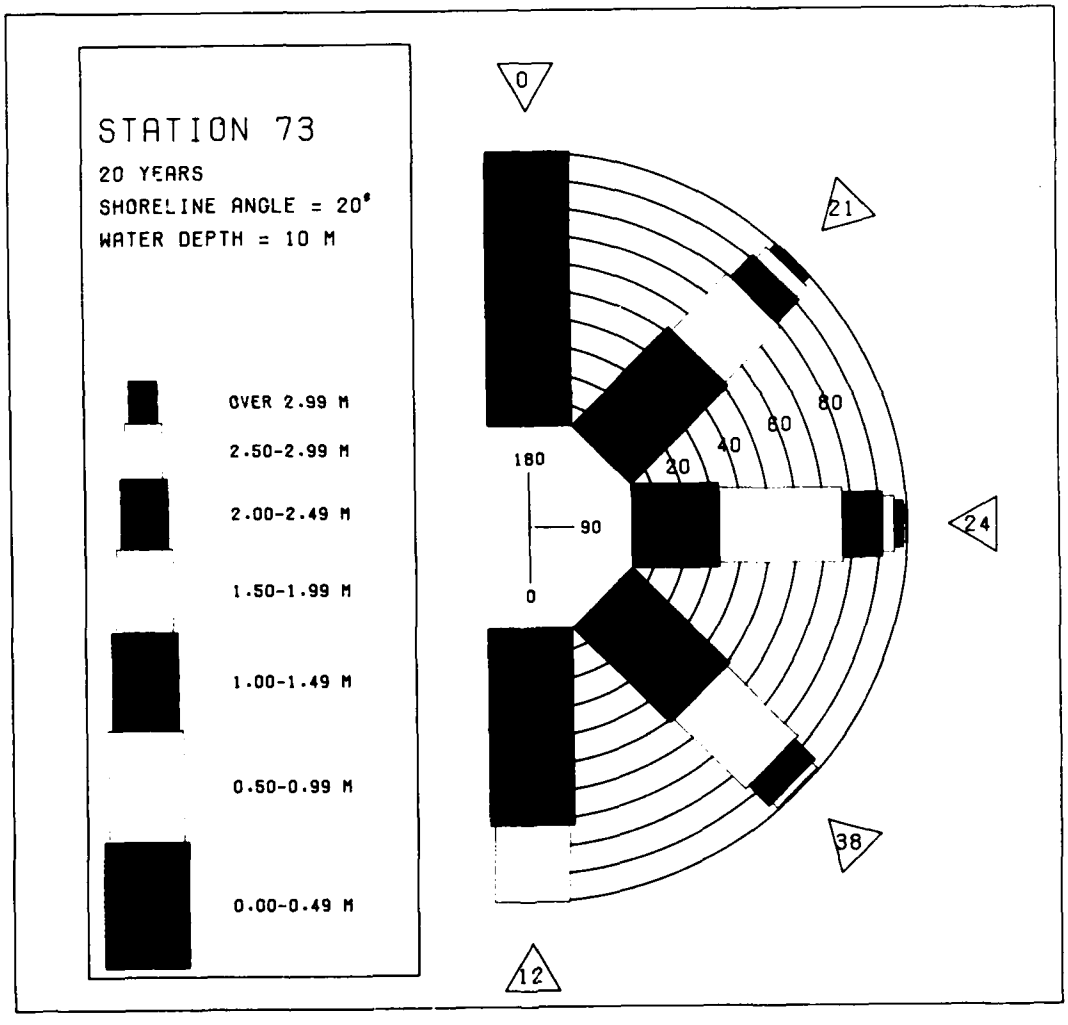
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	159	516	1108	1452	617	.	.	.	.	.	3852
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	159	516	1108	1452	617	0	0	0	0	0	

AVERAGE HS(M) = 0.09 LARGEST HS(M) = 0.47 ANGLE CLASS % = 3.9

STATION 73 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	296	746	465	340	747	1252	467	57	75	173	4618
0.50 - 0.99	.	300	899	371	166	710	384	81	115	385	3412
1.00 - 1.49	.	.	65	276	133	221	125	23	51	92	986
1.50 - 1.99	.	.	.	14	83	125	53	7	18	21	329
2.00 - 2.49	.	.	.	.	16	75	43	11	10	12	167
2.50 - 2.99	.	.	.	.	.	9	16	5	4	2	36
3.00 - 3.49	.	.	.	.	.	.	2	4	5	1	12
3.50 - 3.99	.	.	.	.	.	.	.	.	2	1	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	296	1046	1429	1001	1145	2392	1095	188	280	689	

AVE HS(M) = 0.60 LARGEST HS(M) = 4.88 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 73

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.2	1.1	0.7	0.7	0.5	0.5	0.8	0.6	0.7	1.3	0.9	0.5	0.8
1957	0.3	0.8	0.7	0.5	0.4	0.6	0.4	0.5	0.6	0.9	0.7	0.7	0.6
1958	0.4	0.4	0.6	0.8	0.5	0.4	0.5	0.7	0.5	1.3	1.2	1.0	0.7
1959	0.9	0.9	0.9	0.9	0.4	0.3	0.5	0.5	0.5	0.7	0.7	0.5	0.6
1960	0.4	0.7	0.5	0.7	0.7	0.9	0.5	0.6	0.7	0.5	0.5	0.3	0.6
1961	0.4	0.8	0.6	0.6	0.6	0.7	0.5	0.5	0.9	0.7	0.3	0.4	0.6
1962	0.6	0.6	0.7	0.7	0.4	0.5	0.6	0.5	0.4	0.5	1.0	0.9	0.6
1963	0.5	0.7	0.6	0.4	0.6	0.7	0.4	0.3	0.8	0.6	0.5	0.3	0.5
1964	0.6	0.5	0.6	0.9	0.6	0.4	0.7	0.5	0.8	0.5	0.4	0.6	0.6
1965	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.4	0.5	0.7	0.4	0.3	0.5
1966	0.5	0.4	0.6	0.5	0.5	0.7	0.6	0.5	0.7	0.5	0.6	0.5	0.5
1967	0.5	0.6	0.8	0.4	0.6	0.5	0.5	0.7	1.0	0.7	0.4	0.7	0.6
1968	0.5	0.4	0.5	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.5	0.4	0.4
1969	0.7	0.8	0.8	0.7	0.4	0.5	0.4	0.6	0.8	0.8	0.6	0.5	0.6
1970	0.2	1.0	0.7	0.8	0.6	0.6	0.5	0.4	0.4	0.9	1.1	0.5	0.7
1971	0.4	0.7	0.5	0.4	0.7	0.4	0.6	0.6	0.8	1.1	0.6	0.6	0.6
1972	0.5	0.8	0.7	0.5	1.0	0.8	0.5	0.5	0.7	0.7	0.6	0.6	0.7
1973	0.5	0.9	0.8	0.6	0.7	0.6	0.5	0.4	0.4	0.6	0.4	1.0	0.6
1974	0.6	0.6	0.7	0.7	0.5	0.6	0.2	0.3	0.3	0.2	0.3	0.6	0.5
1975	0.6	0.5	0.7	0.4	0.3	0.4	1.0	0.8	0.8	0.9	0.9	0.9	0.7
MEAN	0.6	0.7	0.7	0.6	0.5	0.6	0.5	0.5	0.6	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 73

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.9	2.2	2.4	2.4	1.6	2.1	1.6	1.3	4.5	3.5	2.2	1.3
1957	1.2	2.4	2.6	2.0	1.7	1.7	1.1	2.2	1.9	3.9	1.9	2.3
1958	2.6	2.3	2.8	2.1	1.7	1.1	1.0	1.9	1.5	4.0	2.8	2.6
1959	2.2	1.7	2.7	2.2	1.4	0.9	1.4	1.6	1.4	2.6	1.8	1.7
1960	3.0	3.2	2.5	2.1	1.4	1.9	1.6	2.0	1.9	2.2	1.9	2.7
1961	2.3	3.5	2.4	2.5	2.3	1.7	0.9	1.3	3.5	2.1	2.0	2.0
1962	1.8	1.9	3.8	2.3	1.7	2.2	1.7	1.4	1.7	1.9	4.3	3.0
1963	1.4	2.9	2.2	2.5	2.1	2.3	1.0	1.4	2.4	2.7	2.7	2.2
1964	2.8	2.5	2.0	1.8	2.1	1.2	2.4	1.7	2.7	2.0	1.8	1.8
1965	2.7	2.2	1.8	1.4	1.1	2.4	1.2	1.2	1.7	2.3	1.7	1.7
1966	2.6	2.0	1.7	2.3	1.4	2.9	1.9	1.5	2.6	1.8	2.0	2.3
1967	1.7	2.2	2.1	1.7	2.2	1.4	1.4	1.6	2.6	1.6	1.5	3.2
1968	2.9	2.3	2.3	2.1	2.2	0.9	0.7	0.9	1.2	1.3	2.5	2.4
1969	3.3	2.4	3.5	1.7	1.5	1.2	1.4	1.6	2.3	2.3	3.0	2.6
1970	1.9	3.3	2.0	2.4	1.9	2.2	1.2	2.0	1.2	2.9	2.4	2.3
1971	2.4	2.6	2.3	2.6	2.2	1.1	1.9	3.0	2.7	2.5	2.3	1.8
1972	1.8	3.1	2.3	1.5	3.1	2.5	1.4	1.5	2.3	2.4	2.3	2.5
1973	2.6	2.7	2.2	2.7	1.7	1.9	1.1	1.3	2.1	3.1	1.9	3.8
1974	1.6	2.6	3.5	1.9	2.1	1.9	0.7	1.4	1.4	1.7	1.1	3.6
1975	3.1	2.4	3.1	1.7	1.1	1.9	3.0	0.9	1.5	1.8	3.1	2.9

LARGEST HS(METRES) FOR STATION 73 = 4.9

STATION 74 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 74 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1307	3379	3098	1858	2286	4120	2060	145	5	.	16258
0.50 - 0.99	.	325	2433	1420	775	2664	1952	161	23	.	9753
1.00 - 1.49	.	.	47	472	349	1199	479	264	17	.	2827
1.50 - 1.99	.	.	.	15	111	497	338	69	6	.	1036
2.00 - 2.49	.	.	.	.	5	41	138	17	1	.	202
2.50 - 2.99	.	.	.	.	.	.	13	8	3	.	24
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1307	3704	5578	3825	3536	8521	4924	666	57	0	

AVERAGE HS(M) = 0.54 LARGEST HS(M) = 3.05 ANGLE CLASS % = 32.1

STATION 74 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	294	405	.	.	660	1885	1456	171	169	540	5580
0.50 - 0.99	.	583	866	56	157	2811	1810	165	933	1220	6781
1.00 - 1.49	.	.	167	462	73	518	536	121	429	2095	5401
1.50 - 1.99	.	.	.	46	162	253	123	.	10	204	798
2.00 - 2.49	.	.	.	.	35	193	142	10	5	73	458
2.50 - 2.99	.	.	.	.	.	13	54	22	6	54	149
3.00 - 3.49	.	.	.	.	.	.	3	25	8	37	73
3.50 - 3.99	.	.	.	.	.	.	.	5	3	15	23
4.00 - 4.49	.	.	.	.	.	.	.	.	.	6	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	294	988	1063	564	1087	5678	4244	517	1565	3040	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 5.17 ANGLE CLASS % = 19.1

STATION 74 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	345	417			675	704	217	90	694	335	3477
0.50 - 0.99	.	590	1042	63	41	1023	455	349	685	353	4941
1.00 - 1.49	.	.	210	559	80	210	200	191	414	59	1923
1.50 - 1.99	.	.	.	77	196	142	92	159	106	27	799
2.00 - 2.49	.	.	.	.	63	253	118	54	44	6	538
2.50 - 2.99	.	.	.	.	.	39	114	70	11	8	242
3.00 - 3.49	.	.	.	.	.	.	10	39	15	10	74
3.50 - 3.99	.	.	.	.	.	.	.	.	.	22	22
4.00 - 4.49	.	.	.	.	.	.	.	.	1	3	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	345	1007	1252	699	1055	2371	1206	952	2270	864	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 5.11 ANGLE CLASS % = 12.0

STATION 74 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	431	792	8		829	2067	638	80	25	.	4870
0.50 - 0.99	.	674	1765	629	188	2032	894	66	25	.	6273
1.00 - 1.49	.	.	201	1018	633	976	398	109	39	11	3387
1.50 - 1.99	.	.	.	39	268	641	272	68	22	.	1310
2.00 - 2.49	.	.	.	.	42	231	177	67	27	.	564
2.50 - 2.99	.	.	.	.	1	5	18	35	17	.	76
3.00 - 3.49	.	.	.	.	.	.	1	3	5	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	431	1466	1974	1686	1961	5954	2398	448	160	11	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.35 ANGLE CLASS % = 16.5

STATION 74 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

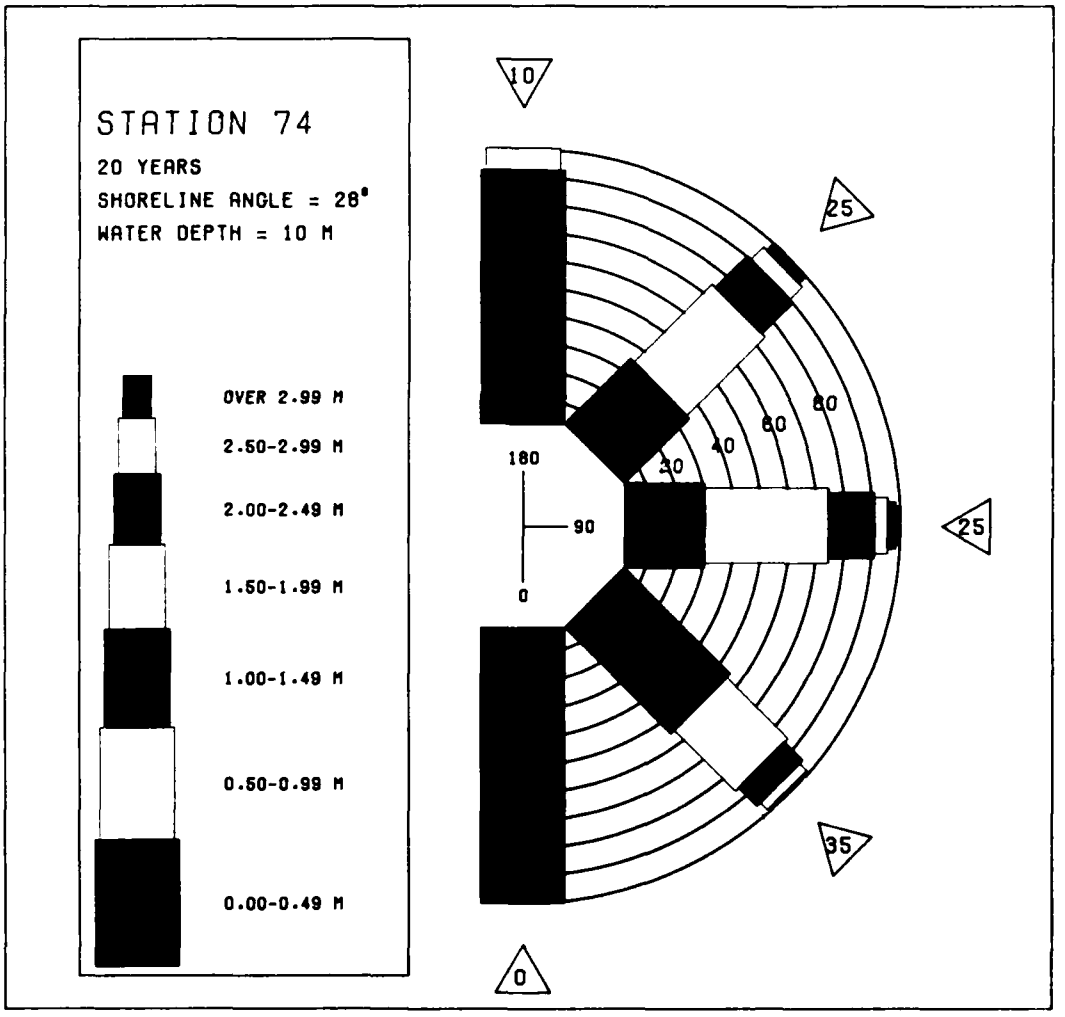
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	821	1772	2229	2985	2020	1165	.	.	.	.	10992
0.50 - 0.99	.	102	1153	905	554	280	.	.	.	.	2994
1.00 - 1.49	.	.	13	41	71	.	.	.	.	.	125
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	821	1874	3395	3931	2647	1445	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 2.08 ANGLE CLASS % = 14.1

STATION 74 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	319	676	533	464	648	994	437	48	89	87	4315
0.50 - 0.99	.	227	729	313	171	681	518	76	199	161	3275
1.00 - 1.49	.	.	64	255	120	290	166	64	90	87	1136
1.50 - 1.99	.	.	.	17	74	154	60	31	14	31	401
2.00 - 2.49	.	.	.	.	14	71	54	16	7	8	170
2.50 - 2.99	.	.	.	.	.	5	20	13	3	6	47
3.00 - 3.49	.	.	.	.	.	.	1	6	2	4	13
3.50 - 3.99	.	.	.	.	.	.	.	.	.	3	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	319	903	1326	1069	1027	2395	1276	254	404	388	

AVE HS(M) = 0.62 LARGEST HS(M) = 5.17 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 74

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.8	0.5	0.8	0.5	0.7	0.7	0.5	0.7	1.5	0.9	0.4	0.7
1957	0.4	0.7	0.7	0.5	0.5	0.5	0.5	0.6	0.5	1.2	0.8	0.8	0.6
1958	0.4	0.4	0.6	0.9	0.6	0.4	0.3	0.7	0.5	1.6	1.6	1.1	0.8
1959	0.9	1.0	1.0	1.0	0.4	0.3	0.7	0.4	0.6	0.7	0.7	0.5	0.7
1960	0.4	0.8	0.6	0.7	0.7	0.6	0.5	0.7	0.8	0.5	0.5	0.4	0.6
1961	0.4	1.0	0.8	0.5	0.7	0.8	0.4	0.5	0.9	0.9	0.4	0.3	0.6
1962	0.7	0.7	0.8	0.6	0.5	0.6	0.7	0.6	0.4	0.6	1.0	1.0	0.7
1963	0.6	0.8	0.5	0.4	0.6	1.0	0.5	0.3	1.0	0.9	0.4	0.3	0.6
1964	0.6	0.4	0.5	0.9	0.6	0.4	0.6	0.5	1.1	1.0	0.5	0.6	0.7
1965	0.6	0.7	0.5	0.4	0.5	0.6	0.5	0.6	0.7	0.7	0.4	0.3	0.5
1966	0.5	0.5	0.5	0.4	0.6	1.0	1.0	1.0	0.7	0.6	0.6	0.6	0.7
1967	0.6	0.6	0.8	0.4	0.6	0.5	0.6	0.7	0.9	0.7	0.3	0.7	0.6
1968	0.7	0.4	0.4	0.5	0.4	0.4	0.3	0.2	0.2	0.3	0.4	0.3	0.4
1969	0.8	0.8	0.5	0.5	0.4	0.7	0.4	0.6	0.6	0.8	0.6	0.5	0.6
1970	0.3	1.2	0.7	0.8	0.7	0.6	0.6	0.5	0.4	0.9	1.0	0.4	0.7
1971	0.4	0.6	0.5	0.4	0.6	0.4	0.7	0.7	1.0	1.6	0.9	0.6	0.7
1972	0.5	0.7	0.6	0.5	1.1	0.6	0.5	0.5	0.6	1.0	0.6	0.7	0.7
1973	0.6	0.7	0.8	0.5	0.6	0.6	0.6	0.5	0.4	0.6	0.2	1.0	0.6
1974	0.6	0.6	0.7	0.6	0.5	0.6	0.2	0.3	0.3	0.3	0.3	0.6	0.4
1975	0.5	0.7	0.6	0.3	0.4	0.4	0.6	0.3	0.4	0.6	0.4	0.6	0.5
MEAN	0.5	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.8	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 74

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.2	2.0	1.7	2.6	1.8	2.3	1.4	1.4	4.4	3.3	2.4	1.4
1957	1.5	2.5	2.1	1.9	1.8	2.2	1.1	2.2	1.7	3.4	2.2	2.4
1958	2.3	2.5	2.5	2.3	2.3	1.1	1.0	2.0	2.4	5.2	3.0	2.7
1959	2.7	2.0	2.5	1.8	1.3	0.9	1.5	1.6	1.6	2.8	2.1	1.8
1960	3.0	3.0	2.7	2.3	2.0	1.9	1.9	2.1	1.8	2.1	1.8	2.2
1961	2.0	3.8	2.6	2.7	2.1	1.8	0.9	1.2	3.1	2.3	2.1	1.7
1962	2.6	1.6	3.7	2.3	1.6	2.3	2.7	2.0	1.8	2.2	4.1	3.1
1963	1.4	3.3	2.0	2.0	2.0	2.6	1.3	1.1	2.4	3.4	2.5	1.7
1964	2.8	2.2	2.4	1.8	2.5	1.1	2.3	1.8	2.7	2.5	2.3	2.0
1965	2.3	2.6	1.6	1.4	1.1	2.6	1.6	1.6	2.2	2.6	2.0	1.6
1966	2.8	2.6	2.1	2.1	1.9	3.4	2.2	1.8	2.6	1.9	2.7	2.3
1967	1.6	1.9	1.9	2.2	2.2	1.3	1.5	1.8	2.7	1.9	1.5	3.0
1968	3.3	2.1	2.3	1.9	2.5	0.8	0.9	0.9	1.4	1.7	2.4	2.3
1969	3.4	2.2	2.2	1.9	1.5	1.8	1.2	1.2	2.1	2.3	3.3	2.5
1970	2.2	3.7	2.2	2.1	2.0	1.8	1.4	2.1	1.1	2.7	2.3	2.5
1971	1.7	2.4	2.5	2.7	2.2	1.1	1.9	3.1	2.8	2.9	1.8	1.7
1972	1.8	2.9	2.0	1.6	3.1	2.4	2.1	1.6	1.7	2.8	2.2	2.4
1973	2.0	2.8	2.3	2.3	2.0	2.0	1.0	1.2	2.2	2.5	1.6	3.7
1974	1.8	2.2	3.2	2.4	1.5	2.0	0.6	1.0	1.4	1.4	1.1	3.3
1975	2.4	2.8	3.3	1.8	1.8	1.9	2.2	0.8	1.5	2.0	3.2	2.4

LARGEST HS(METRES) FOR STATION 74 = 5.2

STATION 75 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 75 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2174	4936	5254	3360	836	277	22	.	.	.	16859
0.50 - 0.99	.	66	1356	1153	518	539	107	23	.	.	3762
1.00 - 1.49	.	.	8	152	208	539	118	18	.	.	1043
1.50 - 1.99	.	.	.	.	34	159	53	1	.	.	247
2.00 - 2.49	.	.	.	.	.	3	15	.	.	.	18
2.50 - 2.99	.	.	.	.	.	.	1	3	.	.	4
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2174	5002	6618	4665	1596	1517	316	45	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 2.82 ANGLE CLASS % = 21.9

STATION 75 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	544	812	.	.	710	2027	1599	177	8	49	5926
0.50 - 0.99	.	499	1218	160	157	2850	1687	167	624	1139	6701
1.00 - 1.49	.	.	107	463	131	568	581	136	313	742	3041
1.50 - 1.99	.	.	.	39	162	408	195	18	10	265	1097
2.00 - 2.49	.	.	.	.	30	176	163	15	1	66	453
2.50 - 2.99	.	.	.	.	.	8	47	20	8	51	134
3.00 - 3.49	.	.	.	.	.	.	1	27	6	37	71
3.50 - 3.99	.	.	.	.	.	.	.	1	3	13	17
4.00 - 4.49	.	.	.	.	.	.	.	.	.	6	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	544	1311	1325	662	1190	6037	4475	561	973	2374	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 5.17 ANGLE CLASS % = 19.5

STATION 75 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	574	704			270	752	248	100	725	352	3725
0.50 - 0.99	.	636	1250	99	32	1001	456	362	959	396	5191
1.00 - 1.49	.	.	193	595	77	200	186	198	586	58	1893
1.50 - 1.99	.	.	.	78	200	118	83	157	95	23	754
2.00 - 2.49	.	.	.	.	65	244	102	51	35	5	502
2.50 - 2.99	.	.	.	.	.	37	97	51	8	10	203
3.00 - 3.49	.	.	.	.	.	.	11	37	15	10	73
3.50 - 3.99	.	.	.	.	.	.	.	.	.	20	20
4.00 - 4.49	.	.	.	.	.	.	.	.	1	3	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	574	1340	1443	772	644	2352	1183	956	2224	878	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.89 ANGLE CLASS % = 12.4

STATION 75 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	569	930	23	.	1329	2185	686	95	39	.	5856
0.50 - 0.99	.	451	1815	609	256	1675	929	66	68	.	6069
1.00 - 1.49	.	.	165	872	622	934	352	107	61	17	3128
1.50 - 1.99	.	.	.	34	253	645	278	70	37	.	1317
2.00 - 2.49	.	.	.	.	42	212	171	85	23	.	533
2.50 - 2.99	.	.	.	.	1	5	20	49	20	.	95
3.00 - 3.49	.	.	.	.	.	.	.	1	3	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	569	1381	2003	1515	2503	5852	2446	471	253	17	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.35 ANGLE CLASS % = 17.0

STATION 75 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

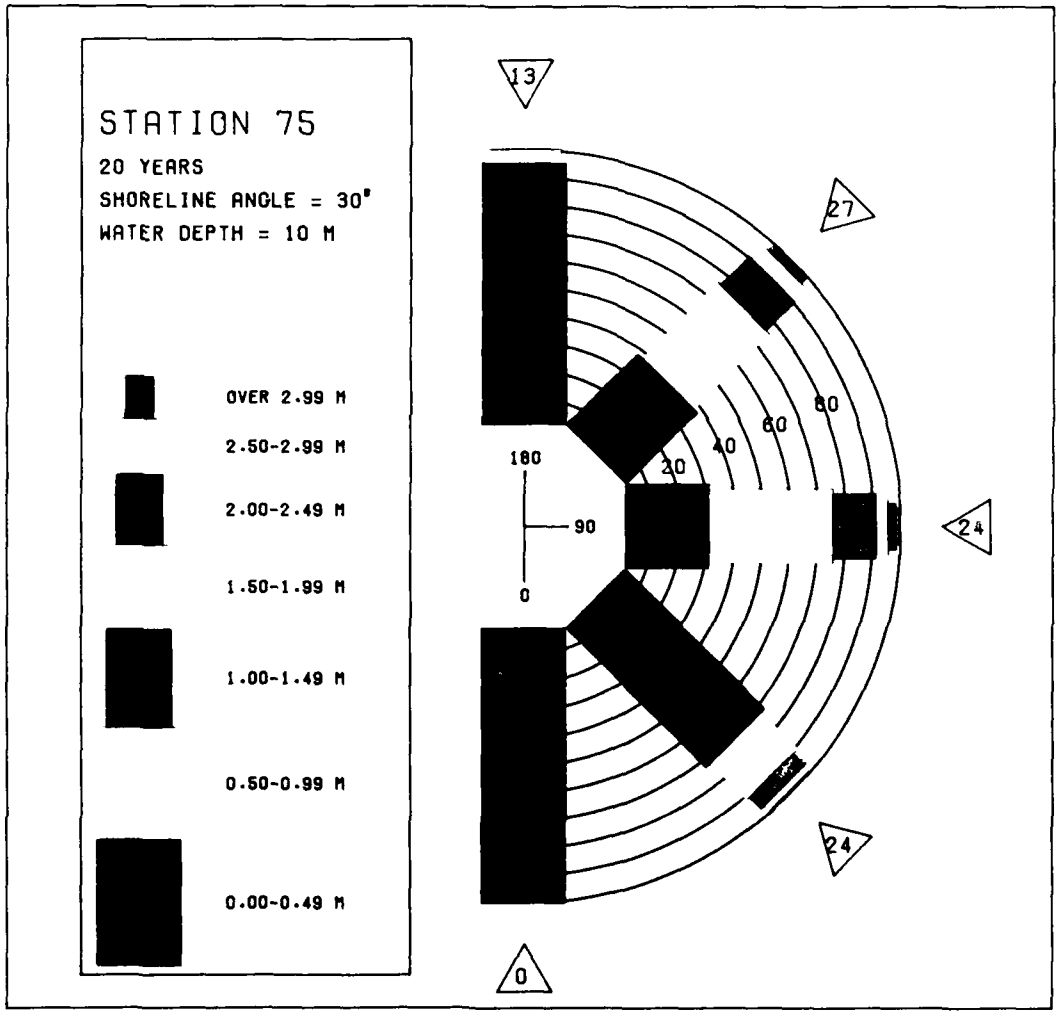
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1363	2655	3037	3686	2361	1300	.	.	.	.	14602
0.50 - 0.99	.	95	970	975	527	266	.	.	.	.	2833
1.00 - 1.49	.	.	10	39	59	.	.	.	.	.	108
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1363	2750	4017	4900	2948	1566	0	0	0	0	

AVERAGE HS(M) = 0.27 LARGEST HS(M) = 1.65 ANGLE CLASS % = 17.6

STATION 75 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	522	1004	831	724	550	654	255	37	77	40	4694
0.50 - 0.99	.	175	661	289	149	653	338	62	145	153	2625
1.00 - 1.49	.	.	48	212	110	268	124	46	75	81	964
1.50 - 1.99	.	.	.	15	65	133	61	24	14	28	339
2.00 - 2.49	.	.	.	.	13	63	45	15	6	7	149
2.50 - 2.99	.	.	.	.	.	5	16	12	3	6	42
3.00 - 3.49	.	.	.	.	.	.	1	6	2	4	13
3.50 - 3.99	.	.	.	.	.	.	.	.	.	3	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	522	1179	1540	1250	887	1730	840	202	343	323	

AVE HS(M) = 0.52 LARGEST HS(M) = 5.17 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 75

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.3	0.4	0.4	0.4	0.6	0.2	0.2	0.7	1.5	0.9	0.4	0.5
1957	0.3	0.7	0.7	0.4	0.5	0.5	0.3	0.5	0.5	0.7	0.7	0.7	0.5
1958	0.4	0.3	0.6	0.8	0.6	0.4	0.2	0.6	0.5	1.6	1.6	1.1	0.7
1959	0.9	1.0	0.9	0.9	0.2	0.2	0.4	0.3	0.6	0.6	0.6	0.5	0.6
1960	0.3	0.7	0.6	0.4	0.6	0.5	0.3	0.5	0.7	0.4	0.4	0.3	0.5
1961	0.4	1.0	0.7	0.4	0.7	0.6	0.2	0.4	0.8	0.9	0.4	0.2	0.5
1962	0.6	0.6	0.7	0.5	0.5	0.5	0.6	0.4	0.4	0.6	0.9	1.0	0.6
1963	0.4	0.7	0.4	0.3	0.5	1.0	0.5	0.2	0.9	0.9	0.3	0.3	0.5
1964	0.5	0.3	0.4	0.5	0.6	0.3	0.4	0.4	1.0	1.0	0.5	0.5	0.5
1965	0.5	0.6	0.4	0.3	0.2	0.4	0.3	0.4	0.7	0.7	0.3	0.3	0.4
1966	0.5	0.4	0.4	0.4	0.5	1.0	1.0	0.9	0.7	0.5	0.6	0.5	0.6
1967	0.5	0.5	0.3	0.3	0.5	0.5	0.3	0.4	0.9	0.7	0.2	0.6	0.5
1968	0.7	0.4	0.3	0.4	0.4	0.3	0.1	0.1	0.2	0.2	0.3	0.3	0.3
1969	0.8	0.8	0.4	0.4	0.4	0.6	0.4	0.4	0.5	0.7	0.6	0.4	0.5
1970	0.2	0.8	0.5	0.7	0.7	0.5	0.5	0.4	0.2	0.9	1.0	0.4	0.6
1971	0.4	0.4	0.4	0.3	0.4	0.3	0.6	0.7	1.0	1.6	0.8	0.5	0.6
1972	0.4	0.7	0.5	0.4	1.1	0.5	0.4	0.3	0.6	1.0	0.5	0.5	0.6
1973	0.5	0.7	0.8	0.4	0.5	0.5	0.6	0.4	0.4	0.5	0.2	0.7	0.5
1974	0.4	0.4	0.5	0.2	0.4	0.5	0.2	0.2	0.3	0.2	0.2	0.5	0.4
1975	0.5	0.7	0.6	0.3	0.3	0.2	0.3	0.1	0.4	0.6	0.4	0.5	0.4
MEAN	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.6	0.8	0.6	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 75

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.9	2.0	1.6	2.4	1.8	2.3	1.3	1.4	4.4	3.3	2.4	1.4
1957	1.5	2.5	2.1	1.8	1.8	2.2	1.1	2.2	1.7	3.3	2.2	2.3
1958	2.2	2.5	2.5	2.3	2.3	1.1	0.8	2.0	2.4	5.2	3.0	2.7
1959	2.1	2.0	2.5	1.8	1.0	0.8	1.5	1.6	1.6	2.8	2.0	1.6
1960	3.0	2.9	2.7	2.1	2.0	1.9	1.8	2.1	1.8	2.0	1.7	2.2
1961	1.8	3.8	2.6	2.7	2.1	1.7	0.8	1.1	3.1	2.3	2.0	1.6
1962	2.2	1.6	3.7	2.2	1.5	2.3	2.7	2.0	1.8	2.2	4.1	3.1
1963	1.2	3.3	1.9	1.8	1.5	2.6	1.3	0.8	2.4	3.4	2.4	1.6
1964	2.8	2.2	2.2	1.8	2.4	1.1	2.3	1.8	2.7	2.5	2.1	1.7
1965	2.3	2.5	1.6	1.4	1.0	2.6	1.5	1.5	2.1	2.6	2.0	1.4
1966	2.8	1.7	2.0	2.1	1.9	3.2	2.2	1.7	2.5	1.9	2.6	2.3
1967	1.6	1.8	1.5	2.2	2.0	1.3	1.2	1.8	2.7	1.9	1.5	3.0
1968	3.3	2.1	1.9	1.9	2.4	0.8	0.8	0.9	1.4	1.6	2.4	2.1
1969	3.4	2.2	2.2	1.4	1.2	1.7	1.2	1.1	2.1	2.3	3.3	2.3
1970	2.2	3.0	2.1	1.9	2.0	1.8	1.2	2.1	1.0	2.7	2.2	2.4
1971	1.4	2.3	2.5	2.7	2.0	1.1	1.9	3.2	2.8	2.9	1.8	1.7
1972	1.6	2.8	1.7	1.4	3.1	2.4	2.1	1.6	1.7	2.8	2.1	2.4
1973	1.9	2.5	2.2	2.2	1.8	2.0	1.0	1.1	2.2	2.6	1.4	3.7
1974	1.8	2.2	3.2	1.6	1.5	2.0	0.5	1.0	1.4	1.4	1.1	3.3
1975	2.4	2.7	3.3	1.8	1.7	1.9	2.0	0.8	1.4	2.0	3.2	2.3

LARGEST HS(METRES) FOR STATION 75 = 5.2

STATION 76 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 76 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2108	4794	5285	3336	727	280	30	.	.	.	16560
0.50 - 0.99	.	68	1230	1040	518	463	80	27	.	.	3426
1.00 - 1.49	.	.	6	106	162	458	87	15	.	.	834
1.50 - 1.99	.	.	.	.	25	112	32	1	.	.	170
2.00 - 2.49	.	.	.	.	.	1	13	.	.	.	14
2.50 - 2.99	.	.	.	.	.	.	.	1	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2108	4862	6521	4482	1432	1314	242	45	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 3.05 ANGLE CLASS % = 21.0

STATION 76 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	569	918	.	.	703	2034	1608	176	10	51	6069
0.50 - 0.99	.	523	1283	200	165	2821	1860	167	624	1122	8765
1.00 - 1.49	.	.	128	527	167	552	585	133	314	742	3148
1.50 - 1.99	.	.	.	39	167	390	196	18	8	248	1066
2.00 - 2.49	.	.	.	.	34	177	154	13	3	66	447
2.50 - 2.99	.	.	.	.	.	10	42	22	8	53	135
3.00 - 3.49	.	.	.	.	.	.	1	23	5	35	64
3.50 - 3.99	.	.	.	.	.	.	.	1	3	13	17
4.00 - 4.49	.	.	.	.	.	.	.	.	.	8	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	5	5
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	569	1441	1411	766	1236	5984	4446	553	975	2342	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 5.17 ANGLE CLASS % = 19.8

STATION 76 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	525	604			746	768	237	97	746	366	4089
0.50 - 0.99	.	533	1100	104	44	1038	458	359	983	388	5007
1.00 - 1.49	.	.	174	521	83	208	195	125	414	59	1849
1.50 - 1.99	.	.	.	75	193	142	90	125	106	27	768
2.00 - 2.49	.	.	.	.	63	253	119	54	44	6	539
2.50 - 2.99	.	.	.	.	.	39	112	70	11	8	240
3.00 - 3.49	.	.	.	.	.	.	10	39	15	10	74
3.50 - 3.99	.	.	.	.	.	.	.	.	.	22	22
4.00 - 4.49	.	.	.	.	.	.	.	.	1	3	4
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	525	1137	1274	700	1129	2448	1221	969	2320	890	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 5.11 ANGLE CLASS % = 12.6

STATION 76 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	588	1050	11		896	2207	663	88	25	.	5528
0.50 - 0.99	.	559	1842	704	225	2027	901	68	25	.	6351
1.00 - 1.49	.	.	177	966	438	978	400	109	41	11	3320
1.50 - 1.99	.	.	.	39	254	671	272	68	23	.	1327
2.00 - 2.49	.	.	.	.	42	231	177	87	27	.	564
2.50 - 2.99	.	.	.	.	1	5	18	35	17	.	76
3.00 - 3.49	.	.	.	.	.	.	1	3	5	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	588	1609	2030	1709	2056	6089	2432	458	163	11	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.35 ANGLE CLASS % = 17.2

STATION 76 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

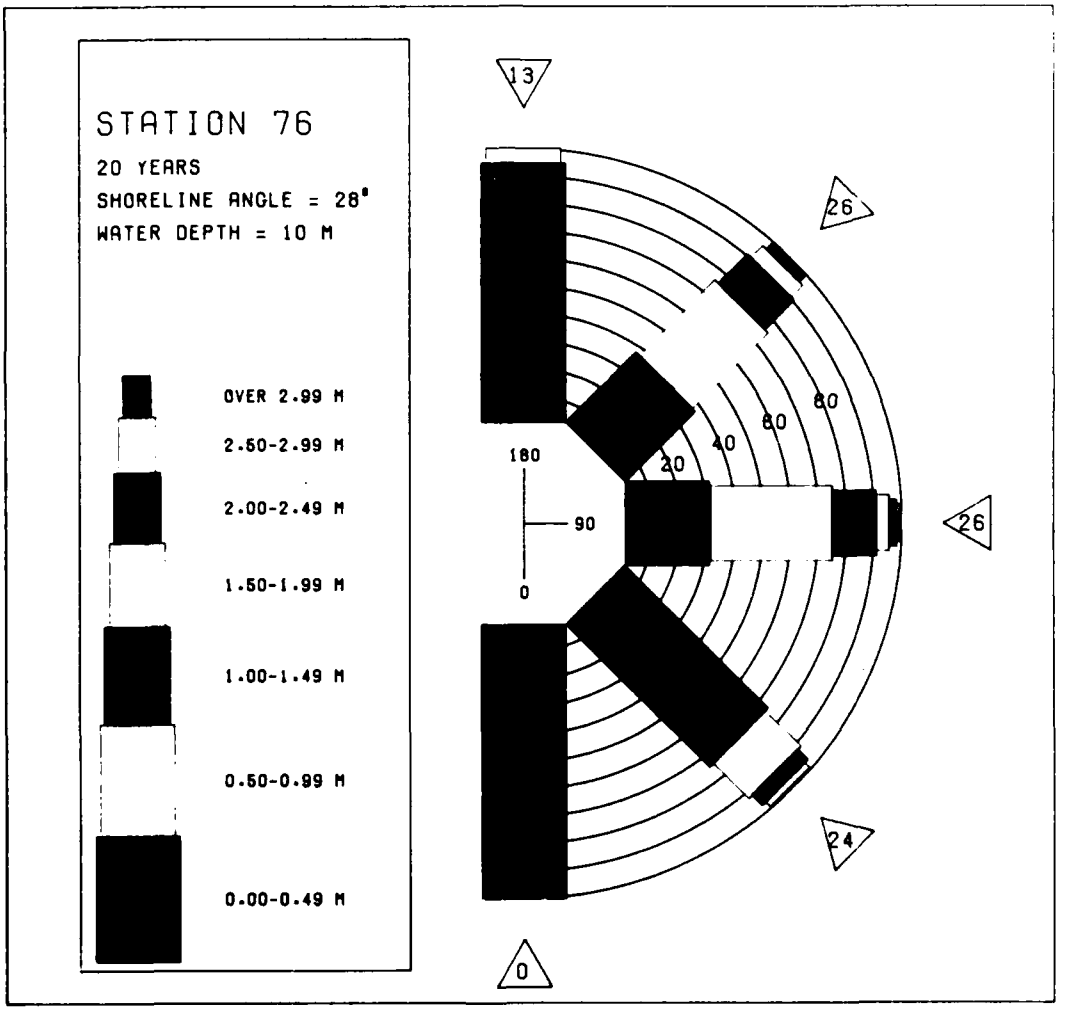
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1336	2624	3069	3898	2301	1165	.	.	.	.	14393
0.50 - 0.99	.	78	1088	908	574	280	.	.	.	.	2928
1.00 - 1.49	.	.	8	37	71	.	.	.	.	.	116
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1336	2702	4165	4843	2948	1445	0	0	0	0	

AVERAGE HS(M) = 0.27 LARGEST HS(M) = 2.08 ANGLE CLASS % = 17.4

STATION 76 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 28.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	512	999	836	723	537	645	254	36	78	41	4661
0.50 - 0.99	.	176	654	295	152	663	330	62	163	151	2646
1.00 - 1.49	.	.	49	215	112	219	126	45	77	81	924
1.50 - 1.99	.	.	.	15	64	128	59	24	13	27	330
2.00 - 2.49	.	.	.	.	14	66	46	15	7	7	155
2.50 - 2.99	.	.	.	.	.	5	17	13	3	6	44
3.00 - 3.49	.	.	.	.	.	.	1	6	2	4	13
3.50 - 3.99	.	.	.	.	.	.	.	.	.	3	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	512	1175	1539	1248	879	1726	833	201	343	321	

AVE HS(M) = 0.52 LARGEST HS(M) = 5.17 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 76

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.3	0.4	0.4	0.4	0.6	0.2	0.2	0.7	1.5	0.9	0.4	0.5
1957	0.3	0.7	0.7	0.4	0.5	0.5	0.3	0.5	0.5	0.7	0.6	0.7	0.5
1958	0.4	0.3	0.6	0.8	0.6	0.3	0.2	0.6	0.5	1.6	1.6	1.1	0.7
1959	0.9	1.0	0.9	0.9	0.2	0.2	0.4	0.3	0.6	0.6	0.6	0.5	0.6
1960	0.4	0.7	0.6	0.4	0.6	0.5	0.3	0.5	0.7	0.5	0.4	0.3	0.5
1961	0.4	1.0	0.7	0.4	0.6	0.6	0.2	0.4	0.8	0.9	0.4	0.2	0.5
1962	0.6	0.6	0.7	0.5	0.5	0.5	0.6	0.4	0.4	0.6	1.0	1.0	0.6
1963	0.4	0.7	0.4	0.3	0.5	1.0	0.5	0.2	0.9	0.9	0.3	0.3	0.5
1964	0.5	0.4	0.4	0.5	0.6	0.3	0.4	0.4	1.1	1.0	0.5	0.5	0.5
1965	0.5	0.6	0.4	0.3	0.2	0.4	0.3	0.4	0.7	0.7	0.3	0.3	0.4
1966	0.5	0.4	0.4	0.4	0.5	0.9	1.0	0.9	0.7	0.6	0.6	0.5	0.6
1967	0.5	0.5	0.3	0.3	0.5	0.5	0.3	0.3	0.9	0.7	0.2	0.6	0.5
1968	0.7	0.4	0.3	0.4	0.4	0.3	0.1	0.1	0.2	0.2	0.3	0.3	0.3
1969	0.8	0.8	0.4	0.4	0.4	0.6	0.4	0.3	0.5	0.7	0.6	0.4	0.5
1970	0.2	0.7	0.5	0.7	0.7	0.5	0.5	0.4	0.2	0.9	1.0	0.4	0.6
1971	0.4	0.4	0.4	0.3	0.4	0.3	0.6	0.7	1.0	1.6	0.8	0.5	0.6
1972	0.4	0.7	0.5	0.4	1.1	0.5	0.4	0.3	0.6	1.0	0.5	0.5	0.6
1973	0.5	0.7	0.8	0.4	0.5	0.5	0.6	0.4	0.4	0.5	0.2	0.7	0.5
1974	0.4	0.5	0.5	0.2	0.4	0.5	0.2	0.2	0.3	0.3	0.2	0.5	0.4
1975	0.5	0.7	0.6	0.3	0.3	0.2	0.3	0.1	0.4	0.6	0.4	0.5	0.4
MEAN	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.6	0.8	0.6	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 76

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.2	2.0	1.6	2.4	1.8	2.3	1.3	1.4	4.4	3.3	2.4	1.4
1957	1.5	2.5	2.1	1.8	1.8	2.2	1.1	2.2	1.7	3.3	2.2	2.3
1958	2.2	2.5	2.5	2.3	2.2	1.1	0.8	2.0	2.4	5.2	3.0	2.7
1959	1.9	2.0	2.4	1.8	1.0	0.8	1.5	1.6	1.6	2.8	1.7	1.8
1960	3.0	3.0	2.7	2.1	2.0	1.9	1.8	2.1	1.8	2.1	1.8	2.2
1961	2.0	3.8	2.6	2.7	2.1	1.7	0.8	1.1	3.1	2.3	2.1	1.6
1962	2.2	1.6	3.7	2.2	1.6	2.3	2.7	2.0	1.8	2.2	4.1	3.1
1963	1.1	3.3	1.9	1.8	1.5	2.6	1.3	0.8	2.4	3.4	2.4	1.6
1964	2.8	2.2	2.2	1.8	2.5	1.1	2.3	1.8	2.7	2.5	2.1	1.5
1965	2.3	2.6	1.6	1.4	1.0	2.6	1.6	1.5	2.2	2.6	2.0	1.4
1966	2.8	1.7	2.0	2.1	1.8	3.4	2.2	1.7	2.6	1.9	2.6	2.3
1967	1.6	1.9	1.5	2.2	2.2	1.3	1.2	1.8	2.7	1.9	1.5	3.0
1968	3.3	2.1	1.8	1.7	2.5	0.8	0.8	0.9	1.4	1.6	2.4	2.1
1969	3.4	2.2	2.2	1.4	1.2	1.7	1.2	1.1	2.1	2.3	3.3	2.3
1970	2.2	3.0	2.1	1.9	2.0	1.8	1.2	2.1	1.0	2.7	2.3	2.4
1971	1.4	2.2	2.5	2.7	2.0	1.1	1.9	3.0	2.8	2.9	1.7	1.7
1972	1.6	2.8	1.7	1.4	3.1	2.4	2.1	1.6	1.7	2.8	1.9	2.4
1973	1.9	2.5	2.2	2.2	1.8	2.0	1.0	1.1	2.2	2.4	1.3	3.7
1974	1.8	2.2	3.2	1.6	1.5	2.0	0.5	1.0	1.4	1.4	1.1	3.3
1975	2.4	2.7	3.3	1.8	1.8	1.9	2.2	0.8	1.4	2.0	3.2	2.3

LARGEST HS(METRES) FOR STATION 76 = 5.2

STATION 77 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2265	4977	5420	3369	821	450	1	.	.	.	17303
0.50 - 0.99	.	195	1155	790	321	330	.	.	.	.	2791
1.00 - 1.49	.	.	6	104	68	11	.	.	.	.	189
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2265	5172	6581	4263	1218	791	1	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.70 ANGLE CLASS % = 20.3

STATION 77 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	468	735	.	.	751	2607	2109	210	1	34	6915
0.50 - 0.99	.	492	1151	201	150	2429	1714	249	6	83	6475
1.00 - 1.49	.	.	135	513	219	578	443	75	5	63	2031
1.50 - 1.99	.	.	.	32	152	242	154	11	8	8	607
2.00 - 2.49	.	.	.	.	23	63	68	22	6	.	182
2.50 - 2.99	.	.	.	.	.	5	8	11	1	.	25
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	468	1227	1286	746	1295	5924	4496	579	27	188	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 3.26 ANGLE CLASS % = 16.3

STATION 77 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	511	629	.	.	946	754	205	85	559	422	4111
0.50 - 0.99	.	595	1096	94	53	1155	475	366	1872	1594	7300
1.00 - 1.49	.	.	207	564	63	227	205	160	469	439	2354
1.50 - 1.99	.	.	.	90	200	254	82	186	140	116	938
2.00 - 2.49	.	.	.	1	58	278	82	69	63	27	615
2.50 - 2.99	.	.	.	.	.	46	113	54	5	41	259
3.00 - 3.49	.	.	.	.	.	.	10	41	5	13	69
3.50 - 3.99	.	.	.	.	.	.	1	.	5	8	14
4.00 - 4.49	.	.	.	.	.	.	.	.	1	5	5
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	511	1224	1303	749	1320	2584	1193	948	3139	2716	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 5.35 ANGLE CLASS % = 15.7

STATION 77 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	675	1155	20	.	797	1685	309	78	15	37	4771
0.50 - 0.99	.	482	2195	573	145	1950	684	49	56	23	6157
1.00 - 1.49	.	.	203	1112	494	1144	448	49	47	30	3527
1.50 - 1.99	.	.	.	75	533	1091	386	44	49	29	2207
2.00 - 2.49	.	.	.	.	97	679	350	73	35	30	1264
2.50 - 2.99	.	.	.	.	3	71	296	104	23	8	505
3.00 - 3.49	.	.	.	.	.	.	20	114	41	10	185
3.50 - 3.99	.	.	.	.	.	.	.	5	25	11	41
4.00 - 4.49	.	.	.	.	.	.	.	.	6	17	23
4.50 - 4.99	.	.	.	.	.	.	.	.	.	10	10
5.00 - GREATER											0
TOTAL	675	1637	2418	1760	2069	6620	2493	516	297	205	

AVERAGE HS(M) = 1.03 LARGEST HS(M) = 4.99 ANGLE CLASS % = 18.7

STATION 77 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1045	2079	2689	4062	2085	795	27	.	.	.	12782
0.50 - 0.99	.	11	746	1018	845	953	51	.	.	.	3624
1.00 - 1.49	.	.	.	29	236	422	56	1	.	.	744
1.50 - 1.99	.	.	.	.	17	61	10	.	.	.	88
2.00 - 2.49	.	.	.	.	5	.	.	.	.	.	5
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1045	2090	3435	5109	3188	2231	144	1	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 2.20 ANGLE CLASS % = 17.3

STATION 77 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

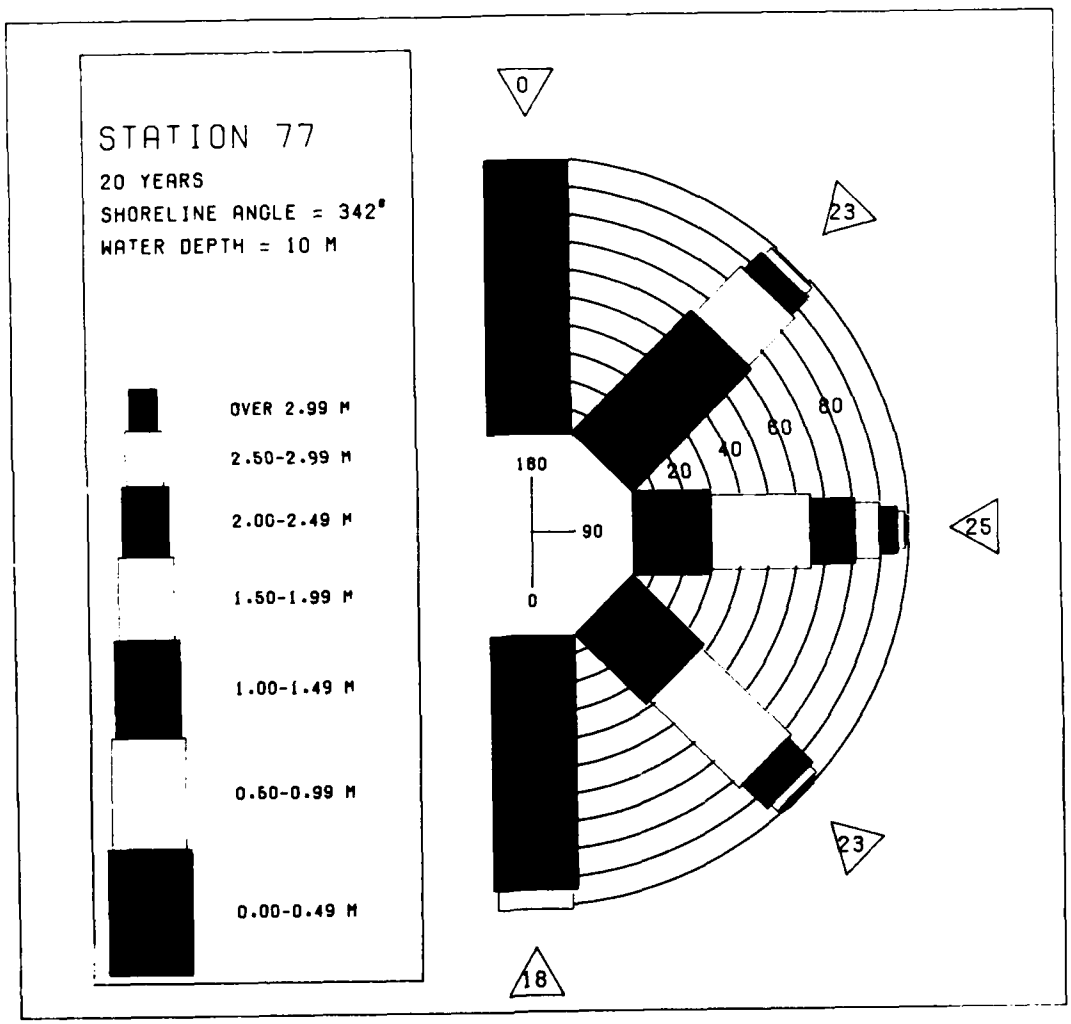
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 77 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	496	957	813	743	540	629	265	37	57	49	4586
0.50 - 0.99	.	177	634	267	151	681	292	66	193	170	2631
1.00 - 1.49	.	.	55	232	108	238	115	28	54	53	881
1.50 - 1.99	.	.	.	19	91	152	63	24	19	15	383
2.00 - 2.49	.	.	.	.	18	102	50	15	10	10	205
2.50 - 2.99	.	.	.	.	.	12	43	17	3	4	79
3.00 - 3.49	.	.	.	.	.	.	3	15	4	2	24
3.50 - 3.99	.	.	.	.	.	.	.	.	3	2	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	2	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	496	1134	1502	1261	908	1814	831	202	343	308	

AVE HS(M) = 0.55 LARGEST HS(M) = 5.35 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 77

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.7	0.3	0.5	0.5	0.5	0.6	0.2	0.2	0.7	1.5	0.9	0.4	0.6
1957	0.4	0.8	0.8	0.4	0.5	0.5	0.3	0.5	0.5	0.8	0.6	0.6	0.6
1958	0.4	0.3	0.8	0.8	0.5	0.3	0.1	0.5	0.5	1.5	1.4	1.1	0.7
1959	0.7	0.9	0.8	0.9	0.2	0.2	0.4	0.3	0.6	0.6	0.7	0.6	0.6
1960	0.4	0.7	0.6	0.4	0.6	0.5	0.3	0.6	0.8	0.6	0.5	0.4	0.5
1961	0.5	0.9	0.6	0.3	0.6	0.5	0.1	0.3	1.0	1.0	0.4	0.2	0.6
1962	0.7	0.7	0.9	0.4	0.5	0.5	0.6	0.4	0.5	0.6	1.1	1.1	0.7
1963	0.5	0.8	0.4	0.3	0.5	0.9	0.4	0.2	1.1	1.0	0.3	0.3	0.6
1964	0.5	0.4	0.4	0.5	0.7	0.3	0.4	0.4	1.2	1.1	0.5	0.5	0.6
1965	0.7	0.6	0.4	0.4	0.2	0.5	0.3	0.4	0.8	0.7	0.4	0.3	0.5
1966	0.6	0.4	0.4	0.4	0.5	0.9	0.9	0.8	0.7	0.6	0.6	0.6	0.6
1967	0.5	0.7	0.4	0.4	0.5	0.5	0.2	0.3	1.0	0.7	0.3	0.6	0.5
1968	0.8	0.5	0.3	0.4	0.4	0.3	0.1	0.1	0.2	0.2	0.3	0.3	0.3
1969	0.8	1.0	0.5	0.4	0.4	0.6	0.4	0.3	0.6	0.9	0.6	0.4	0.6
1970	0.3	0.5	0.5	0.7	0.7	0.6	0.5	0.4	0.2	1.0	1.1	0.4	0.6
1971	0.4	0.4	0.4	0.3	0.4	0.3	0.6	0.6	1.0	1.6	0.9	0.6	0.6
1972	0.5	0.8	0.5	0.4	1.0	0.5	0.3	0.3	0.8	1.1	0.6	0.5	0.6
1973	0.5	0.9	0.8	0.3	0.5	0.4	0.5	0.4	0.4	0.6	0.2	0.7	0.5
1974	0.4	0.5	0.5	0.2	0.4	0.5	0.2	0.3	0.4	0.3	0.3	0.5	0.4
1975	0.6	0.6	0.7	0.4	0.4	0.2	0.4	0.1	0.4	0.7	0.5	0.7	0.5
MEAN	0.5	0.6	0.6	0.4	0.5	0.5	0.4	0.4	0.7	0.9	0.6	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 77

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.8	1.8	1.7	2.8	2.3	2.4	1.3	1.8	4.8	3.9	2.6	1.7
1957	2.2	2.6	2.6	1.5	1.7	2.5	1.2	2.2	1.9	3.3	2.5	2.0
1958	1.8	2.7	2.7	2.4	1.6	1.4	0.8	2.4	2.4	5.3	2.5	2.7
1959	2.0	1.9	2.3	2.6	1.1	0.9	1.6	1.8	1.8	3.0	2.3	2.3
1960	3.5	3.8	2.9	2.1	2.1	2.2	1.6	2.3	2.3	3.1	2.5	1.9
1961	2.5	3.0	2.5	2.7	1.8	1.7	0.8	1.4	3.4	3.0	2.3	1.6
1962	2.7	2.3	5.0	1.9	1.6	2.4	2.6	2.0	2.4	2.4	4.8	3.2
1963	1.4	3.7	1.6	2.5	1.8	2.5	1.4	0.8	2.8	3.4	2.1	1.4
1964	2.9	2.1	2.2	2.0	2.6	1.0	2.3	2.3	3.0	2.5	1.9	2.0
1965	3.3	2.5	1.6	1.6	1.0	2.7	1.5	1.4	2.3	2.9	2.0	1.5
1966	3.0	1.5	1.9	2.1	2.1	3.5	2.4	1.6	2.5	2.6	2.3	2.5
1967	2.0	2.3	2.6	2.2	2.9	1.3	1.1	2.0	3.1	2.0	1.7	2.5
1968	3.5	2.8	1.5	1.5	2.8	0.7	0.8	1.2	1.4	1.1	2.2	1.3
1969	3.6	2.6	3.0	1.9	1.8	1.1	1.4	1.2	2.5	2.8	3.2	2.1
1970	2.3	2.1	2.1	2.7	2.0	1.9	1.1	2.4	1.1	3.5	2.8	2.1
1971	1.4	2.0	2.8	2.8	2.1	1.1	2.1	2.4	3.0	3.0	1.6	2.1
1972	2.1	2.7	1.8	1.6	3.6	2.2	1.9	2.3	2.8	3.0	2.2	2.2
1973	2.4	3.3	2.8	2.2	2.0	1.9	0.9	0.9	1.9	2.2	1.2	3.3
1974	2.0	2.4	3.5	1.2	1.7	2.2	0.5	1.4	1.9	1.7	2.0	3.0
1975	3.5	2.7	2.9	2.2	1.9	2.4	3.0	0.8	1.5	2.2	4.2	2.7

LARGEST HS(METRES) FOR STATION 77 = 5.3

STATION 78 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2191	4828	5159	3133	811	518	.	.	.	.	16640
0.50 - 0.99	.	205	1125	775	328	337	.	.	.	.	2770
1.00 - 1.49	.	.	6	87	59	13	.	.	.	.	165
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2191	5033	6290	3995	1199	868	0	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.63 ANGLE CLASS % = 19.6

STATION 78 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	460	732	.	.	718	2756	2291	229	17	41	7244
0.50 - 0.99	.	487	1194	191	150	2060	1519	256	823	34	6714
1.00 - 1.49	.	.	143	496	208	497	350	42	46	124	1906
1.50 - 1.99	.	.	.	23	150	212	150	10	5	.	550
2.00 - 2.49	.	.	.	.	23	71	56	20	8	.	178
2.50 - 2.99	.	.	.	.	.	3	1	13	1	.	18
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	460	1219	1337	710	1249	5599	4367	570	900	199	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 2.95 ANGLE CLASS % = 16.6

STATION 78 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	407	479	.	.	971	747	169	83	539	583	3978
0.50 - 0.99	.	479	889	78	56	1172	470	352	1043	1500	6039
1.00 - 1.49	.	.	145	494	58	224	203	169	391	326	2003
1.50 - 1.99	.	.	.	68	160	138	88	183	147	95	879
2.00 - 2.49	.	.	.	1	51	268	87	61	63	59	590
2.50 - 2.99	.	.	.	.	1	42	138	46	5	32	264
3.00 - 3.49	.	.	.	.	.	.	11	39	5	3	57
3.50 - 3.99	.	.	.	.	.	.	.	.	3	0	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	6	6
4.50 - 4.99	.	.	.	.	.	.	.	.	1	3	4
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	407	958	1034	641	1297	2591	1166	929	2197	2602	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 5.34 ANGLE CLASS % = 13.9

STATION 78 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	708	987			787	1723	361	77	20	46	4709
0.50 - 0.99	.	764	2114	261	30	1844	674	53	54	23	5821
1.00 - 1.49	.	.	323	1286	340	900	444	44	47	30	3414
1.50 - 1.99	.	.	.	140	605	870	311	37	46	27	2036
2.00 - 2.49	.	.	.	.	142	865	314	61	35	30	1447
2.50 - 2.99	.	.	.	.	1	109	362	94	22	10	598
3.00 - 3.49	.	.	.	.	.	1	39	142	34	10	226
3.50 - 3.99	.	.	.	.	.	.	1	15	35	11	62
4.00 - 4.49	.	.	.	.	.	.	.	.	6	17	23
4.50 - 4.99	.	.	.	.	.	.	.	.	.	8	8
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	708	1751	2441	1687	1905	6312	2506	523	299	213	

AVERAGE HS(M) = 1.06 LARGEST HS(M) = 5.01 ANGLE CLASS % = 18.4

STATION 78 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1211	2436	2684	4488	1984	802	17	.	.	.	13622
0.50 - 0.99	.	119	1546	1550	1035	1132	47	.	.	.	5429
1.00 - 1.49	.	.	27	371	619	819	41	.	.	.	1877
1.50 - 1.99	.	.	.	5	164	513	61	5	.	.	749
2.00 - 2.49	.	.	.	.	11	90	37	.	.	.	138
2.50 - 2.99	.	.	.	.	1	1	.	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1211	2555	4257	6414	3814	3357	204	5	0	0	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 3.49 ANGLE CLASS % = 21.8

STATION 78 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

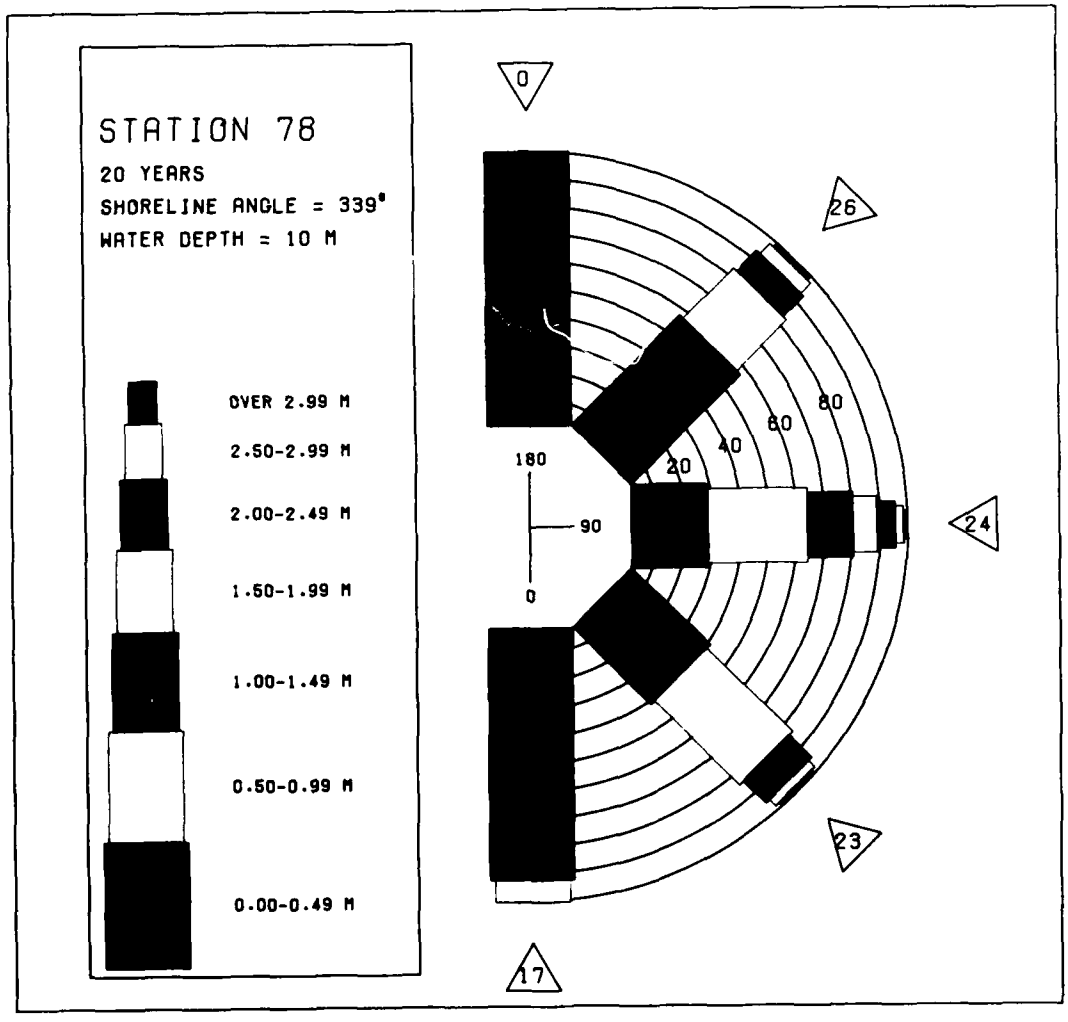
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	20	.	.	.	.	.	.	.	.	.	20
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	20	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 78 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	500	946	784	762	527	654	283	39	57	67	4619
0.50 - 0.99	.	205	687	285	160	654	271	66	192	155	2675
1.00 - 1.49	.	.	64	273	128	245	104	24	48	48	934
1.50 - 1.99	.	.	.	23	108	173	61	23	19	12	419
2.00 - 2.49	.	.	.	.	22	129	49	14	10	9	233
2.50 - 2.99	.	.	.	.	.	15	50	15	2	3	85
3.00 - 3.49	.	.	.	.	.	.	5	18	3	1	27
3.50 - 3.99	.	.	.	.	.	.	.	1	3	1	5
4.00 - 4.49	.	.	.	.	.	.	.	.	.	2	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	500	1151	1535	1343	945	1870	823	200	334	298	

AVE HS(M) = 0.57 LARGEST HS(M) = 5.34 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 78

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.3	0.5	0.5	0.5	0.6	0.2	0.3	0.8	1.5	1.0	0.4	0.6
1957	0.5	0.8	0.9	0.4	0.5	0.5	0.3	0.5	0.5	0.9	0.6	0.6	0.6
1958	0.5	0.4	0.8	0.8	0.5	0.4	0.1	0.5	0.5	1.5	1.3	1.1	0.7
1959	0.7	0.9	0.8	0.8	0.2	0.2	0.4	0.3	0.6	0.6	0.7	0.6	0.6
1960	0.5	0.7	0.7	0.4	0.6	0.5	0.3	0.6	0.8	0.6	0.6	0.4	0.6
1961	0.5	0.9	0.6	0.3	0.6	0.5	0.1	0.4	1.0	1.1	0.5	0.3	0.6
1962	0.8	0.8	1.0	0.4	0.6	0.5	0.6	0.4	0.5	0.6	1.2	1.2	0.7
1963	0.6	0.9	0.4	0.3	0.5	0.9	0.4	0.2	1.1	1.0	0.3	0.4	0.6
1964	0.5	0.5	0.4	0.5	0.7	0.3	0.4	0.4	1.3	1.1	0.6	0.6	0.6
1965	0.7	0.7	0.4	0.4	0.2	0.5	0.3	0.4	0.8	0.7	0.4	0.3	0.5
1966	0.7	0.5	0.4	0.4	0.5	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6
1967	0.5	0.7	0.5	0.5	0.5	0.5	0.2	0.3	1.1	0.7	0.3	0.7	0.6
1968	0.9	0.6	0.4	0.5	0.4	0.3	0.1	0.2	0.2	0.2	0.4	0.3	0.4
1969	0.9	1.1	0.6	0.4	0.4	0.5	0.3	0.3	0.7	1.0	0.7	0.5	0.6
1970	0.4	0.5	0.6	0.7	0.7	0.6	0.5	0.4	0.3	1.0	1.1	0.5	0.6
1971	0.5	0.4	0.5	0.3	0.4	0.3	0.6	0.6	1.0	1.6	1.0	0.7	0.6
1972	0.5	0.9	0.5	0.5	1.0	0.5	0.3	0.3	0.8	1.1	0.7	0.6	0.6
1973	0.6	1.0	0.9	0.3	0.4	0.4	0.5	0.4	0.4	0.6	0.2	0.7	0.5
1974	0.5	0.6	0.6	0.2	0.4	0.5	0.2	0.3	0.4	0.4	0.4	0.5	0.4
1975	0.7	0.6	0.7	0.4	0.4	0.2	0.4	0.1	0.4	0.7	0.5	0.7	0.5
MEAN	0.6	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.7	0.9	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 78

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.8	1.8	1.9	2.9	2.3	2.4	1.3	1.9	4.8	3.9	2.7	1.8
1957	2.2	2.8	2.8	1.5	1.9	2.5	1.2	2.2	2.0	3.3	2.5	2.0
1958	1.9	2.7	2.8	2.5	1.7	1.8	0.8	2.5	2.4	5.3	2.4	2.8
1959	2.0	2.1	2.3	2.6	1.1	1.0	1.6	2.2	1.9	3.0	2.4	2.4
1960	3.5	3.8	2.9	2.1	2.1	2.2	1.5	2.4	2.3	3.1	2.5	1.8
1961	2.5	3.0	2.5	2.6	1.8	1.8	0.7	1.4	3.4	3.1	2.3	2.0
1962	2.8	2.4	5.0	1.8	1.6	2.4	2.6	2.0	2.5	2.4	4.8	3.3
1963	1.6	3.7	1.6	2.5	1.8	2.4	1.5	0.8	2.8	3.4	2.1	1.4
1964	3.0	2.1	2.2	2.0	2.6	1.1	2.3	2.3	3.1	2.4	2.1	2.5
1965	3.5	2.4	1.7	1.7	1.0	2.7	1.6	1.3	2.3	2.9	2.0	1.7
1966	3.2	1.4	2.1	2.1	2.1	3.6	2.4	1.6	2.5	2.7	2.3	2.5
1967	2.0	2.5	2.6	2.2	3.0	1.3	1.1	2.0	3.2	2.0	1.8	2.5
1968	3.6	3.2	1.7	1.4	2.8	0.7	0.7	1.3	1.4	1.1	2.0	1.6
1969	3.6	2.9	3.0	2.0	1.9	1.1	1.5	1.5	2.5	2.8	3.2	2.0
1970	2.5	2.3	2.1	2.7	2.0	1.9	1.0	2.5	1.2	3.6	2.9	2.0
1971	1.5	2.0	3.0	2.9	2.1	1.2	2.2	2.4	3.0	3.2	1.8	2.2
1972	2.3	2.8	2.1	1.9	3.6	2.2	1.9	2.4	2.8	3.0	2.5	2.3
1973	2.5	3.6	2.8	2.2	2.0	1.9	0.9	0.8	2.0	2.4	1.2	3.3
1974	2.1	2.4	3.5	1.5	1.7	2.2	0.7	1.4	2.0	2.0	2.1	3.0
1975	3.5	2.7	2.8	2.3	1.9	2.7	3.2	0.8	1.5	2.3	4.2	3.1

LARGEST HS(METRES) FOR STATION 78 = 5.3

STATION 79 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2915	6387	6736	4425	1011	381	1	.	.	.	21856
0.50 - 0.99	.	154	1519	1096	458	429	6	.	.	.	3662
1.00 - 1.49	.	.	15	77	97	10	3	.	.	.	202
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2915	6541	8270	5598	1570	820	10	0	0	0	

AVERAGE HS(M) = 0.27 LARGEST HS(M) = 2.08 ANGLE CLASS % = 25.7

STATION 79 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	489	903			473	160	118	20	29	44	2236
0.50 - 0.99	.	509	1384	265	78	225	145	32	47	13	2718
1.00 - 1.49	.	.	131	626	297	419	116	27	8	1	1625
1.50 - 1.99	.	.	.	23	154	273	58	15	3	.	526
2.00 - 2.49	.	.	.	.	34	77	34	13	3	.	161
2.50 - 2.99	.	.	.	.	.	11	6	8	.	.	25
3.00 - 3.49	.	.	.	.	.	.	.	6	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	489	1412	1515	934	1036	1165	477	121	90	58	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.12 ANGLE CLASS % = 7.3

STATION 79 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	373	506			1007	1095	441	88	284	208	4002
0.50 - 0.99	.	398	954	83	57	1043	479	30	616	936	4600
1.00 - 1.49	.	.	121	426	66	227	143	90	513	598	2184
1.50 - 1.99	.	.	.	47	160	138	29	78	273	56	781
2.00 - 2.49	.	.	.	.	42	198	59	29	157	42	527
2.50 - 2.99	.	.	.	.	.	27	85	27	42	10	191
3.00 - 3.49	.	.	.	.	.	.	6	35	13	5	59
3.50 - 3.99	.	.	.	.	.	.	.	.	10	.	10
4.00 - 4.49	.	.	.	.	.	.	.	.	6	.	6
4.50 - 4.99	.	.	.	.	.	.	.	.	1	1	2
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	373	904	1077	556	1334	2728	1242	377	1915	1857	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 5.10 ANGLE CLASS % = 12.4

STATION 79 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	653	768			918	1079	296	53	27	27	3821
0.50 - 0.99	.	670	1805	203	70	1671	821	73	65	20	5398
1.00 - 1.49	.	.	198	1054	231	670	564	100	56	34	2907
1.50 - 1.99	.	.	.	123	503	568	302	78	70	25	1669
2.00 - 2.49	.	.	.	.	126	701	364	88	51	25	1355
2.50 - 2.99	.	.	.	.	1	94	265	154	54	13	581
3.00 - 3.49	.	.	.	.	.	.	11	131	75	10	227
3.50 - 3.99	.	.	.	.	.	1	.	6	47	18	72
4.00 - 4.49	.	.	.	.	.	.	.	.	3	17	20
4.50 - 4.99	.	.	.	.	.	.	.	.	.	10	10
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	653	1438	2003	1380	1849	4784	2623	683	448	200	

AVERAGE HS(M) = 1.08 LARGEST HS(M) = 5.13 ANGLE CLASS % = 16.1

STATION 79 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	982	1916	1074	1415	1916	1509	138	5	1	.	8956
0.50 - 0.99	.	231	2325	1818	1112	1765	189	8	1	.	7449
1.00 - 1.49	.	.	70	698	730	1456	219	20	1	.	3194
1.50 - 1.99	.	.	.	17	297	864	254	27	.	.	1459
2.00 - 2.49	.	.	.	.	35	155	116	61	3	.	370
2.50 - 2.99	.	.	.	.	.	6	25	20	.	.	51
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	982	2147	3469	3948	4090	5755	942	142	6	0	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.74 ANGLE CLASS % = 21.5

STATION 79 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

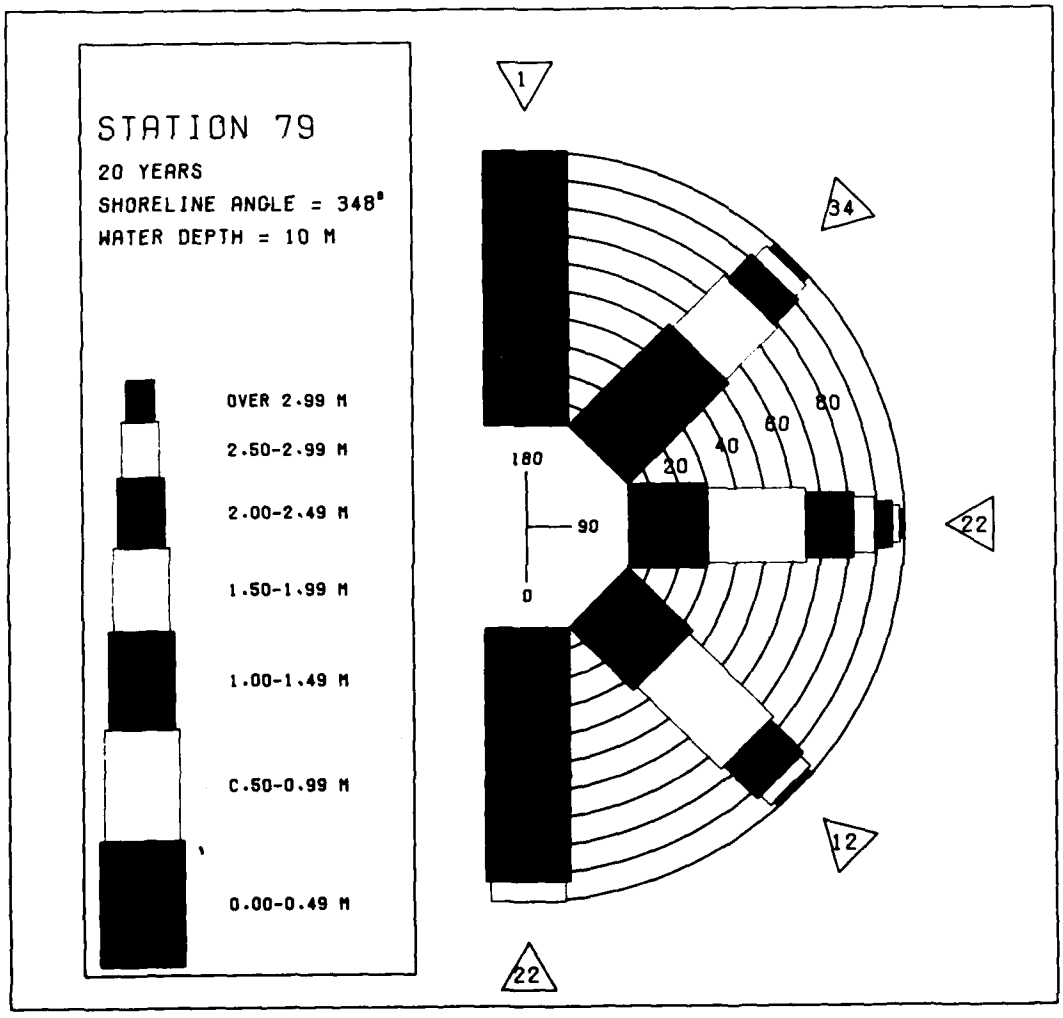
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	706	1432	2174	3593	475	.	.	.	.	.	8380
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	706	1432	2174	3593	475	0	0	0	0	0	

AVERAGE HS(M) = 0.10 LARGEST HS(M) = 0.47 ANGLE CLASS % = 8.4

STATION 79 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	612	1191	998	943	580	422	99	16	34	28	4923
0.50 - 0.99	.	196	799	348	177	513	164	14	73	97	2381
1.00 - 1.49	.	.	53	288	142	278	104	23	58	63	1009
1.50 - 1.99	.	.	.	21	111	184	64	20	34	8	442
2.00 - 2.49	.	.	.	.	24	113	57	19	21	6	240
2.50 - 2.99	.	.	.	.	.	14	38	21	9	2	84
3.00 - 3.49	.	.	.	.	.	.	2	17	8	1	28
3.50 - 3.99	.	.	.	.	.	.	.	.	5	1	6
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	612	1387	1850	1600	1034	1524	528	130	243	208	

AVE HS(M) = 0.57 LARGEST HS(M) = 5.13 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 79

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.4	0.5	0.5	0.5	0.6	0.2	0.3	0.8	1.4	1.3	0.6	0.7
1957	0.5	0.8	0.8	0.4	0.5	0.6	0.3	0.5	0.6	0.7	0.5	0.6	0.6
1958	0.5	0.4	0.8	0.8	0.5	0.4	0.2	0.5	0.4	1.6	1.0	0.8	0.7
1959	0.4	0.6	0.6	0.6	0.3	0.2	0.4	0.4	0.7	0.7	0.8	0.7	0.5
1960	0.5	0.7	0.7	0.5	0.6	0.6	0.4	0.6	0.8	0.7	0.6	0.5	0.6
1961	0.6	0.8	0.6	0.4	0.5	0.4	0.2	0.4	1.0	1.1	0.6	0.3	0.6
1962	0.8	0.8	1.0	0.4	0.6	0.5	0.6	0.4	0.5	0.6	1.2	1.2	0.7
1963	0.6	0.9	0.4	0.4	0.5	0.4	0.2	0.2	1.2	1.0	0.3	0.4	0.6
1964	0.6	0.5	0.5	0.6	0.6	0.3	0.4	0.5	1.3	1.6	1.1	0.6	0.7
1965	0.8	0.7	0.5	0.4	0.3	0.5	0.3	0.3	0.8	0.8	0.5	0.3	0.5
1966	0.7	0.5	0.5	0.5	0.4	0.5	0.3	0.3	0.6	0.7	0.8	0.7	0.5
1967	0.5	0.7	0.5	0.5	0.6	0.5	0.3	0.4	0.9	0.6	0.4	0.7	0.6
1968	0.9	0.7	0.4	0.5	0.4	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.4
1969	0.8	1.0	0.6	0.4	0.4	0.4	0.3	0.3	0.7	1.0	0.6	0.5	0.6
1970	0.5	0.6	0.6	0.7	0.7	0.6	0.3	0.4	0.3	1.1	1.1	0.5	0.6
1971	0.6	0.5	0.5	0.3	0.4	0.3	0.5	0.5	0.8	1.2	1.0	0.8	0.6
1972	0.6	0.9	0.6	0.5	0.9	0.5	0.3	0.4	0.9	1.0	0.8	0.6	0.7
1973	0.7	1.0	0.9	0.4	0.4	0.4	0.2	0.1	0.4	0.6	0.3	0.7	0.5
1974	0.4	0.6	0.6	0.2	0.3	0.4	0.1	0.3	0.4	0.5	0.4	0.5	0.4
1975	0.7	0.7	0.8	0.5	0.3	0.3	0.4	0.1	0.4	0.6	0.5	0.8	0.5
MEAN	0.6	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.7	0.9	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 79

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.7	1.8	1.8	2.8	2.2	2.4	1.2	1.7	4.3	4.5	2.8	2.0
1957	2.1	2.7	2.8	1.5	2.0	2.6	1.2	2.2	2.0	3.5	2.2	2.1
1958	1.9	2.7	2.7	2.7	2.0	1.9	0.8	2.2	2.5	5.1	2.4	2.7
1959	2.0	2.1	2.6	2.5	1.1	1.1	1.6	1.7	1.8	3.0	2.3	2.3
1960	3.4	3.9	3.0	2.1	2.1	2.1	2.0	2.3	2.2	2.9	2.6	1.9
1961	2.4	3.1	2.5	2.4	1.8	2.0	0.9	1.4	3.1	3.0	2.3	2.0
1962	2.8	2.5	5.1	2.2	1.7	2.5	2.5	2.0	2.7	2.4	4.7	3.4
1963	1.6	3.6	2.0	2.5	1.8	2.5	1.5	0.9	3.3	3.4	2.2	1.5
1964	2.9	2.1	2.0	2.2	2.5	1.1	2.2	2.3	3.4	2.6	2.3	2.3
1965	3.4	2.5	1.7	1.9	1.1	2.6	1.1	1.0	2.3	3.0	1.8	1.8
1966	3.1	1.6	2.5	2.1	2.2	3.4	2.2	1.5	2.2	2.6	2.5	2.5
1967	2.1	2.2	2.5	2.1	3.0	2.3	1.1	2.0	3.1	1.6	1.6	2.4
1968	3.8	3.2	1.8	1.5	2.7	0.8	0.8	1.3	1.1	1.4	2.3	1.6
1969	3.5	3.0	3.2	2.1	1.7	1.5	1.3	1.2	2.6	2.8	3.4	2.6
1970	2.4	2.4	2.4	2.4	2.1	1.9	1.0	2.4	1.2	3.6	2.7	2.5
1971	2.0	2.1	2.9	3.0	2.1	1.3	2.1	2.5	3.1	3.1	1.8	2.5
1972	2.3	2.8	2.0	2.0	3.7	2.4	1.8	2.2	2.5	3.0	2.3	2.2
1973	2.5	4.0	3.1	1.7	1.9	1.9	0.7	0.8	2.0	2.3	1.3	3.4
1974	2.1	2.7	3.3	1.6	1.5	2.0	0.6	1.4	1.8	2.0	2.1	3.0
1975	3.7	2.7	3.1	2.4	1.4	2.6	3.5	0.6	1.7	2.3	3.8	2.6

LARGEST HS(METRES) FOR STATION 79 = 5.1

STATION 80 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3287	6723	7453	6127	1332	426	.	.	.	.	25348
0.50 - 0.99	.	155	1457	1047	450	429	.	.	.	.	3538
1.00 - 1.49	.	.	15	78	97	10	.	.	.	.	200
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3287	6878	8925	7252	1886	865	0	0	0	0	

AVERAGE HS(M) = 0.23 LARGEST HS(M) = 2.08 ANGLE CLASS % = 29.1

STATION 80 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	499	905	.	.	414	126	131	22	29	53	2179
0.50 - 0.99	.	494	1380	275	85	219	145	35	47	11	2691
1.00 - 1.49	.	.	133	595	284	388	118	25	6	1	1550
1.50 - 1.99	.	.	.	23	142	254	53	11	5	.	488
2.00 - 2.49	.	.	.	.	34	71	41	17	1	.	164
2.50 - 2.99	.	.	.	.	.	11	6	5	1	.	23
3.00 - 3.49	.	.	.	.	.	.	.	5	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	499	1399	1513	893	959	1069	494	120	89	65	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.09 ANGLE CLASS % = 7.1

STATION 80 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	374	511	.	.	896	1066	417	90	263	181	3798
0.50 - 0.99	.	410	953	88	61	1048	451	23	557	910	4501
1.00 - 1.49	.	.	114	470	71	225	152	87	533	586	2238
1.50 - 1.99	.	.	.	44	172	145	32	80	280	59	812
2.00 - 2.49	.	.	.	.	46	212	51	32	157	51	549
2.50 - 2.99	.	.	.	.	.	29	92	34	41	10	206
3.00 - 3.49	.	.	.	.	.	.	6	39	13	5	63
3.50 - 3.99	.	.	.	.	.	.	.	.	10	.	10
4.00 - 4.49	.	.	.	.	.	.	.	.	6	.	6
4.50 - 4.99	.	.	.	.	.	.	.	.	1	1	2
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	374	921	1067	602	1246	2725	1201	385	1861	1804	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 5.10 ANGLE CLASS % = 12.2

STATION 80 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	617	708			788	1042	273	46	15	30	3519
0.50 - 0.99	.	648	1728	159	54	1656	795	78	23	18	5196
1.00 - 1.49	.	.	207	963	193	698	590	97	59	35	2842
1.50 - 1.99	.	.	.	140	491	537	357	73	68	25	1671
2.00 - 2.49	.	.	.	.	136	706	345	80	53	23	1343
2.50 - 2.99	.	.	.	.	1	95	277	136	51	13	573
3.00 - 3.49	.	.	.	.	.	.	18	143	70	10	241
3.50 - 3.99	.	.	.	.	.	1	.	10	54	20	85
4.00 - 4.49	.	.	.	.	.	.	.	.	5	17	22
4.50 - 4.99	.	.	.	.	.	.	.	.	.	10	10
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	617	1356	1935	1262	1663	4735	2635	660	438	202	

AVERAGE HS(M) = 1.10 LARGEST HS(M) = 5.16 ANGLE CLASS % = 15.5

STATION 80 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	593	929	5		573	1030	99	5	8	.	3242
0.50 - 0.99	.	472	2169	891	479	994	104	.	.	.	5109
1.00 - 1.49	.	.	169	1225	997	1526	159	6	.	.	4082
1.50 - 1.99	.	.	.	51	501	1273	203	15	1	.	2044
2.00 - 2.49	.	.	.	.	65	379	210	77	.	.	731
2.50 - 2.99	.	.	.	.	.	20	61	39	3	.	123
3.00 - 3.49	.	.	.	.	.	.	3	8	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	593	1401	2343	2167	2615	5222	839	151	13	0	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 4.00 ANGLE CLASS % = 15.4

STATION 80 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

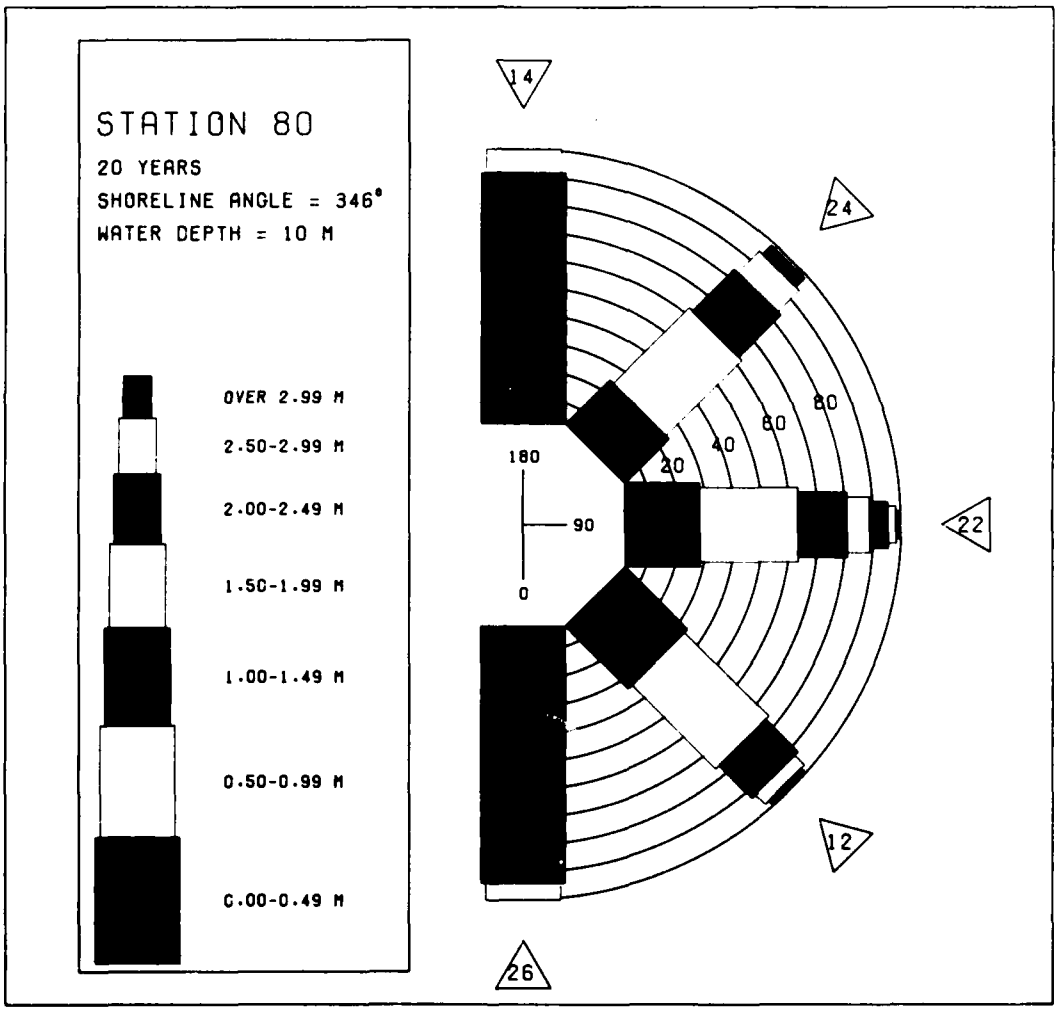
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1536	3059	3305	4560	1315	46	.	.	.	.	13821
0.50 - 0.99	.	44	1066	1983	814	32	.	.	.	.	3939
1.00 - 1.49	.	.	6	59	92	.	.	.	.	.	157
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1536	3103	4377	6602	2224	78	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.53 ANGLE CLASS % = 17.9

STATION 80 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	690	1283	1076	1068	532	373	92	16	31	26	5187
0.50 - 0.99	.	222	875	444	194	438	149	13	66	54	2455
1.00 - 1.49	.	.	64	339	173	264	101	21	60	62	1104
1.50 - 1.99	.	.	.	26	131	221	62	18	35	8	501
2.00 - 2.49	.	.	.	.	28	137	64	20	21	7	277
2.50 - 2.99	.	.	.	.	.	15	43	21	9	2	90
3.00 - 3.49	.	.	.	.	.	.	2	19	8	1	30
3.50 - 3.99	.	.	.	.	.	.	.	1	6	2	9
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	690	1505	2015	1877	1058	1468	513	129	237	204	

AVE HS(M) = 0.62 LARGEST HS(M) = 5.16 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 80

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.4	0.6	0.5	0.6	0.6	0.2	0.3	0.8	1.5	1.3	0.7	0.7
1957	0.6	0.9	0.9	0.5	0.5	0.6	0.3	0.5	0.6	0.8	0.6	0.6	0.6
1958	0.7	0.5	0.9	0.8	0.5	0.4	0.2	0.5	0.5	1.6	1.1	0.9	0.7
1959	0.5	0.7	0.6	0.6	0.3	0.2	0.4	0.4	0.7	0.7	0.9	0.7	0.6
1960	0.6	0.8	0.8	0.5	0.6	0.6	0.4	0.6	0.8	0.7	0.7	0.6	0.6
1961	0.7	0.9	0.7	0.4	0.5	0.4	0.2	0.4	1.0	1.1	0.7	0.4	0.6
1962	0.9	0.9	1.1	0.5	0.6	0.5	0.6	0.5	0.5	0.7	1.3	1.3	0.8
1963	0.7	1.0	0.5	0.5	0.6	0.4	0.2	0.3	1.2	1.0	0.4	0.5	0.6
1964	0.7	0.6	0.5	0.6	0.7	0.3	0.4	0.5	1.3	1.6	1.1	0.7	0.7
1965	0.9	0.8	0.5	0.5	0.3	0.5	0.3	0.3	0.8	0.8	0.6	0.4	0.6
1966	0.8	0.6	0.5	0.5	0.5	0.5	0.3	0.3	0.6	0.8	0.9	0.7	0.6
1967	0.6	0.8	0.6	0.6	0.6	0.5	0.3	0.4	1.0	0.6	0.5	0.8	0.6
1968	1.0	0.8	0.4	0.5	0.4	0.2	0.1	0.2	0.2	0.3	0.4	0.5	0.4
1969	0.9	1.1	0.7	0.5	0.4	0.4	0.3	0.4	0.7	1.1	0.7	0.7	0.7
1970	0.6	0.6	0.6	0.8	0.7	0.6	0.3	0.4	0.3	1.1	1.1	0.6	0.6
1971	0.7	0.5	0.6	0.4	0.5	0.3	0.5	0.5	0.8	1.2	1.0	0.8	0.7
1972	0.7	1.0	0.7	0.6	0.9	0.5	0.3	0.4	0.9	1.1	0.9	0.7	0.7
1973	0.8	1.1	1.0	0.4	0.4	0.4	0.2	0.2	0.4	0.7	0.4	0.8	0.6
1974	0.5	0.7	0.6	0.3	0.4	0.4	0.1	0.3	0.5	0.5	0.5	0.5	0.4
1975	0.8	0.7	0.8	0.5	0.3	0.3	0.5	0.1	0.4	0.6	0.6	0.8	0.5
MEAN	0.7	0.8	0.7	0.5	0.5	0.4	0.3	0.4	0.7	0.9	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 80

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.7	1.8	2.1	2.9	2.3	2.4	1.2	1.7	4.3	4.5	2.9	2.0
1957	2.1	2.7	2.9	1.7	2.1	2.6	1.2	2.2	2.0	3.5	2.2	2.1
1958	2.0	2.7	2.7	2.7	2.0	1.9	0.8	2.3	2.5	5.1	2.4	2.8
1959	2.1	2.1	2.6	2.7	1.2	1.1	1.6	2.0	1.8	3.0	2.6	2.5
1960	3.4	3.9	3.1	2.1	2.1	2.1	1.9	2.3	2.2	3.0	2.6	2.1
1961	2.5	3.1	2.5	2.4	1.8	2.1	0.9	1.4	3.2	3.0	2.3	2.1
1962	2.8	2.6	5.2	2.2	1.7	2.5	2.5	2.0	2.7	2.5	4.7	3.4
1963	1.7	3.6	2.1	2.5	1.8	2.5	1.5	1.0	3.4	3.4	2.2	1.6
1964	2.9	2.1	2.1	2.2	2.6	1.2	2.2	2.3	3.4	2.6	2.3	2.5
1965	3.4	2.5	1.7	2.0	1.1	2.6	1.3	1.0	2.3	3.0	1.8	2.0
1966	3.2	1.7	2.6	2.1	2.2	3.5	2.3	1.6	2.2	2.7	2.5	2.5
1967	2.1	2.3	2.5	2.1	3.1	2.3	1.1	2.0	3.1	2.0	1.8	2.6
1968	3.8	3.4	2.0	1.5	2.7	0.8	0.8	1.4	1.1	1.4	2.3	1.8
1969	3.5	3.1	3.2	2.2	1.8	1.5	1.4	1.4	2.6	2.8	3.3	2.6
1970	2.4	2.1	2.4	2.4	2.1	2.0	1.0	2.4	1.6	3.6	2.9	2.5
1971	2.1	2.1	3.0	3.0	2.1	1.3	2.1	2.5	3.1	3.2	1.9	2.5
1972	2.6	2.9	2.0	2.4	3.7	2.4	1.8	2.2	2.6	3.0	2.4	2.3
1973	2.6	4.0	3.1	1.9	1.9	1.9	0.7	0.9	2.1	2.6	1.6	3.4
1974	2.1	2.7	3.3	1.8	1.6	2.0	0.6	1.4	2.0	2.2	2.2	3.0
1975	3.7	2.7	3.1	2.5	1.4	2.8	3.5	0.6	1.7	2.5	3.8	2.6

LARGEST HS(METRES) FOR STATION 80 = 5.2

STATION 81 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3246	6827	7505	6276	1394	568	.	.	.	.	25816
0.50 - 0.99	.	152	1334	901	405	398	.	.	.	.	3190
1.00 - 1.49	.	.	20	77	97	11	.	.	.	.	205
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3246	6979	8859	7254	1897	977	0	0	0	0	

AVERAGE HS(M) = 0.21 LARGEST HS(M) = 1.73 ANGLE CLASS % = 29.2

STATION 81 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	533	918	.	.	403	124	174	32	46	54	2284
0.50 - 0.99	.	465	1341	275	47	219	143	35	27	5	2557
1.00 - 1.49	.	.	131	617	256	313	90	11	15	1	1434
1.50 - 1.99	.	.	.	25	148	224	51	18	3	.	469
2.00 - 2.49	.	.	.	.	34	87	42	11	3	.	177
2.50 - 2.99	.	.	.	.	.	8	3	8	1	.	20
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	533	1383	1472	917	888	975	503	116	95	60	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.08 ANGLE CLASS % = 7.0

STATION 81 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	390	515	.	.	1016	1146	424	90	268	188	4037
0.50 - 0.99	.	395	1024	88	71	1158	468	22	530	906	4663
1.00 - 1.49	.	.	116	448	75	272	150	85	525	576	2247
1.50 - 1.99	.	.	.	49	184	152	34	78	289	66	852
2.00 - 2.49	.	.	.	.	65	231	63	29	159	53	600
2.50 - 2.99	.	.	.	.	.	39	104	47	39	10	239
3.00 - 3.49	.	.	.	.	.	.	6	44	15	5	70
3.50 - 3.99	.	.	.	.	.	.	.	.	8	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	6	.	6
4.50 - 4.99	.	.	.	.	.	.	.	.	1	1	2
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	390	910	1140	585	1411	2998	1249	396	1840	1806	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 5.07 ANGLE CLASS % = 12.7

STATION 81 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	590	693	173	167	852	1213	347	58	22	47	3822
0.50 - 0.99	.	691	1733	167	42	1611	833	66	65	17	5225
1.00 - 1.49	.	.	213	1042	234	710	610	95	54	34	2992
1.50 - 1.99	.	.	.	140	530	595	361	77	71	23	1797
2.00 - 2.49	.	.	.	.	152	840	364	71	51	27	1505
2.50 - 2.99	.	.	.	.	1	94	314	133	51	11	604
3.00 - 3.49	.	.	.	.	.	3	25	165	54	8	255
3.50 - 3.99	.	.	.	.	.	1	.	15	70	22	108
4.00 - 4.49	.	.	.	.	.	.	.	.	6	18	24
4.50 - 4.99	.	.	.	.	.	.	.	.	.	10	10
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	590	1384	1946	1349	1811	5067	2854	680	444	218	

AVERAGE HS(M) = 1.11 LARGEST HS(M) = 5.25 ANGLE CLASS % = 16.4

STATION 81 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	619	939	3	.	412	800	6	.	.	.	2779
0.50 - 0.99	.	426	2212	951	523	650	35	.	.	.	4797
1.00 - 1.49	.	.	174	1286	1088	1408	70	1	.	.	4027
1.50 - 1.99	.	.	.	47	530	1360	172	8	.	.	2117
2.00 - 2.49	.	.	.	.	66	398	203	42	1	.	710
2.50 - 2.99	.	.	.	.	.	22	63	51	3	.	139
3.00 - 3.49	.	.	.	.	.	.	3	6	3	.	12
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	619	1365	2389	2284	2617	4638	552	113	7	0	

AVERAGE HS(M) = 1.03 LARGEST HS(M) = 3.90 ANGLE CLASS % = 14.6

STATION 81 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

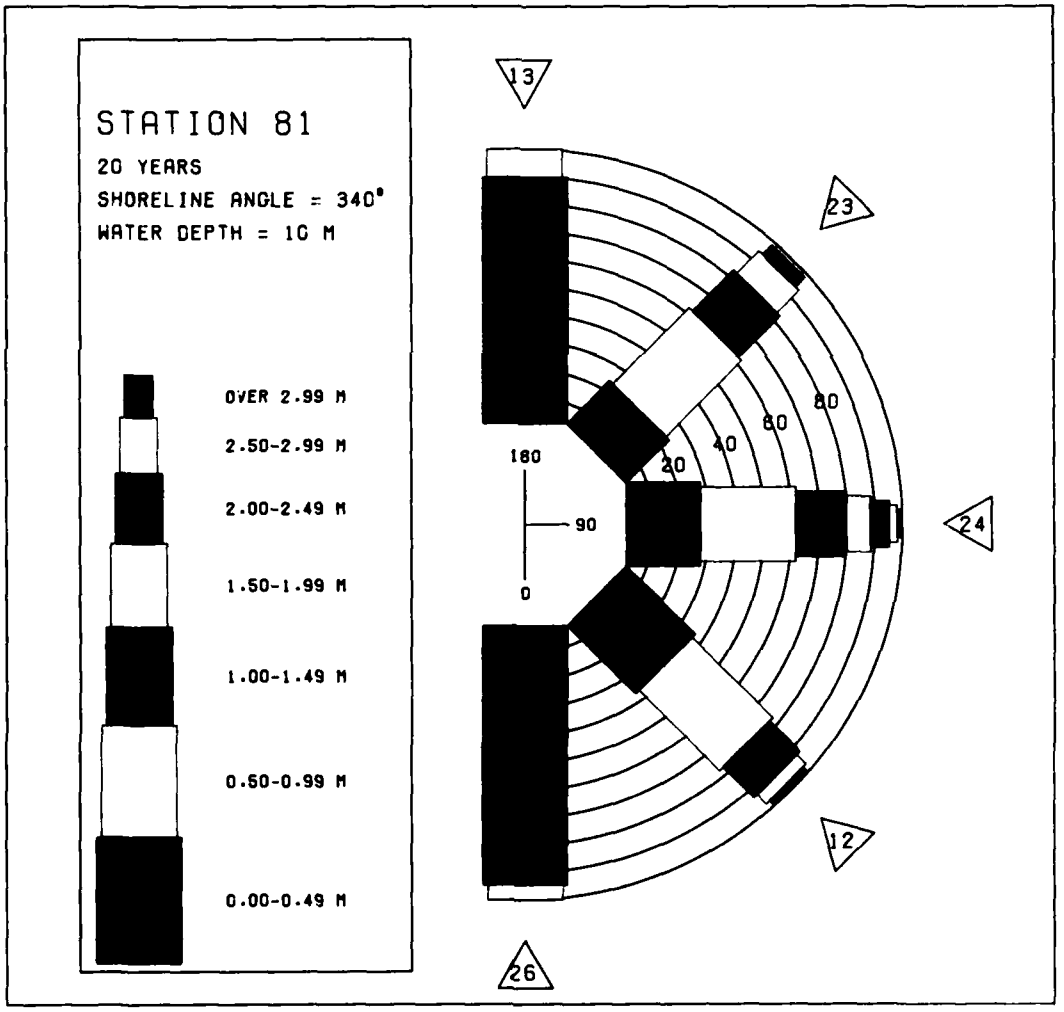
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1528	2936	3095	3992	1038	34	.	.	.	.	12623
0.50 - 0.99	.	58	1060	2340	836	18	.	.	.	.	4312
1.00 - 1.49	.	.	6	90	46	.	.	.	.	.	142
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1528	2994	4161	6422	1920	52	0	0	0	0	

AVERAGE HS(M) = 0.35 LARGEST HS(M) = 1.41 ANGLE CLASS % = 17.1

STATION 81 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	690	1283	1060	1026	511	388	95	18	33	29	5133
0.50 - 0.99	.	218	870	472	192	405	148	12	62	92	2471
1.00 - 1.49	.	.	66	356	179	271	92	19	66	61	1103
1.50 - 1.99	.	.	.	26	139	233	61	18	36	9	522
2.00 - 2.49	.	.	.	.	31	155	67	15	21	8	297
2.50 - 2.99	.	.	.	.	.	16	48	24	9	2	99
3.00 - 3.49	.	.	.	.	.	.	3	21	7	1	32
3.50 - 3.99	.	.	.	.	.	.	.	1	7	2	10
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	690	1501	1996	1880	1052	1468	514	128	235	206	

AVE HS(M) = 0.62 LARGEST HS(M) = 5.25 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 81

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	0.4	0.6	0.5	0.6	0.6	0.2	0.3	0.8	1.5	1.3	0.7	0.7
1957	0.7	0.9	0.9	0.5	0.5	0.6	0.3	0.5	0.6	0.8	0.6	0.6	0.6
1958	0.7	0.5	0.9	0.8	0.5	0.4	0.1	0.5	0.5	1.6	1.1	1.0	0.7
1959	0.5	0.7	0.6	0.6	0.3	0.2	0.4	0.4	0.7	0.7	0.9	0.8	0.6
1960	0.7	0.8	0.9	0.5	0.6	0.6	0.4	0.5	0.9	0.8	0.7	0.6	0.7
1961	0.7	0.9	0.7	0.4	0.5	0.4	0.2	0.4	1.0	1.2	0.7	0.4	0.6
1962	0.9	0.9	1.2	0.5	0.6	0.5	0.6	0.5	0.6	0.7	1.3	1.3	0.8
1963	0.8	1.0	0.5	0.5	0.6	0.4	0.2	0.3	1.2	1.0	0.4	0.5	0.6
1964	0.7	0.6	0.5	0.6	0.7	0.3	0.4	0.5	1.4	1.6	1.1	0.7	0.8
1965	0.9	0.8	0.5	0.5	0.3	0.5	0.3	0.3	0.8	0.8	0.6	0.4	0.6
1966	0.9	0.6	0.5	0.5	0.4	0.5	0.3	0.3	0.6	0.8	0.9	0.8	0.6
1967	0.6	0.8	0.6	0.6	0.6	0.5	0.3	0.4	1.0	0.6	0.5	0.8	0.6
1968	1.0	0.8	0.4	0.5	0.4	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4
1969	0.9	1.2	0.7	0.5	0.4	0.4	0.3	0.4	0.8	1.1	0.8	0.7	0.7
1970	0.6	0.7	0.6	0.8	0.7	0.6	0.3	0.4	0.4	1.1	1.1	0.6	0.7
1971	0.7	0.5	0.6	0.4	0.4	0.3	0.5	0.5	0.8	1.2	1.1	0.8	0.7
1972	0.7	1.0	0.7	0.6	0.9	0.5	0.3	0.4	1.0	1.1	0.9	0.7	0.7
1973	0.8	1.1	1.0	0.4	0.4	0.4	0.2	0.1	0.4	0.7	0.4	0.8	0.6
1974	0.5	0.8	0.6	0.3	0.4	0.4	0.1	0.3	0.5	0.5	0.5	0.6	0.4
1975	0.8	0.7	0.8	0.6	0.3	0.3	0.4	0.1	0.4	0.7	0.6	0.9	0.5
MEAN	0.7	0.8	0.7	0.5	0.5	0.4	0.3	0.4	0.7	0.9	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 81

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.8	1.6	2.1	2.9	2.3	2.3	1.2	1.8	4.4	4.5	2.9	2.0
1957	2.1	2.8	2.9	1.7	2.1	2.6	1.3	2.3	2.0	3.5	2.2	2.0
1958	2.2	2.7	2.8	2.8	2.0	1.9	0.8	2.5	2.3	5.1	2.4	3.0
1959	2.1	2.1	2.6	2.7	1.3	1.1	1.6	2.0	1.9	3.0	2.4	2.5
1960	3.4	3.9	3.1	2.1	2.1	2.3	1.9	2.4	2.3	3.2	2.7	2.2
1961	2.6	3.1	2.5	2.4	1.7	2.1	0.8	1.5	3.2	3.1	2.4	2.2
1962	2.9	2.8	5.3	2.0	1.7	2.5	2.4	2.0	2.7	2.5	4.7	3.4
1963	1.9	3.6	2.1	2.5	1.9	2.5	1.5	1.0	3.4	3.4	2.0	1.6
1964	2.9	2.1	2.2	2.2	2.6	1.2	2.2	2.3	3.4	2.6	2.4	2.5
1965	3.6	2.5	1.8	2.0	1.1	2.6	1.3	1.0	2.3	3.0	1.8	2.2
1966	3.3	1.9	2.6	2.1	2.2	3.5	2.3	1.7	2.1	2.8	2.5	2.5
1967	2.1	2.4	2.6	2.1	3.1	2.3	1.0	2.2	3.1	2.0	1.8	2.9
1968	3.8	3.6	2.2	1.5	2.7	0.8	0.7	1.4	1.1	1.2	2.3	1.8
1969	3.5	3.3	3.4	2.3	2.0	1.5	1.5	1.5	2.6	2.9	3.3	2.4
1970	2.6	2.1	2.4	2.6	2.1	2.0	0.9	2.4	1.8	3.6	2.9	2.4
1971	2.1	2.0	3.0	3.0	2.0	1.3	2.2	2.5	3.1	3.2	2.1	2.6
1972	2.6	2.9	2.0	2.4	3.7	2.4	1.7	2.2	2.8	3.0	2.4	2.3
1973	2.7	4.0	3.2	2.1	2.0	1.9	0.8	0.9	2.1	2.7	1.8	3.4
1974	2.2	2.7	3.3	2.0	1.7	2.0	0.7	1.5	2.0	2.3	2.2	2.9
1975	3.8	2.6	3.1	2.5	1.4	3.1	3.7	0.6	1.7	2.5	4.0	2.6

LARGEST HS(METRES) FOR STATION 81 = 5.3

STATION 82 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 332.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2243	5118	5672	5634	1428	816	8	.	1	1	20921
0.50 - 0.99	.	219	1480	800	366	455	.	.	.	.	3320
1.00 - 1.49	.	.	10	65	59	8	.	.	.	.	142
1.50 - 1.99	.	.	.	1	5	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2243	5337	7162	6500	1858	1279	8	0	1	1	

AVERAGE HS(M) = 0.22 LARGEST HS(M) = 1.81 ANGLE CLASS % = 24.4

STATION 82 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 332.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	390	699	.	.	675	2484	2275	35	75	13	6646
0.50 - 0.99	.	468	1322	249	75	2003	1805	54	236	11	6223
1.00 - 1.49	.	.	140	657	287	552	455	30	68	1	2190
1.50 - 1.99	.	.	.	37	184	268	147	23	18	.	677
2.00 - 2.49	.	.	.	.	30	106	59	23	1	.	219
2.50 - 2.99	.	.	.	.	.	8	17	11	.	.	36
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	390	1167	1462	943	1251	5421	4758	176	398	25	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 3.00 ANGLE CLASS % = 16.0

STATION 82 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 332.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	284	343	.	.	862	1083	349	111	155	453	3640
0.50 - 0.99	.	359	941	94	61	1059	600	30	280	932	4356
1.00 - 1.49	.	.	152	520	80	385	273	65	319	723	2517
1.50 - 1.99	.	.	.	92	207	217	87	90	53	349	1095
2.00 - 2.49	.	.	.	.	59	328	90	15	30	135	657
2.50 - 2.99	.	.	.	.	.	47	111	51	35	71	315
3.00 - 3.49	.	.	.	.	.	.	10	56	11	32	109
3.50 - 3.99	.	.	.	.	.	.	1	8	10	10	29
4.00 - 4.49	.	.	.	.	.	.	.	.	5	5	10
4.50 - 4.99	.	.	.	.	.	.	.	.	6	1	7
5.00 - GREATER	.	.	.	.	.	.	.	.	.	5	5
TOTAL	284	702	1093	706	1269	3119	1521	426	904	2716	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 5.48 ANGLE CLASS % = 12.8

STATION 82 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 332.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	355	417			573	1119	280	8	11		2763
0.50 - 0.99	.	540	1483	169	62	2037	1023	56	41	3	5374
1.00 - 1.49	.	.	308	1050	196	857	1220	97	47	3	3778
1.50 - 1.99	.	.	.	147	621	684	636	167	135	15	2405
2.00 - 2.49	.	.	.	1	162	977	431	133	150	15	1869
2.50 - 2.99	.	.	.	.	.	124	349	189	77	8	747
3.00 - 3.49	.	.	.	.	.	.	42	150	97	10	299
3.50 - 3.99	.	.	.	.	.	.	1	18	77	20	116
4.00 - 4.49	.	.	.	.	.	.	.	.	13	46	59
4.50 - 4.99	.	.	.	.	.	.	.	.	.	13	13
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	355	957	1791	1367	1574	5798	3982	818	648	134	

AVERAGE HS(M) = 1.24 LARGEST HS(M) = 5.93 ANGLE CLASS % = 17.5

STATION 82 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 332.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	427	638	3	.	275	405	27	.	.	.	1775
0.50 - 0.99	.	398	1878	900	337	417	29	.	.	.	3959
1.00 - 1.49	.	.	227	1452	1230	1122	56	1	.	.	4088
1.50 - 1.99	.	.	.	61	545	1620	246	15	.	.	2487
2.00 - 2.49	.	.	.	.	82	569	242	49	5	.	947
2.50 - 2.99	.	.	.	.	3	13	51	97	3	.	167
3.00 - 3.49	.	.	.	.	.	.	1	8	3	.	12
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	427	1036	2108	2413	2472	4146	652	170	12	0	

AVERAGE HS(M) = 1.15 LARGEST HS(M) = 3.52 ANGLE CLASS % = 13.5

STATION 82 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 332.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

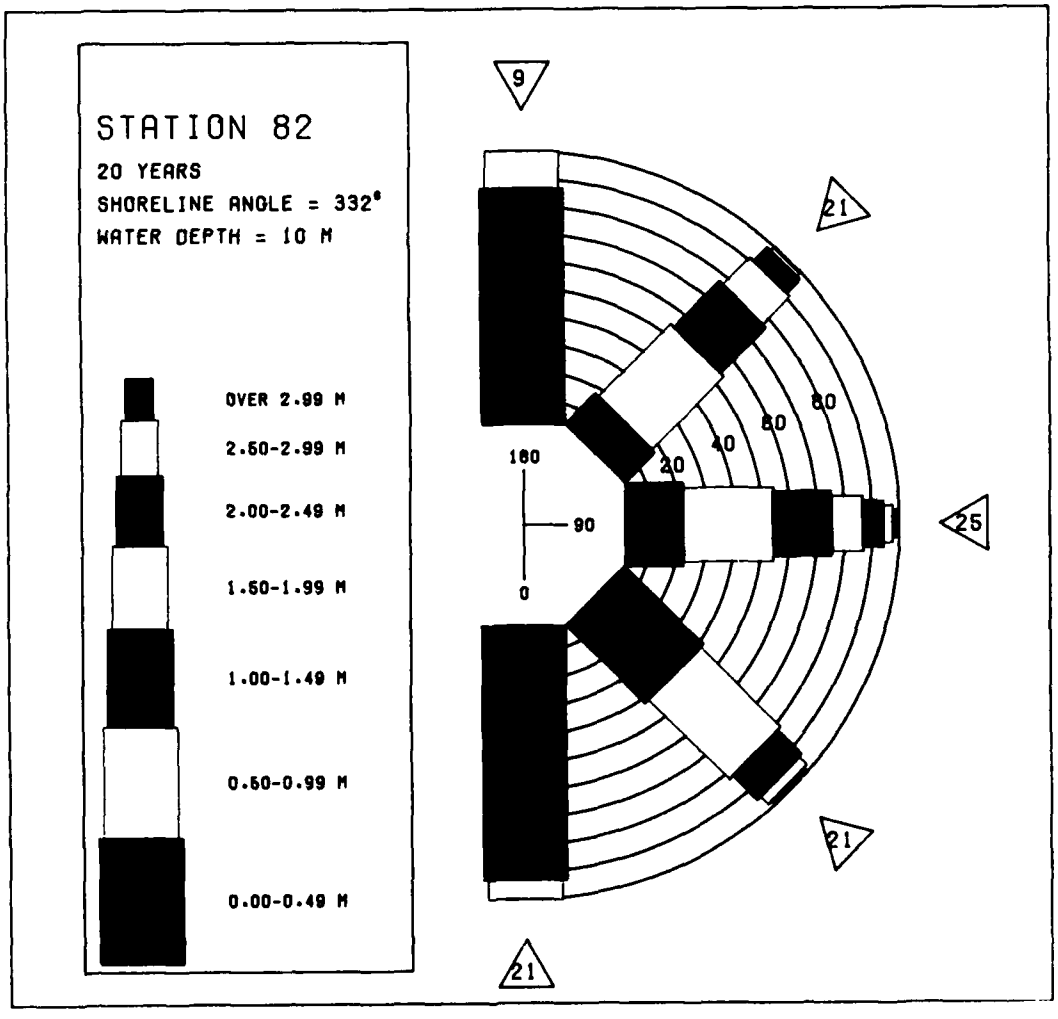
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1112	2159	2202	2662	751	22	.	.	.	.	8908
0.50 - 0.99	.	78	1038	2530	706	15	.	.	.	.	4367
1.00 - 1.49	.	.	8	167	82	.	.	.	.	.	257
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1112	2237	3248	5359	1539	37	0	0	0	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 1.41 ANGLE CLASS % = 13.5

STATION 82 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 332.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	481	937	787	829	456	593	294	15	24	46	4462
0.50 - 0.99	.	206	814	474	156	598	345	14	55	94	2756
1.00 - 1.49	.	.	84	391	193	292	200	19	43	72	1294
1.50 - 1.99	.	.	.	34	156	279	111	29	20	36	665
2.00 - 2.49	.	.	.	.	33	198	82	22	18	15	368
2.50 - 2.99	.	.	.	.	.	19	52	35	11	8	125
3.00 - 3.49	.	.	.	.	.	.	5	21	11	4	41
3.50 - 3.99	.	.	.	.	.	.	.	2	8	3	13
4.00 - 4.49	.	.	.	.	.	.	.	.	1	5	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	481	1143	1685	1728	994	1979	1089	157	191	284	

AVE HS(M) = 0.71 LARGEST HS(M) = 5.93 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 82

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.3	0.5	0.7	0.5	0.6	0.8	0.2	0.4	0.9	1.6	1.6	0.7	0.8
1957	0.8	1.0	1.0	0.5	0.6	0.6	0.4	0.6	0.7	0.9	0.8	0.8	0.7
1958	0.8	0.6	1.0	1.0	0.7	0.5	0.2	0.5	0.6	1.4	0.9	1.2	0.8
1959	0.7	0.9	0.8	0.8	0.3	0.2	0.6	0.4	0.7	0.9	1.0	0.9	0.7
1960	0.8	0.9	1.1	0.5	0.8	0.6	0.4	0.5	0.9	0.9	0.8	0.8	0.7
1961	0.8	1.1	0.8	0.5	0.6	0.5	0.1	0.5	1.0	1.1	0.9	0.5	0.7
1962	0.9	1.0	1.3	0.6	0.6	0.5	0.6	0.5	0.7	0.8	1.5	1.5	0.9
1963	0.9	1.1	0.5	0.5	0.6	0.9	0.3	0.3	1.2	1.2	0.5	0.6	0.7
1964	0.8	0.7	0.7	0.6	0.7	0.3	0.4	0.5	1.5	1.8	1.3	1.0	0.9
1965	1.0	0.9	0.6	0.6	0.3	0.5	0.3	0.2	0.8	1.0	0.7	0.5	0.6
1966	1.0	0.7	0.5	0.5	0.6	0.6	0.3	0.3	0.8	0.9	1.1	1.0	0.7
1967	0.7	0.9	0.7	0.8	0.7	0.7	0.2	0.4	1.1	0.8	0.6	0.9	0.7
1968	1.1	1.0	0.5	0.6	0.4	0.2	0.1	0.2	0.3	0.4	0.5	0.6	0.5
1969	1.1	1.5	0.8	0.5	0.5	0.6	0.4	0.4	0.8	1.2	1.0	0.8	0.8
1970	0.7	0.8	0.7	0.8	0.6	0.5	0.4	0.4	0.4	1.2	1.3	0.9	0.7
1971	0.8	0.6	0.7	0.5	0.5	0.4	0.6	0.7	1.1	1.5	1.1	1.0	0.8
1972	0.8	1.1	0.7	0.6	1.1	0.5	0.5	0.4	0.9	1.3	1.0	0.7	0.8
1973	0.9	1.3	1.1	0.5	0.5	0.3	0.4	0.2	0.5	0.8	0.4	0.8	0.6
1974	0.5	0.8	0.6	0.3	0.4	0.4	0.2	0.3	0.6	0.7	0.7	0.7	0.5
1975	0.9	0.8	0.8	0.7	0.4	0.3	0.5	0.1	0.5	0.8	0.7	1.0	0.6
MEAN	0.9	0.9	0.8	0.6	0.6	0.5	0.4	0.4	0.8	1.1	0.9	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 82

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.6	1.9	2.4	3.3	2.3	2.1	1.3	1.9	3.8	4.6	3.3	2.2
1957	2.5	2.8	2.5	2.0	2.2	2.7	1.4	2.4	2.2	3.1	2.1	2.4
1958	2.4	1.8	3.3	2.6	2.0	1.8	0.7	2.5	2.3	5.1	2.4	3.2
1959	2.5	2.4	2.6	2.7	1.3	1.1	1.8	2.0	1.9	2.7	2.5	2.8
1960	3.8	3.9	2.9	2.1	2.2	2.3	1.5	2.4	2.4	3.5	3.3	2.6
1961	2.3	3.0	2.4	2.1	1.7	2.2	0.7	1.5	3.5	4.0	2.4	2.4
1962	3.0	2.8	5.9	1.8	1.6	2.5	2.1	2.4	2.8	2.7	4.7	3.7
1963	2.2	3.6	2.1	2.5	2.1	2.5	1.4	1.1	3.2	3.4	1.6	1.8
1964	2.8	2.4	2.3	2.3	2.9	1.3	2.0	2.1	3.9	3.3	2.5	2.8
1965	3.5	2.6	1.9	2.0	1.2	2.5	1.4	1.1	2.4	3.1	1.8	2.3
1966	3.2	2.1	2.7	2.1	2.1	4.2	2.3	1.6	2.3	2.9	2.5	2.5
1967	2.3	2.6	2.5	2.5	3.3	2.0	1.1	1.8	3.0	1.7	2.4	2.7
1968	4.0	4.0	2.2	1.6	2.5	0.7	0.7	1.4	0.9	1.1	1.9	2.0
1969	3.5	3.6	3.6	2.3	1.8	1.1	1.5	1.8	3.0	2.9	3.0	2.2
1970	2.5	2.4	2.2	2.7	2.1	2.1	0.8	2.4	1.7	3.6	2.9	2.3
1971	2.4	2.3	3.2	2.1	2.1	1.4	2.5	2.2	3.1	3.4	2.3	2.7
1972	3.1	3.0	2.2	2.3	3.7	2.1	1.5	2.4	2.7	3.0	2.4	2.3
1973	3.1	4.7	3.2	2.3	2.0	1.7	1.0	1.0	2.2	2.9	2.0	3.5
1974	2.4	2.5	2.8	2.1	1.7	1.7	1.1	1.5	2.3	2.5	3.1	2.5
1975	3.9	2.6	3.2	2.7	1.3	3.4	4.3	0.8	1.8	2.9	4.0	2.6

LARGEST HS(METRES) FOR STATION 82 = 5.9

STATION 83 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2203	5070	5648	5557	1379	728	1	.	.	.	20586
0.50 - 0.99	.	205	1517	857	379	448	.	.	.	.	3406
1.00 - 1.49	.	.	17	87	88	13	.	.	.	.	205
1.50 - 1.99	.	.	.	1	3	.	.	.	.	.	4
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2203	5275	7182	6502	1849	1189	1	0	0	0	

AVERAGE HS(M) = 0.23 LARGEST HS(M) = 1.67 ANGLE CLASS % = 24.2

STATION 83 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	410	715	.	.	650	2209	2226	32	75	1	6318
0.50 - 0.99	.	484	1363	277	73	2315	1630	55	239	1	6438
1.00 - 1.49	.	.	145	634	270	627	482	32	58	1	2249
1.50 - 1.99	.	.	.	37	195	289	146	25	10	.	712
2.00 - 2.49	.	.	.	.	34	109	71	15	1	.	230
2.50 - 2.99	.	.	.	.	.	6	11	10	.	.	27
3.00 - 3.49	.	.	.	.	.	.	1	3	.	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	410	1199	1508	948	1222	5555	4769	173	391	3	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 3.29 ANGLE CLASS % = 16.2

STATION 83 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	275	359	.	.	819	1019	335	112	150	448	3517
0.50 - 0.99	.	361	912	87	59	951	570	55	285	968	4331
1.00 - 1.49	.	.	133	520	75	324	198	75	337	755	2417
1.50 - 1.99	.	.	.	78	200	183	70	93	47	155	1026
2.00 - 2.49	.	.	.	.	56	292	78	13	22	124	584
2.50 - 2.99	.	.	.	.	.	42	104	46	55	66	273
3.00 - 3.49	.	.	.	.	.	.	8	56	10	32	106
3.50 - 3.99	.	.	.	.	.	.	1	8	10	10	29
4.00 - 4.49	.	.	.	.	.	.	.	.	5	1	6
4.50 - 4.99	.	.	.	.	.	.	.	.	6	1	7
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	275	720	1045	685	1209	2814	1370	403	907	2725	

AVERAGE HS(M) = 0.94 LARGEST HS(M) = 5.09 ANGLE CLASS % = 12.2

STATION 83 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	345	412			588	1117	287	8	17		2774
0.50 - 0.99	.	525	1463	152	25	2132	1090	61	46	3	5493
1.00 - 1.49	.	.	311	1031	169	850	1266	111	53	3	3794
1.50 - 1.99	.	.	.	155	602	631	614	179	142	15	2338
2.00 - 2.49	.	.	.	1	159	920	408	133	159	23	1803
2.50 - 2.99	.	.	.	.	.	119	335	198	71	13	736
3.00 - 3.49	.	.	.	.	.	.	39	131	87	11	268
3.50 - 3.99	.	.	.	.	.	.	1	15	78	20	114
4.00 - 4.49	.	.	.	.	.	.	.	.	10	47	57
4.50 - 4.99	.	.	.	.	.	.	.	.	.	15	15
5.00 - GREATER	.	.	.	.	.	.	.	.	.	3	3
TOTAL	345	937	1774	1339	1543	5769	4040	836	659	153	

AVERAGE HS(M) = 1.23 LARGEST HS(M) = 5.92 ANGLE CLASS % = 17.4

STATION 83 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	436	633	3		308	473	35	.	.	.	1888
0.50 - 0.99	.	417	1841	930	366	540	44	.	.	.	4138
1.00 - 1.49	.	.	227	1420	1211	1314	66	1	.	.	4239
1.50 - 1.99	.	.	.	51	540	1608	294	27	.	.	2520
2.00 - 2.49	.	.	.	.	68	549	248	58	11	.	934
2.50 - 2.99	.	.	.	.	3	15	49	87	6	.	160
3.00 - 3.49	.	.	.	.	.	.	1	13	1	.	15
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	436	1050	2071	2401	2496	4499	737	187	19	0	

AVERAGE HS(M) = 1.14 LARGEST HS(M) = 4.01 ANGLE CLASS % = 13.9

STATION 83 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

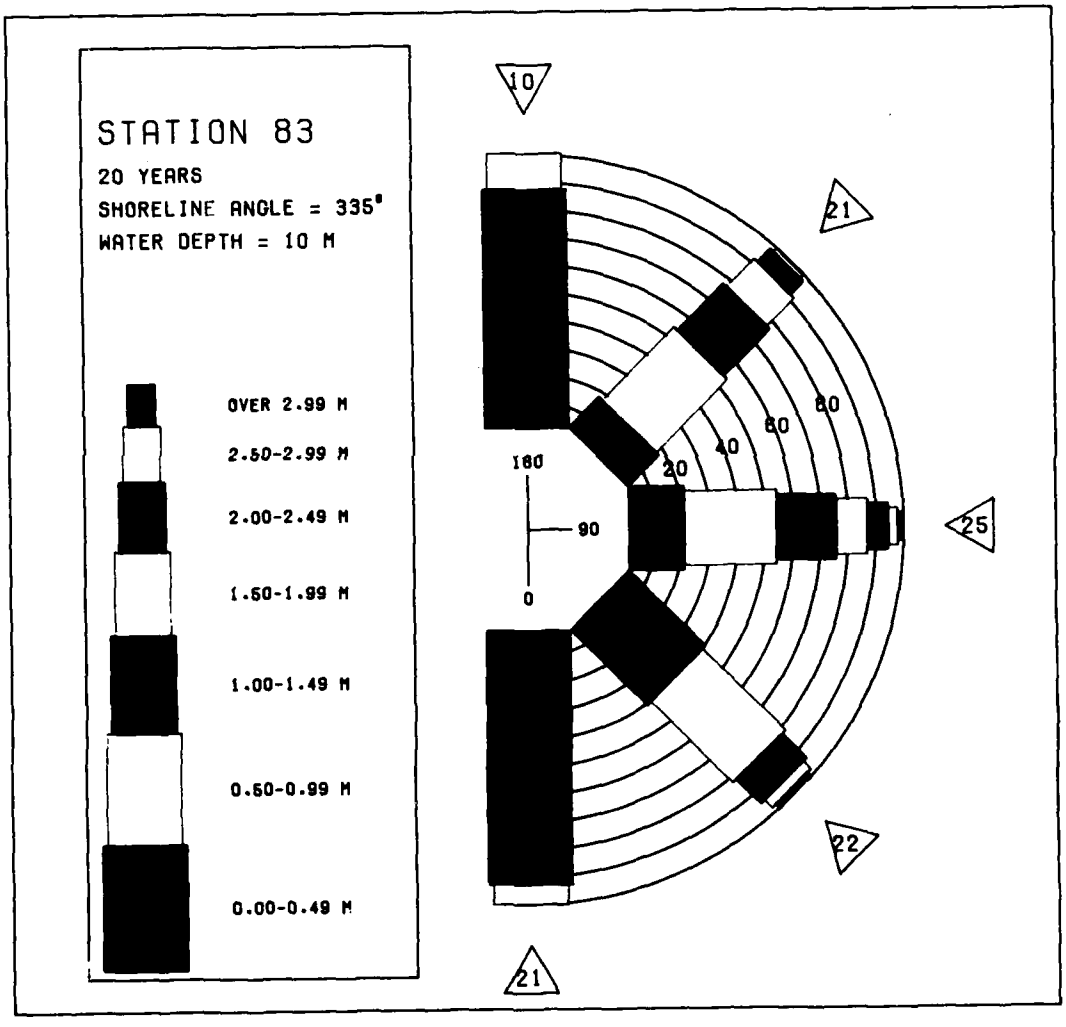
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1119	2190	2303	2866	840	23	.	.	.	.	9341
0.50 - 0.99	.	73	1021	2335	665	15	.	.	.	.	4169
1.00 - 1.49	.	.	13	130	90	.	.	.	.	.	233
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1119	2263	3337	5391	1596	38	0	0	0	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.66 ANGLE CLASS % = 13.8

STATION 83 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 335.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	479	938	795	842	458	557	288	15	24	45	4441
0.50 - 0.99	.	206	811	470	157	640	354	15	56	97	2806
1.00 - 1.49	.	.	84	382	190	313	201	20	44	72	1306
1.50 - 1.99	.	.	.	32	154	271	112	30	20	36	655
2.00 - 2.49	.	.	.	.	31	187	80	22	19	14	353
2.50 - 2.99	.	.	.	.	.	18	50	34	11	8	121
3.00 - 3.49	.	.	.	.	.	.	5	20	9	4	38
3.50 - 3.99	.	.	.	.	.	.	.	2	6	3	13
4.00 - 4.49	.	.	.	.	.	.	.	.	1	4	5
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	479	1144	1690	1726	990	1986	1090	158	192	284	

AVE HS(M) = 0.71 LARGEST HS(M) = 5.92 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 83

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.2	0.5	0.7	0.5	0.6	0.8	0.2	0.4	0.9	1.6	1.5	0.7	0.8
1957	0.8	1.0	1.0	0.5	0.6	0.6	0.4	0.6	0.7	0.9	0.8	0.8	0.7
1958	0.8	0.6	1.0	1.0	0.7	0.5	0.2	0.5	0.6	1.4	1.0	1.2	0.8
1959	0.6	0.9	0.8	0.8	0.3	0.2	0.6	0.4	0.7	0.9	1.0	0.9	0.7
1960	0.7	0.9	1.1	0.5	0.8	0.6	0.4	0.5	0.9	0.9	0.8	0.7	0.7
1961	0.8	1.1	0.8	0.5	0.6	0.5	0.2	0.5	1.0	1.1	0.8	0.5	0.7
1962	0.9	1.0	1.3	0.6	0.6	0.5	0.7	0.5	0.7	0.8	1.5	1.5	0.9
1963	0.9	1.1	0.5	0.5	0.7	0.9	0.3	0.3	1.2	1.2	0.5	0.6	0.7
1964	0.8	0.7	0.7	0.6	0.7	0.3	0.4	0.5	1.5	1.8	1.3	1.0	0.9
1965	1.0	0.9	0.6	0.6	0.3	0.5	0.3	0.2	0.8	1.0	0.7	0.5	0.6
1966	1.0	0.7	0.5	0.5	0.6	0.6	0.3	0.3	0.8	0.9	1.1	0.9	0.7
1967	0.7	0.9	0.7	0.8	0.7	0.7	0.2	0.4	1.1	0.7	0.6	0.9	0.7
1968	1.1	1.0	0.5	0.6	0.4	0.2	0.1	0.2	0.3	0.4	0.5	0.6	0.5
1969	1.1	1.4	0.8	0.5	0.5	0.6	0.4	0.4	0.8	1.2	1.0	0.8	0.8
1970	0.7	0.7	0.7	0.8	0.6	0.5	0.4	0.4	0.4	1.2	1.3	0.9	0.7
1971	0.8	0.6	0.7	0.5	0.5	0.4	0.6	0.7	1.1	1.5	1.1	1.0	0.8
1972	0.8	1.0	0.7	0.6	1.1	0.5	0.5	0.4	0.9	1.3	1.0	0.7	0.8
1973	0.9	1.3	1.1	0.5	0.5	0.4	0.4	0.3	0.5	0.8	0.4	0.8	0.6
1974	0.5	0.8	0.6	0.3	0.4	0.5	0.3	0.3	0.6	0.7	0.7	0.7	0.5
1975	0.9	0.8	0.8	0.7	0.4	0.3	0.5	0.1	0.5	0.8	0.7	1.0	0.6
MEAN	0.8	0.9	0.8	0.6	0.6	0.5	0.4	0.4	0.8	1.0	0.9	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 83

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	1.9	2.3	3.1	2.3	2.1	1.2	1.9	3.8	4.6	3.3	2.2
1957	2.5	2.8	2.5	2.0	2.2	2.7	1.4	2.4	2.2	3.1	2.1	2.4
1958	2.4	1.7	3.3	2.6	2.0	1.8	0.7	2.4	2.3	5.1	2.4	3.2
1959	2.5	2.3	2.7	2.7	1.3	1.1	1.8	1.8	1.9	2.7	2.5	2.7
1960	3.8	3.9	2.9	2.1	2.2	2.3	1.6	2.4	2.4	3.5	3.3	2.5
1961	2.3	3.0	2.4	2.1	1.8	2.2	0.8	1.4	3.4	3.9	2.4	2.3
1962	3.0	2.8	5.9	1.8	1.6	2.5	2.1	2.4	2.8	2.7	4.7	3.7
1963	2.2	3.6	2.0	2.5	2.1	2.5	1.4	1.1	3.2	3.3	1.8	1.7
1964	2.8	2.3	2.2	2.3	2.9	1.3	2.0	2.1	3.9	3.3	2.4	2.8
1965	3.5	2.6	1.9	2.0	1.1	2.5	1.4	1.1	2.4	3.1	1.8	2.3
1966	3.2	2.1	2.7	2.1	2.1	4.0	2.3	1.6	2.2	2.9	2.5	2.5
1967	2.3	2.6	2.5	2.4	3.2	2.1	1.1	1.8	3.1	1.7	2.3	2.5
1968	4.0	3.9	2.2	1.6	2.5	0.7	0.7	1.4	0.9	1.2	2.0	2.0
1969	3.5	3.6	3.6	2.2	1.7	1.1	1.5	1.8	3.0	2.9	3.2	2.2
1970	2.5	2.4	2.2	2.7	2.1	2.0	0.9	2.4	1.7	3.6	2.8	2.3
1971	2.4	2.3	3.0	2.2	2.1	1.4	2.5	2.2	3.2	3.4	2.3	2.7
1972	2.9	3.0	2.2	2.3	3.7	2.3	1.6	2.3	2.7	3.0	2.4	2.3
1973	3.1	4.7	3.2	2.1	2.0	1.7	1.0	1.0	2.2	2.8	1.9	3.5
1974	2.4	2.5	2.8	1.9	1.7	1.7	1.1	1.5	2.3	2.4	3.1	2.6
1975	3.9	2.6	3.2	2.7	1.3	3.4	4.3	0.8	1.8	2.7	4.0	2.6

LARGEST HS(METRES) FOR STATION 83 = 5.9

STATION 84 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2231	5051	5626	5480	1319	633	1	.	.	.	20341
0.50 - 0.99	.	242	1546	973	354	479	.	.	.	.	3594
1.00 - 1.49	.	.	18	97	97	18	.	.	.	.	230
1.50 - 1.99	.	.	.	1	8	.	.	.	.	.	9
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2231	5293	7190	6551	1778	1130	1	0	0	0	

AVERAGE HS(M) = 0.24 LARGEST HS(M) = 1.86 ANGLE CLASS % = 24.2

STATION 84 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	407	686			638	2205	2144	23	68	11	6182
0.50 - 0.99	.	467	1339	249	94	2299	1854	63	241	200	6806
1.00 - 1.49	.	.	147	612	321	681	487	35	61	51	2395
1.50 - 1.99	.	.	.	32	193	326	143	22	18	1	735
2.00 - 2.49	.	.	.	.	42	102	78	18	1	.	241
2.50 - 2.99	.	.	.	.	.	6	5	10	.	.	21
3.00 - 3.49	.	.	.	.	.	.	3	5	.	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	407	1153	1486	893	1288	5619	4714	176	389	263	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.29 ANGLE CLASS % = 16.4

STATION 84 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	258	362			650	821	265	112	154	371	2993
0.50 - 0.99	.	361	939	88	53	792	467	34	277	759	3770
1.00 - 1.49	.	.	128	492	70	294	167	42	325	674	2192
1.50 - 1.99	.	.	.	71	171	148	68	59	58	350	925
2.00 - 2.49	.	.	.	.	47	253	66	10	17	123	516
2.50 - 2.99	.	.	.	.	.	39	111	39	29	65	283
3.00 - 3.49	.	.	.	.	.	.	5	44	11	29	89
3.50 - 3.99	.	.	.	.	.	.	1	1	5	3	10
4.00 - 4.49	.	.	.	.	.	.	.	.	5	5	10
4.50 - 4.99	.	.	.	.	.	.	.	.	6	1	7
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	258	723	1067	651	991	2347	1150	341	887	2381	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 5.09 ANGLE CLASS % = 10.8

STATION 84 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	386	455			728	1230	364	5	22	46	3236
0.50 - 0.99	.	550	1512	159	37	2229	1255	61	46	3	5852
1.00 - 1.49	.	.	309	1054	171	836	1278	130	66	5	3849
1.50 - 1.99	.	.	.	148	588	581	590	205	143	32	2287
2.00 - 2.49	.	.	.	1	138	872	383	124	160	32	1710
2.50 - 2.99	.	.	.	.	.	119	304	183	75	17	698
3.00 - 3.49	.	.	.	.	.	.	39	123	83	17	262
3.50 - 3.99	.	.	.	.	.	.	1	20	75	22	118
4.00 - 4.49	.	.	.	.	.	.	.	.	11	51	62
4.50 - 4.99	.	.	.	.	.	.	.	.	.	11	11
5.00 - GREATER	.	.	.	.	.	.	.	.	.	3	3
TOTAL	386	1005	1821	1362	1662	5867	4214	851	681	239	

AVERAGE HS(M) = 1.18 LARGEST HS(M) = 5.92 ANGLE CLASS % = 18.1

STATION 84 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	374	586	8	.	340	585	15	.	.	.	1908
0.50 - 0.99	.	369	1798	776	376	752	51	.	.	.	4122
1.00 - 1.49	.	.	231	1314	1143	1476	124	8	.	.	4296
1.50 - 1.99	.	.	.	59	533	1603	335	30	.	.	2560
2.00 - 2.49	.	.	.	.	49	468	227	83	11	.	838
2.50 - 2.99	.	.	.	.	1	17	56	99	11	.	184
3.00 - 3.49	.	.	.	.	.	.	3	13	6	.	22
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	374	955	2037	2149	2442	4901	811	233	29	0	

AVERAGE HS(M) = 1.14 LARGEST HS(M) = 3.52 ANGLE CLASS % = 14.0

STATION 84 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

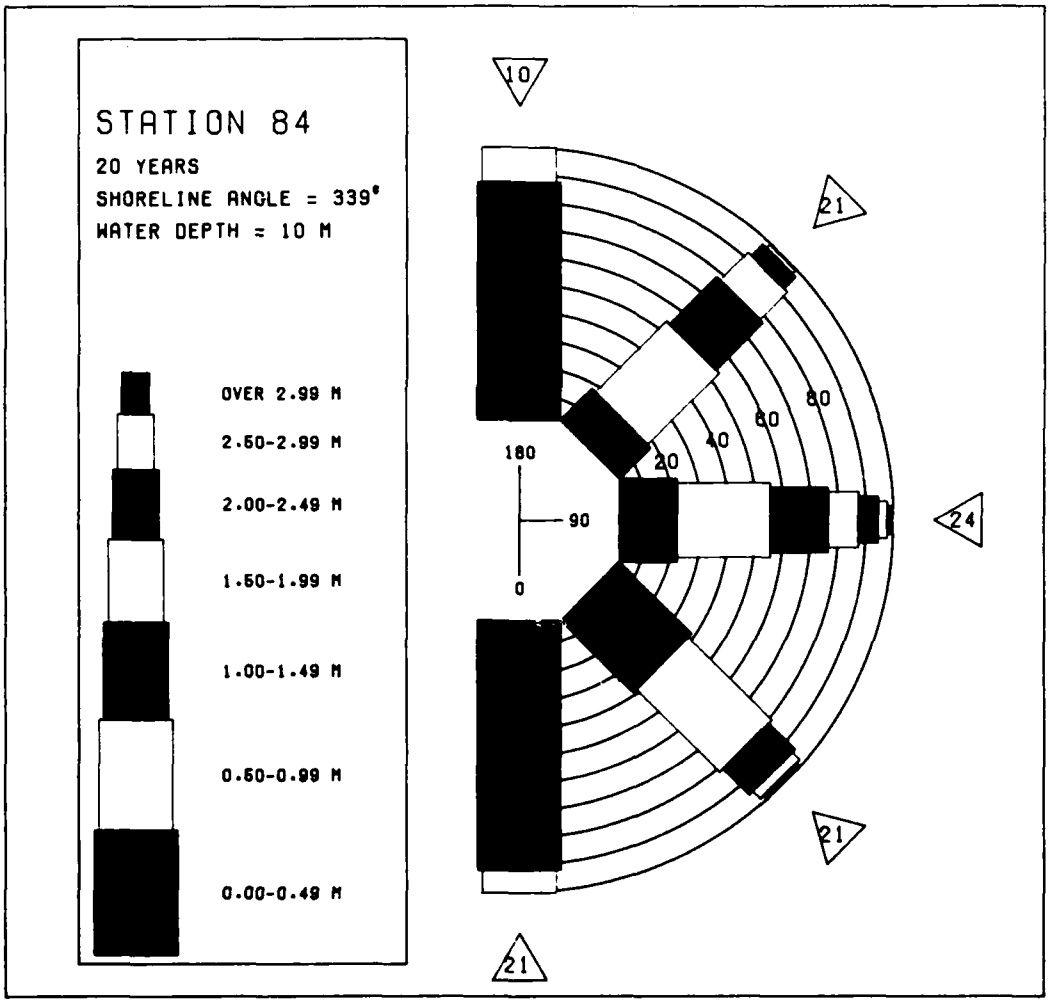
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1172	2245	2443	3196	965	30	.	.	.	.	10051
0.50 - 0.99	.	94	970	2339	701	20	.	.	.	.	4124
1.00 - 1.49	.	.	6	106	59	.	.	.	.	.	171
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1172	2339	3419	5641	1726	50	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.66 ANGLE CLASS % = 14.4

STATION 84 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	483	938	807	867	464	550	279	14	24	42	4468
0.50 - 0.99	.	208	810	458	161	657	362	15	56	96	2823
1.00 - 1.49	.	.	84	367	186	330	205	21	45	73	1311
1.50 - 1.99	.	.	.	31	149	266	113	31	22	38	650
2.00 - 2.49	.	.	.	.	27	169	75	23	19	15	328
2.50 - 2.99	.	.	.	.	.	18	47	33	11	8	117
3.00 - 3.49	.	.	.	.	.	.	5	18	10	4	37
3.50 - 3.99	.	.	.	.	.	.	.	2	8	2	12
4.00 - 4.49	.	.	.	.	.	.	.	.	1	5	6
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	483	1146	1701	1723	987	1990	1086	157	196	284	

AVE HS(M) = 0.71 LARGEST HS(M) = 5.92 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 84

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.2	0.5	0.7	0.5	0.6	0.8	0.2	0.4	0.9	1.6	1.6	0.8	0.8
1957	0.8	1.0	1.0	0.5	0.6	0.6	0.4	0.6	0.7	0.9	0.8	0.8	0.7
1958	0.8	0.6	1.0	1.0	0.7	0.5	0.2	0.5	0.6	1.4	1.0	1.2	0.8
1959	0.6	0.8	0.8	0.8	0.3	0.2	0.6	0.4	0.7	0.9	1.0	0.9	0.7
1960	0.7	0.9	1.1	0.5	0.8	0.6	0.4	0.5	0.9	0.8	0.8	0.7	0.7
1961	0.7	1.1	0.8	0.5	0.7	0.5	0.2	0.5	1.0	1.1	0.8	0.4	0.7
1962	0.9	1.0	1.2	0.6	0.6	0.5	0.7	0.5	0.7	0.8	1.4	1.5	0.9
1963	0.9	1.1	0.5	0.5	0.7	0.9	0.3	0.3	1.2	1.1	0.5	0.6	0.7
1964	0.7	0.6	0.7	0.6	0.7	0.3	0.4	0.5	1.5	1.8	1.3	1.0	0.9
1965	1.0	0.9	0.6	0.6	0.3	0.5	0.3	0.2	0.8	1.0	0.6	0.5	0.6
1966	1.0	0.7	0.5	0.5	0.6	0.6	0.4	0.3	0.8	0.8	1.1	0.9	0.7
1967	0.7	0.9	0.7	0.8	0.7	0.7	0.3	0.4	1.1	0.7	0.6	0.9	0.7
1968	1.1	1.0	0.5	0.6	0.4	0.2	0.1	0.2	0.3	0.4	0.5	0.6	0.5
1969	1.1	1.4	0.8	0.5	0.5	0.6	0.4	0.4	0.8	1.2	1.0	0.8	0.8
1970	0.7	0.7	0.7	0.8	0.6	0.5	0.4	0.4	0.4	1.2	1.3	0.8	0.7
1971	0.8	0.6	0.7	0.5	0.5	0.4	0.6	0.7	1.1	1.5	1.1	1.0	0.8
1972	0.8	1.0	0.7	0.6	1.1	0.5	0.5	0.4	0.9	1.3	1.0	0.7	0.8
1973	0.9	1.3	1.1	0.5	0.5	0.4	0.4	0.3	0.5	0.8	0.4	0.8	0.6
1974	0.5	0.8	0.6	0.3	0.4	0.5	0.2	0.3	0.6	0.6	0.7	0.6	0.5
1975	0.9	0.8	0.8	0.7	0.4	0.3	0.5	0.1	0.5	0.8	0.7	0.9	0.6
MEAN	0.8	0.9	0.8	0.6	0.6	0.5	0.4	0.4	0.8	1.0	0.9	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 84

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	4.5	1.8	2.3	3.1	2.3	2.1	1.2	1.9	3.8	4.6	3.3	2.2
1957	2.5	2.7	2.5	2.0	2.1	2.7	1.4	2.4	2.2	3.1	2.1	2.3
1958	2.2	1.9	3.3	2.6	2.0	1.8	0.7	2.4	2.3	5.1	2.4	3.0
1959	2.4	2.3	2.7	2.7	1.3	1.1	1.8	1.8	1.9	2.7	2.4	2.7
1960	3.8	3.9	2.9	2.1	2.2	2.3	1.6	2.4	2.4	3.4	3.3	2.5
1961	2.1	3.2	2.5	2.1	1.8	2.2	0.8	1.5	3.4	3.9	2.3	2.3
1962	3.0	2.8	5.9	1.8	1.6	2.5	2.3	2.4	2.8	2.6	4.7	3.7
1963	2.2	3.6	2.0	2.5	2.1	2.5	1.4	1.0	3.2	3.3	1.8	1.7
1964	2.8	2.3	2.2	2.3	2.9	1.3	2.0	2.1	3.8	3.3	2.4	2.7
1965	3.5	2.6	1.9	2.0	1.1	2.5	1.4	1.1	2.4	3.1	1.8	2.1
1966	3.2	1.8	2.6	2.0	1.9	4.0	2.3	1.6	2.2	2.9	2.4	2.5
1967	2.3	2.4	2.5	2.4	3.1	2.1	1.1	1.8	3.1	1.7	2.3	2.5
1968	4.0	3.7	2.0	1.6	2.6	0.7	0.7	1.4	0.9	1.2	2.0	1.9
1969	3.5	3.6	3.4	2.1	1.7	1.3	1.4	1.8	3.0	2.9	3.2	2.2
1970	2.5	2.3	2.2	2.5	2.1	2.0	0.9	2.4	1.6	3.6	2.8	2.4
1971	2.4	2.3	3.0	2.2	2.1	1.4	2.5	2.2	3.2	3.4	2.2	2.7
1972	2.9	3.0	2.2	2.3	3.7	2.3	1.6	2.3	2.7	3.0	2.3	2.3
1973	3.1	4.7	3.1	2.1	1.9	1.7	0.8	1.0	2.2	2.7	1.9	3.5
1974	2.3	2.4	2.8	1.9	1.7	1.7	1.0	1.5	2.2	2.3	3.1	2.7
1975	3.9	2.7	3.2	2.7	1.3	3.0	4.3	0.8	1.8	2.7	3.8	2.5

LARGEST HS(METRES) FOR STATION 84 = 5.9

STATION 85 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 2.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1718	4656	4929	2917	1264	1134	8	3	.	.	16629
0.50 - 0.99	.	292	2542	1918	752	696	13	3	3	.	6219
1.00 - 1.49	.	.	25	140	189	20	1	.	.	1	376
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1718	4948	7496	4975	2211	1850	22	6	3	1	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.92 ANGLE CLASS % = 23.2

STATION 85 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 2.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	547	780	.	.	1697	2727	2096	265	107	162	8381
0.50 - 0.99	.	636	1562	395	124	554	489	215	186	224	4385
1.00 - 1.49	.	.	171	787	458	653	195	66	5	65	2420
1.50 - 1.99	.	.	.	44	242	426	97	18	22	10	859
2.00 - 2.49	.	.	.	.	41	162	51	13	6	1	274
2.50 - 2.99	.	.	.	.	.	20	17	5	1	.	43
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	547	1416	1733	1226	2562	4542	2945	583	327	482	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.09 ANGLE CLASS % = 16.4

STATION 85 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 2.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	325	396	.	.	128	142	8	.	17	284	1300
0.50 - 0.99	.	361	949	65	51	90	5	1	.	25	1567
1.00 - 1.49	.	.	114	475	85	39	17	13	13	71	827
1.50 - 1.99	.	.	.	58	155	77	17	41	20	34	402
2.00 - 2.49	.	.	.	1	42	155	29	23	10	.	260
2.50 - 2.99	.	.	.	.	1	42	83	5	3	.	134
3.00 - 3.49	.	.	.	.	.	.	6	18	.	.	24
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	325	757	1063	619	462	545	165	102	63	414	

AVERAGE HS(M) = 0.95 LARGEST HS(M) = 3.63 ANGLE CLASS % = 4.5

STATION 85 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 2.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	426	547			674	1048	758	92	23	258	3826
0.50 - 0.99	.	614	1459	159	56	1389	1492	200	138	698	6205
1.00 - 1.49	.	.	212	870	157	443	862	261	390	775	3990
1.50 - 1.99	.	.	.	75	359	337	246	169	184	453	1823
2.00 - 2.49	.	.	.	1	87	525	229	90	116	116	1164
2.50 - 2.99	.	.	.	.	.	66	229	106	53	92	546
3.00 - 3.49	.	.	.	.	.	.	11	65	58	42	176
3.50 - 3.99	.	.	.	.	.	.	.	3	34	42	79
4.00 - 4.49	.	.	.	.	.	.	.	.	1	35	36
4.50 - 4.99	.	.	.	.	.	.	.	.	3	13	16
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	426	1161	1671	1105	1333	3808	3847	986	1000	2525	

AVERAGE HS(M) = 1.07 LARGEST HS(M) = 5.34 ANGLE CLASS % = 17.9

STATION 85 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 2.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	453	740	10		619	1360	140	5	15	.	3342
0.50 - 0.99	.	504	1890	882	431	2570	528	53	17	.	6875
1.00 - 1.49	.	.	193	1178	867	1966	814	121	22	1	5162
1.50 - 1.99	.	.	.	39	419	1238	593	201	44	1	2535
2.00 - 2.49	.	.	.	.	34	256	248	130	42	1	711
2.50 - 2.99	.	.	.	.	.	5	46	32	27	13	123
3.00 - 3.49	.	.	.	.	.	.	3	6	1	6	16
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	453	1244	2093	2099	2370	7395	2372	548	168	22	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 3.30 ANGLE CLASS % = 18.8

STATION 85 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 2.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

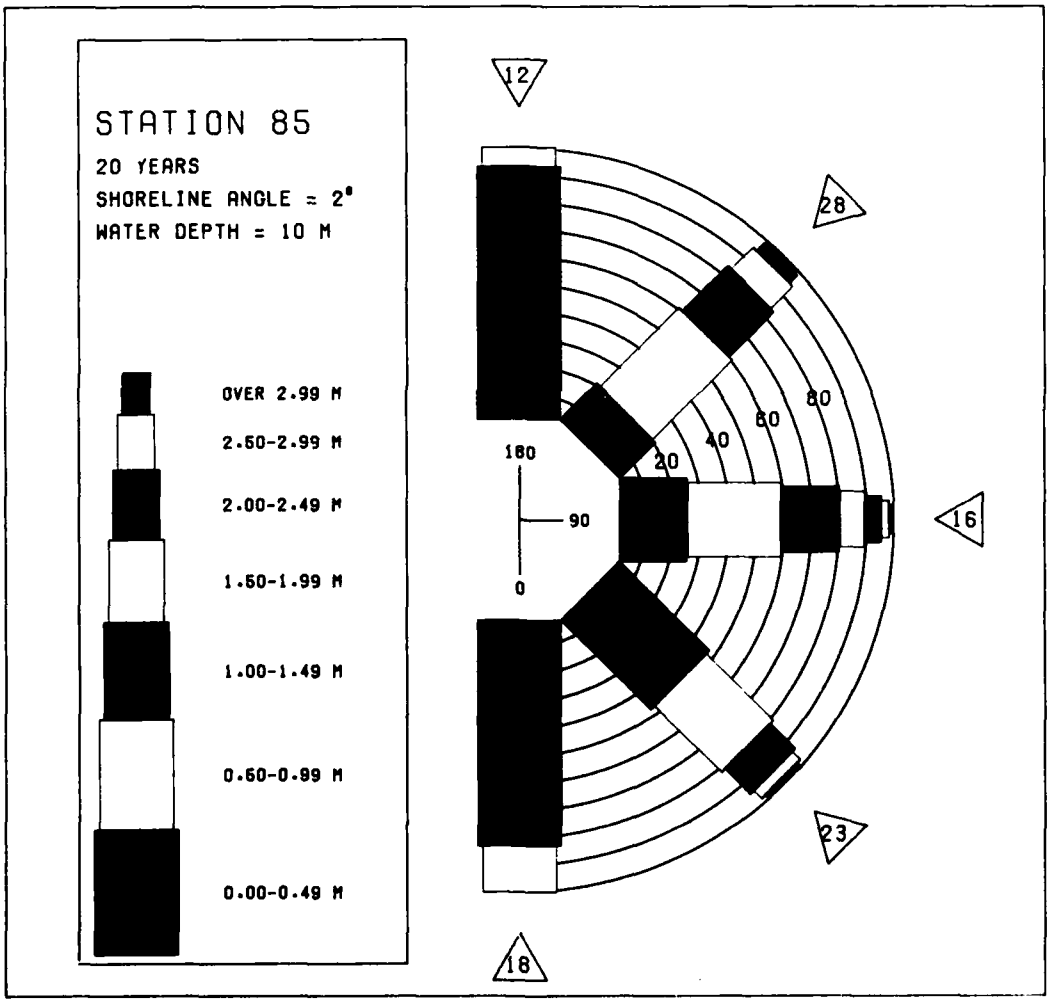
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	874	2026	2734	4786	1878	119	.	.	.	.	12417
0.50 - 0.99	.	77	1113	1389	785	207	.	.	.	.	3571
1.00 - 1.49	.	.	3	42	88	.	.	.	.	.	133
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	874	2103	3850	6217	2751	326	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.41 ANGLE CLASS % = 16.1

STATION 85 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 2.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	434	914	767	770	626	653	301	36	16	70	4587
0.50 - 0.99	.	248	951	483	220	550	252	47	34	94	2879
1.00 - 1.49	.	.	72	349	184	312	191	46	43	93	1290
1.50 - 1.99	.	.	.	21	118	207	95	43	27	49	560
2.00 - 2.49	.	.	.	.	20	110	55	25	17	11	238
2.50 - 2.99	.	.	.	.	.	13	37	14	8	10	82
3.00 - 3.49	.	.	.	.	.	.	2	9	5	4	20
3.50 - 3.99	.	.	.	.	.	.	.	.	3	4	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	434	1162	1790	1623	1168	1845	933	220	153	339	

AVE HS(M) = 0.67 LARGEST HS(M) = 5.34 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 85

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.6	0.6	0.7	0.7	0.9	0.6	0.5	0.8	1.5	1.6	0.7	0.8
1957	0.7	0.9	0.8	0.5	0.6	0.6	0.5	0.7	0.7	1.0	0.7	0.7	0.7
1958	0.6	0.4	0.7	0.9	0.6	0.5	0.3	0.5	0.6	1.4	0.7	0.9	0.7
1959	0.5	0.8	0.7	0.7	0.4	0.3	0.6	0.4	0.8	0.8	0.9	0.7	0.6
1960	0.6	0.8	0.8	0.6	0.9	0.7	0.5	0.6	0.9	0.7	0.7	0.6	0.7
1961	0.5	0.8	0.9	0.6	0.7	0.6	0.3	0.6	0.9	0.9	0.6	0.4	0.7
1962	0.8	0.9	1.1	0.6	0.6	0.7	0.7	0.6	0.7	0.7	1.3	1.2	0.8
1963	0.8	1.2	0.5	0.4	0.7	0.5	0.3	0.3	1.1	1.0	0.5	0.5	0.6
1964	0.7	0.5	0.6	0.8	0.7	0.4	0.5	0.6	1.3	1.7	1.3	1.0	0.8
1965	0.9	0.8	0.6	0.6	0.4	0.6	0.5	0.4	0.8	1.0	0.7	0.4	0.6
1966	0.8	0.7	0.6	0.5	0.6	0.6	0.5	0.5	0.6	0.8	1.2	0.9	0.7
1967	0.6	0.8	0.8	0.7	0.7	0.7	0.4	0.6	1.0	0.7	0.5	0.8	0.7
1968	1.0	0.8	0.4	0.6	0.4	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.4
1969	0.9	1.0	0.6	0.6	0.6	0.5	0.3	0.5	0.8	1.1	0.7	0.6	0.7
1970	0.5	1.0	0.7	0.7	0.6	0.6	0.4	0.4	0.4	1.1	1.0	0.7	0.7
1971	0.6	0.6	0.6	0.5	0.5	0.3	0.5	0.7	0.9	1.2	1.0	1.1	0.7
1972	0.7	0.9	0.7	0.5	1.0	0.6	0.4	0.5	0.8	1.1	0.8	0.7	0.7
1973	0.7	1.1	0.9	0.5	0.5	0.5	0.2	0.3	0.4	0.8	0.4	0.9	0.6
1974	0.6	0.6	0.6	0.4	0.3	0.3	0.2	0.3	0.5	0.6	0.5	0.5	0.5
1975	0.7	0.7	0.6	0.5	0.3	0.3	0.7	0.2	0.6	0.6	0.6	0.8	0.6
MEAN	0.7	0.8	0.7	0.6	0.6	0.5	0.4	0.5	0.7	1.0	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 85

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.9	2.0	1.8	2.3	2.4	2.1	1.3	1.8	2.7	4.0	3.1	2.0
1957	2.3	2.5	2.2	2.0	2.2	2.5	1.5	2.3	2.0	3.4	2.2	2.1
1958	2.2	2.0	2.5	2.7	2.1	1.3	0.9	2.0	2.6	4.9	2.5	3.0
1959	2.2	2.1	2.5	2.1	1.1	1.0	1.9	1.5	2.0	2.6	2.1	2.4
1960	3.4	3.9	2.5	2.0	2.2	1.9	2.2	2.3	2.1	2.1	2.8	2.6
1961	2.2	3.2	2.7	2.5	2.1	2.2	1.3	2.0	2.9	3.7	2.2	2.0
1962	2.6	2.3	5.3	2.2	1.6	2.7	2.2	2.2	2.4	2.5	4.7	3.9
1963	2.0	3.4	1.9	2.4	2.0	2.6	1.3	1.0	2.9	3.3	2.2	1.9
1964	2.7	2.4	2.4	2.3	3.1	1.4	1.6	2.1	3.5	2.9	2.3	2.1
1965	3.0	2.5	1.7	1.9	1.1	2.2	1.6	1.1	2.2	3.0	1.8	1.8
1966	3.0	2.2	2.4	1.5	2.0	3.0	1.2	1.9	2.4	2.6	2.5	2.5
1967	2.3	2.4	1.9	2.1	2.6	2.2	1.5	1.5	2.4	1.7	2.3	2.4
1968	3.6	3.0	1.7	1.7	2.4	1.0	0.8	1.2	0.8	1.5	2.2	1.7
1969	3.5	3.6	2.9	1.7	1.5	1.6	1.1	1.2	2.7	2.7	3.4	2.7
1970	2.4	2.6	2.2	2.2	2.1	2.3	1.2	2.2	1.3	3.5	2.7	2.6
1971	2.1	2.2	2.7	1.9	2.1	1.3	2.5	2.5	3.1	3.2	1.8	2.8
1972	2.4	2.8	1.9	2.1	3.5	2.5	2.0	2.0	2.3	2.8	2.5	2.1
1973	2.4	4.1	2.9	2.2	1.7	1.7	0.7	1.0	1.9	2.2	1.6	3.6
1974	2.2	2.6	2.3	1.3	1.6	1.2	0.7	1.2	2.0	1.9	2.8	2.8
1975	2.9	2.5	3.1	2.2	1.0	2.2	3.7	0.9	2.1	2.4	3.1	2.2

LARGEST HS(METRES) FOR STATION 85 = 5.3

STATION 86 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1622	4306	4308	2802	951	480	13				14482
0.50 - 0.99	.	439	3044	2282	835	869	.	1	.	.	7470
1.00 - 1.49	.	.	34	188	195	27	.	.	.	.	444
1.50 - 1.99	.	.	.	.	11	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1622	4745	7386	5272	1992	1376	13	1	0	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 1.74 ANGLE CLASS % = 22.4

STATION 86 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	544	817	.	.	1919	2951	1622	225	66	133	8277
0.50 - 0.99	.	725	1783	431	174	965	1115	183	270	217	5863
1.00 - 1.49	.	.	219	990	617	838	270	140	51	112	3237
1.50 - 1.99	.	.	.	37	284	557	145	46	15	17	1101
2.00 - 2.49	.	.	.	1	44	188	75	20	13	1	342
2.50 - 2.99	.	.	.	.	1	15	13	5	8	.	42
3.00 - 3.49	.	.	.	.	.	.	.	1	.	1	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	544	1542	2002	1459	3039	5514	3240	620	423	481	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.16 ANGLE CLASS % = 18.9

STATION 86 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	297	402	.	.	65	78	8	.	32	343	1225
0.50 - 0.99	.	373	917	61	27	53	1	1	10	22	1465
1.00 - 1.49	.	.	124	511	92	25	5	.	13	83	853
1.50 - 1.99	.	.	.	53	164	82	1	.	18	92	410
2.00 - 2.49	.	.	.	.	47	174	22	5	11	1	260
2.50 - 2.99	.	.	.	.	.	61	66	6	3	.	136
3.00 - 3.49	.	.	.	.	.	.	6	18	.	.	24
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	297	775	1041	625	395	473	109	31	87	541	

AVERAGE HS(M) = 0.97 LARGEST HS(M) = 3.64 ANGLE CLASS % = 4.4

STATION 86 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	378	528			634	879	574	75	18	248	3334
0.50 - 0.99	.	633	1473	135	58	920	930	111	152	704	5116
1.00 - 1.49	.	.	169	771	147	338	391	222	350	800	3188
1.50 - 1.99	.	.	.	82	299	251	124	106	172	412	1446
2.00 - 2.49	.	.	.	1	66	395	186	78	56	114	896
2.50 - 2.99	.	.	.	.	1	53	174	65	39	78	410
3.00 - 3.49	.	.	.	.	.	.	10	58	39	42	149
3.50 - 3.99	.	.	.	.	.	.	.	3	17	27	47
4.00 - 4.49	.	.	.	.	.	.	.	.	5	29	34
4.50 - 4.99	.	.	.	.	.	.	.	.	.	11	11
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	378	1161	1642	989	1205	2836	2389	718	851	2465	

AVERAGE HS(M) = 1.05 LARGEST HS(M) = 4.94 ANGLE CLASS % = 14.7

STATION 86 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	438	655	8		595	1442	388	23	25	.	3574
0.50 - 0.99	.	492	1911	879	364	2813	1398	203	61	1	8122
1.00 - 1.49	.	.	181	1095	773	1707	1146	287	78	8	5275
1.50 - 1.99	.	.	.	32	350	956	497	253	78	1	2167
2.00 - 2.49	.	.	.	.	37	198	210	75	51	11	582
2.50 - 2.99	.	.	.	.	.	5	39	37	13	18	112
3.00 - 3.49	.	.	.	.	.	.	.	.	5	3	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	438	1147	2100	2006	2119	7121	3678	878	311	42	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 3.41 ANGLE CLASS % = 19.9

STATION 86 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

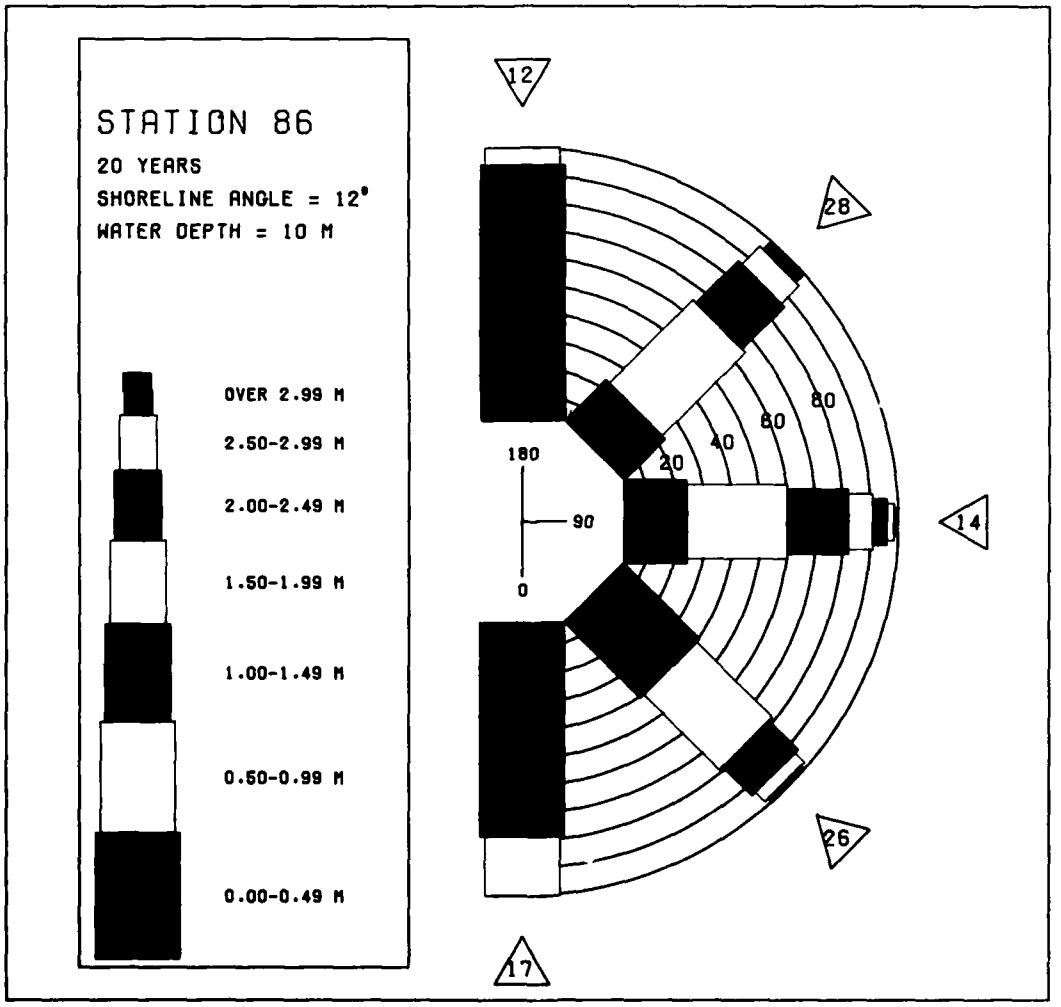
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	836	2031	2710	4649	2101	385	.	.	.	.	12712
0.50 - 0.99	.	111	1107	1240	742	492	.	.	.	.	3692
1.00 - 1.49	.	.	5	44	61	3	.	.	.	.	113
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	836	2142	3822	5933	2905	880	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.73 ANGLE CLASS % = 16.5

STATION 86 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	411	874	702	745	626	621	260	32	14	72	4357
0.50 - 0.99	.	277	1023	503	220	611	344	50	49	94	3171
1.00 - 1.49	.	.	73	350	168	294	181	65	49	100	1310
1.50 - 1.99	.	.	.	20	111	184	77	40	28	52	512
2.00 - 2.49	.	.	.	.	19	95	49	17	13	13	206
2.50 - 2.99	.	.	.	.	.	13	29	11	6	9	68
3.00 - 3.49	.	.	.	.	.	.	1	7	4	4	16
3.50 - 3.99	.	.	.	.	.	.	.	.	1	2	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	2	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	411	1151	1798	1628	1164	1818	941	222	164	349	

AVE HS(M) = 0.66 LARGEST HS(M) = 4.94 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 86

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.7	0.6	0.8	0.7	0.9	0.7	0.5	0.8	1.5	1.5	0.8	0.8
1957	0.6	0.9	0.8	0.5	0.6	0.7	0.5	0.7	0.7	1.0	0.7	0.7	0.7
1958	0.5	0.4	0.7	0.9	0.6	0.5	0.4	0.6	0.6	1.4	0.7	0.8	0.7
1959	0.4	0.7	0.7	0.7	0.5	0.3	0.7	0.4	0.7	0.8	0.9	0.7	0.6
1960	0.5	0.8	0.7	0.7	0.9	0.7	0.5	0.6	0.9	0.7	0.7	0.5	0.7
1961	0.5	0.8	1.0	0.7	0.7	0.7	0.4	0.6	0.8	0.8	0.5	0.4	0.7
1962	0.8	0.8	1.0	0.6	0.6	0.7	0.7	0.6	0.6	0.7	1.2	1.2	0.8
1963	0.7	1.1	0.6	0.4	0.7	0.5	0.4	0.3	1.0	1.0	0.5	0.4	0.6
1964	0.7	0.5	0.6	0.8	0.7	0.5	0.6	0.6	1.3	1.6	1.3	1.0	0.8
1965	0.8	0.8	0.6	0.5	0.5	0.6	0.5	0.4	0.8	1.0	0.6	0.4	0.6
1966	0.7	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.8	1.2	0.8	0.7
1967	0.6	0.7	0.9	0.6	0.7	0.7	0.5	0.7	0.9	0.6	0.5	0.7	0.7
1968	0.9	0.7	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.4	0.4	0.4	0.4
1969	0.8	0.9	0.6	0.6	0.6	0.5	0.4	0.6	0.8	1.1	0.6	0.5	0.7
1970	0.4	1.1	0.7	0.7	0.6	0.6	0.5	0.5	0.5	1.1	1.0	0.6	0.7
1971	0.6	0.6	0.6	0.5	0.6	0.3	0.6	0.7	0.9	1.2	0.9	1.1	0.7
1972	0.7	0.9	0.7	0.5	1.0	0.6	0.5	0.5	0.7	1.1	0.8	0.7	0.7
1973	0.7	1.0	0.9	0.6	0.5	0.5	0.2	0.3	0.4	0.7	0.4	1.0	0.6
1974	0.6	0.6	0.6	0.5	0.4	0.4	0.2	0.3	0.4	0.5	0.5	0.5	0.5
1975	0.6	0.7	0.6	0.4	0.3	0.4	0.7	0.2	0.6	0.6	0.6	0.8	0.5
MEAN	0.7	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.7	0.9	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 86

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.7	2.0	1.6	2.3	2.2	2.0	1.3	1.6	2.8	3.9	3.0	1.9
1957	2.2	2.6	2.1	2.0	2.1	2.5	1.5	2.2	2.0	3.5	2.4	2.3
1958	2.4	2.1	2.5	2.7	2.2	1.4	1.1	1.8	2.8	4.7	2.4	3.1
1959	1.9	2.3	2.6	2.0	1.3	1.0	1.8	1.5	2.0	2.6	1.8	2.1
1960	3.4	3.8	2.5	2.0	2.1	1.7	2.3	2.3	2.1	1.8	2.5	2.7
1961	2.0	3.2	2.8	2.5	2.1	2.3	1.3	2.0	2.7	3.3	2.3	1.9
1962	2.4	2.2	4.9	2.3	1.5	2.6	2.2	2.3	2.3	2.4	4.7	3.8
1963	2.0	3.4	1.8	2.4	1.9	2.7	1.3	0.9	2.7	3.4	2.3	2.2
1964	2.6	2.6	2.5	2.3	3.0	1.5	1.5	2.1	3.4	2.8	2.3	1.8
1965	2.7	2.4	1.6	1.8	1.1	2.2	1.5	1.2	2.2	3.0	1.7	1.5
1966	3.0	2.5	2.4	1.7	2.1	2.9	1.4	1.8	2.5	2.4	2.7	2.5
1967	2.2	2.4	1.7	1.9	2.5	2.2	1.7	1.6	2.4	1.6	2.1	2.5
1968	3.3	2.7	1.9	1.8	2.3	1.1	0.9	1.1	0.8	1.6	2.2	1.9
1969	3.4	3.4	2.7	1.6	1.6	1.7	1.4	1.4	2.6	2.5	3.4	2.7
1970	2.5	3.2	2.2	2.1	2.1	2.2	1.3	2.3	1.1	3.2	2.7	2.6
1971	2.0	2.3	2.7	1.9	2.1	1.3	2.5	2.7	3.1	3.0	2.0	2.7
1972	2.1	2.8	1.9	2.1	3.3	2.6	2.2	1.7	2.0	2.8	2.4	2.2
1973	2.3	3.5	2.6	2.3	1.9	1.7	0.7	1.3	1.8	2.2	1.7	3.6
1974	2.1	2.7	2.4	1.6	1.5	1.4	0.6	1.2	1.8	1.7	2.6	2.9
1975	2.6	2.5	2.9	2.0	0.9	1.8	3.1	0.9	2.0	4.2	2.6	2.2

LARGEST HS(METRES) FOR STATION 86 = 4.9

STATION 87 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1663	4156	4666	3379	1163	677	8	.	.	.	15712
0.50 - 0.99	.	373	2630	2056	831	910	1	.	.	.	6801
1.00 - 1.49	.	.	17	152	167	34	.	.	.	.	370
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1663	4529	7313	5587	2167	1621	9	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.67 ANGLE CLASS % = 22.9

STATION 87 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	549	662			2446	2431	2048	179	116	94	8525
0.50 - 0.99	.	576	1466	381	145	1030	1175	165	241	239	5418
1.00 - 1.49	.	.	136	874	549	778	236	90	100	80	2843
1.50 - 1.99	.	.	.	41	272	485	142	18	13	15	986
2.00 - 2.49	.	.	.	.	46	172	56	20	6	3	303
2.50 - 2.99	.	.	.	.	1	20	10	5	1	.	37
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	549	1238	1602	1296	3459	4916	3667	477	477	431	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 2.84 ANGLE CLASS % = 18.1

STATION 87 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	289	355			78	6	1	.	6	118	853
0.50 - 0.99	.	362	956	49	71	54	1	.	.	88	1581
1.00 - 1.49	.	.	142	528	70	22	37	1	71	49	920
1.50 - 1.99	.	.	.	49	176	82	23	.	66	8	404
2.00 - 2.49	.	.	.	.	54	172	25	.	18	.	269
2.50 - 2.99	.	.	.	.	.	32	68	5	3	.	108
3.00 - 3.49	.	.	.	.	.	.	5	15	.	.	20
3.50 - 3.99	.	.	.	.	.	.	.	6	.	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	289	717	1098	626	449	368	160	27	164	263	

AVERAGE HS(M) = 1.02 LARGEST HS(M) = 3.61 ANGLE CLASS % = 4.2

STATION 87 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	364	473			566	886	525	29	133	263	3239
0.50 - 0.99	.	619	1680	148	56	1028	920	277	128	775	5631
1.00 - 1.49	.	.	290	1013	246	222	395	352	246	716	3480
1.50 - 1.99	.	.	.	94	458	314	196	165	205	689	2121
2.00 - 2.49	.	.	.	.	112	605	224	44	99	311	1395
2.50 - 2.99	.	.	.	.	.	68	236	63	42	159	568
3.00 - 3.49	.	.	.	.	.	.	20	46	34	54	154
3.50 - 3.99	.	.	.	.	.	.	.	3	47	32	82
4.00 - 4.49	.	.	.	.	.	.	.	.	5	27	32
4.50 - 4.99	.	.	.	.	.	.	.	.	.	11	11
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	364	1092	1970	1255	1438	3123	2516	979	939	3038	

AVERAGE HS(M) = 1.13 LARGEST HS(M) = 5.06 ANGLE CLASS % = 16.7

STATION 87 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	424	809	5		793	1514	573	35	22		4175
0.50 - 0.99	.	576	2257	1444	135	1866	1420	220	109	3	8030
1.00 - 1.49	.	.	184	2387	565	504	999	253	118	.	5040
1.50 - 1.99	.	.	.	184	388	427	494	167	123	.	1783
2.00 - 2.49	.	.	.	.	47	248	166	46	59	1	587
2.50 - 2.99	.	.	.	.	.	30	25	18	5	.	78
3.00 - 3.49	.	.	.	.	.	1	1	1	6	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	424	1385	2446	4015	1938	4590	3698	740	442	4	

AVERAGE HS(M) = 0.92 LARGEST HS(M) = 3.44 ANGLE CLASS % = 19.7

STATION 87 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

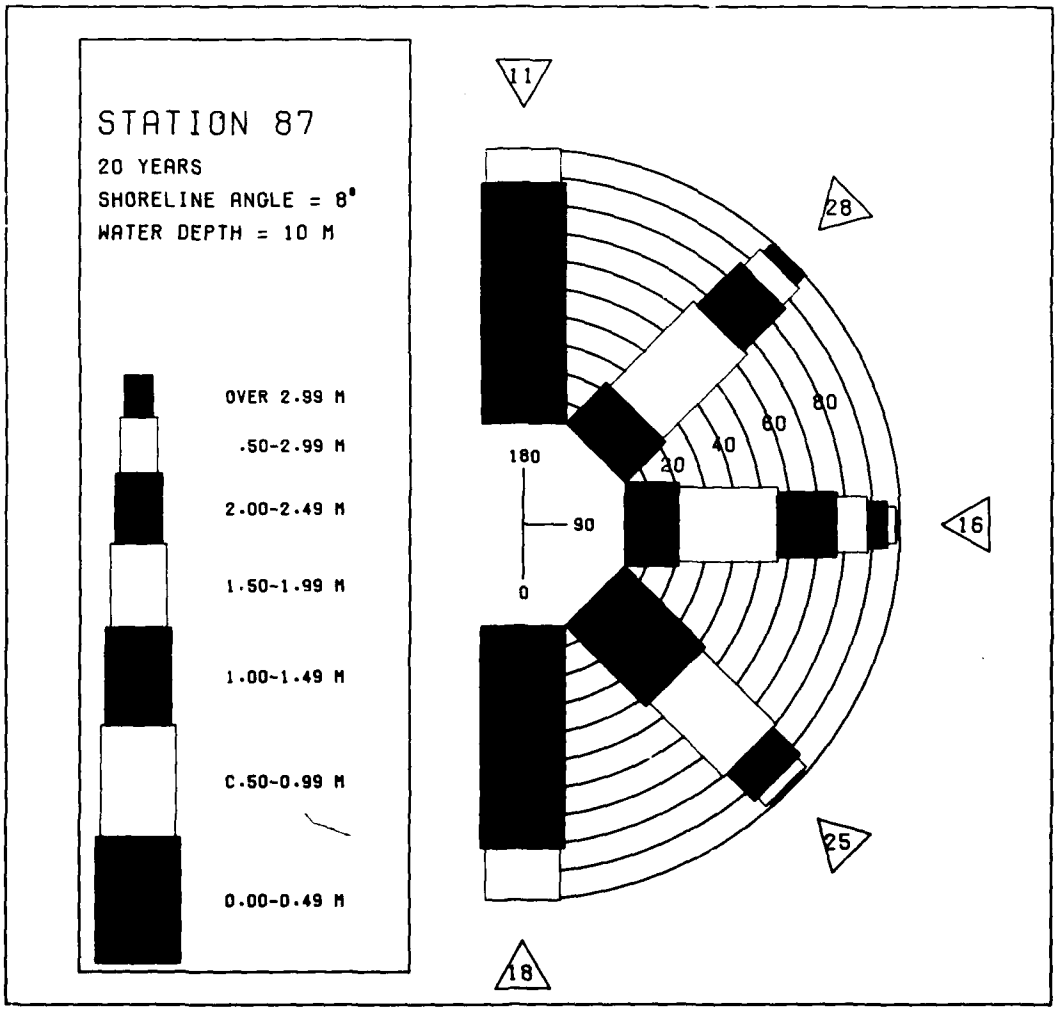
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	746	1632	2055	4690	1468	34	.	.	.	.	10625
0.50 - 0.99	.	80	1113	2956	302	10	.	.	.	.	4461
1.00 - 1.49	.	.	10	301	58	.	.	.	.	.	369
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	746	1712	3178	7947	1836	44	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.77 ANGLE CLASS % = 15.5

STATION 87 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	403	809	672	806	651	555	315	24	27	47	4309
0.50 - 0.99	.	258	1010	703	154	490	351	66	47	110	3189
1.00 - 1.49	.	.	78	525	168	156	166	69	53	84	1299
1.50 - 1.99	.	.	.	36	131	131	85	35	40	71	529
2.00 - 2.49	.	.	.	.	26	119	49	11	18	31	254
2.50 - 2.99	.	.	.	.	.	15	34	9	5	15	78
3.00 - 3.49	.	.	.	.	.	.	2	6	4	5	17
3.50 - 3.99	.	.	.	.	.	.	.	1	4	3	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	2	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER											0
TOTAL	403	1067	1760	2070	1130	1466	1002	221	198	369	

AVE HS(M) = 0.68 LARGEST HS(M) = 5.06 TOTAL CASES = 58440



AD-A129 642 ATLANTIC COAST HINDCAST SHALLOW-WATER SIGNIFICANT WAVE INFORMATION(U) ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRAULICS LAB R E JENSEN JAN 83

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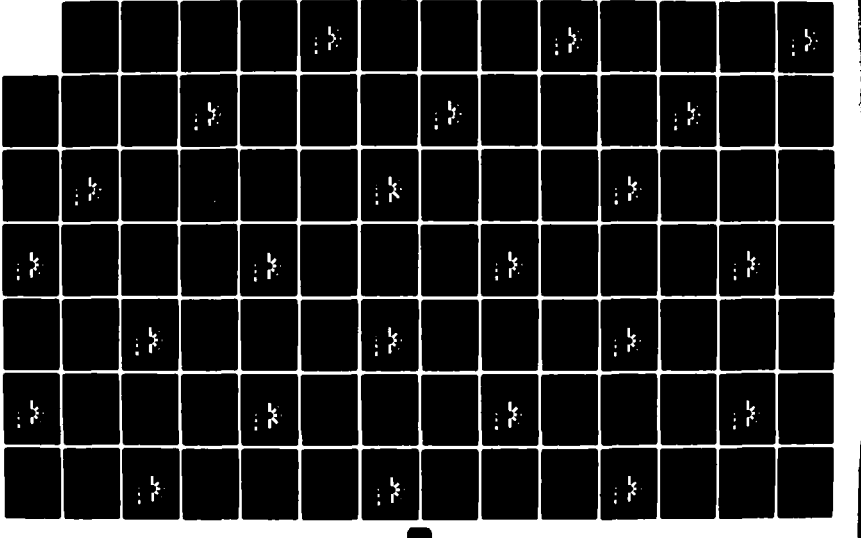
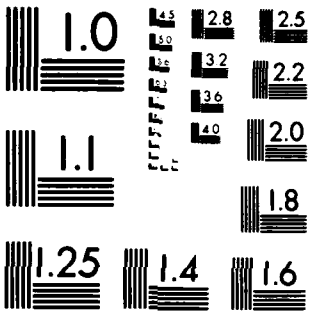
UNCLASSIFIED WIS-9 F/G 12/1 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

MEAN HS(METRES) BY MONTH AND YEAR

STATION 87

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.7	0.6	0.6	0.7	0.8	0.5	0.5	0.8	1.6	1.6	0.8	0.8
1957	0.7	0.9	0.8	0.5	0.7	0.6	0.5	0.6	0.6	1.1	0.7	0.7	0.7
1958	0.6	0.4	0.7	0.9	0.6	0.5	0.4	0.6	0.6	1.4	0.7	0.9	0.7
1959	0.5	0.8	0.7	0.6	0.5	0.3	0.6	0.4	0.8	0.9	0.9	0.7	0.6
1960	0.6	0.8	0.7	0.6	0.7	0.7	0.6	0.6	0.9	0.7	0.7	0.6	0.7
1961	0.5	0.8	0.9	0.6	0.8	0.6	0.3	0.6	0.8	1.0	0.6	0.4	0.7
1962	0.8	0.9	1.1	0.6	0.6	0.7	0.8	0.7	0.7	0.7	1.2	1.5	0.9
1963	0.7	1.1	0.6	0.4	0.7	0.5	0.3	0.4	1.0	1.2	0.5	0.5	0.7
1964	0.7	0.5	0.6	0.7	0.7	0.5	0.6	0.7	1.3	2.0	1.6	1.3	0.9
1965	0.9	0.8	0.7	0.6	0.4	0.6	0.5	0.4	0.8	1.0	0.7	0.4	0.7
1966	0.8	0.8	0.6	0.5	0.7	0.7	0.5	0.6	0.6	0.9	1.1	0.9	0.7
1967	0.6	0.7	0.8	0.6	0.7	0.9	0.5	0.7	1.0	0.7	0.5	0.7	0.7
1968	1.0	0.7	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.4	0.3	0.4	0.4
1969	0.8	1.0	0.6	0.6	0.7	0.5	0.4	0.7	0.9	1.1	0.9	0.5	0.7
1970	0.6	1.0	0.7	0.7	0.6	0.6	0.6	0.5	0.4	1.2	0.9	0.6	0.7
1971	0.6	0.6	0.6	0.5	0.5	0.3	0.6	0.7	0.9	1.2	0.8	1.2	0.7
1972	0.7	0.9	0.7	0.6	1.0	0.7	0.5	0.6	0.7	1.1	0.8	0.7	0.8
1973	0.7	1.1	1.0	0.5	0.5	0.5	0.2	0.3	0.4	0.8	0.4	1.0	0.6
1974	0.6	0.7	0.6	0.5	0.3	0.3	0.2	0.3	0.5	0.6	0.5	0.5	0.5
1975	0.6	0.9	0.6	0.4	0.3	0.4	0.7	0.2	0.6	0.6	0.6	0.7	0.6
MEAN	0.7	0.8	0.7	0.6	0.6	0.5	0.5	0.5	0.7	1.0	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 87

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	3.0	2.1	1.7	2.4	2.3	2.1	1.2	1.5	2.4	4.4	3.1	1.8
1957	2.4	2.8	2.3	2.2	2.2	2.6	1.5	2.4	2.4	3.1	2.2	2.2
1958	2.3	2.2	2.4	3.0	2.1	1.3	0.9	2.0	2.1	3.9	2.5	2.9
1959	1.7	2.3	2.3	2.4	1.3	1.0	2.1	1.4	2.2	2.7	2.0	2.4
1960	3.1	3.6	2.5	2.1	2.1	1.5	1.9	2.2	2.1	2.3	2.3	2.7
1961	2.0	3.2	2.7	2.4	2.1	2.0	1.5	1.8	2.8	2.8	2.1	2.2
1962	2.5	2.4	5.1	2.1	1.3	2.6	2.4	2.2	2.5	2.8	4.6	4.2
1963	2.0	3.1	2.0	2.4	1.9	2.6	0.9	1.0	2.5	3.5	2.1	2.6
1964	2.9	2.2	2.1	2.3	3.1	2.0	1.4	2.2	3.0	3.0	2.6	2.4
1965	3.0	2.5	2.0	1.6	1.0	2.1	2.2	1.3	2.3	3.0	1.5	1.5
1966	3.2	2.5	2.2	1.5	1.7	3.1	1.5	1.7	2.4	2.6	2.2	2.5
1967	2.2	2.5	1.5	2.0	2.4	2.6	1.4	1.5	2.4	1.6	1.9	2.6
1968	3.1	2.6	2.0	1.5	2.2	0.9	0.8	1.2	0.7	1.7	1.6	2.2
1969	2.6	3.4	2.6	1.5	2.1	1.5	1.3	1.4	2.4	2.6	3.6	2.7
1970	2.7	2.5	2.3	2.0	2.0	2.5	1.4	2.2	1.1	3.3	2.8	2.7
1971	2.2	2.2	2.9	2.5	2.2	1.3	2.4	2.3	3.3	3.3	2.3	2.9
1972	2.3	2.8	2.0	1.8	3.3	2.4	2.0	1.6	2.0	2.5	2.6	2.3
1973	2.6	3.9	2.7	2.0	2.0	1.6	0.8	1.0	1.7	2.0	1.8	3.6
1974	2.3	2.5	2.3	1.6	1.4	1.3	0.8	1.0	2.4	2.2	2.3	2.7
1975	2.4	2.6	2.6	1.9	0.9	1.8	3.1	0.9	2.2	2.0	2.5	2.1

LARGEST HS(METRES) FOR STATION 87 = 5.1

STATION 88 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 76.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1642	2674	1748	1735	764	496	6	.	.	.	9065
0.50 - 0.99	.	386	2193	1013	302	602	3	.	.	.	4499
1.00 - 1.49	.	.	34	231	140	42	.	.	.	.	447
1.50 - 1.99	.	.	.	.	13	.	.	.	.	.	13
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1642	3060	3975	2979	1220	1140	9	0	0	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 2.17 ANGLE CLASS % = 14.0

STATION 88 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 76.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1134	1584	.	.	870	811	309	5	1	.	4714
0.50 - 0.99	.	1435	4241	978	405	1991	879	160	13	.	10102
1.00 - 1.49	.	.	528	2708	1146	2234	971	203	20	.	7810
1.50 - 1.99	.	.	.	140	1074	1902	812	227	49	.	4204
2.00 - 2.49	.	.	.	.	111	711	556	219	27	3	1627
2.50 - 2.99	.	.	.	.	1	44	75	97	13	1	231
3.00 - 3.49	.	.	.	.	.	.	3	13	8	1	25
3.50 - 3.99	.	.	.	.	.	.	.	.	3	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1134	3019	4769	3826	3607	7693	3605	924	134	5	

AVERAGE HS(M) = 1.05 LARGEST HS(M) = 3.56 ANGLE CLASS % = 28.7

STATION 88 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 76.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	602	610	.	.	1173	1596	821	35	42	160	5039
0.50 - 0.99	.	696	1670	142	135	2570	1651	106	313	119	7402
1.00 - 1.49	.	.	282	1066	198	747	475	35	241	65	3109
1.50 - 1.99	.	.	.	104	446	424	171	42	205	35	1427
2.00 - 2.49	.	.	.	1	126	681	136	13	35	18	1010
2.50 - 2.99	.	.	.	.	1	106	215	41	15	10	388
3.00 - 3.49	.	.	.	.	.	3	39	65	13	.	120
3.50 - 3.99	.	.	.	.	.	.	.	6	10	1	17
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	602	1306	1952	1313	2079	6127	3508	343	874	408	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 3.91 ANGLE CLASS % = 18.5

STATION 88 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 76.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	638	609			254	27	13	.	5	400	1946
0.50 - 0.99	.	633	1415	102	35	73	1	.	5	1036	3300
1.00 - 1.49	.	.	246	908	154	23	23	1	54	85	1496
1.50 - 1.99	.	.	.	56	284	102	6	1	18	.	467
2.00 - 2.49	.	.	.	.	75	297	22	5	10	.	409
2.50 - 2.99	.	.	.	.	.	71	65	15	1	.	152
3.00 - 3.49	.	.	.	.	.	.	3	8	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	638	1242	1661	1066	802	593	133	33	96	1521	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.84 ANGLE CLASS % = 7.8

STATION 88 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 76.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	576	718	6		403	639	655	123	104	193	3417
0.50 - 0.99	.	458	1834	626	354	677	340	272	241	62	4884
1.00 - 1.49	.	.	102	715	472	542	213	92	80	17	2233
1.50 - 1.99	.	.	.	13	150	266	130	27	11	18	615
2.00 - 2.49	.	.	.	.	23	68	30	22	3	6	152
2.50 - 2.99	.	.	.	.	.	.	3	1	.	.	4
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	576	1176	1942	1354	1402	2192	1371	537	439	316	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 2.65 ANGLE CLASS % = 11.3

STATION 88 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 76.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

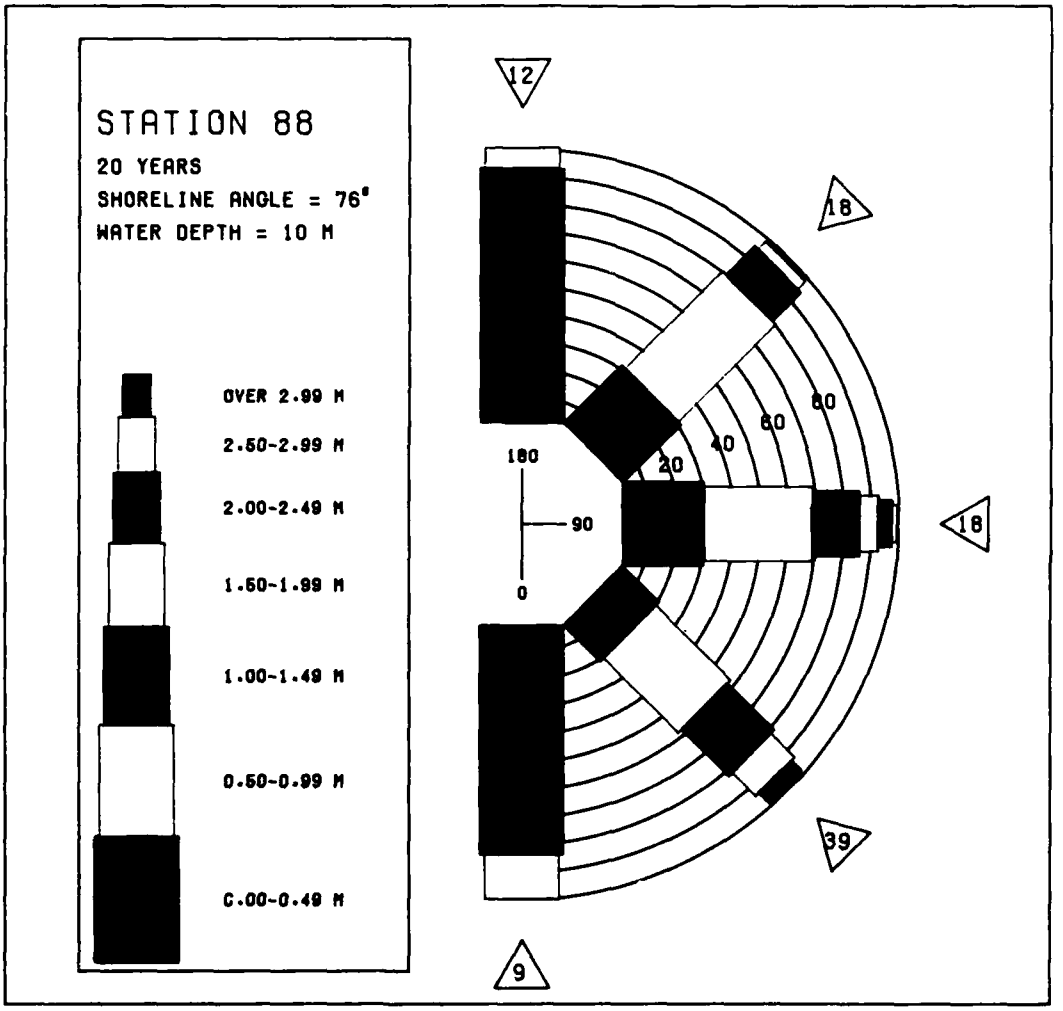
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1206	2299	3119	4680	1232	205	.	.	.	.	12741
0.50 - 0.99	.	92	1202	1290	627	277	.	.	.	.	3488
1.00 - 1.49	.	.	6	22	53	1	.	.	.	.	82
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1206	2391	4327	5992	1917	483	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.57 ANGLE CLASS % = 16.3

STATION 88 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 76.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	580	849	487	641	470	377	180	16	15	75	3690
0.50 - 0.99	.	370	1255	415	166	619	287	53	57	123	3365
1.00 - 1.49	.	.	120	565	216	359	168	33	39	16	1516
1.50 - 1.99	.	.	.	31	197	269	112	29	28	5	671
2.00 - 2.49	.	.	.	.	33	175	74	26	7	2	317
2.50 - 2.99	.	.	.	.	.	22	35	15	3	1	76
3.00 - 3.49	.	.	.	.	.	.	4	8	2	.	14
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	580	1219	1862	1652	1102	1821	860	180	152	222	

AVE HS(M) = 0.74 LARGEST HS(M) = 3.91 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 88

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	1.1	0.9	1.1	0.7	0.8	1.1	0.6	0.6	0.7	0.5	0.8	0.8
1957	0.8	0.9	0.7	0.8	0.6	0.7	0.8	0.6	0.5	0.5	1.0	0.9	0.7
1958	0.6	0.8	0.7	0.9	0.7	0.8	0.9	0.8	0.6	0.5	0.6	0.5	0.7
1959	0.7	0.9	1.0	0.8	0.8	0.6	0.8	0.7	0.5	0.9	0.6	0.7	0.7
1960	0.7	1.0	0.8	1.1	1.0	0.8	1.0	0.7	0.6	0.4	0.5	0.5	0.8
1961	0.7	1.1	1.2	1.3	0.9	1.1	0.8	0.8	0.4	0.4	0.4	0.9	0.8
1962	0.8	0.9	0.6	1.1	0.5	0.7	1.1	0.8	0.6	0.6	0.9	0.8	0.8
1963	0.8	1.0	1.1	0.8	0.7	0.9	0.7	0.5	0.4	0.5	0.7	0.6	0.7
1964	0.9	0.9	1.0	0.9	0.7	0.7	1.0	0.9	0.7	1.0	1.0	1.1	0.9
1965	0.8	1.0	1.0	0.8	0.7	0.8	0.8	0.7	0.5	0.8	0.6	0.4	0.7
1966	0.7	0.9	0.8	0.9	0.8	0.7	0.9	0.9	1.0	0.6	0.6	0.6	0.8
1967	0.7	0.8	0.7	0.8	1.0	0.8	1.2	1.0	0.6	0.5	0.6	0.8	0.8
1968	0.5	0.3	0.8	0.3	0.5	0.4	0.3	0.2	0.1	0.4	0.6	0.6	0.4
1969	0.5	0.6	0.7	0.8	0.7	0.6	0.7	0.9	0.5	0.5	1.2	0.9	0.7
1970	0.5	1.3	1.2	0.9	0.6	0.8	0.9	0.9	0.4	0.7	0.7	0.8	0.8
1971	0.8	1.1	0.9	0.9	0.9	0.5	0.9	0.7	0.7	1.4	0.9	1.1	0.9
1972	0.9	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.3	0.6	0.8	0.8	0.8
1973	0.8	0.7	1.0	1.1	0.9	0.7	0.3	0.4	0.3	0.4	0.8	1.5	0.7
1974	0.8	0.9	0.8	1.0	0.5	0.3	0.2	0.2	0.2	0.2	0.4	0.7	0.5
1975	0.7	0.9	0.8	0.5	0.2	0.4	0.7	0.3	0.4	0.3	0.4	0.5	0.5
MEAN	0.7	0.9	0.9	0.9	0.7	0.7	0.8	0.7	0.5	0.6	0.7	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 88

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.2	2.5	2.4	3.3	1.4	2.2	2.1	1.4	2.6	2.9	1.7	2.3
1957	2.2	2.7	2.2	2.6	2.1	2.2	1.8	2.1	1.9	3.1	2.6	2.6
1958	3.0	2.9	2.3	2.8	2.8	2.2	1.8	2.5	3.0	2.2	2.0	2.7
1959	3.1	2.5	3.0	2.4	2.0	2.0	2.1	2.0	2.4	2.2	2.5	2.5
1960	2.2	3.1	2.9	2.6	2.1	1.8	3.1	1.9	2.6	2.4	2.2	2.7
1961	2.5	3.1	2.6	2.9	2.4	2.3	1.8	2.2	2.4	2.1	2.3	2.4
1962	3.1	2.7	2.8	3.2	1.4	2.6	2.3	2.4	2.1	1.4	3.0	2.3
1963	2.5	2.6	2.7	2.5	2.5	2.6	2.0	1.9	2.5	2.1	2.6	2.7
1964	2.8	3.0	2.7	2.4	2.0	2.4	2.4	2.3	2.6	3.1	2.7	2.8
1965	2.7	3.1	2.4	2.5	1.7	2.0	2.0	1.9	1.3	2.5	2.1	2.0
1966	3.0	3.6	2.7	2.3	2.3	2.6	1.9	2.1	2.5	2.2	2.5	2.5
1967	2.6	2.4	2.7	2.1	2.8	1.9	2.4	2.1	2.3	2.3	2.6	3.1
1968	2.6	2.3	3.2	2.2	2.1	1.4	1.0	0.8	0.5	1.8	2.5	3.1
1969	2.4	2.1	2.7	2.7	2.5	1.6	2.0	2.3	2.6	2.0	3.7	2.8
1970	2.3	3.7	2.8	2.6	2.5	2.1	2.3	2.2	1.8	2.6	2.1	2.8
1971	3.1	2.8	2.6	2.8	2.7	1.3	2.1	3.0	3.1	3.4	2.6	2.6
1972	2.5	3.1	2.5	2.3	2.3	3.1	2.1	2.1	2.1	2.2	3.0	2.5
1973	2.6	3.4	3.6	2.9	2.5	1.7	1.1	2.0	2.1	2.6	3.6	3.9
1974	2.4	3.2	2.3	2.7	2.6	1.3	0.9	0.9	0.9	1.5	1.9	3.0
1975	2.6	2.9	2.8	2.5	1.0	1.2	2.1	0.9	1.7	2.1	2.2	3.3

LARGEST HS(METRES) FOR STATION 88 = 3.9

STATION 89 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	504	693	817	121	.	.	.	.	.	.	2135
0.50 - 0.99	.	.	92	.	.	.	.	.	.	.	92
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	504	693	909	121	0	0	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 0.69 ANGLE CLASS % = 2.2

STATION 89 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1755	3247	814	231	857	699	136	6	10	.	7755
0.50 - 0.99	.	1090	5426	2538	939	2737	815	116	30	.	13689
1.00 - 1.49	.	.	304	1931	1353	2477	1013	231	37	.	7406
1.50 - 1.99	.	.	.	54	593	1507	764	191	27	3	3139
2.00 - 2.49	.	.	.	.	65	355	350	111	17	3	901
2.50 - 2.99	.	.	.	.	3	18	25	46	15	.	107
3.00 - 3.49	.	.	.	.	.	.	.	1	1	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1755	4337	6544	4815	3810	7793	3100	702	137	6	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.19 ANGLE CLASS % = 33.0

STATION 89 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	595	638	.	.	1295	1605	865	42	46	171	5257
0.50 - 0.99	.	651	1521	157	135	2116	1574	119	330	116	6719
1.00 - 1.49	.	.	272	982	207	552	366	35	237	65	2716
1.50 - 1.99	.	.	.	75	415	343	87	34	196	39	1158
2.00 - 2.49	.	.	.	1	109	614	78	10	27	15	851
2.50 - 2.99	.	.	.	.	.	92	168	46	13	10	347
3.00 - 3.49	.	.	.	.	.	1	18	44	11	1	75
3.50 - 3.99	.	.	.	.	.	.	.	3	8	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	595	1289	1793	1215	2161	5323	3140	333	868	417	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.88 ANGLE CLASS % = 17.2

STATION 89 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	633	521			215	53	1	6	6	497	1932
0.50 - 0.99	.	607	1409	90	51	71	.	11	1	1107	3347
1.00 - 1.49	.	.	213	848	142	75	27	5	59	97	1414
1.50 - 1.99	.	.	.	51	282	90	3	5	15	.	442
2.00 - 2.49	.	.	.	.	61	280	22	5	6	.	376
2.50 - 2.99	.	.	.	.	.	65	68	22	1	.	156
3.00 - 3.49	.	.	.	.	.	.	1	11	.	.	12
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	633	1128	1622	989	751	584	122	60	91	1701	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 3.73 ANGLE CLASS % = 7.7

STATION 89 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	537	723	11	.	633	1647	1168	273	111	171	5274
0.50 - 0.99	.	460	1878	718	473	1067	491	296	213	30	5626
1.00 - 1.49	.	.	135	775	564	710	265	104	92	15	2660
1.50 - 1.99	.	.	.	20	191	335	177	87	34	8	852
2.00 - 2.49	.	.	.	.	20	78	54	15	10	12	192
2.50 - 2.99	.	.	.	.	.	1	1	1	1	5	9
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	537	1183	2024	1513	1881	3838	2156	776	461	244	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 2.87 ANGLE CLASS % = 14.6

STATION 89 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

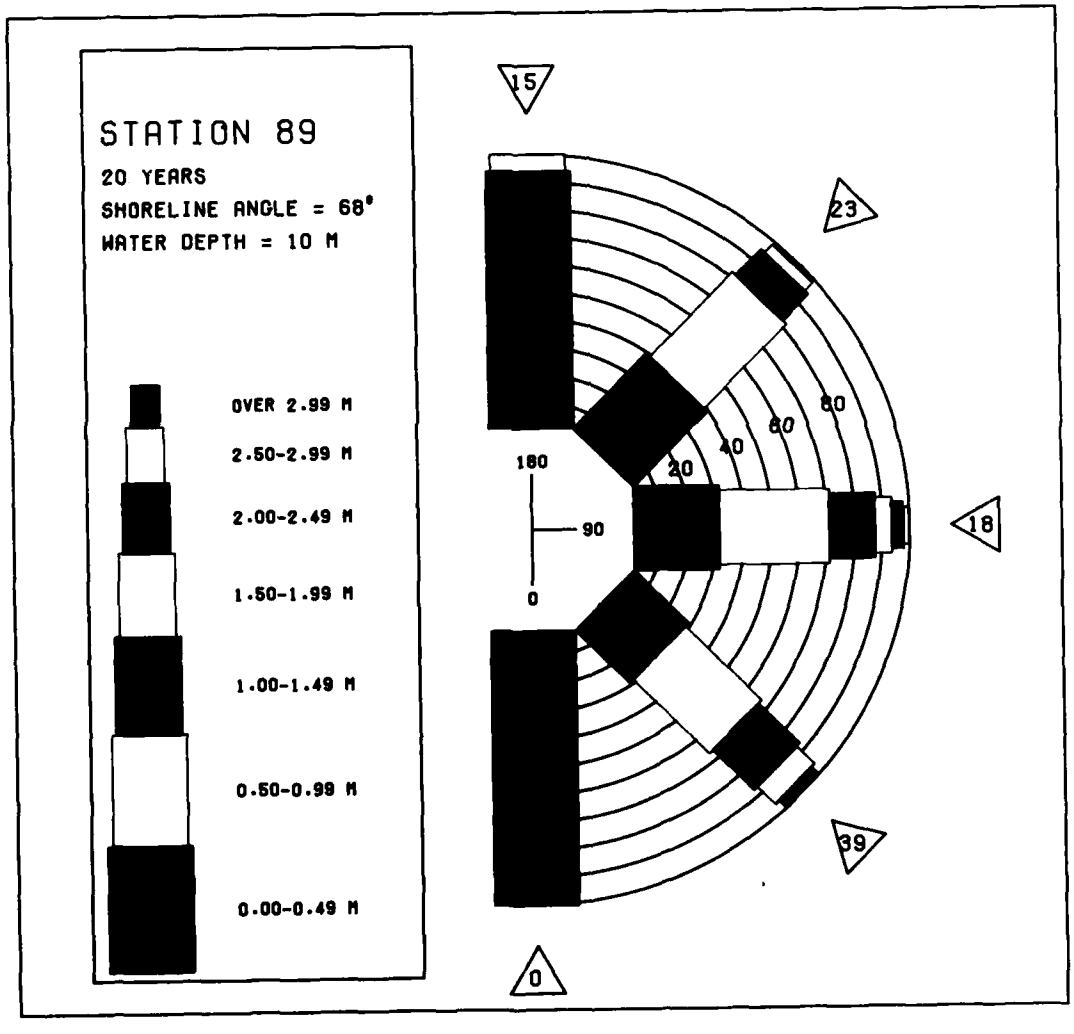
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1540	2914	4028	6608	1603	99	.	.	.	.	16792
0.50 - 0.99	.	88	1291	1483	631	126	.	.	.	.	3619
1.00 - 1.49	.	.	11	32	46	1	.	.	.	.	90
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1540	3002	5330	8123	2280	226	0	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.46 ANGLE CLASS % = 20.5

STATION 89 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 68.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	556	873	567	696	460	410	217	33	17	84	3913
0.50 - 0.99	.	289	1162	498	223	612	287	54	57	125	3307
1.00 - 1.49	.	.	93	463	231	376	167	37	42	17	1426
1.50 - 1.99	.	.	.	20	148	227	100	31	27	5	558
2.00 - 2.49	.	.	.	.	25	132	50	14	6	3	230
2.50 - 2.99	.	.	.	.	.	17	28	11	3	1	60
3.00 - 3.49	.	.	.	.	.	.	2	5	1	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	556	1162	1822	1677	1087	1774	851	185	154	235	

AVE HS(M) = 0.68 LARGEST HS(M) = 3.88 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 89

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.0	0.7	0.9	0.6	0.8	1.0	0.5	0.5	0.8	0.5	0.7	0.7
1957	0.7	0.8	0.6	0.7	0.6	0.6	0.8	0.6	0.5	0.6	0.9	0.8	0.7
1958	0.5	0.6	0.5	0.9	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.5	0.6
1959	0.5	0.8	0.9	0.7	0.7	0.5	0.8	0.6	0.6	0.8	0.6	0.6	0.7
1960	0.6	0.9	0.7	1.0	0.9	0.7	1.0	0.7	0.6	0.4	0.5	0.4	0.7
1961	0.6	0.9	1.2	1.0	0.9	1.0	0.6	0.8	0.4	0.4	0.4	0.8	0.7
1962	0.7	0.8	0.6	1.0	0.4	0.7	1.0	0.8	0.5	0.5	0.8	0.7	0.7
1963	0.7	1.0	1.0	0.7	0.7	0.8	0.6	0.4	0.5	0.6	0.6	0.5	0.7
1964	0.8	0.7	0.9	0.9	0.6	0.7	0.9	0.8	0.7	1.0	0.9	1.0	0.8
1965	0.7	0.9	0.9	0.8	0.6	0.7	0.8	0.6	0.5	0.8	0.6	0.4	0.7
1966	0.6	0.8	0.7	0.8	0.8	0.7	0.9	0.9	0.9	0.6	0.5	0.6	0.7
1967	0.6	0.7	0.7	0.6	0.9	0.9	1.1	1.0	0.6	0.5	0.5	0.8	0.7
1968	0.5	0.2	0.7	0.3	0.4	0.4	0.3	0.2	0.1	0.3	0.4	0.5	0.4
1969	0.5	0.4	0.6	0.8	0.7	0.6	0.6	0.9	0.5	0.5	1.2	0.8	0.7
1970	0.4	1.2	1.1	0.8	0.6	0.8	0.9	0.8	0.4	0.8	0.6	0.6	0.7
1971	0.7	1.0	0.7	0.7	0.9	0.4	0.8	0.7	0.8	1.4	0.8	1.1	0.8
1972	0.9	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.3	0.7	0.8	0.7	0.8
1973	0.7	0.6	0.9	0.9	0.8	0.6	0.2	0.3	0.3	0.4	0.7	1.4	0.7
1974	0.7	0.8	0.7	0.9	0.5	0.3	0.2	0.2	0.2	0.3	0.3	0.6	0.5
1975	0.6	1.0	0.7	0.4	0.2	0.4	0.7	0.3	0.5	0.4	0.4	0.5	0.5
MEAN	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.6	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 89

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.4	2.0	3.1	1.4	2.2	2.0	1.4	2.6	2.9	1.3	2.0
1957	2.1	2.8	2.2	2.5	2.1	2.0	1.7	2.1	2.1	3.1	2.4	2.5
1958	3.0	2.6	2.4	2.7	2.7	2.1	1.5	2.5	2.9	2.3	2.0	2.8
1959	2.7	2.4	2.8	2.3	1.9	1.8	2.2	1.8	2.5	2.0	2.3	2.4
1960	2.3	3.0	2.7	2.5	2.0	1.7	2.9	1.7	2.6	2.0	2.1	2.5
1961	2.5	3.1	2.6	2.8	2.4	2.2	1.7	2.2	2.3	2.2	2.3	2.2
1962	3.0	2.5	2.5	3.1	1.2	2.3	2.0	2.3	2.3	1.4	3.0	2.1
1963	2.3	2.5	2.5	2.4	2.3	2.6	1.9	1.5	2.5	2.4	2.5	2.7
1964	2.8	3.0	2.5	2.3	2.1	2.4	2.4	2.2	2.3	3.1	2.6	2.8
1965	2.5	3.0	2.4	2.5	1.7	1.7	1.5	1.9	1.5	2.4	1.7	1.8
1966	3.0	3.3	2.5	2.0	2.3	2.6	1.7	2.1	2.5	2.1	2.3	2.5
1967	2.5	2.2	2.6	2.1	2.5	2.1	2.3	2.0	2.2	1.9	2.5	3.1
1968	2.7	2.2	3.1	2.0	2.1	1.2	0.9	0.6	0.5	1.8	2.3	2.9
1969	2.4	2.0	2.5	2.5	2.3	1.5	1.9	2.0	2.6	2.0	3.7	2.7
1970	2.2	3.6	2.8	2.5	2.5	2.0	2.3	2.2	1.5	2.7	2.3	2.8
1971	2.8	2.6	2.6	2.8	2.6	1.2	2.0	2.9	3.1	3.4	2.6	2.4
1972	2.4	3.0	2.5	2.2	2.3	2.9	2.1	1.9	1.9	2.1	3.0	2.5
1973	2.6	3.3	3.3	2.9	2.3	1.5	1.0	1.6	1.7	2.4	3.3	3.9
1974	2.1	3.1	2.2	2.6	2.6	1.2	0.7	0.8	0.9	1.5	1.7	3.0
1975	2.6	2.6	2.7	2.5	0.9	1.2	2.0	0.7	1.7	2.0	2.0	3.0

LARGEST HS(METRES) FOR STATION 89 = 3.9

STATION 90 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1930	3526	2328	1155	686	1257	47	1	3	.	10933
0.50 - 0.99	.	509	3447	1901	554	730	37	3	1	.	7181
1.00 - 1.49	.	.	73	400	282	25	.	1	1	.	782
1.50 - 1.99	.	.	.	1	8	.	.	.	.	.	9
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1930	4035	5848	3457	1530	2012	84	2	7	0	

AVERAGE HS(M) = 0.46 LARGEST HS(M) = 1.87 ANGLE CLASS % = 18.9

STATION 90 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	860	1209			1180	1084	850	147	20	1	5351
0.50 - 0.99	.	1098	3266	896	426	2707	1276	280	51	3	10003
1.00 - 1.49	.	.	427	2055	1262	2337	1156	284	39	5	7565
1.50 - 1.99	.	.	.	78	667	1488	619	165	29	3	3049
2.00 - 2.49	.	.	.	1	92	470	244	104	18	1	930
2.50 - 2.99	.	.	.	.	3	22	70	54	6	1	156
3.00 - 3.49	.	.	.	.	.	1	.	13	.	.	14
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	860	2307	3693	3030	3630	8109	4215	1047	163	14	

AVERAGE HS(M) = 0.97 LARGEST HS(M) = 3.35 ANGLE CLASS % = 27.1

STATION 90 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	456	453			663	1293	737	35	42	176	3855
0.50 - 0.99	.	513	1052	53	46	1581	1307	106	314	111	5083
1.00 - 1.49	.	.	207	800	123	331	207	18	227	58	1971
1.50 - 1.99	.	.	.	65	262	172	11	25	203	42	810
2.00 - 2.49	.	.	.	.	75	352	30	1	15	15	488
2.50 - 2.99	.	.	.	.	.	87	104	15	8	5	219
3.00 - 3.49	.	.	.	.	.	.	6	13	10	.	29
3.50 - 3.99	.	.	.	.	.	.	.	.	6	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	456	966	1259	918	1199	3816	2402	213	825	407	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.84 ANGLE CLASS % = 12.5

STATION 90 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	521	446			128	61		5	51	275	1487
0.50 - 0.99	.	557	1362	92	42	73	5	44	106	884	3165
1.00 - 1.49	.	.	225	758	135	73	25	47	297	985	2495
1.50 - 1.99	.	.	.	65	275	118	13	3	68	164	716
2.00 - 2.49	.	.	.	.	58	250	37	1	13	5	364
2.50 - 2.99	.	.	.	.	.	44	65	24	8	.	144
3.00 - 3.49	.	.	.	.	.	.	3	17	.	10	30
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	521	1003	1587	915	628	573	148	145	564	2323	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 3.73 ANGLE CLASS % = 8.4

STATION 90 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	485	687	13		549	783	407	51	23	5	3003
0.50 - 0.99	.	518	2015	953	511	824	776	222	49	35	5903
1.00 - 1.49	.	.	160	965	805	882	297	145	5	11	3270
1.50 - 1.99	.	.	.	37	249	574	261	68	20	11	1220
2.00 - 2.49	.	.	.	.	37	140	145	70	37	6	435
2.50 - 2.99	.	.	.	.	.	5	8	8	.	13	34
3.00 - 3.49	.	.	.	.	.	.	.	.	1	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	485	1205	2188	1955	2151	3208	1894	564	135	81	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.08 ANGLE CLASS % = 13.9

STATION 90 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

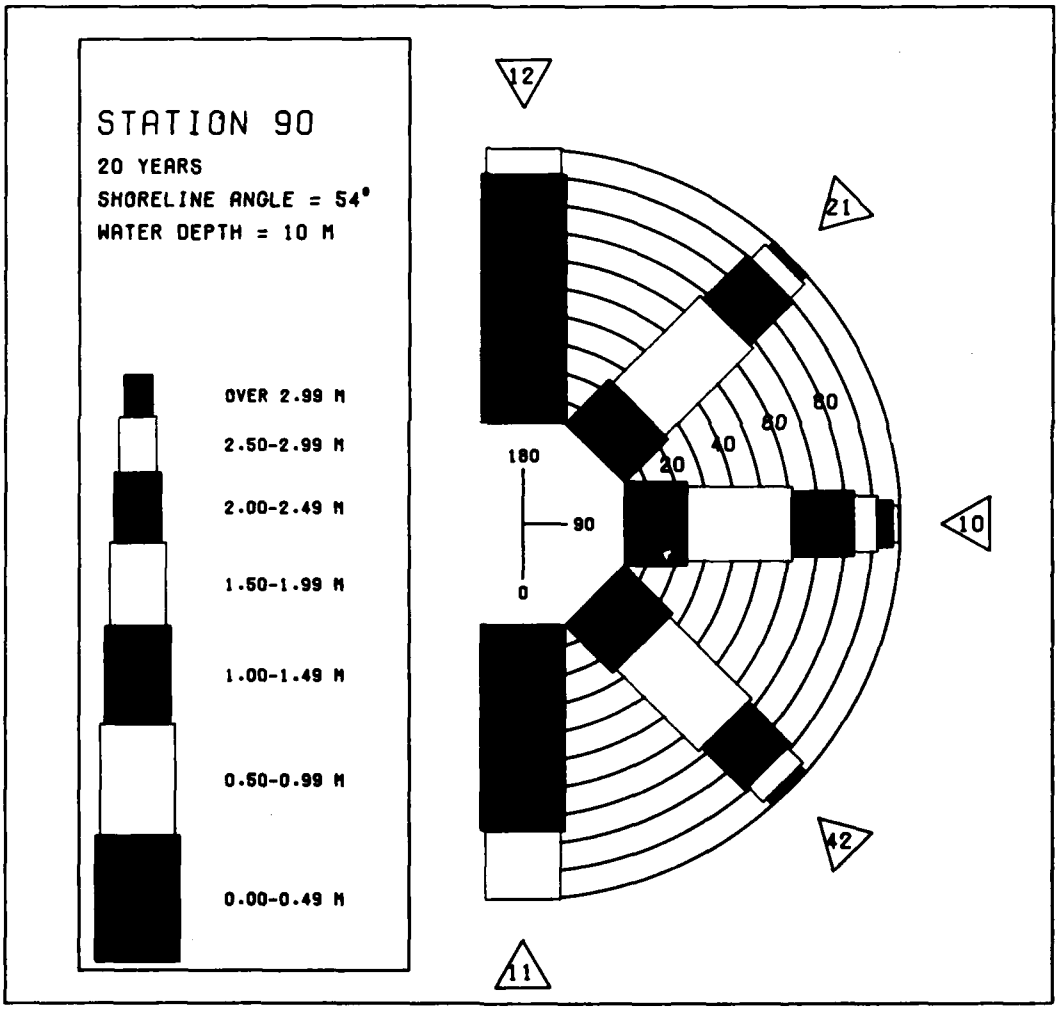
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1124	2164	2693	5189	1125	75	.	.	.	.	12370
0.50 - 0.99	.	78	1363	1904	431	44	.	.	.	.	3820
1.00 - 1.49	.	.	6	42	42	1	.	.	.	.	91
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1124	2242	4062	7135	1598	120	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.49 ANGLE CLASS % = 16.3

STATION 90 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	537	848	503	634	433	455	204	24	14	45	3697
0.50 - 0.99	.	327	1250	580	201	596	340	65	52	103	3514
1.00 - 1.49	.	.	110	502	265	360	168	49	57	106	1617
1.50 - 1.99	.	.	.	24	148	275	90	26	34	22	579
2.00 - 2.49	.	.	.	.	26	121	45	17	8	2	219
2.50 - 2.99	.	.	.	.	.	15	24	10	2	2	53
3.00 - 3.49	.	.	.	.	.	.	1	4	1	1	7
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	537	1175	1863	1740	1073	1782	872	195	168	281	

AVE HS(M) = 0.71 LARGEST HS(M) = 3.84 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 90

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	1.0	0.7	0.9	0.7	0.9	1.0	0.6	0.6	1.0	0.6	0.7	0.7
1957	0.7	0.9	0.7	0.7	0.6	0.7	0.8	0.7	0.6	0.8	0.9	0.8	0.7
1958	0.5	0.6	0.6	0.9	0.7	0.8	0.8	0.8	0.6	0.7	0.6	0.6	0.7
1959	0.5	0.9	0.9	0.7	0.7	0.5	0.8	0.6	0.6	0.9	0.7	0.7	0.7
1960	0.6	0.9	0.7	0.9	0.9	0.8	1.0	0.7	0.7	0.4	0.5	0.5	0.7
1961	0.6	0.9	1.2	1.0	0.9	1.0	0.7	0.8	0.5	0.5	0.4	0.8	0.8
1962	0.7	0.9	0.7	0.9	0.5	0.7	1.0	0.8	0.6	0.6	0.9	0.8	0.8
1963	0.7	1.1	1.0	0.7	0.7	0.8	0.6	0.5	0.6	0.8	0.6	0.5	0.7
1964	0.8	0.6	0.9	0.9	0.7	0.7	0.9	0.9	0.9	1.4	1.3	1.3	0.9
1965	0.9	1.1	1.1	0.9	0.6	0.7	0.8	0.6	0.6	0.9	0.6	0.4	0.8
1966	0.7	0.9	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.7	0.7	0.6	0.8
1967	0.6	0.7	0.7	0.7	0.9	1.0	1.1	1.0	0.7	0.6	0.5	0.7	0.8
1968	0.6	0.3	0.6	0.3	0.4	0.4	0.3	0.2	0.2	0.4	0.4	0.5	0.4
1969	0.5	0.5	0.6	0.8	0.7	0.6	0.6	0.9	0.6	0.6	1.2	0.7	0.7
1970	0.5	1.2	1.0	0.8	0.6	0.8	0.9	0.8	0.4	0.9	0.7	0.6	0.8
1971	0.7	1.0	0.7	0.7	0.8	0.4	0.8	0.7	0.8	1.5	1.0	1.3	0.9
1972	0.9	0.8	0.9	0.9	1.0	0.9	0.8	0.8	0.3	0.8	0.8	0.7	0.8
1973	0.7	0.7	0.9	0.9	0.8	0.6	0.3	0.4	0.3	0.5	0.6	1.4	0.7
1974	0.7	0.7	0.7	0.9	0.5	0.3	0.2	0.2	0.3	0.4	0.3	0.6	0.5
1975	0.6	1.1	0.6	0.4	0.2	0.4	0.7	0.3	0.5	0.4	0.4	0.5	0.5
MEAN	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 90

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.3	1.9	2.8	1.6	1.9	1.8	1.6	2.6	2.9	1.6	2.0
1957	2.0	2.9	2.2	2.5	2.1	2.2	1.6	2.1	2.5	3.0	2.3	2.5
1958	2.9	2.5	2.4	2.7	2.7	2.0	1.5	2.5	2.8	2.5	2.1	2.9
1959	2.3	2.4	2.7	2.2	1.7	1.8	2.2	1.8	2.5	2.2	2.3	2.2
1960	2.5	2.8	2.4	2.4	2.0	1.6	2.7	1.5	2.5	1.7	1.9	2.6
1961	2.4	3.1	3.1	2.7	2.5	2.2	1.6	2.2	2.3	2.2	2.2	2.2
1962	2.8	2.4	2.3	2.9	1.2	2.1	2.1	2.3	2.4	1.9	3.3	2.4
1963	2.3	2.4	2.3	2.3	2.0	2.5	1.3	1.5	2.4	2.8	2.5	2.6
1964	2.8	2.9	2.3	2.2	2.6	2.4	2.1	2.0	2.4	3.0	2.6	2.6
1965	2.4	2.9	2.4	2.4	1.5	1.7	1.5	1.7	1.7	2.4	1.7	1.7
1966	3.0	3.2	2.4	2.0	2.2	2.7	1.5	1.9	2.5	2.0	2.3	2.5
1967	2.4	2.1	2.3	2.1	2.2	2.3	2.2	2.0	2.2	1.8	2.3	2.9
1968	2.9	2.2	2.9	1.9	2.1	1.2	0.9	0.8	0.5	1.8	2.3	2.7
1969	2.4	2.2	2.5	2.4	2.3	1.5	1.9	1.9	2.6	2.0	3.7	2.7
1970	2.3	3.5	2.8	2.4	2.4	1.9	2.1	2.2	1.4	2.7	2.5	2.8
1971	2.5	2.5	2.6	2.8	2.5	1.1	1.8	2.8	3.2	3.4	2.6	2.5
1972	2.3	3.0	2.5	2.3	2.5	2.8	2.1	1.8	1.8	2.1	3.0	2.3
1973	2.6	3.3	3.1	2.9	2.3	1.4	1.0	1.6	1.7	2.4	2.9	3.8
1974	1.9	2.9	2.2	2.5	2.4	1.2	0.8	0.8	1.2	1.8	2.0	2.9
1975	2.5	2.4	2.7	2.5	0.9	1.2	2.0	0.7	1.7	2.0	1.9	2.8

LARGEST HS(METRES) FOR STATION 90 = 3.8

STATION 91 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 52.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2063	3697	2488	1172	708	1310	73	6	5	.	11522
0.50 - 0.99	.	508	3506	2005	593	713	35	5	3	.	7368
1.00 - 1.49	.	.	75	414	294	20	.	.	.	.	803
1.50 - 1.99	.	.	.	1	13	.	.	.	.	.	14
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2063	4205	6069	3592	1608	2043	108	11	8	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 1.87 ANGLE CLASS % = 19.7

STATION 91 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 52.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	912	1213	.	.	1630	1350	886	167	27	1	6186
0.50 - 0.99	.	1054	3182	841	385	2927	1377	278	47	3	10094
1.00 - 1.49	.	.	396	1978	1273	2310	1067	280	39	5	7348
1.50 - 1.99	.	.	.	82	641	1416	566	152	23	3	2883
2.00 - 2.49	.	.	.	1	75	468	227	97	18	1	887
2.50 - 2.99	.	.	.	.	1	23	61	54	5	1	145
3.00 - 3.49	.	.	.	.	.	.	.	11	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	912	2267	3578	2902	4005	8494	4184	1039	159	14	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 3.35 ANGLE CLASS % = 27.6

STATION 91 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 52.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	458	436	.	.	533	1356	865	47	59	203	3957
0.50 - 0.99	.	489	1036	56	42	1517	1353	107	343	112	5055
1.00 - 1.49	.	.	201	787	121	263	189	17	239	59	1676
1.50 - 1.99	.	.	.	49	272	159	6	25	186	39	736
2.00 - 2.49	.	.	.	.	70	314	25	3	15	13	440
2.50 - 2.99	.	.	.	.	.	82	100	11	8	5	206
3.00 - 3.49	.	.	.	.	.	.	6	13	8	.	27
3.50 - 3.99	.	.	.	.	.	.	.	.	8	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	458	925	1237	892	1038	3691	2544	223	866	431	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.84 ANGLE CLASS % = 12.3

STATION 91 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 52.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	597	540			165	71		11		316	1700
0.50 - 0.99	.	562	1490	126	42	68	5	17	1	903	3236
1.00 - 1.49	.	.	227	812	159	25	29	3	49	963	2287
1.50 - 1.99	.	.	.	63	290	142	20	1	39	147	702
2.00 - 2.49	.	.	.	.	61	265	56	5	10	3	400
2.50 - 2.99	.	.	.	.	.	42	63	32	10	13	160
3.00 - 3.49	.	.	.	.	.	.	1	15	.	5	21
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	597	1102	1717	1003	717	633	174	85	109	2370	

AVERAGE HS(M) = 0.97 LARGEST HS(M) = 3.56 ANGLE CLASS % = 8.5

STATION 91 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 52.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	870	1647	1078	1478	1060	581	294	20	70	.	7098
0.50 - 0.99	.	278	2356	1877	961	1160	795	239	116	.	7782
1.00 - 1.49	.	.	54	544	598	877	330	201	248	3	2855
1.50 - 1.99	.	.	.	11	150	369	217	75	78	5	905
2.00 - 2.49	.	.	.	.	20	77	97	44	15	11	264
2.50 - 2.99	.	.	.	.	.	1	1	1	1	.	4
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	870	1925	3488	3910	2789	3065	1734	580	528	19	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 2.74 ANGLE CLASS % = 18.9

STATION 91 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 52.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

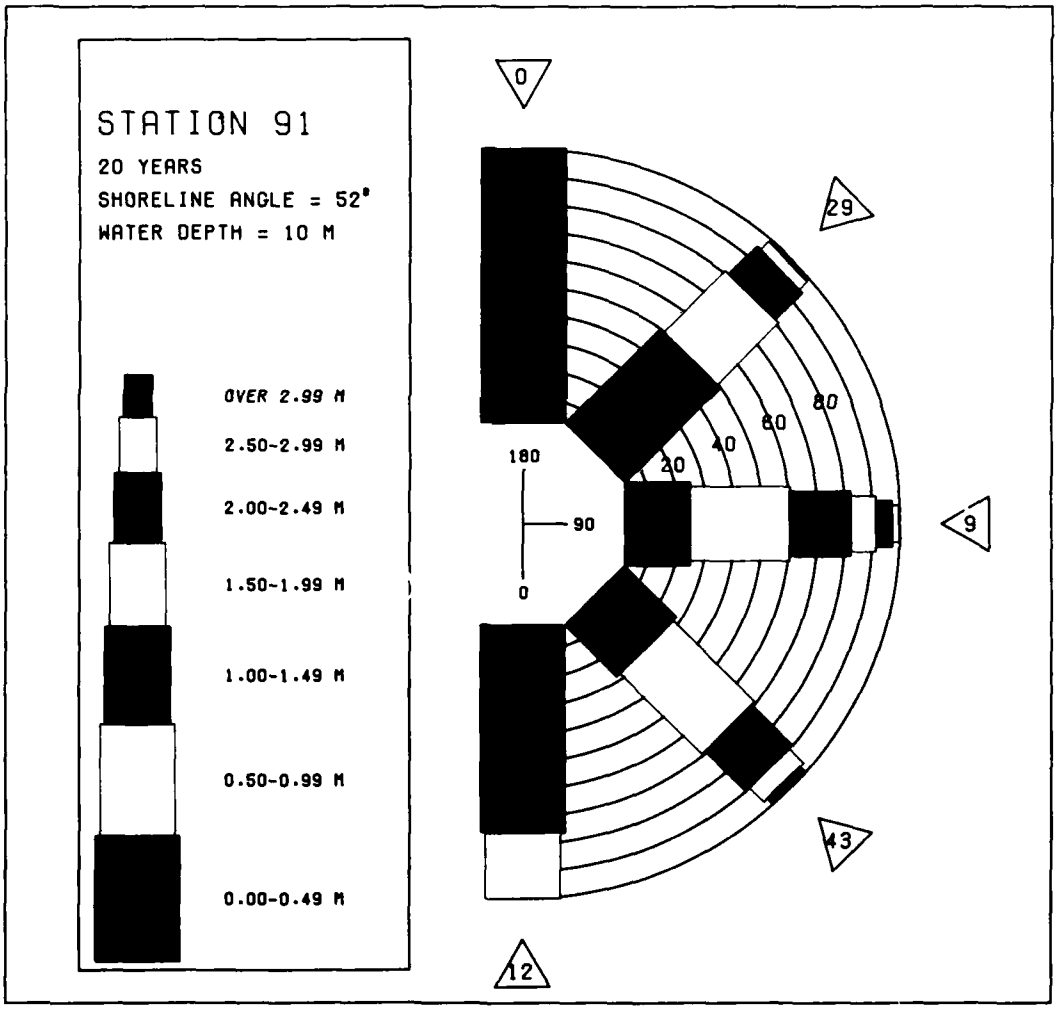
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	552	908	1750	3335	316	.	.	.	.	.	6861
0.50 - 0.99	.	.	1	.	.	.	.	.	.	.	1
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	552	908	1751	3335	316	0	0	0	0	0	

AVERAGE HS(M) = 0.11 LARGEST HS(M) = 0.53 ANGLE CLASS % = 6.9

STATION 91 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 52.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	545	844	531	598	441	467	212	25	16	52	3731
0.50 - 0.99	.	289	1157	490	202	640	356	64	51	101	3350
1.00 - 1.49	.	.	95	453	244	349	161	50	57	105	1514
1.50 - 1.99	.	.	.	20	136	208	81	25	32	19	521
2.00 - 2.49	.	.	.	.	22	112	40	15	5	3	197
2.50 - 2.99	.	.	.	.	.	15	22	10	2	2	51
3.00 - 3.49	.	.	.	.	.	.	.	4	.	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	545	1133	1783	1561	1045	1791	872	193	163	282	

AVE HS(M) = 0.67 LARGEST HS(M) = 3.84 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 91

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.9	0.7	0.9	0.7	0.8	0.9	0.5	0.5	0.9	0.6	0.6	0.7
1957	0.7	0.8	0.6	0.7	0.6	0.7	0.8	0.6	0.6	0.7	0.8	0.8	0.7
1958	0.5	0.6	0.5	0.8	0.7	0.7	0.8	0.8	0.6	0.6	0.6	0.5	0.6
1959	0.5	0.8	0.8	0.7	0.7	0.5	0.8	0.6	0.6	0.8	0.6	0.6	0.7
1960	0.6	0.9	0.6	0.9	0.9	0.7	0.9	0.7	0.6	0.4	0.4	0.4	0.7
1961	0.5	0.9	1.2	1.0	0.8	1.0	0.6	0.8	0.4	0.4	0.4	0.7	0.7
1962	0.7	0.8	0.6	0.9	0.4	0.7	1.0	0.8	0.5	0.6	0.9	0.8	0.7
1963	0.7	1.0	0.9	0.6	0.7	0.8	0.6	0.4	0.5	0.7	0.6	0.5	0.7
1964	0.7	0.6	0.9	0.9	0.6	0.7	0.9	0.8	0.8	1.4	1.3	1.3	0.9
1965	0.9	1.1	1.0	0.9	0.6	0.7	0.8	0.6	0.6	0.9	0.6	0.3	0.7
1966	0.6	0.8	0.7	0.8	0.8	0.7	0.8	0.9	0.9	0.6	0.6	0.6	0.7
1967	0.6	0.7	0.6	0.6	0.9	0.9	1.1	1.0	0.6	0.5	0.4	0.7	0.7
1968	0.5	0.2	0.6	0.3	0.4	0.4	0.3	0.2	0.1	0.3	0.4	0.5	0.3
1969	0.5	0.4	0.5	0.7	0.7	0.6	0.6	0.9	0.5	0.5	1.2	0.7	0.7
1970	0.4	1.2	1.0	0.7	0.6	0.8	0.9	0.8	0.4	0.8	0.7	0.6	0.7
1971	0.7	0.9	0.7	0.7	0.8	0.4	0.8	0.6	0.8	1.5	1.0	1.3	0.8
1972	0.8	0.7	0.8	0.8	1.0	0.9	0.8	0.8	0.3	0.7	0.7	0.7	0.8
1973	0.6	0.6	0.8	0.9	0.7	0.6	0.2	0.3	0.3	0.4	0.6	1.3	0.6
1974	0.6	0.7	0.7	0.8	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.5	0.4
1975	0.6	1.1	0.6	0.4	0.2	0.4	0.7	0.3	0.5	0.4	0.4	0.5	0.5
MEAN	0.6	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.7	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 91

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.3	1.9	2.8	1.5	1.9	1.8	1.7	2.6	2.9	1.5	2.0
1957	2.0	2.9	2.2	2.5	2.0	2.1	1.6	2.1	2.4	3.0	2.3	2.5
1958	2.9	2.5	2.4	2.7	2.6	1.9	1.5	2.5	2.8	2.5	2.1	2.9
1959	2.3	2.4	2.7	2.2	1.7	1.6	2.2	1.8	2.5	2.2	2.1	2.2
1960	2.5	2.8	2.4	2.3	1.9	1.6	2.7	1.5	2.5	1.7	1.9	2.6
1961	2.3	3.1	3.1	2.7	2.5	2.2	1.5	2.2	2.2	2.2	2.2	2.2
1962	2.8	2.4	2.3	2.9	1.2	2.1	2.1	2.3	2.3	1.7	3.1	2.6
1963	2.3	2.4	2.3	2.3	2.0	2.5	1.3	1.2	2.4	2.9	2.5	2.4
1964	2.8	2.9	2.3	2.2	2.5	2.4	2.1	2.0	2.3	3.0	2.6	2.6
1965	2.4	2.9	2.4	2.4	1.5	1.7	1.5	1.7	1.5	2.3	1.7	1.7
1966	3.0	3.1	2.4	1.9	2.2	2.7	1.5	1.9	2.5	2.0	2.3	2.5
1967	2.4	2.1	2.3	2.1	2.2	2.2	2.2	2.0	2.2	1.6	2.3	2.8
1968	2.9	2.2	2.9	1.9	2.1	1.2	0.9	0.7	0.5	1.8	2.1	2.7
1969	2.4	2.1	2.5	2.4	2.3	1.5	1.9	1.9	2.6	2.0	3.7	2.7
1970	2.3	3.4	2.8	2.4	2.4	1.9	2.1	2.2	1.4	2.8	2.4	2.8
1971	2.4	2.5	2.7	2.8	2.5	1.1	1.8	2.8	3.2	3.4	2.6	2.5
1972	2.3	2.9	2.5	2.3	2.3	2.8	2.1	1.7	1.7	2.1	2.9	2.3
1973	2.6	3.3	3.1	2.8	2.3	1.4	0.9	1.6	1.6	2.3	2.9	3.8
1974	1.9	2.9	2.2	2.4	2.4	1.2	0.7	0.8	1.1	1.7	1.9	2.9
1975	2.4	2.4	2.7	2.3	0.9	1.2	2.0	0.7	1.6	2.0	1.9	2.8

LARGEST HS(METRES) FOR STATION 91 = 3.8

STATION 92 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2161	3896	2679	1173	672	1339	56	6	3	.	11985
0.50 - 0.99	.	496	3598	2287	704	672	25	11	6	.	7799
1.00 - 1.49	.	.	78	405	347	34	.	.	.	.	864
1.50 - 1.99	.	.	.	1	11	.	.	.	.	.	12
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2161	4392	6355	3866	1734	2045	81	17	9	0	

AVERAGE HS(M) = 0.46 LARGEST HS(M) = 1.84 ANGLE CLASS % = 20.7

STATION 92 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	838	1139	.	.	1230	1346	968	213	22	1	5757
0.50 - 0.99	.	1013	2927	764	366	3129	1416	290	54	3	9962
1.00 - 1.49	.	.	379	1827	1187	2205	1006	261	35	5	6905
1.50 - 1.99	.	.	.	63	590	1314	448	128	17	5	2565
2.00 - 2.49	.	.	.	.	82	436	205	82	13	.	818
2.50 - 2.99	.	.	.	.	1	22	56	41	8	1	129
3.00 - 3.49	.	.	.	.	.	.	1	5	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	838	2152	3306	2654	3456	8452	4100	1020	149	15	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 3.28 ANGLE CLASS % = 26.2

STATION 92 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	456	396	.	.	889	1384	833	51	54	200	4263
0.50 - 0.99	.	458	983	66	47	1365	1360	112	340	118	4849
1.00 - 1.49	.	.	196	746	107	183	164	17	237	65	1715
1.50 - 1.99	.	.	.	47	266	100	6	22	168	30	659
2.00 - 2.49	.	.	.	1	46	278	17	21	13	13	369
2.50 - 2.99	.	.	.	.	.	75	85	13	5	5	183
3.00 - 3.49	.	.	.	.	.	.	3	13	6	.	22
3.50 - 3.99	.	.	.	.	.	.	.	.	8	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	456	854	1179	860	1355	3385	2468	229	851	431	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 3.84 ANGLE CLASS % = 12.1

STATION 92 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	580	501			169	68	30	11	65	309	1733
0.50 - 0.99	.	585	1514	126	70	95	207	37	116	905	3657
1.00 - 1.49	.	.	222	816	160	37	95	150	292	982	2754
1.50 - 1.99	.	.	.	63	273	143	53	11	65	154	792
2.00 - 2.49	.	.	.	.	71	290	82	22	17	3	485
2.50 - 2.99	.	.	.	.	.	46	68	25	13	17	169
3.00 - 3.49	.	.	.	.	.	.	3	18	1	5	27
3.50 - 3.99	.	.	.	.	.	.	.	1	.	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	580	1086	1736	1007	743	679	538	275	599	2376	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 3.56 ANGLE CLASS % = 9.6

STATION 92 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	900	1704	1144	1683	1038	520	215	15	.	.	7219
0.50 - 0.99	.	239	2415	2063	903	1072	621	128	.	.	7508
1.00 - 1.49	.	.	73	607	679	200	263	73	3	.	2598
1.50 - 1.99	.	.	.	11	162	450	189	51	13	6	884
2.00 - 2.49	.	.	.	.	22	77	104	47	25	6	281
2.50 - 2.99	.	.	.	.	.	1	3	5	.	.	9
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	900	1943	3629	4364	2804	3020	1395	389	41	14	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 2.94 ANGLE CLASS % = 18.5

STATION 92 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

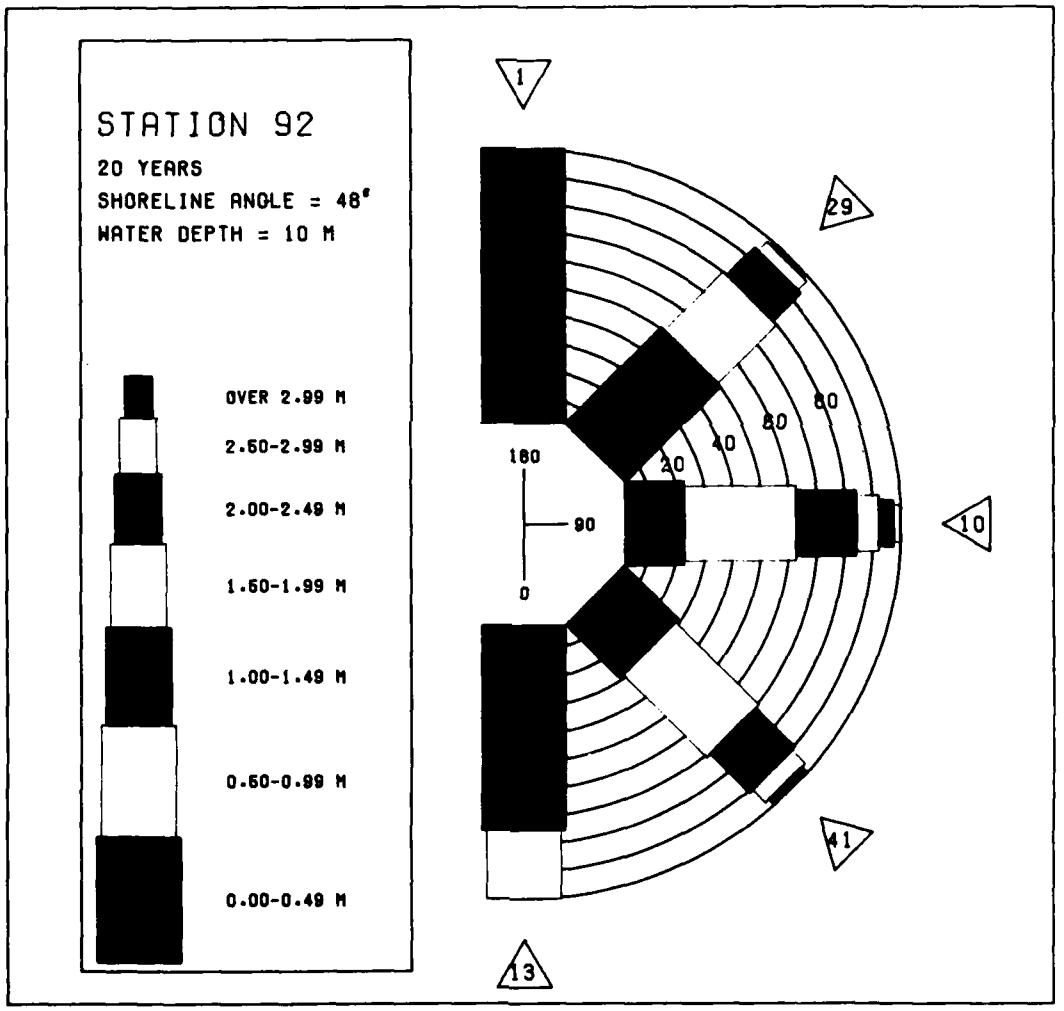
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	527	905	1690	3394	373	.	.	.	.	.	6889
0.50 - 0.99	.	.	3	.	.	.	.	.	.	.	3
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	527	905	1693	3394	373	0	0	0	0	0	

AVERAGE HS(M) = 0.10 LARGEST HS(M) = 0.52 ANGLE CLASS % = 6.9

STATION 92 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	546	854	551	625	437	465	210	29	14	51	3782
0.50 - 0.99	.	279	1144	531	209	633	263	65	51	102	3277
1.00 - 1.49	.	.	95	440	248	336	152	60	56	105	1482
1.50 - 1.99	.	.	.	18	130	200	69	21	31	19	488
2.00 - 2.49	.	.	.	.	22	108	40	15	7	2	194
2.50 - 2.99	.	.	.	.	.	14	21	8	2	2	47
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	546	1133	1790	1614	1046	1756	855	191	161	281	

AVE HS(M) = 0.66 LARGEST HS(M) = 3.84 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 92

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.9	0.7	0.9	0.6	0.8	0.9	0.5	0.5	0.9	0.6	0.6	0.7
1957	0.7	0.8	0.6	0.6	0.6	0.6	0.8	0.6	0.6	0.7	0.8	0.7	0.7
1958	0.5	0.5	0.5	0.8	0.7	0.7	0.8	0.7	0.6	0.7	0.6	0.5	0.6
1959	0.5	0.8	0.8	0.7	0.7	0.5	0.8	0.6	0.6	0.8	0.6	0.6	0.7
1960	0.5	0.8	0.6	0.9	0.8	0.7	0.9	0.7	0.7	0.4	0.4	0.4	0.7
1961	0.5	0.9	1.2	0.9	0.8	1.0	0.6	0.8	0.4	0.4	0.4	0.7	0.7
1962	0.6	0.8	0.6	0.9	0.4	0.7	0.9	0.8	0.5	0.6	0.9	0.8	0.7
1963	0.7	1.1	0.9	0.6	0.7	0.8	0.6	0.4	0.5	0.8	0.6	0.5	0.7
1964	0.7	0.6	0.8	0.8	0.6	0.7	0.9	0.8	0.8	1.4	1.3	1.3	0.9
1965	0.9	1.1	1.0	0.8	0.6	0.7	0.7	0.5	0.6	0.9	0.6	0.3	0.7
1966	0.6	0.8	0.7	0.7	0.8	0.7	0.8	0.8	0.9	0.6	0.6	0.6	0.7
1967	0.6	0.7	0.6	0.6	0.9	1.0	1.0	1.0	0.6	0.5	0.4	0.7	0.7
1968	0.5	0.2	0.6	0.3	0.4	0.4	0.3	0.2	0.1	0.3	0.4	0.4	0.3
1969	0.5	0.4	0.5	0.7	0.7	0.6	0.6	0.9	0.5	0.6	1.2	0.7	0.7
1970	0.4	1.1	1.0	0.7	0.6	0.8	0.9	0.7	0.4	0.9	0.7	0.6	0.7
1971	0.6	0.9	0.6	0.7	0.8	0.4	0.8	0.6	0.8	1.5	1.0	1.3	0.8
1972	0.8	0.7	0.8	0.8	1.0	0.9	0.8	0.8	0.3	0.7	0.7	0.7	0.7
1973	0.6	0.6	0.8	0.8	0.7	0.6	0.2	0.3	0.3	0.4	0.6	1.3	0.6
1974	0.6	0.7	0.6	0.8	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.5	0.4
1975	0.6	1.1	0.6	0.4	0.2	0.3	0.7	0.2	0.5	0.4	0.4	0.5	0.5
MEAN	0.6	0.8	0.7	0.7	0.6	0.6	0.7	0.6	0.5	0.7	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 92

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.3	1.9	2.7	1.6	1.9	1.8	1.7	2.6	2.9	1.6	2.0
1957	2.0	2.9	2.1	2.4	2.0	2.3	1.6	2.1	2.4	3.0	2.3	2.5
1958	2.8	2.5	2.4	2.7	2.6	1.9	1.3	2.4	2.6	2.5	2.1	2.9
1959	2.3	2.3	2.6	2.1	1.7	1.6	2.2	1.6	2.5	2.3	2.1	2.2
1960	2.6	2.8	2.4	2.3	1.9	1.6	2.7	1.5	2.4	1.7	1.9	2.7
1961	2.4	3.2	3.1	2.7	2.5	2.2	1.5	2.2	2.2	2.2	2.2	2.2
1962	2.7	2.3	2.2	2.8	1.1	2.0	2.1	2.2	2.4	1.7	3.5	2.6
1963	2.3	2.3	2.3	2.1	2.0	2.5	1.2	1.2	2.4	2.9	2.5	2.4
1964	2.8	2.8	2.3	2.1	2.5	2.4	2.1	2.0	2.3	3.1	2.6	2.6
1965	2.2	2.8	2.4	2.3	1.5	1.5	1.5	1.7	1.7	2.5	1.5	1.6
1966	3.0	3.0	2.4	1.9	2.2	2.7	1.5	1.9	2.5	2.0	2.3	2.5
1967	2.3	2.0	2.3	2.1	2.2	2.3	2.1	1.8	2.1	1.6	2.2	2.8
1968	2.9	2.1	2.9	1.8	2.1	1.1	0.9	0.6	0.5	1.8	2.1	2.5
1969	2.4	2.3	2.5	2.3	2.3	1.5	1.8	1.7	2.6	2.0	3.7	2.7
1970	2.3	3.4	2.8	2.3	2.4	1.8	2.1	2.2	1.4	2.8	2.6	2.8
1971	2.4	2.5	2.7	2.8	2.5	1.1	2.0	2.6	3.2	3.4	2.6	2.6
1972	2.2	2.9	2.5	2.3	2.3	2.8	2.1	1.7	1.7	2.0	2.9	2.3
1973	2.6	3.1	2.8	2.8	2.1	1.3	0.9	1.3	1.4	2.3	2.9	3.8
1974	1.9	2.9	2.2	2.4	2.4	1.1	0.7	0.8	1.1	1.8	1.9	2.8
1975	2.4	2.4	2.7	2.3	0.8	1.2	1.9	0.7	1.7	1.9	1.7	2.7

LARGEST HS(METRES) FOR STATION 92 = 3.8

STATION 93 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2173	4113	2992	1216	751	1495	99	8	8	3	12858
0.50 - 0.99	.	497	3632	2479	807	833	112	22	6	.	8388
1.00 - 1.49	.	.	66	436	330	25	5	1	5	.	868
1.50 - 1.99	.	.	.	.	13	.	.	.	.	.	13
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2173	4610	6690	4131	1902	2353	216	31	19	3	

AVERAGE HS(M) = 0.46 LARGEST HS(M) = 2.02 ANGLE CLASS % = 22.1

STATION 93 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	838	1083	.	.	1706	2717	1783	248	22	.	8397
0.50 - 0.99	.	893	2659	706	335	4199	2582	294	44	1	11713
1.00 - 1.49	.	.	331	1608	1064	2077	920	213	30	3	6246
1.50 - 1.99	.	.	.	44	528	1187	337	116	13	1	2226
2.00 - 2.49	.	.	.	1	75	362	188	70	8	.	704
2.50 - 2.99	.	.	.	.	1	30	53	34	6	1	125
3.00 - 3.49	.	.	.	.	.	.	.	6	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	838	1976	2990	2359	3709	10572	5863	981	124	6	

AVERAGE HS(M) = 0.83 LARGEST HS(M) = 3.59 ANGLE CLASS % = 29.4

STATION 93 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	429	333	.	.	364	63	35	58	47	207	1536
0.50 - 0.99	.	451	965	58	35	95	22	97	354	124	2201
1.00 - 1.49	.	.	172	643	119	25	30	18	324	49	1280
1.50 - 1.99	.	.	.	59	242	77	5	23	159	32	617
2.00 - 2.49	.	.	.	.	51	244	13	.	11	11	330
2.50 - 2.99	.	.	.	.	.	68	65	5	8	5	151
3.00 - 3.49	.	.	.	.	.	.	5	6	3	.	14
3.50 - 3.99	.	.	.	.	.	.	.	1	6	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	429	784	1137	760	811	572	175	208	832	428	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 3.84 ANGLE CLASS % = 6.2

STATION 93 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	585	556			157	66	162	25	68	278	1897
0.50 - 0.99	.	592	1627	136	51	83	602	193	68	754	4108
1.00 - 1.49	.	.	208	857	152	34	130	242	316	1153	3092
1.50 - 1.99	.	.	.	63	308	152	49	18	126	273	989
2.00 - 2.49	.	.	.	.	73	309	111	30	17	32	572
2.50 - 2.99	.	.	.	.	.	41	83	34	17	13	188
3.00 - 3.49	.	.	.	.	.	.	3	20	3	13	39
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	585	1148	1835	1058	741	685	1140	562	615	2517	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 3.53 ANGLE CLASS % = 10.9

STATION 93 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	936	1772	1137	1772	1042	561	51	.	.	.	7271
0.50 - 0.99	.	265	2474	2381	879	934	277	1	.	.	7211
1.00 - 1.49	.	.	83	653	713	868	278	15	.	.	2550
1.50 - 1.99	.	.	.	11	195	545	217	42	10	5	1025
2.00 - 2.49	.	.	.	.	22	80	106	44	30	1	283
2.50 - 2.99	.	.	.	.	.	3	1	8	1	.	13
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	936	2037	3694	4817	2851	3011	850	110	41	6	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 2.93 ANGLE CLASS % = 18.4

STATION 93 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

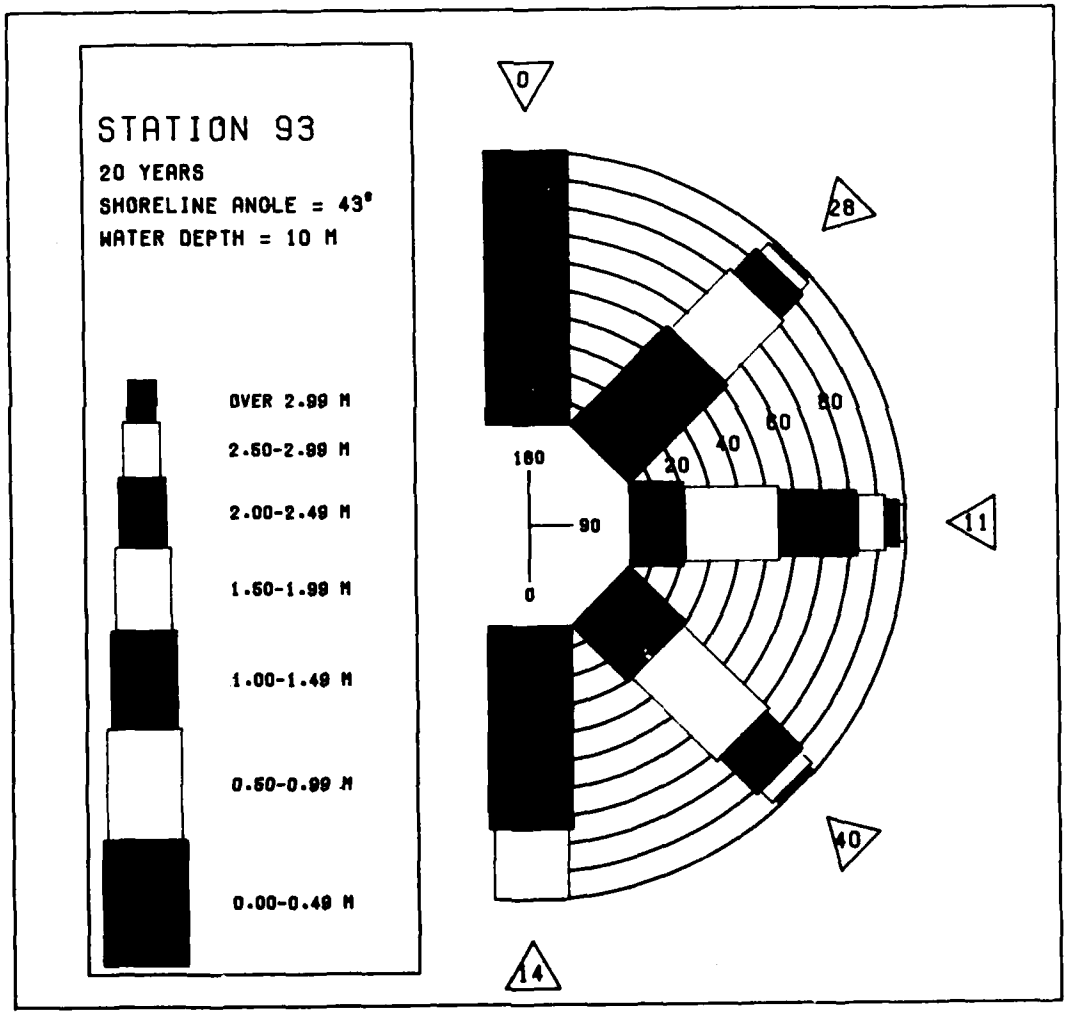
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	489	833	1670	3441	383	.	.	.	.	.	6816
0.50 - 0.99	.	.	3	.	.	.	.	.	.	.	3
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	489	833	1673	3441	383	0	0	0	0	0	

AVERAGE HS(M) = 0.10 LARGEST HS(M) = 0.52 ANGLE CLASS % = 6.8

STATION 93 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 43.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	545	869	580	643	440	490	213	34	14	48	3876
0.50 - 0.99	.	270	1136	576	210	614	359	60	47	88	3360
1.00 - 1.49	.	.	86	419	238	305	128	49	57	120	1402
1.50 - 1.99	.	.	.	17	128	196	60	20	33	31	485
2.00 - 2.49	.	.	.	.	22	99	41	14	6	4	186
2.50 - 2.99	.	.	.	.	.	14	20	8	3	2	47
3.00 - 3.49	.	.	.	.	.	.	.	3	.	1	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	545	1139	1802	1655	1038	1718	821	188	160	294	

AVE HS(M) = 0.65 LARGEST HS(M) = 3.84 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 93

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.9	0.6	0.8	0.6	0.8	0.9	0.5	0.6	1.0	0.6	0.6	0.7
1957	0.6	0.8	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.8	0.8	0.7	0.7
1958	0.4	0.5	0.5	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.6	0.5	0.6
1959	0.4	0.8	0.8	0.6	0.7	0.5	0.8	0.6	0.6	0.8	0.6	0.6	0.6
1960	0.5	0.8	0.6	0.8	0.8	0.7	0.9	0.6	0.7	0.4	0.4	0.4	0.6
1961	0.5	0.8	1.2	0.9	0.8	0.9	0.6	0.8	0.5	0.4	0.4	0 7	0.7
1962	0.6	0.8	0.6	0.8	0.4	0.7	0.9	0.8	0.5	0.6	0.9	0.8	0.7
1963	0.6	1.1	0.8	0.6	0.7	0.7	0.5	0.4	0.5	0.8	0.6	0.4	0.7
1964	0.7	0.5	0.8	0.8	0.6	0.7	0.8	0.8	0.9	1.5	1.3	1.4	0.9
1965	0.9	1.1	1.0	0.9	0.6	0.6	0.7	0.5	0.6	0.9	0.6	0.3	0.7
1966	0.6	0.8	0.7	0.7	0.8	0.7	0.8	0.8	0.8	0.6	0.6	0.6	0.7
1967	0.6	0.6	0.6	0.5	0.8	1.0	1.0	0.9	0.6	0.5	0.4	0.7	0.7
1968	0.6	0.2	0.5	0.3	0.4	0.4	0.2	0.2	0.1	0.4	0.4	0.4	0.3
1969	0.5	0.4	0.5	0.7	0.7	0.5	0.6	0.9	0.5	0.6	1.2	0.6	0.6
1970	0.4	1.1	0.9	0.7	0.5	0.8	0.8	0.7	0.4	0.9	0.7	0.6	0.7
1971	0.6	0.8	0.6	0.6	0.7	0.4	0.8	0.6	0.8	1.5	1.1	1.3	0.8
1972	0.8	0.7	0.8	0.7	1.0	0.9	0.7	0.8	0.3	0.8	0.7	0.7	0.7
1973	0.6	0.6	0.8	0.8	0.7	0.6	0.2	0.3	0.3	0.4	0.5	1.3	0.6
1974	0.6	0.7	0.6	0.8	0.4	0.3	0.2	0.2	0.3	0.3	0.3	0.5	0.4
1975	0.5	1.1	0.5	0.3	0.2	0.3	0.6	0.2	0.5	0.4	0.4	0.5	0.5
MEAN	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.5	0.7	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 93

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.6	2.2	1.9	2.6	1.6	1.8	1.7	1.7	2.6	3.0	1.6	1.9
1957	2.0	2.9	2.1	2.4	2.1	2.3	1.6	2.1	2.6	3.0	2.3	2.4
1958	2.8	2.5	2.4	2.6	2.5	1.8	1.3	2.4	2.6	2.5	2.2	2.9
1959	2.2	2.3	2.6	2.1	1.6	1.6	2.2	1.6	2.5	2.3	2.0	2.1
1960	2.6	2.8	2.4	2.2	1.9	1.5	2.5	1.3	2.4	1.4	1.7	2.7
1961	2.4	3.2	3.3	2.7	2.5	2.2	1.4	2.2	2.1	2.2	2.2	2.2
1962	2.7	2.3	2.2	2.7	1.2	2.1	2.2	2.2	2.4	2.0	3.5	2.7
1963	2.3	2.3	2.2	2.1	1.8	2.5	1.2	1.2	2.3	3.3	2.5	2.4
1964	2.8	2.7	2.1	2.1	2.7	2.5	2.0	1.9	2.4	3.1	2.5	2.4
1965	2.2	2.8	2.4	2.3	1.4	1.5	1.6	1.6	1.7	2.6	1.5	1.5
1966	3.0	3.0	2.4	1.9	2.1	2.7	1.4	1.7	2.5	1.9	2.3	2.5
1967	2.3	2.0	2.1	2.1	2.2	2.3	2.1	1.8	2.1	1.6	2.2	2.8
1968	3.0	2.0	2.7	1.8	2.1	1.1	0.9	0.8	0.5	1.8	2.1	2.5
1969	2.4	2.3	2.5	2.3	2.3	1.5	1.8	1.7	2.5	2.0	3.7	2.7
1970	2.3	3.1	2.7	2.2	2.3	1.8	1.9	2.2	1.3	2.8	2.6	2.8
1971	2.4	2.5	2.7	2.8	2.4	1.0	2.0	2.6	3.2	3.3	2.6	2.6
1972	2.2	2.9	2.5	2.4	2.7	2.7	2.1	1.7	1.6	2.0	2.7	2.3
1973	2.6	3.1	2.8	2.6	2.1	1.3	0.9	1.3	1.4	2.3	2.6	3.8
1974	1.8	2.8	2.1	2.3	2.3	1.1	0.6	0.7	1.2	1.9	2.1	2.8
1975	2.3	2.5	2.7	2.0	0.9	1.2	1.9	0.6	1.8	1.9	1.7	2.7

LARGEST HS(METRES) FOR STATION 93 = 3.8

STATION 94 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2315	4591	3798	1663	963	1627	59	3	.	.	15019
0.50 - 0.99	.	438	3625	2715	1047	963	135	11	1	.	8935
1.00 - 1.49	.	.	42	313	282	34	8	1	1	.	681
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2315	5029	7465	4691	2298	2624	202	15	2	0	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 2.02 ANGLE CLASS % = 24.7

STATION 94 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	766	966	.	.	1846	2866	1906	373	42	.	8765
0.50 - 0.99	.	793	2251	583	289	3158	2014	364	30	3	9485
1.00 - 1.49	.	.	224	1360	834	1675	504	165	15	3	4830
1.50 - 1.99	.	.	.	35	434	903	236	90	11	.	1709
2.00 - 2.49	.	.	.	1	63	277	169	56	5	1	572
2.50 - 2.99	.	.	.	.	.	29	22	17	8	.	76
3.00 - 3.49	.	.	.	.	.	.	.	1	1	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	766	1759	2475	1979	3516	8908	4851	1066	112	7	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.22 ANGLE CLASS % = 25.5

STATION 94 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	455	335	.	.	213	61	34	.	56	217	1371
0.50 - 0.99	.	417	982	73	46	71	80	.	378	114	2161
1.00 - 1.49	.	.	169	578	102	29	99	3	272	54	1306
1.50 - 1.99	.	.	.	44	189	70	10	1	172	29	515
2.00 - 2.49	.	.	.	.	46	236	13	.	18	13	326
2.50 - 2.99	.	.	.	.	.	54	58	6	8	1	127
3.00 - 3.49	.	.	.	.	.	.	1	5	3	.	9
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	455	752	1151	695	596	521	295	16	910	428	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 3.84 ANGLE CLASS % = 5.8

STATION 94 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	593	681	.	.	333	410	195	20	70	256	2558
0.50 - 0.99	.	600	1916	261	53	800	879	172	61	684	5426
1.00 - 1.49	.	.	186	891	296	171	195	273	261	1209	3482
1.50 - 1.99	.	.	.	58	355	364	114	47	123	366	1427
2.00 - 2.49	.	.	.	.	71	331	215	87	34	63	801
2.50 - 2.99	.	.	.	.	.	41	78	35	25	13	192
3.00 - 3.49	.	.	.	.	.	.	5	27	1	8	41
3.50 - 3.99	.	.	.	.	.	.	.	1	1	10	12
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	593	1281	2102	1210	1108	2117	1681	662	576	2609	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 3.77 ANGLE CLASS % = 14.0

STATION 94 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1232	2421	2919	5544	1255	184	13	.	.	.	13568
0.50 - 0.99	.	123	1648	2296	891	278	61	1	.	.	5498
1.00 - 1.49	.	.	37	420	557	771	111	10	.	.	1906
1.50 - 1.99	.	.	.	1	88	347	131	15	3	.	585
2.00 - 2.49	.	.	.	.	15	20	35	8	.	.	78
2.50 - 2.99	.	.	.	.	.	.	1	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1232	2544	4804	8261	2806	1600	352	34	3	0	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 2.53 ANGLE CLASS % = 21.7

STATION 94 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

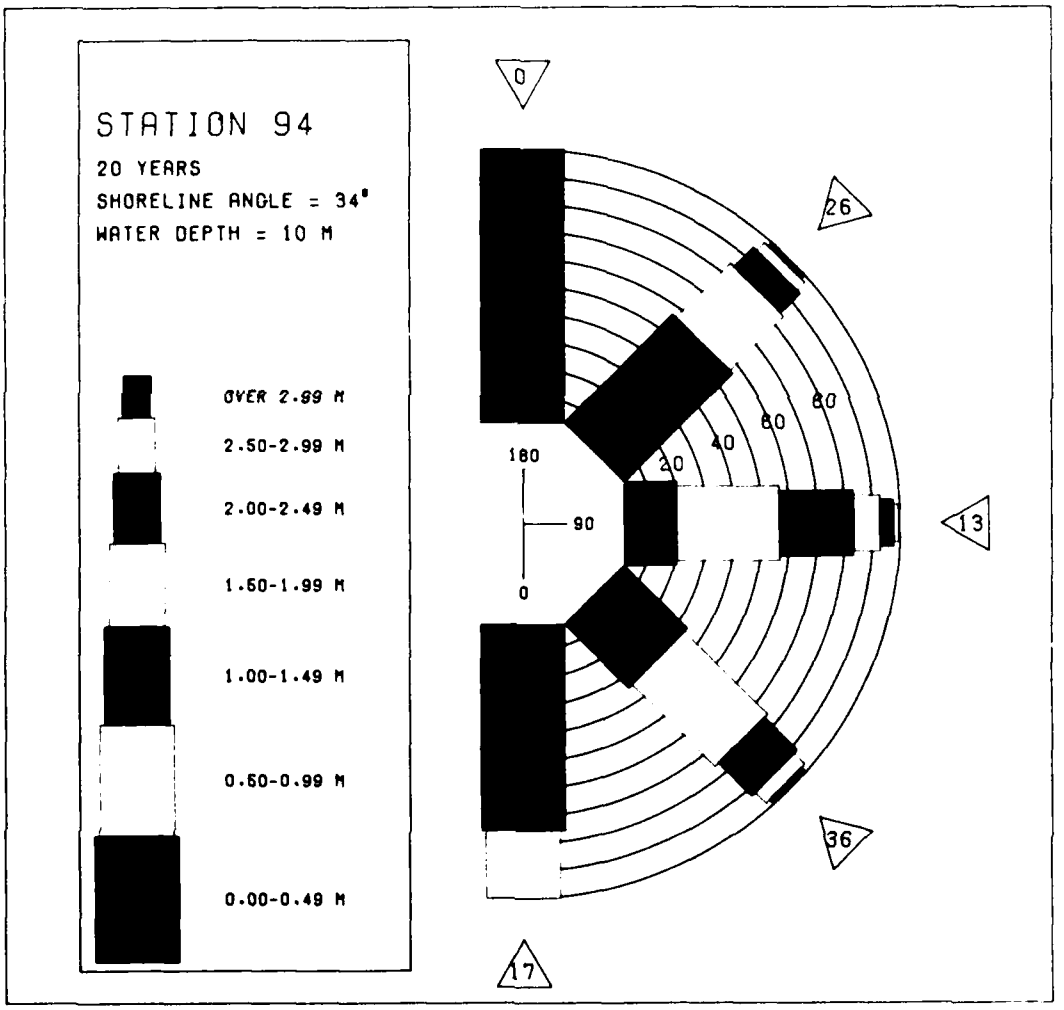
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	5	.	.	.	.	.	.	.	.	.	5
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 94 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	536	899	671	720	441	515	220	39	16	47	4124
0.50 - 0.99	.	237	1062	593	232	527	317	55	47	80	3150
1.00 - 1.49	.	.	66	356	218	268	91	45	55	126	1219
1.50 - 1.99	.	.	.	14	107	168	49	15	31	39	423
2.00 - 2.49	.	.	.	.	19	66	43	15	5	7	175
2.50 - 2.99	.	.	.	.	.	12	16	5	4	1	38
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	536	1136	1799	1683	1031	1576	736	177	158	301	

AVE HS(M) = 0.60 LARGEST HS(M) = 3.84 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 94

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.8	0.5	0.7	0.6	0.8	0.8	0.5	0.5	1.0	0.6	0.5	0.6
1957	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.5	0.8	0.7	0.6	0.6
1958	0.4	0.4	0.5	0.7	0.6	0.6	0.6	0.7	0.6	0.7	0.5	0.5	0.6
1959	0.4	0.7	0.7	0.5	0.6	0.4	0.7	0.5	0.6	0.8	0.6	0.6	0.6
1960	0.5	0.7	0.6	0.7	0.7	0.6	0.8	0.6	0.7	0.4	0.4	0.4	0.6
1961	0.4	0.7	1.1	0.7	0.8	0.8	0.5	0.7	0.5	0.4	0.4	0.6	0.6
1962	0.5	0.7	0.5	0.7	0.4	0.7	0.8	0.7	0.5	0.6	0.9	0.8	0.7
1963	0.6	1.0	0.7	0.5	0.6	0.6	0.4	0.4	0.5	0.9	0.5	0.4	0.6
1964	0.6	0.4	0.7	0.8	0.6	0.6	0.8	0.8	0.9	1.6	1.4	1.4	0.9
1965	0.9	1.1	1.0	0.8	0.5	0.6	0.6	0.5	0.7	0.9	0.6	0.3	0.7
1966	0.6	0.7	0.6	0.6	0.8	0.6	0.7	0.8	0.8	0.6	0.6	0.6	0.7
1967	0.5	0.6	0.5	0.5	0.7	1.0	0.9	0.9	0.6	0.5	0.4	0.6	0.6
1968	0.6	0.2	0.4	0.2	0.4	0.4	0.2	0.2	0.1	0.3	0.3	0.3	0.3
1969	0.4	0.4	0.4	0.6	0.6	0.5	0.5	0.8	0.5	0.6	1.1	0.6	0.6
1970	0.3	1.0	0.8	0.6	0.5	0.7	0.8	0.6	0.4	0.9	0.7	0.5	0.6
1971	0.5	0.7	0.5	0.5	0.6	0.4	0.7	0.6	0.8	1.5	1.1	1.3	0.8
1972	0.7	0.6	0.7	0.6	0.9	0.8	0.6	0.7	0.3	0.8	0.6	0.6	0.7
1973	0.6	0.5	0.7	0.7	0.6	0.6	0.2	0.3	0.3	0.4	0.4	1.2	0.5
1974	0.5	0.6	0.5	0.7	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.4	0.4
1975	0.5	1.1	0.5	0.3	0.2	0.3	0.6	0.2	0.5	0.4	0.3	0.4	0.4
MEAN	0.5	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.7	0.6	0.6	

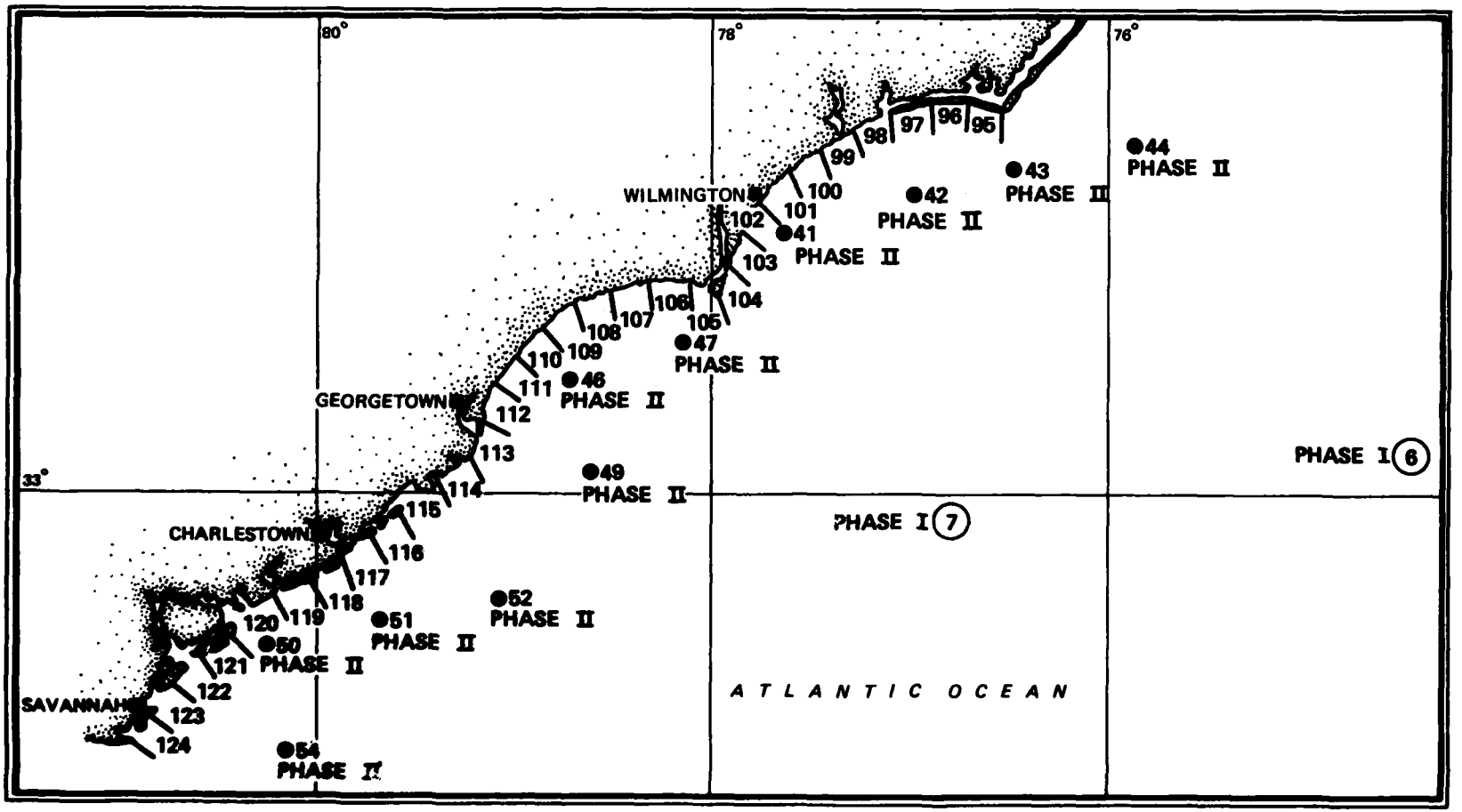
LARGEST HS(METRES) BY MONTH AND YEAR

STATION 94

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.2	1.8	2.6	1.7	1.9	1.6	1.7	2.5	3.0	1.7	1.7
1957	2.0	2.8	2.2	2.3	2.2	2.4	1.7	2.1	2.6	3.0	2.2	2.4
1958	2.7	2.5	2.4	2.5	2.4	1.8	1.2	2.3	2.5	2.5	2.2	2.9
1959	2.1	2.2	2.5	1.9	1.4	1.4	2.2	1.5	2.5	2.4	1.9	2.0
1960	2.7	2.7	2.5	2.2	1.9	1.4	2.3	1.3	2.3	1.4	1.4	2.7
1961	2.4	3.2	3.4	2.7	2.5	2.2	1.4	2.1	2.1	2.2	2.1	2.2
1962	2.5	2.3	2.0	2.5	1.2	2.2	2.2	2.2	2.4	2.0	3.8	2.8
1963	2.0	2.4	2.2	2.1	1.5	2.4	1.0	1.1	2.3	3.1	2.5	2.5
1964	2.8	2.7	1.9	2.0	2.9	2.5	1.7	2.0	2.5	3.2	2.5	2.2
1965	2.1	2.8	2.4	2.1	1.3	1.5	1.5	1.4	1.8	2.7	1.3	1.4
1966	3.0	2.8	2.3	1.9	2.1	2.7	1.3	1.6	2.4	1.8	2.1	2.5
1967	2.2	1.8	1.8	2.1	2.2	2.4	1.9	1.6	2.1	1.4	1.9	2.7
1968	3.0	1.8	2.4	1.6	2.1	1.0	0.9	0.8	0.5	1.8	1.8	2.4
1969	2.4	2.5	2.5	2.1	2.3	1.4	1.7	1.7	2.3	2.1	3.7	2.7
1970	2.3	3.0	2.6	2.1	2.2	1.8	1.7	2.2	1.3	2.8	2.7	2.8
1971	2.2	2.5	2.7	2.7	2.2	1.0	2.2	2.5	3.2	3.3	2.6	2.8
1972	2.1	2.8	2.5	2.4	2.9	2.6	2.1	1.6	1.4	1.8	2.7	2.4
1973	2.5	3.0	2.6	2.6	1.9	1.2	0.8	1.2	1.3	2.2	2.3	3.8
1974	1.9	2.6	2.1	2.1	2.1	1.0	0.6	0.6	1.2	2.0	2.1	2.7
1975	2.3	2.6	2.7	2.0	0.9	1.2	1.8	0.6	1.8	1.8	1.6	2.7

LARGEST HS(METRES) FOR STATION 94 = 3.8


80°
78°
76°
33°
WILMINGTON
GEORGETOWN
CHARLESTOWN
SAVANNAH
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101
102
103
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●41 PHASE II
●42 PHASE II
●43 PHASE II
●44 PHASE II
●46 PHASE II
●47 PHASE II
●49 PHASE II
●50 PHASE II
●51 PHASE II
●52 PHASE II
●54 PHASE II
PHASE I (6)
PHASE I (7)
ATLANTIC OCEAN

STATION 95 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 121.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 95 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 121.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	58	.	.	.	.	.	58
0.50 - 0.99	.	.	.	.	39	.	.	.	.	.	39
1.00 - 1.49	.	.	.	.	8	.	.	.	.	.	8
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	105	0	0	0	0	0	

AVERAGE HS(M) = 0.50 LARGEST HS(M) = 1.13 ANGLE CLASS % = 0.1

STATION 95 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 121.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1865	3348	1634	1052	1321	1574	340	5	6	.	11145
0.50 - 0.99	.	568	3766	1748	581	2345	841	20	13	.	9902
1.00 - 1.49	.	.	116	1509	975	2019	809	63	11	.	5502
1.50 - 1.99	.	.	.	30	689	1642	792	88	13	1	3255
2.00 - 2.49	.	.	.	.	73	556	657	147	13	1	1447
2.50 - 2.99	.	.	.	.	.	15	159	126	17	1	318
3.00 - 3.49	.	.	.	.	.	.	5	51	15	1	72
3.50 - 3.99	.	.	.	.	.	.	.	.	10	.	10
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1865	3916	5536	4339	3639	8151	3603	500	99	5	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.08 ANGLE CLASS % = 31.7

STATION 95 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 121.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1120	1398			675	2924	1387	42	61	492	8099
0.50 - 0.99	.	1334	3559	378	126	3670	1442	39	234	232	11014
1.00 - 1.49	.	.	480	1960	434	831	290	22	200	109	4326
1.50 - 1.99	.	.	.	133	675	624	111	32	27	53	1655
2.00 - 2.49	.	.	.	1	152	1043	200	5	8	5	1414
2.50 - 2.99	.	.	.	.	.	152	285	49	13	.	499
3.00 - 3.49	.	.	.	.	.	.	34	90	11	.	135
3.50 - 3.99	.	.	.	.	.	.	.	8	6	.	14
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1120	2732	4039	2472	2062	9244	3749	287	561	892	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 4.00 ANGLE CLASS % = 27.2

STATION 95 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 121.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	713	910	1		1420	2895	1902	217	424	51	8533
0.50 - 0.99	.	518	1764	492	165	918	593	53	140	1	4644
1.00 - 1.49	.	.	154	756	357	248	49	20	11	.	1595
1.50 - 1.99	.	.	.	10	145	253	51	8	.	.	467
2.00 - 2.49	.	.	.	.	23	75	25	10	1	.	134
2.50 - 2.99	.	.	.	.	.	3	1	.	1	.	5
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	713	1428	1919	1258	2110	4392	2621	308	577	52	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 2.95 ANGLE CLASS % = 15.4

STATION 95 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 121.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

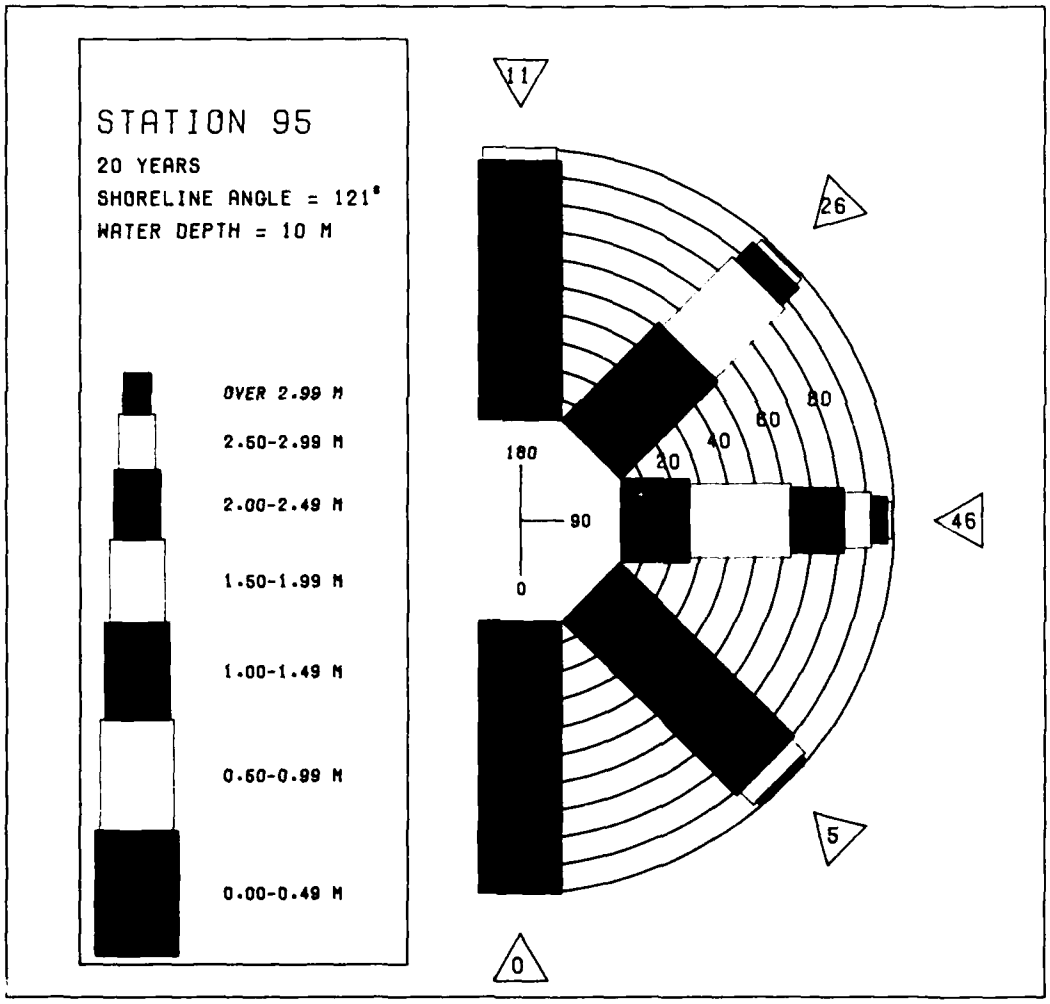
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1331	2298	2843	3447	1240	540	.	.	.	.	11699
0.50 - 0.99	.	65	843	604	272	88	.	.	.	.	1872
1.00 - 1.49	.	.	.	6	20	.	.	.	.	.	26
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1331	2363	3686	4057	1533	628	0	0	0	0	

AVERAGE HS(M) = 0.24 LARGEST HS(M) = 1.62 ANGLE CLASS % = 13.6

STATION 95 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 121.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	503	795	447	450	471	793	363	26	49	54	3951
0.50 - 0.99	.	248	995	322	118	702	287	11	38	23	2744
1.00 - 1.49	.	.	75	423	179	309	114	10	22	10	1142
1.50 - 1.99	.	.	.	17	151	252	95	13	4	5	537
2.00 - 2.49	.	.	.	.	24	167	88	16	2	.	297
2.50 - 2.99	.	.	.	.	.	17	44	17	3	.	81
3.00 - 3.49	.	.	.	.	.	.	3	14	2	.	19
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	503	1043	1517	1212	943	2240	994	107	121	92	

AVE HS(M) = 0.63 LARGEST HS(M) = 4.08 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 95

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.9	0.8	1.0	0.5	0.7	1.0	0.6	0.4	0.3	0.3	0.7	0.6
1957	0.7	0.8	0.7	0.8	0.5	0.6	0.8	0.5	0.4	0.3	0.8	0.8	0.6
1958	0.6	0.8	0.5	0.8	0.7	0.8	0.9	0.8	0.4	0.2	0.5	0.4	0.6
1959	0.6	0.8	0.9	0.9	0.7	0.5	0.7	0.6	0.2	0.8	0.5	0.6	0.6
1960	0.6	1.0	0.6	1.0	0.9	0.7	0.9	0.6	0.4	0.3	0.4	0.4	0.6
1961	0.7	1.0	0.8	1.2	0.8	1.0	0.8	0.8	0.4	0.2	0.4	0.8	0.7
1962	0.7	0.9	0.5	1.1	0.4	0.6	0.9	0.7	0.4	0.4	0.6	0.6	0.6
1963	0.7	0.7	1.1	0.8	0.5	0.8	0.7	0.5	0.3	0.2	0.6	0.5	0.6
1964	0.8	0.8	1.0	0.8	0.6	0.6	1.0	0.8	0.4	0.4	0.5	0.7	0.7
1965	0.5	0.7	0.7	0.6	0.6	0.7	0.8	0.6	0.3	0.5	0.4	0.4	0.6
1966	0.5	0.9	0.8	0.9	0.7	0.6	0.9	0.8	0.8	0.4	0.4	0.5	0.7
1967	0.6	0.7	0.7	0.8	0.9	0.5	1.2	0.9	0.3	0.4	0.6	0.8	0.7
1968	0.4	0.3	0.8	0.3	0.4	0.3	0.2	0.1	0.0	0.3	0.5	0.6	0.4
1969	0.5	0.5	0.7	0.8	0.7	0.5	0.7	0.6	0.2	0.2	0.7	0.9	0.6
1970	0.5	1.3	1.1	0.8	0.5	0.7	0.8	0.7	0.4	0.4	0.5	0.7	0.7
1971	0.7	1.1	0.8	0.9	0.9	0.4	0.9	0.7	0.5	0.9	0.5	0.8	0.7
1972	0.9	0.7	0.9	1.0	0.9	1.1	0.9	0.8	0.2	0.4	0.7	0.8	0.8
1973	0.7	0.6	1.0	1.1	0.9	0.6	0.2	0.3	0.2	0.3	0.8	1.4	0.7
1974	0.7	0.8	0.8	0.9	0.5	0.2	0.2	0.2	0.1	0.1	0.3	0.6	0.4
1975	0.6	0.5	0.8	0.5	0.2	0.3	0.6	0.4	0.3	0.3	0.4	0.4	0.4
MEAN	0.6	0.8	0.8	0.8	0.6	0.6	0.7	0.6	0.3	0.4	0.5	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 95

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.5	2.6	3.4	1.4	2.1	2.1	1.4	2.7	2.9	1.6	2.5
1957	2.4	2.5	2.4	2.7	1.9	2.3	2.0	1.9	1.2	2.3	2.7	2.7
1958	3.0	2.9	2.3	2.9	2.9	2.1	2.0	2.4	3.2	1.6	2.0	2.3
1959	3.0	2.5	3.2	2.4	2.2	1.9	2.1	2.0	1.7	2.5	2.5	2.5
1960	2.4	3.4	3.0	2.7	2.3	2.0	3.2	2.0	2.6	2.1	2.0	2.7
1961	2.4	3.1	2.2	3.0	2.4	2.3	1.8	2.2	2.3	1.8	2.4	2.7
1962	3.4	2.7	2.8	3.3	1.4	2.3	2.0	2.3	1.7	1.4	3.2	2.4
1963	2.8	2.9	2.8	2.6	2.5	2.4	2.1	1.6	2.5	1.3	2.7	2.4
1964	2.9	3.1	3.0	2.5	1.9	1.4	2.4	2.2	3.0	3.1	2.8	2.8
1965	2.7	3.3	2.6	2.4	1.8	2.2	2.0	1.8	1.2	2.6	2.3	1.9
1966	3.1	3.5	3.0	2.4	2.3	2.1	2.0	2.0	2.2	2.1	2.5	2.6
1967	2.8	2.7	2.9	2.2	3.0	1.9	2.5	2.0	2.3	2.1	2.6	3.4
1968	1.4	1.4	3.3	2.2	1.5	1.3	0.9	0.8	0.4	1.7	2.7	3.3
1969	2.2	2.0	2.9	2.9	2.6	1.6	1.9	2.2	2.4	1.5	3.5	2.9
1970	2.2	3.6	2.8	2.6	2.6	2.1	2.2	2.0	1.8	1.9	2.0	2.8
1971	3.2	3.2	2.9	3.1	2.8	1.3	2.3	3.2	2.1	2.8	2.8	2.8
1972	2.6	3.2	2.8	2.5	3.3	3.2	2.2	2.0	2.0	2.2	2.9	2.8
1973	2.7	3.5	4.0	3.1	2.5	1.8	1.0	1.7	2.1	2.8	3.9	4.1
1974	2.6	3.3	2.4	2.8	2.6	1.2	0.8	0.8	0.8	1.4	2.0	2.8
1975	2.6	3.0	2.8	2.4	1.0	1.1	2.0	0.9	1.9	2.1	2.2	3.3

LARGEST HS(METRES) FOR STATION 95 = 4.1

STATION 96 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 87.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1709	2361	1752	2241	932	203	.	.	.	.	9198
0.50 - 0.99	.	261	1805	843	385	609	.	.	.	.	3903
1.00 - 1.49	.	.	23	207	135	65	.	.	.	.	430
1.50 - 1.99	.	.	.	.	20	.	.	.	.	.	20
2.00 - 2.49	.	.	.	.	3	.	.	.	.	.	3
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1709	2622	3580	3291	1475	877	0	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 2.11 ANGLE CLASS % = 13.6

STATION 96 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 87.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										- TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1368	1877	.	.	898	1091	126	.	.	.	5360
0.50 - 0.99	.	1449	4212	889	249	1755	323	1	.	.	8878
1.00 - 1.49	.	.	521	2544	1124	1528	328	3	.	.	6048
1.50 - 1.99	.	.	.	121	1042	1741	371	1	.	.	3276
2.00 - 2.49	.	.	.	.	159	739	503	23	.	.	1424
2.50 - 2.99	.	.	.	.	.	30	73	59	.	.	162
3.00 - 3.49	.	.	.	.	.	.	1	11	1	.	13
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1368	3326	4733	3554	3472	6684	1725	98	2	0	

AVERAGE HS(M) = 0.99 LARGEST HS(M) = 3.66 ANGLE CLASS % = 25.2

STATION 96 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 87.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	829	766	.	.	843	787	196	1	5	.	3427
0.50 - 0.99	.	773	1812	184	278	2079	458	47	6	.	5637
1.00 - 1.49	.	.	296	1149	212	1064	414	20	6	.	3161
1.50 - 1.99	.	.	1	107	448	604	330	29	5	.	1524
2.00 - 2.49	.	.	.	.	124	710	308	22	8	.	1172
2.50 - 2.99	.	.	.	.	1	111	266	10	8	.	456
3.00 - 3.49	.	.	.	.	.	.	29	111	15	1	156
3.50 - 3.99	.	.	.	.	.	.	.	11	10	.	21
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	829	1539	2109	1440	1906	5355	2001	311	63	1	

AVERAGE HS(M) = 1.04 LARGEST HS(M) = 3.91 ANGLE CLASS % = 15.6

STATION 96 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 87.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	811	836			1827	2304	999	114	58	475	7424
0.50 - 0.99	.	701	1694	184	150	2144	718	44	224	311	6170
1.00 - 1.49	.	.	159	894	186	222	22	17	229	219	1948
1.50 - 1.99	.	.	.	51	323	208	27	5	136	135	885
2.00 - 2.49	.	.	.	.	78	343	53	8	23	32	537
2.50 - 2.99	.	.	.	.	.	54	88	22	10	15	189
3.00 - 3.49	.	.	.	.	.	.	13	20	5	6	44
3.50 - 3.99	.	.	.	.	.	.	.	1	5	3	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	811	1537	1853	1129	2564	5275	1920	231	690	1196	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 3.67 ANGLE CLASS % = 17.2

STATION 96 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 87.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1124	1714	1209	1081	1196	241	11	17	.	.	6593
0.50 - 0.99	.	234	1907	1139	696	578	107	29	.	.	4690
1.00 - 1.49	.	.	27	325	333	338	63	20	.	.	1106
1.50 - 1.99	.	.	.	.	85	176	54	13	.	.	328
2.00 - 2.49	.	.	.	.	10	29	8	8	1	.	56
2.50 - 2.99	.	.	.	.	1	1	.	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1124	1948	3143	2545	2321	1363	243	87	1	0	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 2.59 ANGLE CLASS % = 12.8

STATION 96 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 87.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

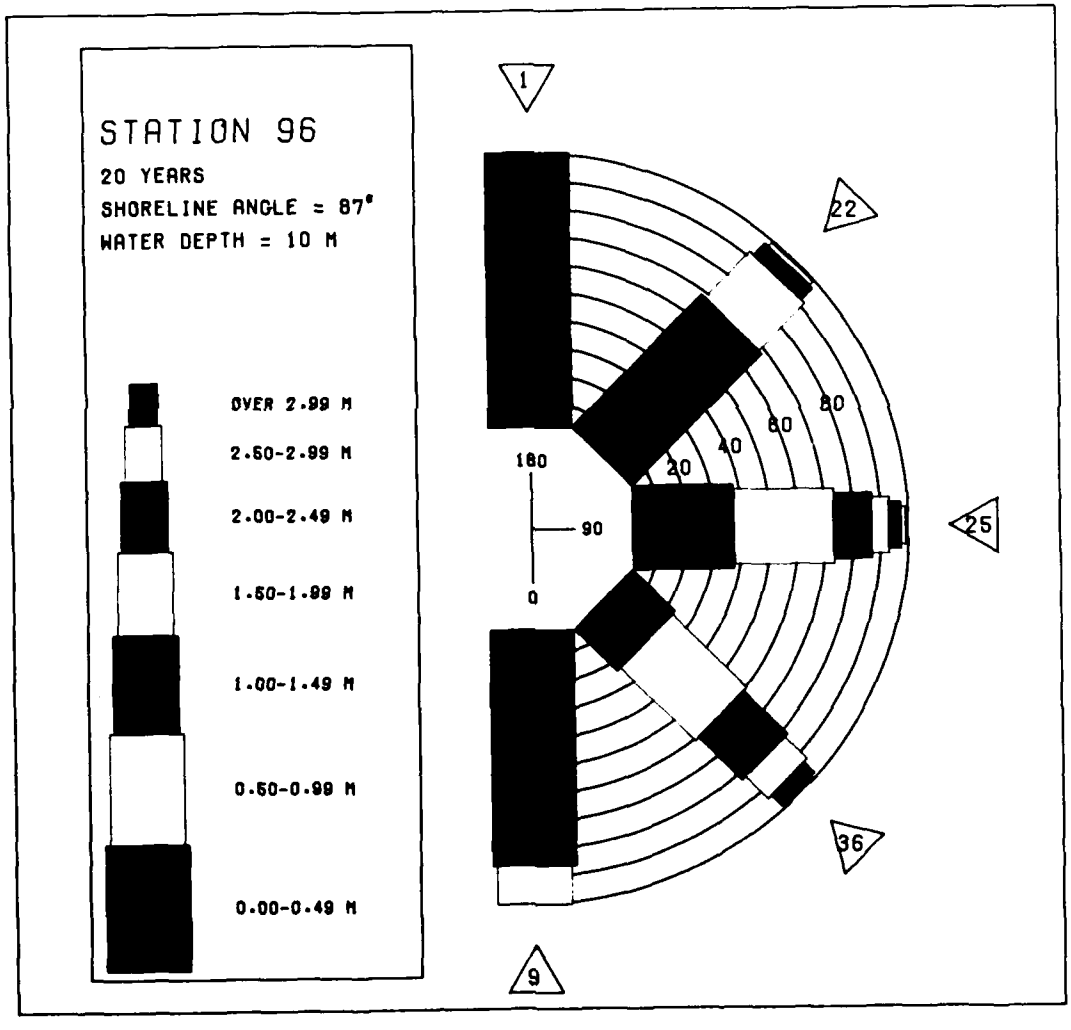
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	867	1278	2250	4000	361	.	.	.	.	.	8756
0.50 - 0.99	.	.	8	.	.	.	.	.	.	.	8
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	867	1278	2258	4000	361	0	0	0	0	0	

AVERAGE HS(M) = 0.09 LARGEST HS(M) = 0.54 ANGLE CLASS % = 8.8

STATION 96 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 87.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	671	883	521	732	605	462	133	13	6	47	4073
0.50 - 0.99	.	342	1144	324	176	716	160	12	23	31	2928
1.00 - 1.49	.	.	102	512	199	321	82	6	23	21	1266
1.50 - 1.99	.	.	.	28	191	273	78	4	14	13	601
2.00 - 2.49	.	.	.	.	37	182	67	6	3	3	318
2.50 - 2.99	.	.	.	.	.	19	42	15	1	1	78
3.00 - 3.49	.	.	.	.	.	.	4	14	2	.	20
3.50 - 3.99	.	.	.	.	.	.	.	1	1	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	671	1225	1767	1596	1208	1973	586	71	73	116	

AVE HS(M) = 0.67 LARGEST HS(M) = 3.91 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 96

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.9	0.9	1.4	0.5	0.6	0.9	0.5	0.4	0.4	0.4	0.8	0.7
1957	0.7	0.9	0.8	0.7	0.5	0.7	0.8	0.6	0.5	0.2	0.9	0.9	0.7
1958	0.7	0.9	0.6	0.9	0.7	0.8	0.9	0.8	0.4	0.3	0.6	0.5	0.7
1959	0.7	0.9	1.0	0.9	0.7	0.6	0.8	0.6	0.3	0.8	0.6	0.7	0.7
1960	0.7	1.0	0.7	1.0	1.0	0.8	0.8	0.7	0.4	0.4	0.5	0.4	0.7
1961	0.8	1.0	0.9	1.3	0.9	1.0	0.8	0.9	0.3	0.3	0.5	0.9	0.8
1962	0.8	0.9	0.6	1.1	0.4	0.6	0.8	0.8	0.4	0.4	0.7	0.7	0.7
1963	0.7	0.7	1.1	0.9	0.6	0.8	0.7	0.6	0.4	0.3	0.7	0.6	0.7
1964	0.9	0.9	1.0	0.8	0.6	0.7	0.9	0.8	0.5	0.5	0.5	0.7	0.7
1965	0.6	0.8	0.7	0.7	0.6	0.7	0.8	0.7	0.3	0.6	0.5	0.4	0.6
1966	0.6	0.9	0.8	0.9	0.8	0.6	0.9	0.8	0.8	0.4	0.5	0.5	0.7
1967	0.7	0.9	0.8	0.9	0.9	0.6	1.2	0.8	0.4	0.4	0.6	0.9	0.8
1968	0.3	0.3	0.9	0.3	0.4	0.4	0.2	0.2	0.1	0.3	0.6	0.7	0.4
1969	0.5	0.6	0.8	0.8	0.7	0.6	0.7	0.7	0.3	0.3	0.8	0.9	0.6
1970	0.5	1.3	1.2	0.9	0.6	0.7	0.8	0.9	0.6	0.6	0.5	0.7	0.8
1971	0.8	1.1	0.9	0.9	0.9	0.4	0.8	0.6	0.4	0.7	0.6	0.9	0.7
1972	0.9	0.8	0.9	1.0	1.0	1.6	1.1	0.9	0.3	0.4	0.8	0.8	0.9
1973	0.7	0.7	1.0	1.1	0.9	0.6	0.2	0.3	0.3	0.3	0.8	1.3	0.7
1974	0.7	0.9	0.8	0.9	0.5	0.3	0.2	0.2	0.1	0.1	0.3	0.6	0.5
1975	0.7	0.6	0.8	0.5	0.2	0.3	0.7	0.4	0.3	0.2	0.4	0.4	0.5
MEAN	0.7	0.9	0.9	0.9	0.7	0.7	0.8	0.6	0.4	0.4	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 96

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.5	2.4	3.2	1.5	1.8	1.8	1.2	2.7	3.0	1.8	2.3
1957	2.2	3.0	2.3	2.6	2.0	2.0	2.0	2.1	1.5	1.8	2.6	2.6
1958	2.9	2.9	2.6	2.8	2.8	2.0	1.9	2.4	3.2	1.8	2.1	2.7
1959	2.9	2.6	3.2	2.3	2.1	2.1	2.1	1.9	2.2	2.3	2.3	2.6
1960	2.4	3.4	2.9	2.5	2.2	2.0	3.3	2.0	3.1	2.1	1.8	2.5
1961	2.5	3.3	2.4	3.0	2.3	2.2	1.8	2.4	2.3	1.5	2.4	2.5
1962	3.2	2.6	2.7	3.1	1.4	1.9	2.0	2.5	1.8	1.4	3.1	2.4
1963	2.5	2.8	2.6	2.4	2.1	2.1	2.1	1.7	2.7	1.5	2.8	2.5
1964	3.1	3.3	2.8	2.6	1.7	2.1	2.5	2.3	2.8	3.2	2.8	2.6
1965	2.6	3.1	2.6	2.3	2.1	1.9	2.0	1.4	1.1	2.4	2.2	2.1
1966	3.1	3.5	2.9	2.2	2.3	2.3	2.1	1.8	2.4	2.0	2.6	2.4
1967	2.7	2.7	2.9	2.2	2.8	2.0	2.4	2.1	2.3	2.0	2.6	3.3
1968	2.2	1.3	3.2	2.1	1.6	1.3	0.9	0.8	0.5	2.0	2.8	3.1
1969	2.2	2.0	2.8	2.9	2.4	1.6	1.7	2.1	2.3	1.5	3.6	3.0
1970	2.2	3.6	2.8	2.5	2.5	2.1	2.1	2.0	1.8	2.8	1.9	3.0
1971	2.7	3.2	2.6	3.0	2.9	1.3	2.2	3.1	1.4	2.7	2.8	2.7
1972	2.6	3.3	2.7	2.4	3.6	3.2	2.2	2.0	2.0	2.3	2.9	2.7
1973	2.9	3.7	3.8	3.1	2.4	1.8	0.9	1.6	1.9	2.6	3.7	3.9
1974	2.6	3.3	2.3	2.6	2.5	1.2	0.9	0.8	0.8	1.3	2.1	2.7
1975	2.6	2.8	2.6	2.4	1.0	1.3	1.9	1.0	2.1	2.2	2.5	3.2

LARGEST HS(METRES) FOR STATION 96 = 3.9

STATION 97 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 75.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 97 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 75.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2588	4488	2380	804	2017	2633	349	3	1	.	15263
0.50 - 0.99	.	576	4349	2482	1096	3300	670	11	.	.	12484
1.00 - 1.49	.	.	124	1240	1283	2294	684	29	1	.	5655
1.50 - 1.99	.	.	.	15	395	1139	578	58	1	.	2186
2.00 - 2.49	.	.	.	.	32	107	174	51	3	.	367
2.50 - 2.99	.	.	.	.	.	3	6	3	3	.	15
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2588	5064	6853	4541	4823	9476	2461	155	9	0	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.91 ANGLE CLASS % = 36.0

STATION 97 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 75.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	893	965	.	.	2238	3129	1156	83	10	343	8817
0.50 - 0.99	.	747	1919	198	311	3870	1024	87	145	222	8523
1.00 - 1.49	.	.	251	1103	236	836	261	29	205	184	3105
1.50 - 1.99	.	.	.	66	446	568	234	17	130	119	1610
2.00 - 2.49	.	.	.	.	114	631	254	49	25	30	1103
2.50 - 2.99	.	.	.	.	1	80	189	95	17	17	399
3.00 - 3.49	.	.	.	.	.	.	22	58	17	5	102
3.50 - 3.99	.	.	.	.	.	.	.	8	3	3	14
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	893	1712	2170	1367	3346	9144	3140	426	552	923	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.69 ANGLE CLASS % = 23.7

STATION 97 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 75.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	752	735			410	95	88	53	37	181	2351
0.50 - 0.99	.	616	1570	171	53	131	27	23	90	104	2785
1.00 - 1.49	.	.	130	783	169	73	3	11	37	37	1243
1.50 - 1.99	.	.	.	53	284	150	5	1	8	13	514
2.00 - 2.49	.	.	.	.	49	270	34	15	5	1	374
2.50 - 2.99	.	.	.	.	.	51	66	20	6	.	143
3.00 - 3.49	.	.	.	.	.	.	8	11	3	.	22
3.50 - 3.99	.	.	.	.	.	.	.	.	3	1	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	752	1351	1700	1007	965	770	231	134	189	337	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 3.72 ANGLE CLASS % = 7.5

STATION 97 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 75.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1202	1808	1257	1735	1081	126	25	.	13	.	7247
0.50 - 0.99	.	234	2270	1517	506	376	44	10	1	.	5358
1.00 - 1.49	.	.	23	350	400	470	90	17	.	.	1350
1.50 - 1.99	.	.	.	3	121	229	70	8	.	.	431
2.00 - 2.49	.	.	.	.	15	37	25	5	.	.	82
2.50 - 2.99	.	.	.	.	1	5	1	3	.	.	10
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1202	2042	3550	3605	2524	1243	255	43	14	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 2.94 ANGLE CLASS % = 14.5

STATION 97 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 75.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

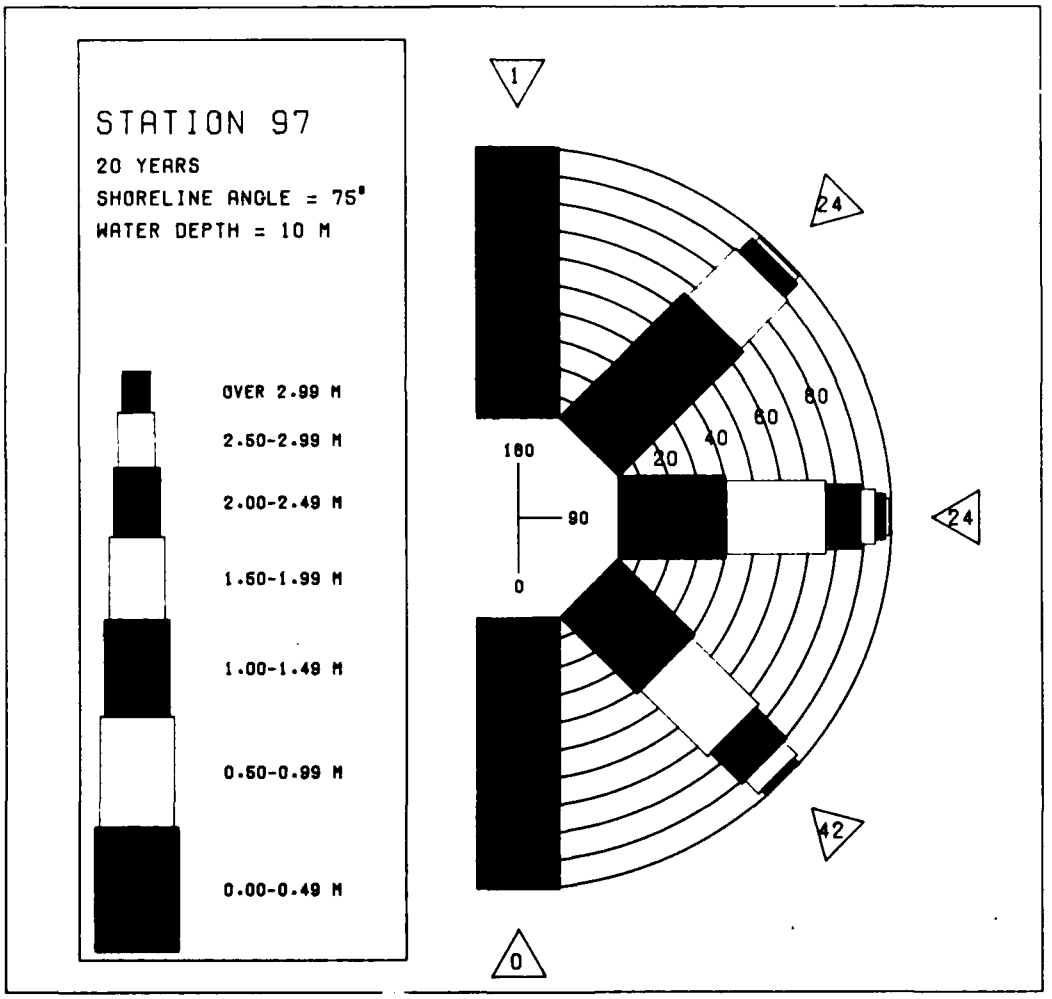
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	809	1196	2176	3927	319	.	.	.	.	.	8427
0.50 - 0.99	.	.	6	.	.	.	.	.	.	.	6
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	809	1196	2182	3927	319	0	0	0	0	0	

AVERAGE HS(M) = 0.11 LARGEST HS(M) = 0.52 ANGLE CLASS % = 8.4

STATION 97 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 75.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	624	919	581	646	606	598	162	14	6	52	4208
0.50 - 0.99	.	217	1011	437	235	767	176	13	23	32	2912
1.00 - 1.49	.	.	53	347	208	367	104	8	24	24	1135
1.50 - 1.99	.	.	.	13	144	211	88	8	14	13	471
2.00 - 2.49	.	.	.	.	21	104	48	12	3	3	191
2.50 - 2.99	.	.	.	.	.	14	26	12	2	1	55
3.00 - 3.49	.	.	.	.	.	.	3	7	2	.	12
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	624	1136	1645	1443	1195	2061	607	74	74	123	

AVE HS(M) = 0.60 LARGEST HS(M) = 3.72 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 97

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.8	0.7	1.3	0.5	0.5	0.8	0.4	0.4	0.5	0.3	0.6	0.6
1957	0.6	0.9	0.7	0.7	0.5	0.6	0.7	0.5	0.5	0.3	0.8	0.7	0.6
1958	0.6	0.6	0.5	0.8	0.6	0.7	0.8	0.7	0.4	0.2	0.5	0.4	0.6
1959	0.6	0.9	0.8	0.7	0.7	0.5	0.8	0.5	0.4	0.8	0.5	0.5	0.6
1960	0.6	0.9	0.6	0.9	0.9	0.7	0.8	0.6	0.4	0.3	0.4	0.4	0.6
1961	0.6	0.9	0.8	1.0	0.8	1.0	0.7	0.9	0.3	0.3	0.4	0.8	0.7
1962	0.7	0.8	0.5	1.0	0.4	0.6	0.7	0.8	0.4	0.4	0.6	0.5	0.6
1963	0.7	0.6	1.0	0.7	0.6	0.7	0.6	0.6	0.4	0.3	0.5	0.5	0.6
1964	0.7	0.7	0.9	0.8	0.6	0.6	0.8	0.7	0.5	0.5	0.5	0.7	0.7
1965	0.5	0.7	0.6	0.6	0.5	0.6	0.7	0.6	0.4	0.5	0.4	0.4	0.5
1966	0.5	0.8	0.7	0.8	0.7	0.6	0.8	0.7	0.7	0.4	0.4	0.4	0.6
1967	0.6	0.7	0.7	0.8	0.8	0.7	1.1	0.8	0.5	0.4	0.5	0.8	0.7
1968	0.4	0.2	0.6	0.2	0.4	0.3	0.2	0.1	0.1	0.3	0.4	0.5	0.3
1969	0.5	0.5	0.6	0.8	0.7	0.5	0.6	0.7	0.3	0.3	0.8	0.7	0.6
1970	0.5	1.2	1.1	0.8	0.6	0.6	0.7	0.8	0.5	0.7	0.4	0.6	0.7
1971	0.6	1.0	0.7	0.8	0.8	0.4	0.7	0.5	0.4	0.7	0.5	0.8	0.7
1972	0.9	0.7	0.8	0.8	1.0	1.5	1.0	0.9	0.2	0.4	0.7	0.7	0.8
1973	0.6	0.6	0.9	0.9	0.7	0.5	0.2	0.3	0.2	0.3	0.7	1.2	0.6
1974	0.6	0.8	0.7	0.8	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.5	0.4
1975	0.6	0.5	0.7	0.4	0.2	0.3	0.6	0.4	0.4	0.2	0.3	0.4	0.4
MEAN	0.6	0.7	0.7	0.8	0.6	0.6	0.7	0.6	0.4	0.4	0.5	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 97

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.5	2.0	3.1	1.4	1.8	1.5	1.1	2.7	3.0	1.3	1.9
1957	1.8	3.1	2.4	2.5	2.0	1.6	1.8	2.1	1.8	1.4	2.5	2.5
1958	2.8	2.6	2.6	2.7	2.7	1.8	1.4	2.4	3.2	1.8	2.1	2.9
1959	2.6	2.6	3.2	2.1	2.0	1.7	2.1	1.5	2.5	1.9	2.1	2.6
1960	2.1	3.3	2.7	2.5	2.1	1.8	3.0	1.8	3.0	1.9	1.5	2.3
1961	2.4	3.3	2.5	3.0	2.3	2.2	1.6	2.4	2.3	1.4	2.3	2.2
1962	3.0	2.3	2.4	2.9	1.2	1.8	1.7	2.4	1.4	1.1	3.0	2.3
1963	2.3	2.5	2.6	2.2	1.7	2.0	1.6	1.3	2.5	1.8	2.9	2.5
1964	3.0	3.1	2.6	2.6	1.5	2.1	2.3	1.9	2.7	3.2	2.8	2.6
1965	2.4	3.1	2.5	2.1	1.6	1.5	1.6	1.3	1.0	2.3	1.6	2.1
1966	3.2	3.3	2.8	2.2	2.3	2.6	1.6	1.7	2.4	1.8	2.2	2.1
1967	2.7	2.6	2.6	2.1	2.4	2.1	2.3	2.1	2.2	1.7	2.5	3.2
1968	2.4	1.2	3.0	2.1	1.6	1.2	0.9	0.6	0.3	2.0	2.7	2.9
1969	2.1	1.8	2.6	2.6	2.4	1.6	1.7	1.8	1.7	1.6	3.7	2.9
1970	2.0	3.5	2.8	2.3	2.5	1.9	1.9	1.9	1.6	2.9	2.0	2.9
1971	2.6	2.7	2.3	3.0	2.7	1.1	1.9	2.9	1.4	2.5	2.7	2.3
1972	2.4	3.1	2.6	2.3	3.6	3.2	2.1	1.8	1.9	2.2	2.5	2.5
1973	2.9	3.7	3.4	2.9	2.3	1.5	0.9	1.5	1.5	2.3	3.2	3.7
1974	2.1	3.1	2.1	2.5	2.4	0.9	0.6	0.6	0.8	1.2	2.0	2.7
1975	2.4	2.6	2.6	1.7	1.1	0.9	1.7	0.8	2.1	2.2	2.2	3.0

LARGEST HS(METRES) FOR STATION 97 = 3.7

STATION 98 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 64.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	961	1437	1610	634	285	.	.	.	.	.	4927
0.50 - 0.99	.	.	109	6	.	.	.	.	.	.	115
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	961	1437	1719	640	285	0	0	0	0	0	

AVERAGE HS(M) = 0.17 LARGEST HS(M) = 0.72 ANGLE CLASS % = 5.0

STATION 98 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 64.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2120	3624	927	237	2017	3204	485	5	5	.	12624
0.50 - 0.99	.	906	5150	2674	1139	3891	874	17	5	.	14656
1.00 - 1.49	.	.	222	1610	1355	2347	937	41	11	.	6523
1.50 - 1.99	.	.	.	34	455	1192	612	87	8	.	2388
2.00 - 2.49	.	.	.	.	56	282	220	77	10	.	645
2.50 - 2.99	.	.	.	.	.	6	22	35	5	.	68
3.00 - 3.49	.	.	.	.	.	.	.	3	1	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2120	4530	6299	4555	5022	10922	3150	265	45	0	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 3.05 ANGLE CLASS % = 36.9

STATION 98 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 64.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	624	657	.	.	2156	2881	1136	85	6	343	7888
0.50 - 0.99	.	581	1348	130	270	3307	874	85	143	215	6953
1.00 - 1.49	.	.	179	826	167	629	95	29	210	184	2319
1.50 - 1.99	.	.	.	51	354	335	66	17	111	121	1055
2.00 - 2.49	.	.	.	.	97	427	114	10	17	29	694
2.50 - 2.99	.	.	.	.	1	68	148	53	15	17	302
3.00 - 3.49	.	.	.	.	.	.	20	42	11	5	78
3.50 - 3.99	.	.	.	.	.	.	.	5	3	3	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	624	1238	1527	1007	3045	7647	2453	326	516	917	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 3.68 ANGLE CLASS % = 19.3

STATION 98 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 64.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	819	843	.	.	403	99	59	54	44	183	2504
0.50 - 0.99	.	556	1796	224	88	116	41	29	100	102	1052
1.00 - 1.49	.	.	100	732	224	63	3	11	37	19	1209
1.50 - 1.99	.	.	.	46	277	184	20	3	8	15	553
2.00 - 2.49	.	.	.	.	46	268	54	17	5	1	391
2.50 - 2.99	.	.	.	.	1	44	59	23	3	.	130
3.00 - 3.49	.	.	.	.	.	.	5	11	1	.	17
3.50 - 3.99	.	.	.	.	.	.	.	.	5	1	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	819	1399	1896	1002	1039	774	241	148	203	341	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.72 ANGLE CLASS % = 7.9

STATION 98 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 64.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1731	2695	3388	5638	1187	87	20	.	.	.	14746
0.50 - 0.99	.	131	1704	1593	924	299	10	6	.	.	4667
1.00 - 1.49	.	.	3	225	345	473	82	11	.	.	1139
1.50 - 1.99	.	.	.	1	56	183	61	8	.	.	309
2.00 - 2.49	.	.	.	.	6	1	10	.	.	.	17
2.50 - 2.99	.	.	.	.	.	.	1	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1731	2826	5095	7457	2518	1043	184	25	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 2.60 ANGLE CLASS % = 20.9

STATION 98 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 64.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

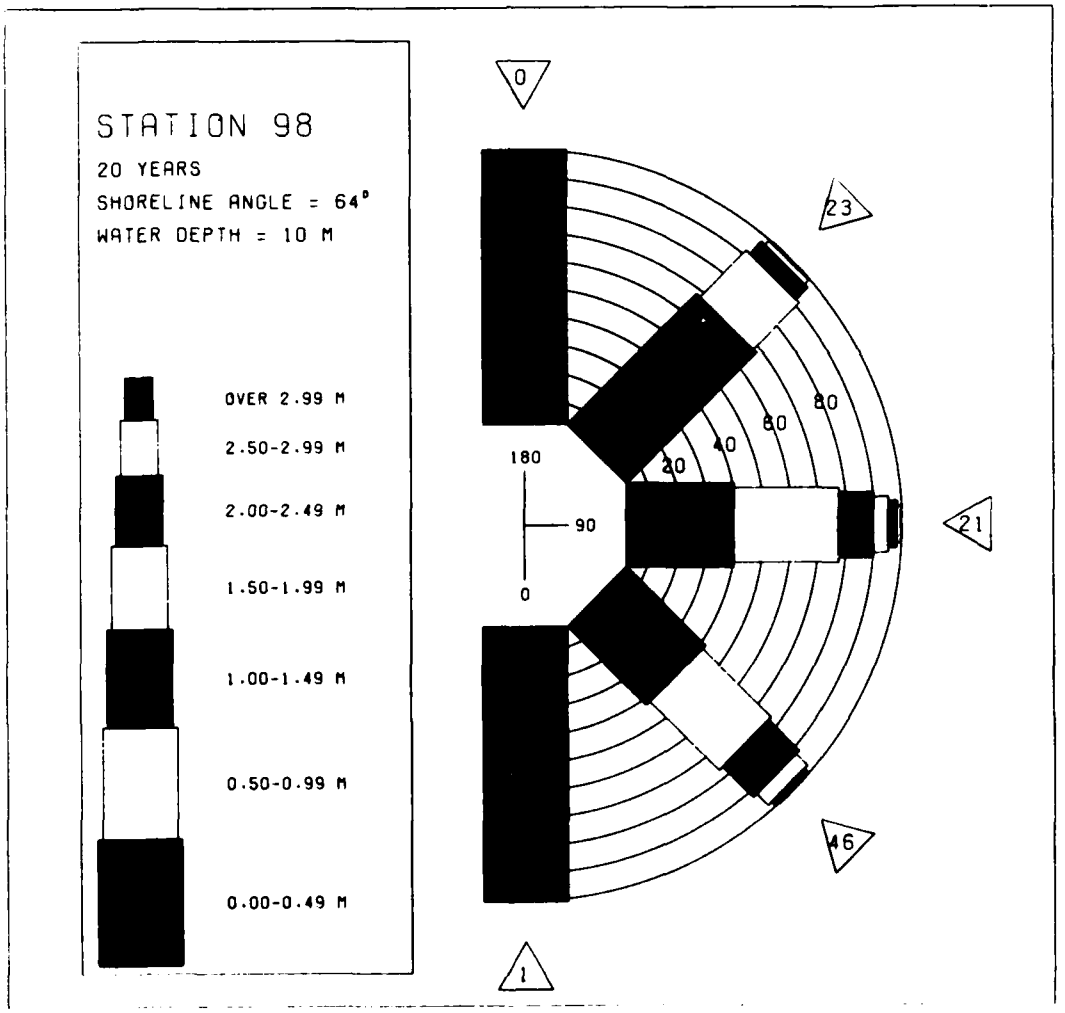
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	13	.	.	.	.	.	.	.	.	.	13
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	13	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 98 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 64.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	627	925	592	651	605	627	170	14	5	52	4268
0.50 - 0.99	.	217	1010	462	242	761	160	13	24	51	2940
1.00 - 1.49	.	.	50	339	209	351	111	9	26	22	1117
1.50 - 1.99	.	.	.	13	114	189	76	11	12	13	428
2.00 - 2.49	.	.	.	.	20	98	40	10	3	3	174
2.50 - 2.99	.	.	.	.	.	11	23	11	2	1	48
3.00 - 3.49	.	.	.	.	.	.	2	5	1	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	627	1142	1652	1465	1190	2037	602	73	73	122	

AVE HS(M) = 0.58 LARGEST HS(M) = 3.72 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 98

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.8	0.7	1.3	0.5	0.5	0.8	0.4	0.4	0.5	0.3	0.6	0.6
1957	0.6	0.8	0.7	0.6	0.5	0.6	0.7	0.5	0.5	0.3	0.8	0.7	0.6
1958	0.5	0.6	0.5	0.8	0.6	0.7	0.8	0.7	0.4	0.3	0.5	0.4	0.6
1959	0.5	0.8	0.8	0.7	0.7	0.5	0.8	0.5	0.4	0.8	0.5	0.5	0.6
1960	0.5	0.8	0.6	0.9	0.9	0.7	0.8	0.5	0.5	0.3	0.4	0.4	0.6
1961	0.5	0.8	0.8	0.9	0.8	0.9	0.7	0.8	0.3	0.3	0.4	0.8	0.7
1962	0.7	0.8	0.5	0.9	0.4	0.6	0.7	0.8	0.4	0.4	0.6	0.5	0.6
1963	0.6	0.6	0.9	0.7	0.6	0.7	0.6	0.6	0.4	0.3	0.5	0.5	0.6
1964	0.7	0.6	0.8	0.8	0.6	0.6	0.8	0.7	0.5	0.5	0.5	0.7	0.6
1965	0.4	0.7	0.6	0.5	0.5	0.6	0.7	0.6	0.4	0.5	0.4	0.3	0.5
1966	0.5	0.8	0.7	0.7	0.7	0.6	0.8	0.7	0.7	0.4	0.4	0.4	0.6
1967	0.6	0.7	0.7	0.7	0.8	0.7	1.0	0.8	0.5	0.4	0.5	0.8	0.7
1968	0.4	0.2	0.6	0.2	0.4	0.3	0.2	0.1	0.1	0.3	0.4	0.5	0.3
1969	0.4	0.4	0.6	0.8	0.7	0.5	0.6	0.7	0.3	0.3	0.8	0.7	0.6
1970	0.4	1.2	1.0	0.7	0.6	0.6	0.7	0.8	0.5	0.7	0.4	0.6	0.7
1971	0.6	0.9	0.7	0.7	0.7	0.4	0.7	0.5	0.4	0.7	0.5	0.8	0.6
1972	0.8	0.7	0.8	0.8	1.0	1.5	1.0	0.9	0.2	0.4	0.7	0.6	0.8
1973	0.6	0.6	0.8	0.9	0.7	0.5	0.2	0.3	0.2	0.3	0.7	1.2	0.6
1974	0.6	0.8	0.6	0.7	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.5	0.4
1975	0.5	0.5	0.6	0.4	0.2	0.3	0.6	0.4	0.4	0.2	0.3	0.4	0.4
MEAN	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.6	0.4	0.4	0.5	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 98

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.5	1.9	3.0	1.4	1.7	1.5	1.1	2.6	3.0	1.2	1.8
1957	1.7	3.1	2.4	2.4	2.0	1.7	1.7	2.1	2.2	1.4	2.4	2.5
1958	2.8	2.6	2.6	2.5	2.7	1.8	1.3	2.4	3.1	1.8	2.1	2.9
1959	2.6	2.6	3.1	2.0	1.9	1.6	2.1	1.5	2.6	1.9	2.1	2.6
1960	2.1	3.1	2.6	2.4	2.1	1.8	2.8	1.7	2.9	1.8	1.5	2.1
1961	2.4	3.3	2.5	3.0	2.4	2.2	1.5	2.4	2.3	1.5	2.3	2.2
1962	2.9	2.2	2.4	2.8	1.3	1.7	1.8	2.3	1.5	1.3	3.0	2.3
1963	2.3	2.4	2.6	2.2	1.7	1.9	1.5	1.2	2.4	1.9	2.9	2.5
1964	3.0	3.1	2.5	2.5	1.7	2.1	2.2	1.9	2.5	3.1	2.7	2.6
1965	2.3	3.0	2.5	2.0	1.5	1.5	1.5	1.2	1.1	2.2	1.5	2.1
1966	3.2	3.2	2.7	2.2	2.2	2.7	1.6	1.6	2.4	1.8	2.1	2.1
1967	2.6	2.6	2.5	2.2	2.4	2.1	2.1	2.1	2.3	1.7	2.5	3.2
1968	2.6	1.2	2.9	2.1	1.6	1.2	0.9	0.6	0.3	2.1	2.7	2.9
1969	2.1	1.7	2.6	2.5	2.5	1.6	1.7	1.8	1.6	1.7	3.7	2.8
1970	1.9	3.5	2.8	2.3	2.5	1.9	1.8	1.9	1.5	3.0	2.1	2.8
1971	2.5	2.5	2.1	3.0	2.7	1.0	1.8	2.8	1.4	2.5	2.7	2.4
1972	2.3	3.0	2.5	2.2	3.6	3.1	2.1	1.8	1.8	2.1	2.5	2.4
1973	2.9	3.7	3.3	2.8	2.2	1.4	0.9	1.4	1.4	2.2	3.1	3.7
1974	2.0	2.7	1.9	2.5	2.3	0.9	0.6	0.6	0.9	1.1	1.9	2.8
1975	2.3	2.5	2.6	1.6	1.1	0.9	1.7	0.8	2.1	2.2	2.1	3.0

LARGEST HS(METRES) FOR STATION 98 = 3.7

STATION 99 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1117	1772	2214	888	396	.	.	.	.	.	6387
0.50 - 0.99	.	.	142	3	.	.	.	.	.	.	145
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1117	1772	2356	891	396	0	0	0	0	0	

AVERAGE HS(M) = 0.18 LARGEST HS(M) = 0.69 ANGLE CLASS % = 6.5

STATION 99 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2075	3545	965	485	1856	2250	438	3	1	.	11618
0.50 - 0.99	.	811	4755	2700	1266	3220	728	18	6	.	13524
1.00 - 1.49	.	.	184	1360	1170	2032	752	58	5	.	5561
1.50 - 1.99	.	.	.	18	369	939	467	92	13	.	1898
2.00 - 2.49	.	.	.	.	65	207	143	78	15	.	508
2.50 - 2.99	.	.	.	.	1	5	29	29	3	.	67
3.00 - 3.49	.	.	.	.	.	.	.	6	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2075	4356	5904	4563	4747	8653	2557	284	43	0	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.39 ANGLE CLASS % = 33.2

STATION 99 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	550	576	.	.	1921	2859	1148	92	35	443	7624
0.50 - 0.99	.	477	1255	124	229	3220	903	87	241	241	6777
1.00 - 1.49	.	.	131	744	133	580	76	30	663	215	2174
1.50 - 1.99	.	.	.	49	296	454	58	13	107	112	889
2.00 - 2.49	.	.	.	.	68	354	99	6	17	32	576
2.50 - 2.99	.	.	.	.	.	58	123	42	17	13	253
3.00 - 3.49	.	.	.	.	.	.	15	30	5	6	56
3.50 - 3.99	.	.	.	.	.	.	.	1	5	1	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	550	1053	1386	917	2647	7325	2424	301	690	1063	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.72 ANGLE CLASS % = 18.4

STATION 99 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	819	829	.	.	333	94	23	29	8	92	2227
0.50 - 0.99	.	583	1829	219	94	131	10	29	6	106	3007
1.00 - 1.49	.	.	100	759	244	95	3	15	63	39	1318
1.50 - 1.99	.	.	.	49	309	242	27	6	18	10	661
2.00 - 2.49	.	.	.	.	47	266	70	10	3	1	397
2.50 - 2.99	.	.	.	.	1	51	58	29	.	.	139
3.00 - 3.49	.	.	.	.	.	.	3	11	3	.	17
3.50 - 3.99	.	.	.	.	.	.	.	1	3	10	14
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	819	1412	1929	1027	1028	879	194	130	104	258	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.81 ANGLE CLASS % = 7.8

STATION 99 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1774	2722	3424	5947	1267	66	32	22	.	.	15254
0.50 - 0.99	.	119	1885	2176	924	280	71	20	.	.	5475
1.00 - 1.49	.	.	5	246	407	467	88	25	.	.	1238
1.50 - 1.99	.	.	.	1	75	229	88	10	.	.	403
2.00 - 2.49	.	.	.	.	3	23	11	5	.	.	42
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1774	2841	5314	8370	2676	1065	290	82	0	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 2.42 ANGLE CLASS % = 22.4

STATION 99 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

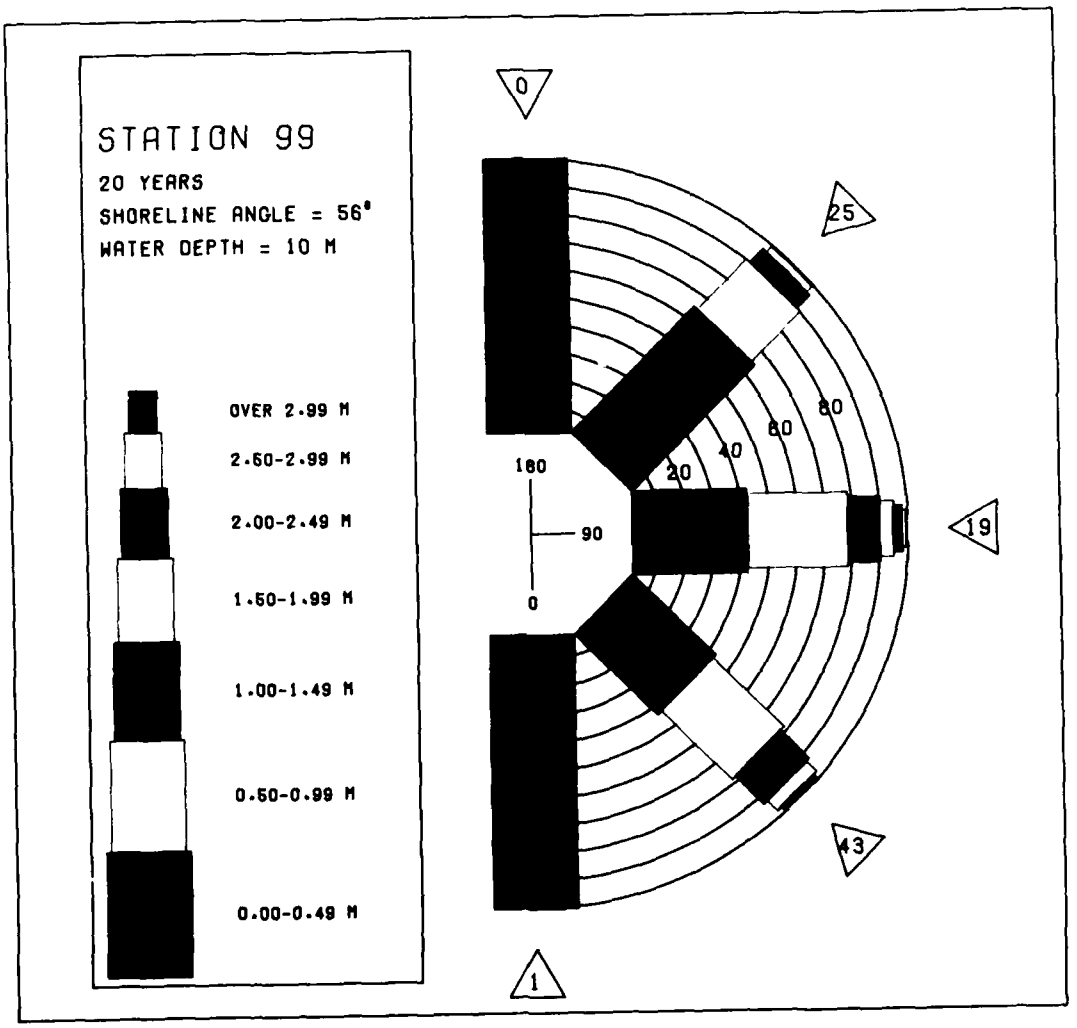
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	8	.	.	.	.	.	.	.	.	.	8
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 99 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	634	944	660	732	577	527	164	14	4	53	4309
0.50 - 0.99	.	199	986	522	253	685	171	15	25	34	2890
1.00 - 1.49	.	.	42	311	195	317	92	13	33	25	1028
1.50 - 1.99	.	.	.	11	105	166	64	12	14	12	384
2.00 - 2.49	.	.	.	.	18	85	32	10	3	3	151
2.50 - 2.99	.	.	.	.	.	11	21	10	2	1	45
3.00 - 3.49	.	.	.	.	.	.	1	4	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	634	1143	1688	1576	1148	1791	545	78	81	129	

AVE HS(M) = 0.55 LARGEST HS(M) = 3.81 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 99

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.7	0.5	1.1	0.5	0.6	0.7	0.4	0.4	0.5	0.3	0.5	0.5
1957	0.5	0.8	0.6	0.6	0.5	0.5	0.7	0.5	0.5	0.3	0.7	0.6	0.6
1958	0.4	0.5	0.5	0.8	0.6	0.6	0.8	0.7	0.4	0.3	0.4	0.4	0.5
1959	0.5	0.7	0.8	0.6	0.6	0.5	0.8	0.4	0.5	0.8	0.5	0.5	0.6
1960	0.5	0.7	0.5	0.9	0.8	0.6	0.8	0.5	0.5	0.3	0.4	0.4	0.6
1961	0.4	0.7	1.1	0.8	0.8	0.9	0.6	0.8	0.3	0.3	0.4	0.7	0.7
1962	0.6	0.7	0.5	0.9	0.4	0.6	0.7	0.8	0.4	0.4	0.6	0.4	0.6
1963	0.6	0.6	0.8	0.6	0.6	0.7	0.5	0.6	0.5	0.3	0.5	0.4	0.6
1964	0.6	0.5	0.8	0.8	0.5	0.6	0.8	0.7	0.5	0.5	0.5	0.7	0.6
1965	0.4	0.7	0.6	0.5	0.4	0.6	0.6	0.6	0.4	0.6	0.4	0.3	0.5
1966	0.5	0.8	0.6	0.6	0.7	0.6	0.8	0.7	0.7	0.4	0.4	0.5	0.6
1967	0.6	0.6	0.6	0.6	0.8	0.7	1.0	0.8	0.5	0.4	0.4	0.7	0.6
1968	0.4	0.1	0.5	0.2	0.4	0.3	0.2	0.1	0.1	0.4	0.3	0.4	0.3
1969	0.4	0.4	0.5	0.8	0.7	0.5	0.5	0.7	0.4	0.4	0.8	0.6	0.6
1970	0.4	1.1	1.0	0.7	0.5	0.6	0.7	0.8	0.5	0.8	0.4	0.5	0.7
1971	0.5	0.8	0.6	0.6	0.7	0.4	0.7	0.5	0.4	0.7	0.4	0.8	0.6
1972	0.8	0.6	0.7	0.7	1.0	1.4	0.9	0.9	0.2	0.4	0.6	0.6	0.8
1973	0.6	0.5	0.8	0.7	0.6	0.5	0.2	0.3	0.2	0.3	0.6	1.1	0.5
1974	0.5	0.7	0.6	0.6	0.4	0.2	0.1	0.1	0.1	0.2	0.2	0.4	0.4
1975	0.5	0.6	0.5	0.3	0.2	0.3	0.6	0.3	0.4	0.3	0.3	0.3	0.4
MEAN	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.6	0.4	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 99

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.6	2.5	1.9	3.0	1.4	1.6	1.4	1.0	2.6	3.1	1.1	1.8
1957	1.7	3.1	2.4	2.3	2.0	1.7	1.6	2.1	2.2	1.4	2.3	2.4
1958	2.7	2.6	2.7	2.5	2.6	1.7	1.3	2.3	3.1	1.8	2.1	3.0
1959	2.5	2.6	2.9	1.9	1.7	1.4	2.1	1.4	2.6	2.0	2.1	2.5
1960	2.2	3.0	2.5	2.4	2.1	1.6	2.7	1.5	2.9	1.8	1.5	2.0
1961	2.4	3.3	2.8	2.9	2.4	2.2	1.4	2.4	2.2	1.5	2.2	2.2
1962	2.7	2.1	2.4	2.7	1.4	1.6	1.9	2.3	1.8	1.4	3.8	2.4
1963	2.2	2.4	2.6	2.1	1.5	1.8	1.2	1.3	2.3	2.1	2.9	2.5
1964	2.9	3.1	2.3	2.4	2.1	2.1	2.0	1.8	2.3	3.1	2.7	2.5
1965	2.1	2.8	2.5	1.9	1.2	1.4	1.5	1.2	1.4	2.2	1.3	2.0
1966	3.2	3.1	2.5	2.2	2.2	2.8	1.6	1.6	2.4	1.6	2.1	2.0
1967	2.6	2.5	2.3	2.1	2.4	2.1	2.1	1.9	2.3	1.6	2.5	3.1
1968	2.8	1.2	2.7	2.0	1.7	1.3	0.9	0.5	0.3	2.1	2.6	2.9
1969	1.9	1.9	2.6	2.4	2.5	1.6	1.7	1.7	1.4	2.0	3.7	2.8
1970	1.9	3.4	2.6	2.2	2.4	1.8	1.7	2.0	1.3	3.0	2.3	2.7
1971	2.4	2.5	2.1	3.0	2.5	1.0	1.7	2.6	1.4	2.3	2.7	2.4
1972	2.3	2.9	2.4	2.1	3.6	3.0	2.1	1.8	1.7	1.9	2.4	2.3
1973	2.8	3.5	3.2	2.5	2.1	1.1	0.8	1.4	1.3	2.2	2.7	3.7
1974	1.9	2.7	1.9	2.5	2.2	0.8	0.6	0.6	0.9	1.4	1.8	2.8
1975	2.3	2.4	2.6	1.4	1.0	1.1	1.6	0.7	2.0	2.1	1.9	2.8

LARGEST HS(METRES) FOR STATION 99 = 3.8

STATION 100 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1187	1853	2380	1014	420	.	.	.	.	.	6854
0.50 - 0.99	.	.	133	6	.	.	.	.	.	.	139
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1187	1853	2513	1020	420	0	0	0	0	0	

AVERAGE HS(M) = 0.18 LARGEST HS(M) = 0.72 ANGLE CLASS % = 7.0

STATION 100 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2012	3400	992	482	2522	2108	359	3	.	.	11878
0.50 - 0.99	.	840	4652	2744	1389	3047	655	23	6	.	13356
1.00 - 1.49	.	.	189	1278	1071	1846	674	58	5	.	5121
1.50 - 1.99	.	.	.	22	345	874	403	102	8	.	1754
2.00 - 2.49	.	.	.	.	61	210	143	61	10	.	485
2.50 - 2.99	.	.	.	.	1	5	20	32	3	.	61
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2012	4240	5833	4526	5389	8090	2254	282	32	0	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 3.39 ANGLE CLASS % = 32.7

STATION 100 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	568	585	.	.	1059	2855	1185	99	34	427	6812
0.50 - 0.99	.	472	1244	118	205	3071	823	75	251	241	6500
1.00 - 1.49	.	.	124	716	138	573	61	29	263	227	2131
1.50 - 1.99	.	.	.	51	284	254	53	11	99	123	875
2.00 - 2.49	.	.	.	.	66	321	87	6	17	30	527
2.50 - 2.99	.	.	.	.	.	54	112	39	15	13	233
3.00 - 3.49	.	.	.	.	.	.	15	30	6	5	56
3.50 - 3.99	.	.	.	.	.	.	.	1	3	3	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	568	1057	1368	885	1752	7128	2336	290	688	1069	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 3.72 ANGLE CLASS % = 17.2

STATION 100 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	811	824			337	95	25	41	8	177	2318
0.50 - 0.99	.	571	1856	217	97	130	11	37	6	171	3096
1.00 - 1.49	.	.	104	773	246	95	6	15	63	42	1344
1.50 - 1.99	.	.	.	42	328	258	37	6	17	5	693
2.00 - 2.49	.	.	.	.	53	261	78	11	5	1	409
2.50 - 2.99	.	.	.	.	1	53	58	35	.	.	147
3.00 - 3.49	.	.	.	.	.	.	3	11	3	.	17
3.50 - 3.99	.	.	.	.	.	.	.	1	3	11	15
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	811	1395	1960	1032	1062	892	218	157	105	407	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.81 ANGLE CLASS % = 8.1

STATION 100 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1776	2722	3393	6007	1406	116	85	22	3	.	15530
0.50 - 0.99	.	121	1954	2376	915	361	176	37	.	.	5940
1.00 - 1.49	.	.	10	272	420	475	114	88	.	.	1379
1.50 - 1.99	.	.	.	1	78	256	94	20	.	.	449
2.00 - 2.49	.	.	.	.	3	25	25	.	.	.	53
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1776	2843	5357	8656	2822	1233	494	167	3	0	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 2.42 ANGLE CLASS % = 23.4

STATION 100 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

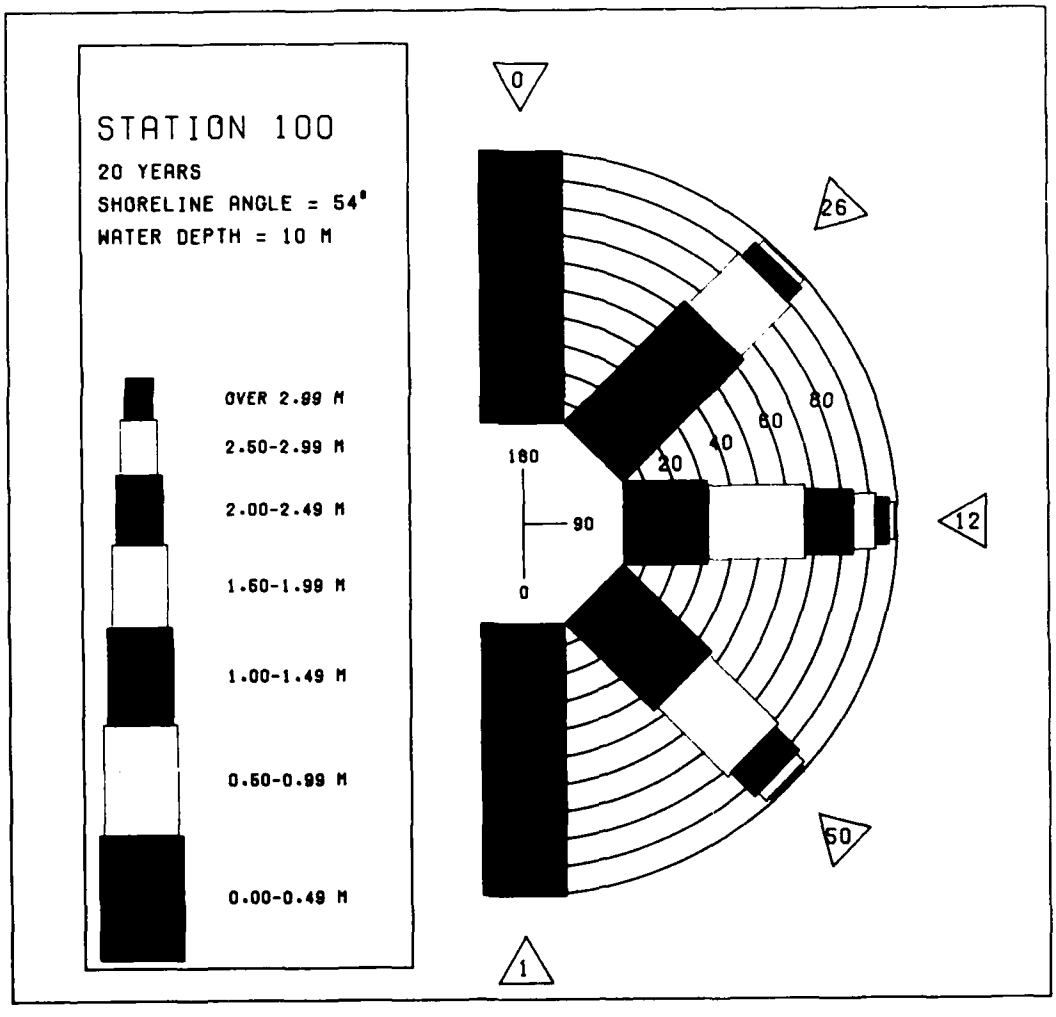
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	8	.	.	.	.	.	.	.	.	.	8
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	8	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 100 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 54.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	636	938	676	750	574	517	165	16	4	60	4336
0.50 - 0.99	.	200	984	546	260	661	166	17	26	41	2901
1.00 - 1.49	.	.	42	304	187	299	85	19	33	27	996
1.50 - 1.99	.	.	.	11	103	164	58	14	12	12	374
2.00 - 2.49	.	.	.	.	18	81	33	8	3	3	146
2.50 - 2.99	.	.	.	.	.	11	19	10	1	1	42
3.00 - 3.49	.	.	.	.	.	.	1	4	1	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	636	1138	1702	1611	1142	1733	527	88	80	145	

AVE HS(M) = 0.55 LARGEST HS(M) = 3.81 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 100

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.7	0.5	1.1	0.5	0.6	0.7	0.4	0.4	0.5	0.3	0.5	0.5
1957	0.5	0.8	0.6	0.6	0.5	0.5	0.7	0.5	0.5	0.4	0.7	0.6	0.6
1958	0.4	0.4	0.5	0.7	0.6	0.6	0.7	0.7	0.4	0.4	0.5	0.4	0.5
1959	0.4	0.7	0.7	0.6	0.6	0.5	0.8	0.4	0.5	0.8	0.5	0.5	0.6
1960	0.5	0.7	0.5	0.8	0.8	0.6	0.7	0.5	0.5	0.3	0.4	0.4	0.6
1961	0.4	0.7	1.1	0.8	0.8	0.9	0.6	0.8	0.3	0.3	0.4	0.7	0.7
1962	0.6	0.7	0.5	0.8	0.4	0.6	0.7	0.7	0.4	0.4	0.6	0.4	0.6
1963	0.6	0.6	0.8	0.6	0.6	0.7	0.5	0.5	0.5	0.4	0.5	0.4	0.6
1964	0.6	0.5	0.8	0.7	0.5	0.6	0.7	0.7	0.5	0.5	0.5	0.7	0.6
1965	0.4	0.7	0.6	0.5	0.4	0.6	0.6	0.6	0.4	0.6	0.4	0.3	0.5
1966	0.5	0.7	0.5	0.6	0.7	0.6	0.8	0.7	0.7	0.4	0.4	0.5	0.6
1967	0.6	0.6	0.6	0.5	0.8	0.8	0.9	0.7	0.5	0.4	0.4	0.6	0.6
1968	0.4	0.1	0.4	0.2	0.4	0.3	0.2	0.1	0.1	0.4	0.3	0.4	0.3
1969	0.4	0.3	0.5	0.8	0.7	0.5	0.5	0.7	0.4	0.4	0.8	0.5	0.5
1970	0.4	1.1	0.9	0.7	0.5	0.6	0.7	0.8	0.5	0.8	0.4	0.5	0.7
1971	0.5	0.8	0.5	0.6	0.7	0.3	0.7	0.5	0.4	0.7	0.4	0.8	0.6
1972	0.8	0.6	0.7	0.7	1.0	1.4	0.9	0.8	0.2	0.4	0.6	0.6	0.7
1973	0.6	0.5	0.7	0.7	0.6	0.5	0.2	0.2	0.2	0.3	0.5	1.1	0.5
1974	0.5	0.7	0.6	0.6	0.4	0.2	0.1	0.1	0.1	0.2	0.2	0.4	0.3
1975	0.5	0.8	0.5	0.3	0.1	0.3	0.6	0.3	0.4	0.3	0.3	0.3	0.4
MEAN	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.5	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 100

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.6	2.5	1.7	3.0	1.4	1.6	1.4	1.0	2.6	3.1	1.1	1.8
1957	1.7	3.1	2.4	2.3	2.0	2.0	1.6	2.1	2.5	1.4	2.3	2.4
1958	2.7	2.5	2.7	2.5	2.6	1.7	1.2	2.3	3.1	1.8	2.1	3.0
1959	2.5	2.6	2.9	1.9	1.7	1.4	2.1	1.4	2.6	2.0	2.1	2.5
1960	2.2	3.0	2.5	2.2	2.1	1.6	2.7	1.5	2.8	1.8	1.5	2.0
1961	2.4	3.2	2.8	2.9	2.5	2.2	1.4	2.4	2.2	1.5	2.2	2.2
1962	2.7	2.1	2.3	2.7	1.4	1.6	2.0	2.3	1.8	1.5	3.8	2.4
1963	2.2	2.4	2.6	2.1	1.5	1.9	1.2	1.3	2.3	2.1	2.9	2.5
1964	2.9	3.1	2.3	2.4	2.1	2.2	2.0	1.8	2.3	3.1	2.7	2.5
1965	2.1	2.8	2.5	1.9	1.2	1.4	1.4	1.1	1.4	2.2	1.3	2.0
1966	3.2	3.1	2.5	2.2	2.2	2.8	1.6	1.6	2.4	1.6	2.0	2.0
1967	2.6	2.5	2.3	2.1	2.2	2.1	1.9	1.9	2.3	1.6	2.5	3.1
1968	2.8	1.2	2.7	2.0	1.7	1.3	0.9	0.5	0.4	2.1	2.6	2.8
1969	1.9	2.0	2.6	2.4	2.5	1.6	1.7	1.5	1.4	2.0	3.7	2.8
1970	1.6	3.4	2.6	2.2	2.4	1.8	1.7	2.0	1.3	3.0	2.3	2.7
1971	2.4	2.5	2.1	3.0	2.5	1.0	1.7	2.6	1.4	2.4	2.7	2.4
1972	2.3	2.9	2.4	2.1	3.6	3.0	2.1	1.8	1.7	1.9	2.3	2.3
1973	2.8	3.5	3.1	2.5	2.1	1.1	0.8	1.4	1.3	2.1	2.7	3.7
1974	1.9	2.6	1.6	2.3	2.1	0.8	0.5	0.5	0.9	1.4	1.8	2.8
1975	2.3	2.4	2.5	1.4	1.0	1.1	1.6	0.7	2.0	2.1	1.9	2.8

LARGEST HS(METRES) FOR STATION 100 = 3.8

STATION 101 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 44.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1158	1793	2236	1533	241	.	.	.	.	.	6961
0.50 - 0.99	.	.	148	8	.	.	.	.	.	.	156
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	1158	1793	2384	1541	241	0	0	0	0	0	

AVERAGE HS(M) = 0.19 LARGEST HS(M) = 0.70 ANGLE CLASS % = 7.1

STATION 101 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 44.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1824	3035	855	487	1887	4907	946	15	15	.	13971
0.50 - 0.99	.	758	4123	2397	1090	4784	1235	27	11	.	14425
1.00 - 1.49	.	.	171	990	727	1625	802	41	10	.	4366
1.50 - 1.99	.	.	.	23	254	787	227	54	5	.	1350
2.00 - 2.49	.	.	.	.	56	201	118	17	3	.	395
2.50 - 2.99	.	.	.	.	.	10	30	15	1	.	56
3.00 - 3.49	.	.	.	.	.	.	3	1	.	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	1824	3793	5149	3897	4014	12314	3361	170	45	0	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 3.23 ANGLE CLASS % = 34.6

STATION 101 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 44.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	523	463	.	.	847	537	379	229	183	136	3297
0.50 - 0.99	.	537	1043	80	100	347	661	78	215	333	2994
1.00 - 1.49	.	.	155	547	92	179	116	22	104	220	1435
1.50 - 1.99	.	.	.	61	261	201	80	6	20	53	682
2.00 - 2.49	.	.	.	.	56	325	68	10	11	20	510
2.50 - 2.99	.	.	.	.	3	54	95	15	5	8	180
3.00 - 3.49	.	.	.	.	.	.	15	20	.	.	35
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	523	1000	1198	688	1359	1643	1034	380	539	770	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.63 ANGLE CLASS % = 9.2

STATION 101 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 44.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	836	780	.	.	491	1196	1358	723	361	2046	7791
0.50 - 0.99	.	650	1844	172	61	578	568	497	431	1779	6580
1.00 - 1.49	.	.	159	865	284	196	179	75	160	410	2328
1.50 - 1.99	.	.	.	39	398	402	111	46	41	25	1062
2.00 - 2.49	.	.	.	.	66	306	90	10	15	11	498
2.50 - 2.99	.	.	.	.	1	42	65	5	.	11	124
3.00 - 3.49	.	.	.	.	.	.	11	5	.	10	26
3.50 - 3.99	.	.	.	.	.	.	.	6	.	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	836	1430	2003	1076	1301	2720	2382	1367	1008	4292	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 3.85 ANGLE CLASS % = 18.4

STATION 101 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 44.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1427	2217	2354	3069	1237	1302	814	.	.	.	12420
0.50 - 0.99	.	169	2067	3323	492	1464	617	.	.	.	8132
1.00 - 1.49	.	.	25	489	658	631	251	.	.	.	2054
1.50 - 1.99	.	.	.	1	116	343	75	.	.	.	535
2.00 - 2.49	.	.	.	.	6	42	10	.	.	.	58
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1427	2386	4446	6882	2509	3782	1767	0	0	0	

AVERAGE HS(M) = 0.53 LARGEST HS(M) = 2.47 ANGLE CLASS % = 23.2

STATION 101 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 44.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

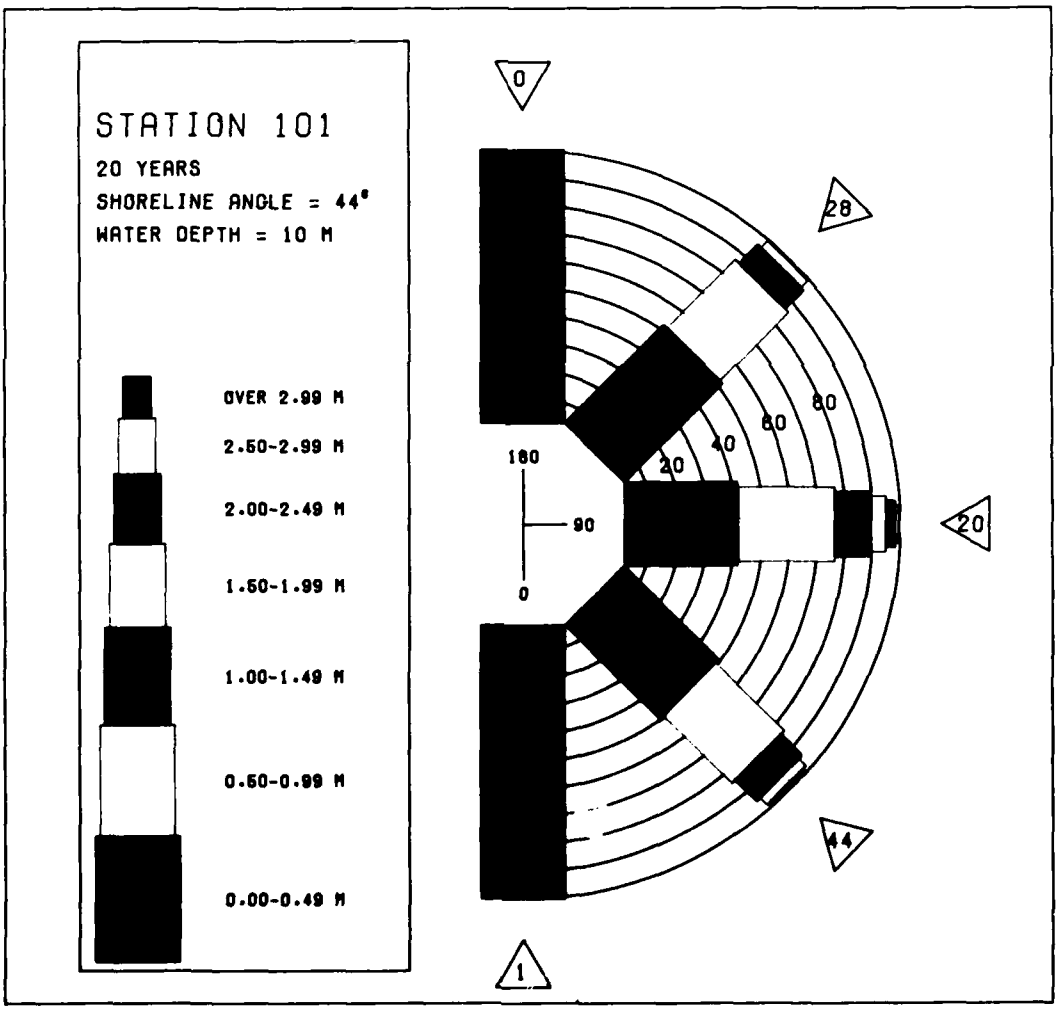
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3	.	.	.	.	.	.	.	.	.	3
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 101 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 44.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	577	829	544	509	470	794	349	96	55	218	4441
0.50 - 0.99	.	211	922	598	174	717	268	60	65	211	3226
1.00 - 1.49	.	.	51	289	176	263	135	13	27	63	1017
1.50 - 1.99	.	.	.	12	103	173	49	10	6	7	360
2.00 - 2.49	.	.	.	.	18	87	30	3	3	3	144
2.50 - 2.99	.	.	.	.	.	10	19	3	.	2	34
3.00 - 3.49	.	.	.	.	.	.	3	2	.	1	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	577	1040	1517	1408	941	2044	853	187	156	505	

AVE HS(M) = 0.58 LARGEST HS(M) = 3.85 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 101

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.7	0.4	0.8	0.5	0.6	0.5	0.2	0.4	0.8	0.5	0.4	0.5
1957	0.6	0.8	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.6	0.7	0.6	0.6
1958	0.5	0.5	0.5	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6
1959	0.4	0.8	0.8	0.6	0.6	0.4	0.9	0.4	0.6	0.9	0.6	0.6	0.6
1960	0.5	0.8	0.6	0.7	0.8	0.6	0.7	0.5	0.6	0.4	0.4	0.4	0.6
1961	0.4	0.7	0.9	0.7	0.8	0.8	0.5	0.8	0.5	0.4	0.4	0.6	0.7
1962	0.6	0.7	0.6	0.7	0.4	0.6	0.6	0.6	0.4	0.5	0.8	0.8	0.6
1963	0.7	1.0	0.8	0.6	0.6	0.7	0.5	0.5	0.7	0.7	0.6	0.5	0.7
1964	0.6	0.5	0.7	0.7	0.5	0.6	0.7	0.7	0.8	1.1	1.1	1.1	0.8
1965	0.9	1.0	0.8	0.7	0.4	0.5	0.6	0.4	0.6	0.7	0.5	0.3	0.6
1966	0.6	0.8	0.6	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6
1967	0.5	0.6	0.6	0.6	0.7	0.9	0.8	0.6	0.6	0.5	0.3	0.7	0.6
1968	0.5	0.2	0.4	0.2	0.3	0.3	0.2	0.1	0.1	0.4	0.3	0.4	0.3
1969	0.5	0.4	0.5	0.8	0.7	0.5	0.5	0.7	0.4	0.6	0.9	0.6	0.6
1970	0.4	0.8	0.9	0.7	0.5	0.6	0.6	0.8	0.4	1.0	0.6	0.5	0.6
1971	0.6	0.7	0.5	0.6	0.6	0.3	0.6	0.5	0.5	0.9	0.8	1.1	0.7
1972	0.7	0.7	0.7	0.6	1.0	1.3	0.9	0.6	0.3	0.7	0.6	0.6	0.7
1973	0.6	0.6	0.8	0.7	0.6	0.5	0.1	0.2	0.3	0.4	0.5	1.1	0.5
1974	0.5	0.7	0.5	0.5	0.3	0.2	0.1	0.1	0.2	0.3	0.2	0.4	0.3
1975	0.4	0.9	0.5	0.2	0.1	0.2	0.5	0.2	0.5	0.4	0.3	0.4	0.4
MEAN	0.5	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 101

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.4	1.6	2.5	1.6	1.4	1.1	0.9	2.4	2.8	1.3	1.5
1957	1.7	3.1	2.4	2.3	2.0	1.9	1.5	2.1	2.4	1.4	2.2	2.3
1958	2.7	2.4	2.8	2.4	2.3	1.3	1.1	2.1	2.8	2.0	2.1	3.1
1959	2.6	2.6	2.7	1.8	1.7	1.5	2.1	1.1	2.7	2.2	2.4	2.2
1960	2.3	3.0	2.4	2.2	2.2	1.3	2.6	1.2	2.4	1.8	1.9	2.1
1961	2.4	2.9	2.8	2.3	2.5	2.1	1.3	2.3	2.0	1.3	2.2	2.1
1962	2.5	2.2	2.3	2.7	1.6	1.4	2.1	2.4	1.9	1.7	3.3	2.4
1963	2.1	2.3	2.3	2.1	1.8	1.6	1.0	1.2	2.3	2.3	2.7	2.5
1964	2.7	3.0	2.2	2.1	2.7	2.4	1.7	1.9	2.7	2.9	2.7	2.2
1965	1.8	2.7	2.4	1.7	1.1	1.4	1.7	1.1	1.8	2.2	1.1	1.3
1966	3.3	3.0	2.5	1.7	2.0	3.1	1.9	1.5	2.2	1.6	1.8	1.9
1967	2.6	2.5	2.3	2.4	2.1	2.2	2.2	1.7	2.3	1.4	1.8	3.1
1968	2.6	1.2	2.7	1.6	1.5	1.6	0.9	0.7	0.4	2.1	2.0	2.5
1969	2.0	3.2	2.7	2.4	2.4	1.8	1.8	1.6	1.7	2.3	3.8	2.7
1970	1.8	3.1	2.3	2.3	2.4	1.9	1.7	1.8	1.1	3.2	2.4	2.8
1971	2.4	2.4	2.6	2.9	2.5	0.9	1.6	2.5	1.7	2.5	2.6	2.5
1972	2.2	2.9	2.3	2.0	3.0	2.9	2.1	1.7	1.2	2.0	2.3	2.4
1973	2.8	3.3	2.9	2.2	1.9	1.0	0.5	1.4	1.8	1.9	2.7	3.2
1974	1.8	2.5	1.4	2.2	2.0	0.6	0.3	0.5	1.1	1.8	2.0	2.8
1975	2.6	2.3	2.4	1.2	1.0	1.1	1.4	0.6	2.0	1.9	1.7	2.8

LARGEST HS(METRES) FOR STATION 101 = 3.8

STATION 102 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 29.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2168	3603	3396	2250	583	121	.	.	.	.	12121
0.50 - 0.99	.	106	1776	1261	338	.	.	.	.	.	3481
1.00 - 1.49	.	.	.	17	13	.	.	.	.	.	30
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2168	3709	5172	3528	934	121	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.49 ANGLE CLASS % = 15.6

STATION 102 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 29.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1078	1421	37	.	2289	6285	1463	268	20	.	12861
0.50 - 0.99	.	778	2503	913	802	4375	1447	73	11	.	10902
1.00 - 1.49	.	.	165	1011	604	1332	564	77	13	1	3767
1.50 - 1.99	.	.	.	22	294	651	189	39	5	1	1201
2.00 - 2.49	.	.	.	.	56	207	133	13	3	.	412
2.50 - 2.99	.	.	.	.	1	5	30	15	.	.	51
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1078	2199	2705	1946	4046	12855	3826	486	52	2	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 3.01 ANGLE CLASS % = 29.2

STATION 102 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 29.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	497	410	.	.	836	1495	879	37	208	236	4598
0.50 - 0.99	.	434	908	54	59	622	270	49	237	402	3035
1.00 - 1.49	.	.	121	470	70	164	32	18	82	225	1182
1.50 - 1.99	.	.	.	42	236	140	35	5	18	49	525
2.00 - 2.49	.	.	.	.	41	210	47	.	8	13	319
2.50 - 2.99	.	.	.	.	1	49	59	13	3	6	131
3.00 - 3.49	.	.	.	.	.	.	15	10	.	.	25
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	497	844	1029	566	1243	2680	1337	132	557	931	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.61 ANGLE CLASS % = 9.8

STATION 102 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 29.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1408	1890	864	309	725	1213	1403	703	345	1979	10839
0.50 - 0.99	.	508	2997	2796	539	1623	1088	479	453	1832	12315
1.00 - 1.49	.	.	94	894	824	906	480	87	169	475	3929
1.50 - 1.99	.	.	.	17	347	747	205	44	30	18	1408
2.00 - 2.49	.	.	.	.	46	246	87	13	32	23	447
2.50 - 2.99	.	.	.	.	1	22	56	5	.	10	94
3.00 - 3.49	.	.	.	.	.	.	5	1	.	11	17
3.50 - 3.99	.	.	.	.	.	.	.	6	.	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1408	2398	3955	4016	2482	4757	3324	1338	1029	4348	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.97 ANGLE CLASS % = 29.1

STATION 102 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 29.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	509	889	1639	3138	723	18	.	.	.	.	6916
0.50 - 0.99	.	.	13	183	41	.	.	.	.	.	237
1.00 - 1.49	.	.	.	.	20	.	.	.	.	.	20
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	509	889	1652	3321	784	18	0	0	0	0	

AVERAGE HS(M) = 0.19 LARGEST HS(M) = 1.24 ANGLE CLASS % = 7.2

STATION 102 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 29.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

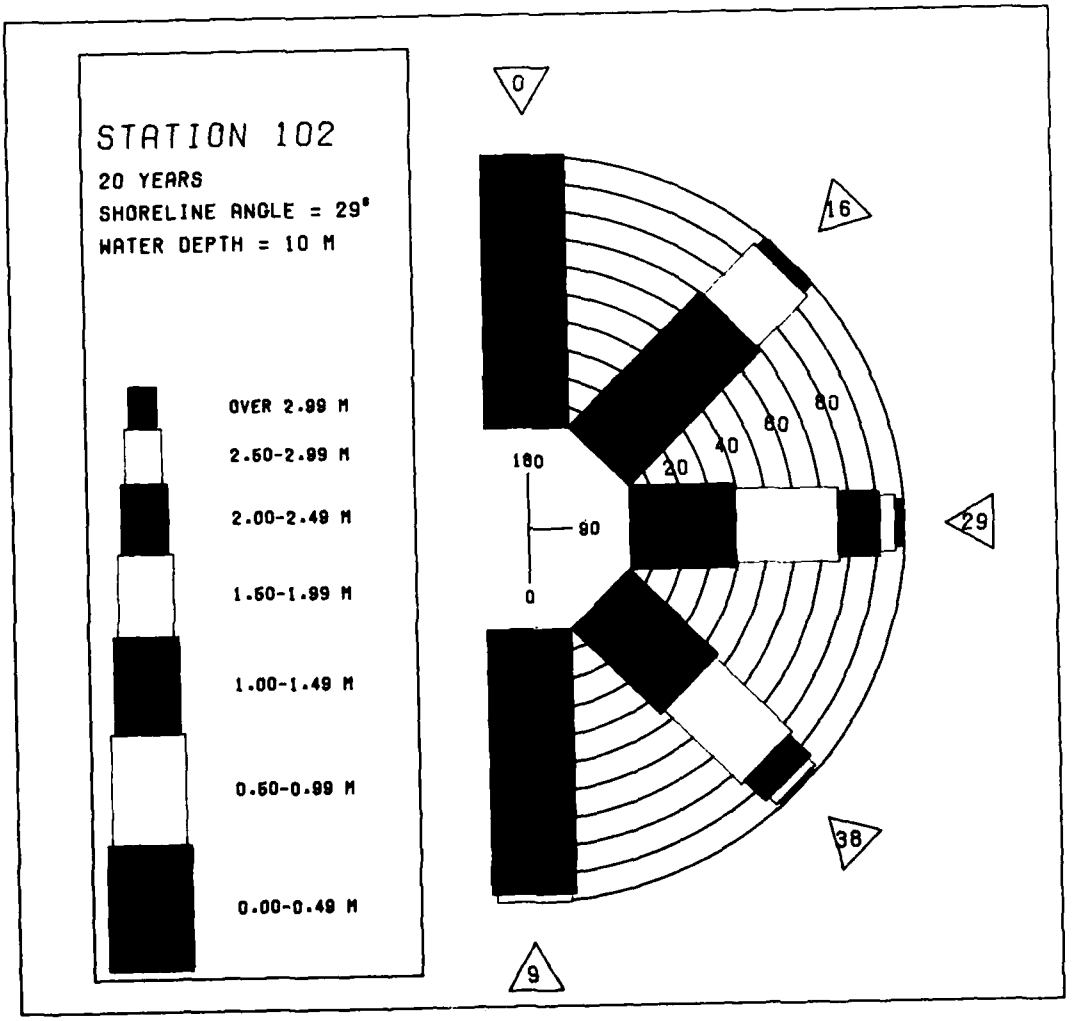
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 102 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 29.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	566	821	593	569	515	913	374	100	57	221	4729
0.50 - 0.99	.	182	819	520	178	662	280	60	70	223	2994
1.00 - 1.49	.	.	38	239	153	240	107	18	26	70	891
1.50 - 1.99	.	.	.	8	67	154	43	8	5	7	312
2.00 - 2.49	.	.	.	.	14	66	26	2	4	3	115
2.50 - 2.99	.	.	.	.	.	7	14	3	.	1	25
3.00 - 3.49	.	.	.	.	.	.	2	1	.	1	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	566	1003	1450	1336	947	2042	846	192	162	526	

AVE HS(M) = 0.53 LARGEST HS(M) = 3.97 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 102

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.6	0.4	0.7	0.4	0.6	0.5	0.2	0.4	0.8	0.5	0.4	0.5
1957	0.5	0.7	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.6	0.6	0.6	0.6
1958	0.4	0.4	0.5	0.7	0.6	0.5	0.6	0.6	0.6	0.6	0.4	0.4	0.5
1959	0.4	0.7	0.7	0.5	0.6	0.4	0.9	0.4	0.6	0.8	0.6	0.5	0.6
1960	0.5	0.7	0.5	0.7	0.7	0.5	0.6	0.4	0.6	0.3	0.4	0.4	0.5
1961	0.3	0.7	0.9	0.6	0.7	0.7	0.5	0.8	0.5	0.4	0.4	0.6	0.6
1962	0.5	0.6	0.6	0.7	0.3	0.6	0.5	0.6	0.4	0.5	0.8	0.8	0.6
1963	0.6	1.0	0.7	0.5	0.6	0.7	0.5	0.5	0.7	0.7	0.5	0.4	0.6
1964	0.5	0.4	0.6	0.7	0.5	0.6	0.7	0.7	0.8	1.1	1.1	1.1	0.7
1965	0.8	1.0	0.8	0.7	0.3	0.5	0.5	0.4	0.5	0.7	0.5	0.3	0.6
1966	0.5	0.8	0.5	0.5	0.7	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.6
1967	0.5	0.5	0.6	0.5	0.6	0.9	0.7	0.6	0.6	0.4	0.3	0.6	0.6
1968	0.5	0.1	0.3	0.2	0.3	0.3	0.1	0.1	0.1	0.4	0.3	0.3	0.3
1969	0.5	0.4	0.4	0.7	0.7	0.5	0.5	0.6	0.4	0.5	0.9	0.5	0.6
1970	0.4	0.8	0.8	0.6	0.4	0.6	0.5	0.7	0.3	1.0	0.6	0.4	0.6
1971	0.5	0.6	0.4	0.5	0.6	0.3	0.6	0.5	0.5	0.9	0.8	1.1	0.6
1972	0.6	0.6	0.6	0.6	1.0	1.2	0.8	0.6	0.2	0.6	0.6	0.6	0.7
1973	0.6	0.5	0.7	0.6	0.5	0.4	0.1	0.2	0.3	0.3	0.4	1.0	0.5
1974	0.4	0.6	0.4	0.4	0.3	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.3
1975	0.4	0.9	0.4	0.2	0.1	0.2	0.5	0.2	0.4	0.4	0.3	0.4	0.4
MEAN	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 102

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.1	2.2	1.5	2.1	1.6	1.5	1.1	0.9	2.5	2.8	1.4	1.4
1957	1.8	3.1	2.4	2.0	1.7	1.9	1.5	2.0	2.3	1.4	2.1	2.1
1958	2.6	2.3	2.8	2.6	2.2	1.3	1.0	2.0	2.4	2.1	1.9	3.1
1959	2.4	2.5	2.5	1.6	1.4	1.2	2.1	1.0	2.6	2.3	2.4	2.1
1960	2.3	2.9	2.3	2.0	2.2	1.2	2.2	1.1	2.3	1.8	1.9	2.0
1961	2.4	2.9	2.9	2.7	2.6	2.0	1.3	2.3	2.0	1.3	2.0	2.0
1962	2.4	2.1	2.2	2.6	1.5	1.4	2.1	2.3	1.9	1.7	3.3	2.4
1963	2.1	2.1	2.2	2.1	1.8	1.6	0.9	1.2	2.1	2.3	2.7	2.4
1964	2.6	2.9	1.9	2.1	2.8	2.3	1.5	1.9	2.4	2.8	2.5	2.2
1965	1.6	2.7	2.4	1.8	1.1	1.4	1.4	1.0	1.5	2.3	1.0	1.3
1966	3.1	2.6	2.2	1.5	1.9	3.2	1.8	1.5	2.1	1.3	1.7	1.8
1967	2.4	2.5	1.8	2.4	1.9	2.2	1.8	1.5	2.3	1.4	1.6	3.0
1968	2.7	1.2	2.3	1.5	1.4	1.6	0.9	0.6	0.4	2.1	1.8	2.4
1969	1.9	3.2	2.6	2.2	2.4	1.8	1.8	1.3	1.6	2.4	4.0	2.6
1970	1.7	2.9	2.3	2.3	2.4	1.9	1.5	1.6	1.0	3.2	2.5	2.7
1971	2.1	2.2	2.6	2.8	2.3	0.9	1.3	2.4	1.7	2.5	2.5	2.5
1972	2.2	2.8	2.3	2.0	2.9	2.8	2.1	1.6	1.1	1.6	2.2	2.4
1973	2.6	3.0	2.7	2.2	1.6	1.0	0.4	1.1	1.8	1.7	2.4	3.0
1974	1.8	2.3	1.3	1.9	1.8	0.[illegible]	0.3	0.5	1.1	1.8	2.0	2.7
1975	2.3	2.3	2.4	1.1	0.9	1.0	1.3	0.5	1.8	1.8	1.3	2.6

LARGEST HS(METRES) FOR STATION 102 = 4.0

STATION 103 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2500	4419	3550	2354	694	711	342	10	10	.	14590
0.50 - 0.99	.	369	2883	1959	764	554	99	.	3	.	6631
1.00 - 1.49	.	.	22	160	181	41	.	.	.	.	404
1.50 - 1.99	.	.	.	.	11	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2500	4788	6455	4473	1650	1306	441	10	13	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.67 ANGLE CLASS % = 21.6

STATION 103 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	708	838			2012	5764	1250	219	92	1	10883
0.50 - 0.99	.	716	1712	338	349	2991	1227	121	18	1	7503
1.00 - 1.49	.	.	157	866	422	1107	220	56	6	1	2965
1.50 - 1.99	.	.	.	32	301	627	164	15	5	.	1144
2.00 - 2.49	.	.	.	.	53	193	121	18	1	.	386
2.50 - 2.99	.	.	.	.	1	15	32	18	.	.	66
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	708	1554	1869	1256	3138	10697	3152	447	124	2	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 2.91 ANGLE CLASS % = 23.0

STATION 103 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	583	479			639	1216	723	73	165	215	4093
0.50 - 0.99	.	515	1211	54	46	537	222	58	189	400	3232
1.00 - 1.49	.	.	130	607	111	155	35	18	107	217	1380
1.50 - 1.99	.	.	.	41	263	116	25	3	11	42	511
2.00 - 2.49	.	.	.	.	53	239	34	1	6	10	343
2.50 - 2.99	.	.	.	.	3	42	59	6	5	6	121
3.00 - 3.49	.	.	.	.	.	.	17	6	.	5	28
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	583	994	1341	702	1115	2305	1125	168	484	895	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.85 ANGLE CLASS % = 9.7

STATION 103 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	944	1194	53		937	1327	1497	568	263	1712	8495
0.50 - 0.99	.	631	2691	1059	131	1430	1036	459	390	1692	9518
1.00 - 1.49	.	.	145	1610	785	621	465	87	184	549	4446
1.50 - 1.99	.	.	.	56	550	631	200	41	53	30	1561
2.00 - 2.49	.	.	.	.	92	456	92	23	32	25	720
2.50 - 2.99	.	.	.	.	.	35	59	5	.	6	105
3.00 - 3.49	.	.	.	.	.	1	8	1	.	10	20
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	944	1825	2889	2725	2495	4501	3357	1186	922	4024	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 3.99 ANGLE CLASS % = 24.9

STATION 103 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	872	1596	2171	2934	867	571	.	.	.	.	9011
0.50 - 0.99	.	25	1103	3447	244	25	1	.	.	.	4845
1.00 - 1.49	.	.	.	314	147	8	.	.	.	.	469
1.50 - 1.99	.	.	.	.	17	.	.	.	.	.	17
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	872	1621	3274	6695	1275	604	1	0	0	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 1.82 ANGLE CLASS % = 14.4

STATION 103 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

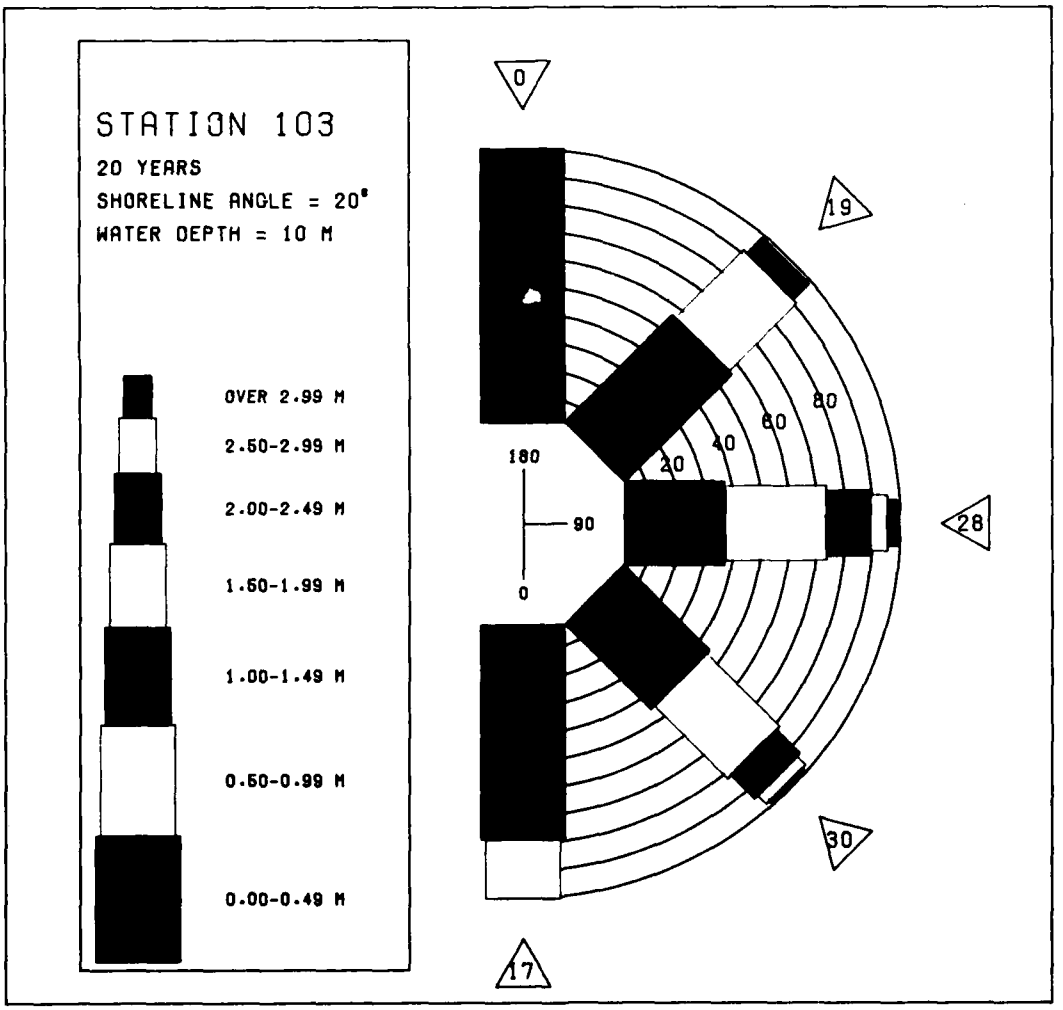
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 103 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	560	852	577	528	515	959	381	87	53	192	4704
0.50 - 0.99	.	225	960	686	153	553	261	63	60	209	3170
1.00 - 1.49	.	.	45	357	164	193	82	16	30	76	963
1.50 - 1.99	.	.	.	13	114	137	40	5	7	7	323
2.00 - 2.49	.	.	.	.	19	88	24	4	4	3	142
2.50 - 2.99	.	.	.	.	.	9	15	3	.	1	28
3.00 - 3.49	.	.	.	.	.	.	2	.	.	1	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	560	1077	1582	1584	965	1939	805	178	154	489	

AVE HS(M) = 0.57 LARGEST HS(M) = 3.99 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 103

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.6	0.4	0.7	0.5	0.6	0.5	0.2	0.4	0.9	0.5	0.4	0.5
1957	0.6	0.7	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.7	0.6	0.6	0.6
1958	0.5	0.4	0.5	0.7	0.6	0.5	0.5	0.6	0.6	0.7	0.5	0.5	0.6
1959	0.4	0.7	0.7	0.5	0.6	0.4	0.9	0.3	0.7	0.9	0.7	0.6	0.6
1960	0.5	0.7	0.6	0.6	0.7	0.6	0.7	0.5	0.7	0.4	0.5	0.4	0.6
1961	0.4	0.7	0.9	0.6	0.8	0.7	0.5	0.8	0.5	0.5	0.5	0.6	0.6
1962	0.6	0.7	0.6	0.6	0.4	0.6	0.6	0.6	0.5	0.5	0.8	0.9	0.6
1963	0.6	1.0	0.7	0.5	0.6	0.7	0.5	0.5	0.8	0.8	0.6	0.5	0.7
1964	0.5	0.4	0.6	0.7	0.6	0.7	0.7	0.7	0.9	1.2	1.1	1.1	0.8
1965	0.9	1.0	0.8	0.7	0.3	0.5	0.6	0.4	0.6	0.8	0.5	0.3	0.6
1966	0.6	0.8	0.6	0.5	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6
1967	0.5	0.6	0.6	0.5	0.7	1.0	0.6	0.6	0.7	0.5	0.3	0.6	0.6
1968	0.6	0.2	0.3	0.2	0.3	0.3	0.2	0.1	0.1	0.4	0.3	0.3	0.3
1969	0.6	0.5	0.4	0.7	0.7	0.5	0.4	0.7	0.5	0.7	0.9	0.5	0.6
1970	0.4	0.7	0.8	0.6	0.5	0.6	0.5	0.7	0.4	1.1	0.6	0.4	0.6
1971	0.5	0.6	0.4	0.5	0.6	0.3	0.6	0.5	0.6	1.0	0.8	1.2	0.6
1972	0.7	0.7	0.6	0.6	1.0	1.2	0.8	0.6	0.3	0.8	0.6	0.6	0.7
1973	0.6	0.6	0.7	0.6	0.5	0.5	0.1	0.2	0.3	0.4	0.4	1.0	0.5
1974	0.4	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.3	0.4	0.2	0.3	0.3
1975	0.4	0.9	0.4	0.2	0.1	0.2	0.5	0.2	0.5	0.4	0.3	0.4	0.4
MEAN	0.5	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 103

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.2	2.3	1.4	2.1	1.8	1.6	1.0	0.8	2.5	2.8	1.5	1.4
1957	1.9	3.0	2.4	1.9	1.7	2.2	1.6	2.0	2.6	1.5	2.0	2.1
1958	2.5	2.2	2.7	2.7	2.3	1.3	1.0	1.9	2.5	2.1	1.9	3.1
1959	2.4	2.5	2.4	1.6	1.6	1.1	2.2	1.0	2.6	2.5	2.4	2.0
1960	2.4	2.8	2.3	1.9	2.1	1.2	2.1	1.1	2.3	1.8	1.8	1.9
1961	2.4	2.9	2.9	2.6	2.6	2.0	1.4	2.2	1.9	1.5	1.9	2.0
1962	2.4	2.1	2.2	2.5	1.7	1.5	2.1	2.5	2.2	2.0	3.5	2.5
1963	2.1	2.6	2.2	2.2	2.0	1.6	0.9	1.3	2.5	2.4	2.6	2.5
1964	2.6	2.9	2.0	2.1	3.0	2.6	1.5	1.9	2.5	2.8	2.5	2.2
1965	1.5	2.7	2.4	1.8	1.2	1.5	1.4	1.2	2.1	2.5	1.2	1.2
1966	3.1	2.7	2.1	1.5	1.9	3.2	1.8	1.5	2.2	1.5	1.7	1.9
1967	2.2	2.5	1.8	2.3	2.1	2.3	1.6	1.4	2.3	1.5	1.5	2.8
1968	2.7	1.2	2.3	1.4	1.4	1.6	0.9	0.9	0.5	2.1	1.7	2.2
1969	2.0	3.3	2.5	2.2	2.3	1.7	1.7	1.4	2.0	2.7	4.0	2.5
1970	1.8	2.7	2.4	2.2	2.3	2.1	1.4	1.7	1.1	3.2	2.7	2.5
1971	2.0	2.1	2.6	2.8	2.2	1.0	1.2	2.4	1.8	2.7	2.4	2.6
1972	2.2	2.8	2.3	2.1	2.9	2.7	2.1	1.7	1.1	1.6	2.4	2.4
1973	2.5	2.9	2.6	2.1	1.5	1.1	0.4	1.1	2.0	1.6	2.3	3.0
1974	2.0	2.2	1.2	1.8	1.6	0.7	0.5	0.5	1.1	2.0	2.2	2.6
1975	2.2	2.4	2.3	1.1	0.9	1.1	1.2	0.7	2.1	2.0	1.2	2.6

LARGEST HS(METRES) FOR STATION 103 = 4.0

STATION 104 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2476	4413	3603	2414	742	826	338	13	18	.	14843
0.50 - 0.99	.	354	2814	1933	727	600	119	1	3	.	6551
1.00 - 1.49	.	.	18	157	157	35	.	.	.	.	367
1.50 - 1.99	.	.	.	.	15	.	.	.	.	.	15
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2476	4767	6435	4504	1641	1461	457	14	21	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.75 ANGLE CLASS % = 21.8

STATION 104 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	725	823	.	.	2048	5667	1206	207	80	.	10756
0.50 - 0.99	.	727	1692	330	359	2878	1137	124	22	1	7270
1.00 - 1.49	.	.	150	893	426	1059	323	53	13	1	2915
1.50 - 1.99	.	.	.	35	299	617	157	17	6	.	1131
2.00 - 2.49	.	.	.	.	51	181	116	17	.	.	365
2.50 - 2.99	.	.	.	.	3	13	29	18	.	.	63
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	725	1550	1842	1258	3186	10415	2968	436	118	2	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 2.91 ANGLE CLASS % = 22.5

STATION 104 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	566	477	.	.	600	1218	848	171	177	1291	5348
0.50 - 0.99	.	516	1220	56	51	544	232	58	186	581	3444
1.00 - 1.49	.	.	133	616	109	160	39	18	107	215	1397
1.50 - 1.99	.	.	.	34	261	119	39	3	10	42	508
2.00 - 2.49	.	.	.	.	58	253	39	1	6	10	367
2.50 - 2.99	.	.	.	.	1	44	66	6	5	6	128
3.00 - 3.49	.	.	.	.	.	.	17	6	.	5	28
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	566	993	1353	706	1080	2338	1280	266	492	2150	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 3.85 ANGLE CLASS % = 11.2

STATION 104 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	973	1197	44	.	953	1735	1392	462	253	643	7652
0.50 - 0.99	.	627	2707	1125	126	1409	1028	465	391	1502	9380
1.00 - 1.49	.	.	150	1651	780	602	465	85	183	550	4466
1.50 - 1.99	.	.	.	61	561	610	198	41	51	30	1552
2.00 - 2.49	.	.	.	.	90	446	94	23	34	23	710
2.50 - 2.99	.	.	.	.	.	34	53	5	.	8	100
3.00 - 3.49	.	.	.	.	.	1	8	1	.	10	20
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	973	1824	2901	2837	2510	4837	3238	1085	912	2766	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.99 ANGLE CLASS % = 23.9

STATION 104 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	857	1584	2188	2980	865	160	.	.	.	.	8634
0.50 - 0.99	.	30	1096	3441	248	20	1	.	.	.	4836
1.00 - 1.49	.	.	.	326	150	8	.	.	.	.	484
1.50 - 1.99	.	.	.	.	20	1	.	.	.	.	21
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	857	1614	3284	6747	1283	189	1	0	0	0	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 1.82 ANGLE CLASS % = 14.0

STATION 104 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

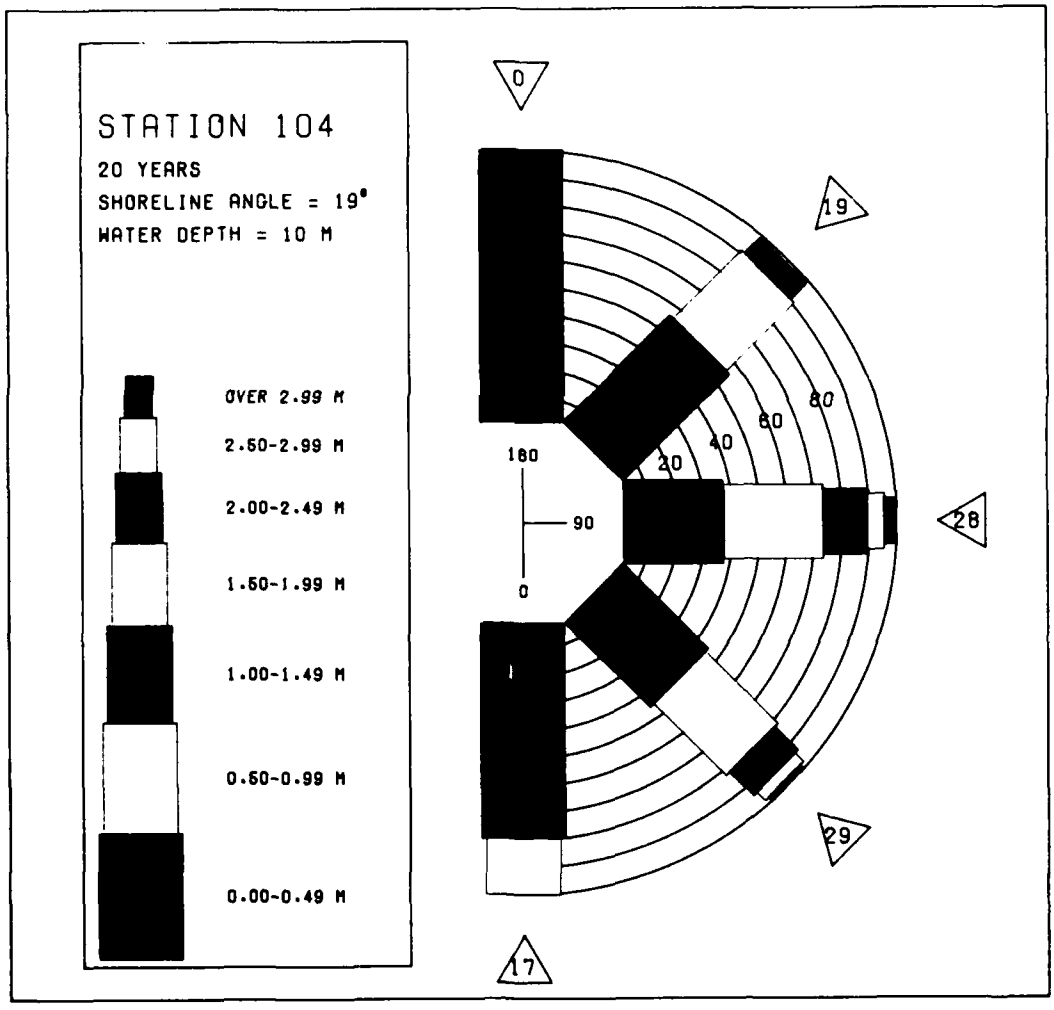
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 104 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 19.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	559	849	583	539	521	960	378	65	53	193	4720
0.50 - 0.99	.	225	953	668	151	545	252	65	60	208	3147
1.00 - 1.49	.	.	45	364	162	129	82	15	30	76	960
1.50 - 1.99	.	.	.	13	115	135	99	9	6	7	321
2.00 - 2.49	.	.	.	.	20	89	54	4	4	3	143
2.50 - 2.99	.	.	.	.	.	9	14	3	.	1	27
3.00 - 3.49	.	.	.	.	.	.	2	.	.	1	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	559	1074	1581	1604	969	1923	791	178	153	489	

AVE HS(M) = 0.56 LARGEST HS(M) = 3.99 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 104

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.6	0.4	0.7	0.5	0.6	0.5	0.2	0.4	0.9	0.5	0.4	0.5
1957	0.6	0.7	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.7	0.6	0.6	0.6
1958	0.5	0.4	0.5	0.7	0.6	0.5	0.5	0.6	0.6	0.7	0.5	0.5	0.6
1959	0.4	0.7	0.7	0.5	0.6	0.4	0.9	0.3	0.7	0.9	0.7	0.6	0.6
1960	0.5	0.7	0.6	0.6	0.7	0.6	0.7	0.5	0.7	0.4	0.5	0.4	0.6
1961	0.4	0.7	0.9	0.6	0.7	0.7	0.5	0.8	0.6	0.5	0.5	0.6	0.6
1962	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.6	0.5	0.5	0.8	0.9	0.6
1963	0.6	1.0	0.7	0.5	0.6	0.7	0.5	0.5	0.8	0.9	0.6	0.5	0.7
1964	0.5	0.4	0.6	0.7	0.6	0.7	0.7	0.7	0.9	1.2	1.1	1.1	0.8
1965	0.9	1.0	0.8	0.7	0.3	0.5	0.5	0.4	0.6	0.8	0.5	0.3	0.6
1966	0.6	0.8	0.6	0.5	0.7	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6
1967	0.5	0.6	0.6	0.5	0.7	1.0	0.6	0.6	0.7	0.5	0.3	0.6	0.6
1968	0.6	0.2	0.3	0.2	0.3	0.3	0.2	0.1	0.1	0.4	0.3	0.3	0.3
1969	0.6	0.5	0.4	0.7	0.7	0.5	0.4	0.7	0.5	0.7	0.9	0.5	0.6
1970	0.4	0.7	0.8	0.6	0.5	0.6	0.5	0.7	0.4	1.1	0.6	0.4	0.6
1971	0.5	0.6	0.4	0.5	0.6	0.3	0.6	0.5	0.6	1.0	0.8	1.2	0.6
1972	0.7	0.7	0.6	0.6	1.0	1.2	0.8	0.6	0.4	0.8	0.6	0.6	0.7
1973	0.6	0.6	0.7	0.6	0.5	0.5	0.1	0.2	0.3	0.4	0.4	1.0	0.5
1974	0.4	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.3	0.4	0.2	0.3	0.3
1975	0.4	0.9	0.4	0.2	0.1	0.2	0.5	0.2	0.5	0.4	0.3	0.4	0.4
MEAN	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 104

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.2	2.3	1.4	2.1	1.8	1.6	1.0	0.8	2.5	2.8	1.5	1.4
1957	1.9	3.0	2.4	1.9	1.7	2.2	1.7	2.0	2.6	1.5	2.0	2.0
1958	2.5	2.2	2.7	2.7	2.3	1.3	1.0	1.9	2.5	2.1	1.9	3.1
1959	2.4	2.4	2.4	1.6	1.6	1.1	2.2	1.0	2.6	2.5	2.4	2.0
1960	2.4	2.8	2.3	1.9	2.1	1.2	2.1	1.1	2.3	1.8	1.8	1.9
1961	2.4	2.9	2.9	2.6	2.6	2.0	1.4	2.2	1.9	1.5	1.9	2.0
1962	2.4	2.1	2.2	2.5	1.7	1.5	2.1	2.5	2.2	2.0	3.5	2.5
1963	2.1	2.6	2.2	2.2	2.0	1.6	0.9	1.3	2.5	2.5	2.6	2.5
1964	2.6	2.9	1.7	2.1	3.0	2.6	1.5	2.0	2.5	2.8	2.5	2.2
1965	1.5	2.7	2.4	1.8	1.2	1.5	1.4	1.2	2.1	2.5	1.2	1.2
1966	3.1	2.5	2.1	1.4	1.8	3.2	1.8	1.5	2.2	1.5	1.7	1.9
1967	2.2	2.5	1.8	2.3	2.1	2.3	1.6	1.4	2.3	1.5	1.5	2.8
1968	2.7	1.2	2.2	1.4	1.4	1.6	0.9	0.9	0.5	2.1	1.7	2.2
1969	2.0	3.3	2.5	2.2	2.3	1.7	1.7	1.5	2.0	2.7	4.0	2.5
1970	1.8	2.7	2.4	2.2	2.3	2.3	1.4	1.7	1.1	3.2	2.7	2.5
1971	2.0	2.1	2.6	2.8	2.2	1.0	1.2	2.4	1.8	2.7	2.4	2.6
1972	2.2	2.8	2.3	2.1	2.9	2.7	2.1	1.7	1.1	1.6	2.4	2.4
1973	2.5	2.9	2.6	2.1	1.5	1.1	0.4	1.1	2.0	1.6	2.3	3.0
1974	2.0	2.1	1.2	1.8	1.6	0.7	0.5	0.5	1.1	2.0	2.2	2.6
1975	2.2	2.4	2.3	1.1	0.9	1.1	1.2	0.7	2.1	2.0	1.2	2.6

LARGEST HS(METRES) FOR STATION 104 = 4.0

STATION 105 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 118.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 105 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 118.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 105 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 118.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2209	3631	2477	936	1613	2113	165	16	8	.	13152
0.50 - 0.99	.	184	2533	2200	886	2043	299	15	5	.	6215
1.00 - 1.49	.	.	6	530	888	1257	205	3	3	.	2892
1.50 - 1.99	.	.	.	5	246	776	154	8	5	.	1194
2.00 - 2.49	.	.	.	.	29	114	119	3	.	.	265
2.50 - 2.99	.	.	.	.	.	1	20	25	.	.	46
3.00 - 3.49	.	.	.	.	.	.	.	6	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2209	3815	5066	3671	3662	6304	962	60	22	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.73 ANGLE CLASS % = 25.8

STATION 105 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 118.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1849	2234			927	2876	718	56	27	198	8885
0.50 - 0.99	.	1148	3860	590	188	2376	614	34	131	229	9370
1.00 - 1.49	.	.	225	1634	527	631	374	82	119	73	3865
1.50 - 1.99	.	.	.	63	552	716	172	6	5	30	1544
2.00 - 2.49	.	.	.	.	171	742	234	6	5	.	1158
2.50 - 2.99	.	.	.	.	1	80	172	77	1	.	331
3.00 - 3.49	.	.	.	.	.	.	13	75	.	.	88
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1849	3382	4085	2287	2366	7621	2497	339	289	530	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.63 ANGLE CLASS % = 25.3

STATION 105 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 118.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1101	1314	5	.	2467	2313	1404	304	.	319	9227
0.50 - 0.99	.	643	1996	568	272	439	176	22	104	1	4221
1.00 - 1.49	.	.	112	641	364	261	66	15	23	.	1482
1.50 - 1.99	.	.	.	18	148	268	61	20	3	.	518
2.00 - 2.49	.	.	.	.	25	46	39	15	1	.	126
2.50 - 2.99	.	.	.	.	1	3	5	5	1	.	15
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1101	1957	2113	1227	3277	3330	1751	381	132	320	

AVERAGE HS(M) = 0.52 LARGEST HS(M) = 2.65 ANGLE CLASS % = 15.6

STATION 105 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 118.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

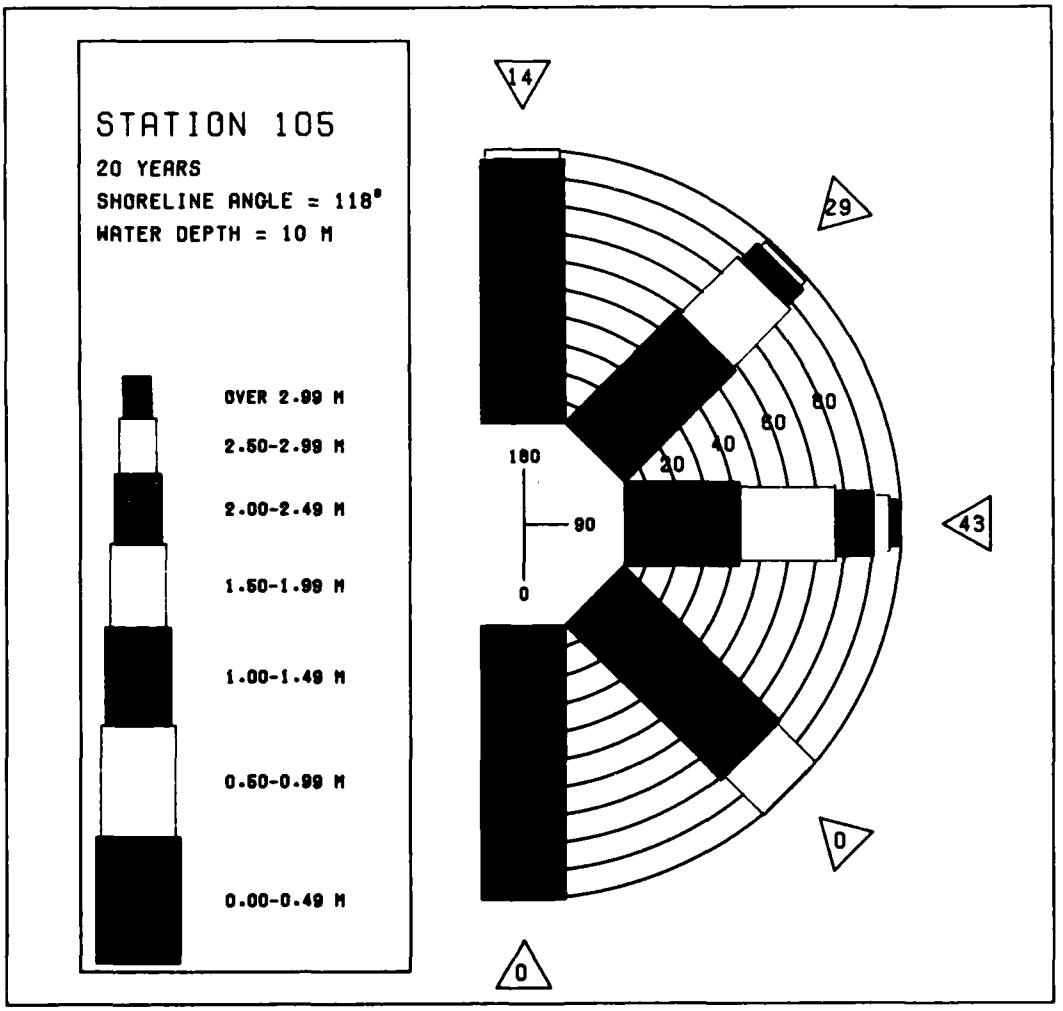
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2126	3116	3735	3225	2263	1767	.	.	.	.	16232
0.50 - 0.99	.	73	883	662	258	126	.	.	.	.	2007
1.00 - 1.49	.	.	1	5	22	.	.	.	.	.	28
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2126	3189	4624	3892	2543	1893	0	0	0	0	

AVERAGE HS(M) = 0.23 LARGEST HS(M) = 1.39 ANGLE CLASS % = 18.3

STATION 105 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 118.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	728	1029	621	416	727	907	228	36	3	51	4746
0.50 - 0.99	.	204	932	402	160	498	129	7	24	23	2379
1.00 - 1.49	.	.	34	281	180	235	64	10	14	7	825
1.50 - 1.99	.	.	.	8	94	176	38	3	1	3	323
2.00 - 2.49	.	.	.	.	22	90	39	2	.	.	153
2.50 - 2.99	.	.	.	.	.	8	19	10	.	.	37
3.00 - 3.49	.	.	.	.	.	.	1	8	.	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	728	1233	1587	1107	1183	1914	518	76	42	84	

AVE HS(M) = 0.48 LARGEST HS(M) = 3.73 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 105

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.7	0.6	1.0	0.4	0.4	0.6	0.2	0.3	0.2	0.2	0.6	0.5
1957	0.4	0.5	0.5	0.6	0.4	0.5	0.5	0.5	0.4	0.2	0.7	0.6	0.5
1958	0.5	0.6	0.4	0.6	0.5	0.7	0.8	0.7	0.3	0.1	0.4	0.3	0.5
1959	0.5	0.7	0.7	0.7	0.6	0.4	0.9	0.5	0.2	0.7	0.4	0.5	0.6
1960	0.5	0.7	0.6	0.7	0.7	0.6	0.8	0.5	0.5	0.2	0.3	0.3	0.5
1961	0.5	0.7	0.6	0.9	0.7	0.9	0.7	0.7	0.2	0.1	0.3	0.7	0.6
1962	0.6	0.7	0.5	0.8	0.3	0.5	0.6	0.4	0.3	0.2	0.4	0.3	0.5
1963	0.7	0.4	0.8	0.5	0.4	0.5	0.4	0.3	0.2	0.1	0.4	0.3	0.4
1964	0.6	0.6	0.8	0.7	0.4	0.5	0.8	0.6	0.3	0.4	0.4	0.7	0.6
1965	0.4	0.7	0.6	0.6	0.4	0.7	0.7	0.6	0.2	0.4	0.3	0.2	0.5
1966	0.4	0.7	0.6	0.7	0.6	0.5	0.7	0.6	0.5	0.3	0.3	0.3	0.5
1967	0.5	0.6	0.6	0.7	0.7	0.4	1.0	0.6	0.3	0.3	0.4	0.6	0.6
1968	0.2	0.2	0.6	0.2	0.3	0.3	0.2	0.1	0.0	0.3	0.4	0.4	0.3
1969	0.4	0.4	0.6	0.6	0.6	0.4	0.5	0.5	0.2	0.2	0.7	0.6	0.5
1970	0.4	0.9	0.9	0.7	0.4	0.6	0.7	0.8	0.3	0.4	0.3	0.5	0.6
1971	0.5	0.8	0.6	0.6	0.7	0.3	0.7	0.4	0.2	0.5	0.4	0.6	0.5
1972	0.8	0.5	0.7	0.8	0.7	1.0	0.8	0.5	0.2	0.3	0.5	0.6	0.6
1973	0.5	0.5	0.8	0.8	0.7	0.5	0.1	0.2	0.2	0.2	0.6	0.9	0.5
1974	0.5	0.7	0.6	0.6	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.3
1975	0.4	0.4	0.6	0.3	0.1	0.2	0.4	0.2	0.2	0.2	0.2	0.3	0.3
MEAN	0.5	0.6	0.6	0.7	0.5	0.5	0.6	0.5	0.3	0.3	0.4	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 105

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.2	2.1	3.1	1.3	1.5	1.4	1.1	3.1	2.3	1.0	2.0
1957	2.1	2.8	2.1	2.8	1.5	1.7	1.3	1.3	1.1	1.3	2.3	2.4
1958	2.9	2.6	2.1	2.6	2.3	1.9	1.3	1.9	2.6	1.8	1.8	2.9
1959	2.6	2.4	3.0	2.1	2.1	2.1	2.2	1.9	2.0	2.1	2.2	2.5
1960	2.3	3.2	3.0	2.4	2.2	1.9	3.0	1.4	3.4	1.4	1.7	2.1
1961	2.6	2.9	2.1	3.0	2.1	2.2	1.5	2.2	2.0	1.2	2.4	2.5
1962	3.0	2.3	2.6	2.9	1.0	1.5	2.1	2.2	1.4	1.1	3.1	2.0
1963	2.3	2.6	2.5	2.1	1.7	2.0	1.6	1.4	2.6	1.5	2.5	2.4
1964	2.8	3.0	2.6	2.3	1.5	1.0	2.4	2.0	3.6	2.8	2.8	2.2
1965	2.2	2.7	2.4	2.2	1.3	1.8	1.9	1.2	1.1	2.5	1.7	1.4
1966	3.3	3.5	3.0	2.1	2.0	2.7	2.0	1.6	1.8	2.0	2.2	2.2
1967	2.5	2.6	2.7	2.1	2.4	1.9	2.4	2.0	2.1	2.0	2.5	3.1
1968	1.4	1.4	3.1	1.8	1.3	1.3	0.9	0.6	0.2	1.7	2.4	2.9
1969	1.6	1.8	2.7	2.6	2.1	1.8	1.6	2.0	1.2	1.2	3.0	2.9
1970	1.9	3.2	2.7	2.5	2.4	1.9	2.0	2.0	1.3	2.6	2.1	3.0
1971	2.8	3.2	3.2	2.8	2.7	1.1	2.2	2.5	1.2	2.3	2.9	2.6
1972	2.6	3.0	2.6	2.2	2.2	3.1	2.0	1.7	1.7	2.3	2.8	2.6
1973	3.0	3.5	3.3	2.6	2.1	1.3	0.5	1.9	1.7	2.2	3.2	3.7
1974	2.3	2.9	2.1	2.4	2.3	0.7	0.5	0.6	0.9	1.2	1.7	2.4
1975	2.4	2.5	2.4	1.9	0.9	0.8	1.4	0.8	2.1	2.4	2.2	3.0

LARGEST HS(METRES) FOR STATION 105 = 3.7

STATION 106 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 106 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2000	3316	2292	925	1324	1950	119	.	.	.	11926
0.50 - 0.99	.	152	2506	1935	797	1406	100	5	.	.	6901
1.00 - 1.49	.	.	5	314	607	884	56	.	.	.	1866
1.50 - 1.99	.	.	.	3	106	205	17	.	.	.	331
2.00 - 2.49	.	.	.	.	6	5	.	.	.	.	11
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2000	3468	4803	3177	2840	4450	292	5	0	0	

AVERAGE HS(M) = 0.50 LARGEST HS(M) = 2.36 ANGLE CLASS % = 21.0

STATION 106 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1570	2077	.	.	691	787	150	.	8	.	5283
0.50 - 0.99	.	1024	3509	696	213	1743	351	15	5	.	7556
1.00 - 1.49	.	.	241	1654	742	942	354	11	3	.	3947
1.50 - 1.99	.	.	.	59	638	1076	253	10	5	.	2041
2.00 - 2.49	.	.	.	.	176	715	277	15	1	.	1184
2.50 - 2.99	.	.	.	.	.	73	143	66	.	.	282
3.00 - 3.49	.	.	.	.	.	.	10	73	.	.	83
3.50 - 3.99	.	.	.	.	.	.	.	5	3	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1570	3101	3750	2409	2460	5336	1568	195	25	0	

AVERAGE HS(M) = 0.95 LARGEST HS(M) = 3.69 ANGLE CLASS % = 20.4

STATION 106 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1098	1066			2056	2334	1678	325	32	289	8878
0.50 - 0.99	.	870	2008	167	189	1423	920	47	121	426	6171
1.00 - 1.49	.	.	222	936	162	285	251	102	220	147	2325
1.50 - 1.99	.	.	.	65	294	326	65	10	39	37	836
2.00 - 2.49	.	.	.	.	78	342	97	8	8	6	539
2.50 - 2.99	.	.	.	.	3	53	111	23	6	1	197
3.00 - 3.49	.	.	.	.	.	.	15	35	5	.	55
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1098	1936	2230	1168	2782	4763	3137	550	431	906	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 3.47 ANGLE CLASS % = 19.0

STATION 106 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1502	2091	1211	947	2251	3384	157	11	.	8	11562
0.50 - 0.99	.	284	1952	1209	643	1194	183	23	.	58	5546
1.00 - 1.49	.	.	39	326	319	443	68	13	.	1	1209
1.50 - 1.99	.	.	.	8	94	196	51	20	3	.	372
2.00 - 2.49	.	.	.	.	8	34	35	8	3	.	88
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1502	2375	3202	2490	3315	5252	494	75	6	67	

AVERAGE HS(M) = 0.49 LARGEST HS(M) = 2.60 ANGLE CLASS % = 18.8

STATION 106 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

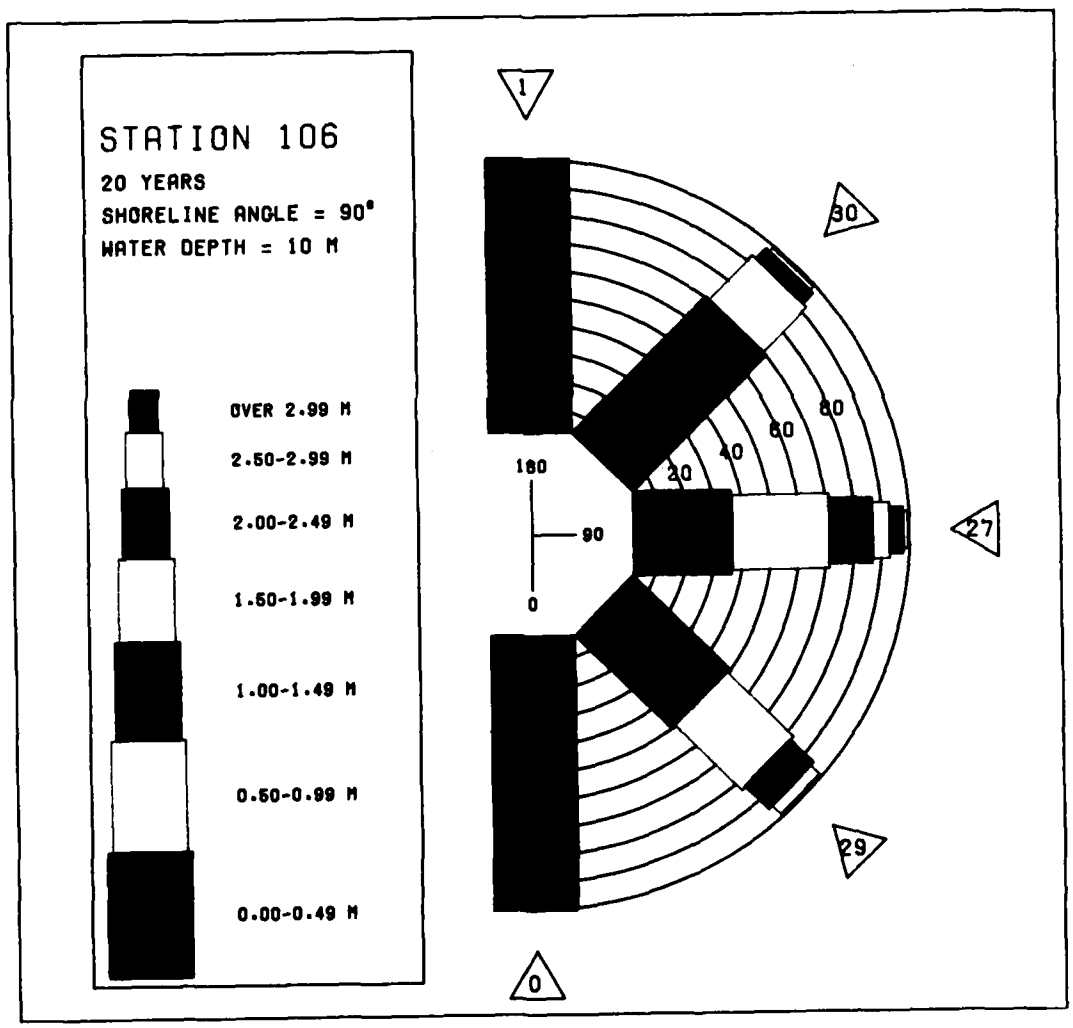
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	929	1440	2282	2604	585	.	.	.	.	.	7840
0.50 - 0.99	.	.	3	.	.	.	.	.	.	.	3
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	929	1440	2285	2604	585	0	0	0	0	0	

AVERAGE HS(M) = 0.09 LARGEST HS(M) = 0.52 ANGLE CLASS % = 7.8

STATION 106 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 90.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	710	999	578	447	690	845	210	33	4	29	4545
0.50 - 0.99	.	233	998	400	184	576	158	9	12	48	2618
1.00 - 1.49	.	.	50	323	183	255	73	12	22	14	932
1.50 - 1.99	.	.	.	13	115	180	38	4	4	3	357
2.00 - 2.49	.	.	.	.	27	109	41	3	1	.	181
2.50 - 2.99	.	.	.	.	.	12	25	9	.	.	46
3.00 - 3.49	.	.	.	.	.	.	2	10	.	.	12
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	710	1232	1626	1183	1197	1977	547	80	43	94	

AVE HS(M) = 0.53 LARGEST HS(M) = 3.69 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 106

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.8	0.6	1.0	0.4	0.4	0.6	0.3	0.3	0.2	0.2	0.6	0.5
1957	0.5	0.6	0.6	0.7	0.4	0.6	0.6	0.5	0.4	0.2	0.7	0.7	0.5
1958	0.5	0.6	0.5	0.7	0.6	0.7	0.8	0.7	0.4	0.2	0.4	0.4	0.5
1959	0.5	0.8	0.8	0.7	0.7	0.5	0.9	0.5	0.3	0.9	0.5	0.5	0.6
1960	0.5	0.8	0.6	0.8	0.7	0.6	0.8	0.5	0.5	0.2	0.4	0.3	0.6
1961	0.5	0.8	0.7	0.9	0.8	0.9	0.7	0.8	0.3	0.2	0.4	0.8	0.6
1962	0.6	0.7	0.5	0.9	0.3	0.5	0.6	0.5	0.3	0.2	0.5	0.4	0.5
1963	0.7	0.4	0.8	0.6	0.4	0.5	0.4	0.3	0.3	0.2	0.5	0.4	0.5
1964	0.7	0.6	0.8	0.7	0.4	0.6	0.8	0.6	0.4	0.5	0.5	0.8	0.6
1965	0.4	0.7	0.6	0.6	0.4	0.7	0.7	0.6	0.3	0.4	0.3	0.2	0.5
1966	0.4	0.8	0.6	0.7	0.7	0.6	0.7	0.6	0.6	0.3	0.3	0.4	0.5
1967	0.6	0.6	0.7	0.7	0.8	0.5	1.0	0.6	0.3	0.3	0.4	0.7	0.6
1968	0.2	0.2	0.6	0.2	0.3	0.4	0.2	0.1	0.1	0.4	0.4	0.4	0.3
1969	0.4	0.4	0.6	0.7	0.7	0.5	0.5	0.6	0.3	0.3	1.0	0.7	0.6
1970	0.4	0.9	1.0	0.7	0.5	0.7	0.8	0.9	0.3	0.5	0.4	0.5	0.6
1971	0.6	0.9	0.6	0.7	0.8	0.4	0.7	0.4	0.3	0.5	0.4	0.7	0.6
1972	0.8	0.5	0.7	0.8	0.8	1.1	0.9	0.5	0.2	0.3	0.6	0.6	0.7
1973	0.6	0.5	0.8	0.8	0.7	0.5	0.1	0.3	0.3	0.2	0.6	1.0	0.5
1974	0.5	0.7	0.6	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.5	0.4
1975	0.5	0.4	0.6	0.3	0.2	0.2	0.4	0.2	0.3	0.2	0.3	0.3	0.3
MEAN	0.5	0.6	0.7	0.7	0.5	0.6	0.6	0.5	0.3	0.3	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 106

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.9	2.3	2.2	3.1	1.7	1.6	1.5	1.1	3.0	2.9	1.0	2.0
1957	2.1	3.2	2.3	2.8	1.6	1.7	1.5	1.6	1.2	1.4	2.4	2.4
1958	2.9	2.6	2.2	2.6	2.4	1.9	1.3	2.0	2.7	1.9	1.8	3.2
1959	2.7	2.5	3.0	2.1	2.1	2.1	2.3	1.9	2.5	2.1	2.2	2.5
1960	2.3	3.3	3.0	2.5	2.2	1.9	3.1	1.4	3.5	1.4	2.0	2.3
1961	2.6	3.1	2.2	3.1	2.2	2.3	1.5	2.3	2.1	1.2	2.4	2.4
1962	3.0	2.3	2.6	2.9	1.1	1.5	2.1	2.4	1.7	1.2	3.1	2.0
1963	2.3	2.6	2.6	2.2	1.7	2.0	1.6	1.5	2.6	2.3	2.7	2.5
1964	2.8	3.2	2.6	2.3	1.5	1.5	2.3	2.0	3.7	2.8	2.8	2.2
1965	2.2	2.9	2.5	2.2	1.4	1.8	2.0	1.2	1.1	2.5	1.6	1.4
1966	3.3	3.5	3.1	2.1	2.1	3.1	1.9	1.6	1.8	2.0	2.2	2.2
1967	2.7	2.7	2.7	2.1	2.4	2.1	2.4	1.9	2.2	2.0	2.5	3.1
1968	2.0	1.4	3.2	1.8	1.4	1.7	0.9	0.6	0.3	1.9	2.4	3.0
1969	1.8	1.8	2.9	2.6	2.3	1.9	1.6	2.0	1.2	1.3	3.4	2.9
1970	1.9	3.2	2.7	2.5	2.6	1.8	2.1	2.0	1.4	3.2	2.1	3.2
1971	2.8	3.1	3.2	2.9	2.7	1.1	2.2	2.5	1.2	2.3	2.9	2.6
1972	2.6	3.2	2.6	2.2	2.7	3.2	2.1	1.7	1.8	2.3	2.8	2.6
1973	3.0	3.5	3.4	2.8	2.2	1.3	0.5	1.9	1.7	2.2	3.1	3.6
1974	2.3	2.9	2.0	2.5	2.3	0.7	0.5	0.6	1.0	1.2	1.7	2.6
1975	2.3	2.6	2.5	1.8	1.0	0.8	1.4	0.8	2.2	2.4	2.2	3.1

LARGEST HS(METRES) FOR STATION 106 = 3.7

STATION 107 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 107 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2903	4729	2590	954	1779	2424	203	.	.	.	15582
0.50 - 0.99	.	562	4240	2558	951	2061	343	10	1	.	10726
1.00 - 1.49	.	.	80	982	1086	1182	179	3	1	.	3513
1.50 - 1.99	.	.	.	17	373	761	176	1	.	.	1328
2.00 - 2.49	.	.	.	.	51	85	58	15	.	.	209
2.50 - 2.99	.	.	.	.	.	.	3	5	.	.	8
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2903	5291	6910	4511	4240	6513	962	34	2	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 2.69 ANGLE CLASS % = 31.4

STATION 107 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	975	1050	.	.	2027	2522	576	51	30	25	7256
0.50 - 0.99	.	817	2162	200	282	2522	764	15	106	.	6868
1.00 - 1.49	.	.	246	1040	220	256	424	104	160	.	2950
1.50 - 1.99	.	.	.	66	145	593	200	15	13	.	1232
2.00 - 2.49	.	.	.	.	126	578	201	22	5	.	932
2.50 - 2.99	.	.	.	.	.	73	142	7	1	.	223
3.00 - 3.49	.	.	.	.	.	.	17	6	1	.	24
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	975	1867	2408	1306	3000	7044	2324	346	317	25	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.55 ANGLE CLASS % = 19.6

STATION 107 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	973	946	1668	169	482	1998	1117	217	10	191	5934
0.50 - 0.99	.	793	195	771	49	900	349	71	85	535	4319
1.00 - 1.49	.	.	.	51	154	155	30	5	54	169	1533
1.50 - 1.99	.	.	.	.	287	332	32	.	34	41	727
2.00 - 2.49	.	.	.	.	59	265	83	1	11	11	450
2.50 - 2.99	.	.	.	.	3	41	62	30	6	5	167
3.00 - 3.49	.	.	.	.	.	.	13	25	5	.	43
3.50 - 3.99	.	.	.	.	.	.	.	.	3	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	973	1739	1863	991	1034	3311	1706	349	208	952	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.55 ANGLE CLASS % = 13.2

STATION 107 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1512	2101	1290	1242	1844	571	32	18	3	.	8613
0.50 - 0.99	.	273	2267	1603	900	1059	92	18	8	.	6220
1.00 - 1.49	.	.	27	400	463	610	124	46	.	.	1670
1.50 - 1.99	.	.	.	1	112	273	82	10	.	.	488
2.00 - 2.49	.	.	.	.	15	32	35	17	.	.	99
2.50 - 2.99	.	.	.	.	.	.	.	3	1	.	4
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1512	2374	3584	3246	3334	2545	375	112	12	0	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 2.63 ANGLE CLASS % = 17.1

STATION 107 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

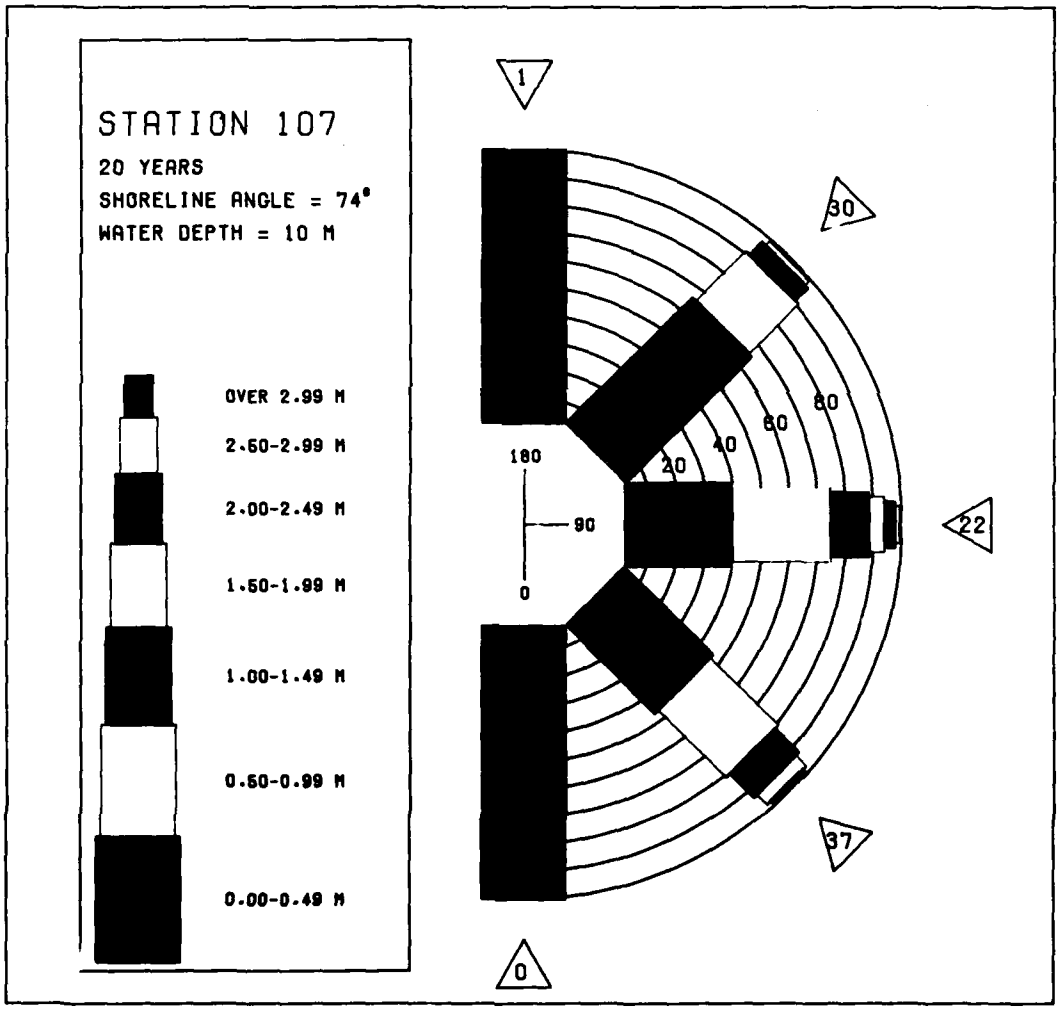
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	872	1445	2217	3157	333	.	.	.	.	.	8024
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	872	1445	2217	3157	333	0	0	0	0	0	

AVERAGE HS(M) = 0.10 LARGEST HS(M) = 0.48 ANGLE CLASS % = 8.0

STATION 107 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 74.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	723	1027	609	535	646	751	193	28	4	21	4537
0.50 - 0.99	.	244	1033	453	218	624	155	11	20	53	2811
1.00 - 1.49	.	.	54	319	162	570	75	15	21	16	962
1.50 - 1.99	.	.	.	13	111	186	50	2	4	4	370
2.00 - 2.49	.	.	.	.	25	98	37	5	1	1	167
2.50 - 2.99	.	.	.	.	.	11	22	11	1	.	45
3.00 - 3.49	.	.	.	.	.	.	3	8	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	723	1271	1696	1320	1192	1940	535	80	51	95	

AVE HS(M) = 0.55 LARGEST HS(M) = 3.55 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 107

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.8	0.6	1.0	0.5	0.4	0.6	0.3	0.4	0.3	0.3	0.6	0.5
1957	0.5	0.6	0.6	0.7	0.5	0.6	0.6	0.6	0.5	0.3	0.8	0.7	0.6
1958	0.5	0.5	0.5	0.7	0.6	0.7	0.8	0.7	0.4	0.2	0.4	0.4	0.6
1959	0.5	0.8	0.8	0.7	0.7	0.5	1.0	0.5	0.5	0.9	0.6	0.5	0.7
1960	0.5	0.7	0.6	0.8	0.7	0.6	0.8	0.5	0.6	0.3	0.4	0.3	0.6
1961	0.5	0.8	0.9	0.9	0.8	0.9	0.7	0.8	0.3	0.2	0.4	0.8	0.7
1962	0.6	0.7	0.5	0.8	0.4	0.6	0.6	0.5	0.4	0.3	0.5	0.4	0.5
1963	0.7	0.5	0.8	0.6	0.5	0.5	0.4	0.3	0.4	0.3	0.5	0.4	0.5
1964	0.7	0.6	0.8	0.8	0.5	0.6	0.8	0.6	0.5	0.6	0.6	0.8	0.6
1965	0.4	0.7	0.6	0.6	0.4	0.7	0.7	0.6	0.4	0.5	0.3	0.2	0.5
1966	0.5	0.8	0.6	0.7	0.7	0.6	0.7	0.6	0.6	0.4	0.3	0.4	0.6
1967	0.6	0.6	0.7	0.7	0.8	0.6	0.9	0.7	0.4	0.4	0.4	0.7	0.6
1968	0.3	0.2	0.5	0.2	0.3	0.4	0.2	0.2	0.1	0.4	0.4	0.4	0.3
1969	0.5	0.4	0.6	0.7	0.7	0.5	0.5	0.6	0.3	0.4	1.1	0.7	0.6
1970	0.5	0.9	1.0	0.7	0.5	0.7	0.7	0.9	0.3	0.7	0.4	0.5	0.7
1971	0.5	0.8	0.6	0.6	0.7	0.4	0.6	0.5	0.3	0.6	0.5	0.7	0.6
1972	0.8	0.6	0.7	0.8	0.9	1.2	0.9	0.5	0.2	0.4	0.6	0.7	0.7
1973	0.6	0.6	0.8	0.8	0.7	0.5	0.1	0.3	0.3	0.2	0.6	1.0	0.5
1974	0.5	0.7	0.6	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.2	0.5	0.3
1975	0.5	0.5	0.5	0.3	0.2	0.2	0.4	0.2	0.3	0.2	0.3	0.4	0.3
MEAN	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 107

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.8	2.5	2.0	3.1	1.8	1.6	1.3	1.1	2.7	3.0	0.9	2.0
1957	2.0	3.3	2.3	2.7	1.5	1.5	1.6	1.6	1.6	1.4	2.3	2.3
1958	2.9	2.6	2.2	2.5	2.3	1.9	1.2	2.0	2.8	1.9	1.9	3.2
1959	2.7	2.5	2.9	2.1	2.0	2.0	2.5	1.6	2.8	2.0	2.1	2.4
1960	2.2	3.3	2.8	2.4	2.2	1.8	2.9	1.4	3.3	1.4	2.0	2.1
1961	2.8	3.1	2.6	3.1	2.2	2.3	1.3	2.3	2.1	1.3	2.4	2.3
1962	2.7	2.3	2.5	2.8	1.1	1.5	2.0	2.5	1.9	1.3	3.0	2.3
1963	2.2	2.5	2.5	2.1	1.7	1.9	1.6	1.5	2.5	2.8	2.8	2.6
1964	2.8	3.2	2.5	2.3	1.6	2.0	2.3	2.1	3.5	2.8	2.7	2.2
1965	2.1	2.9	2.4	2.1	1.4	1.5	1.8	1.1	1.2	2.4	1.4	1.4
1966	3.3	3.3	3.0	2.1	2.1	3.3	1.8	1.4	1.7	1.9	2.2	2.1
1967	2.7	2.6	2.6	2.1	2.2	2.2	2.4	1.9	2.3	1.9	2.5	3.2
1968	2.2	1.4	3.0	1.7	1.4	1.9	0.9	0.5	0.4	2.0	2.4	2.8
1969	1.9	1.7	2.9	2.6	2.4	2.0	1.5	1.9	1.2	1.8	3.5	2.8
1970	2.0	3.2	2.7	2.4	2.6	1.8	2.0	2.0	1.3	3.5	1.8	3.2
1971	2.7	2.7	3.2	2.9	2.7	1.1	2.1	2.5	1.2	2.2	2.8	2.5
1972	2.5	3.1	2.5	2.2	2.9	3.1	2.1	1.6	1.6	2.2	2.8	2.5
1973	3.0	3.5	3.2	2.5	2.1	1.2	0.5	1.8	1.6	2.1	3.0	3.5
1974	2.2	2.8	1.8	2.4	2.2	0.7	0.5	0.6	1.1	1.1	1.8	2.7
1975	2.3	2.4	2.5	1.8	0.9	0.8	1.4	0.7	2.2	2.4	2.0	3.1

LARGEST HS(METRES) FOR STATION 107 = 3.5

STATION 108 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 108 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2900	4873	2804	1042	1680	2174	208	.	8	.	15689
0.50 - 0.99	.	547	4209	2590	982	2061	321	.	3	.	10713
1.00 - 1.49	.	.	65	918	1031	1230	249	3	1	.	3497
1.50 - 1.99	.	.	.	13	313	732	225	11	.	.	1294
2.00 - 2.49	.	.	.	.	39	88	100	18	.	.	245
2.50 - 2.99	.	.	.	.	.	3	1	5	.	.	9
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2900	5420	7078	4563	4045	6288	1104	37	12	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 2.69 ANGLE CLASS % = 31.5

STATION 108 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	958	995	.	.	2082	2505	556	56	23	23	7198
0.50 - 0.99	.	778	1957	179	289	2334	768	11	104	.	6420
1.00 - 1.49	.	.	261	987	219	699	349	102	160	.	2777
1.50 - 1.99	.	.	.	58	333	515	140	11	13	.	1070
2.00 - 2.49	.	.	.	.	112	527	162	27	5	.	833
2.50 - 2.99	.	.	.	.	1	68	136	71	1	.	277
3.00 - 3.49	.	.	.	.	.	.	15	54	1	.	70
3.50 - 3.99	.	.	.	.	.	.	.	3	1	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	958	1773	2218	1224	3036	6648	2126	335	308	23	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.55 ANGLE CLASS % = 18.7

STATION 108 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1002	894			715	2014	1112	215	15	181	6148
0.50 - 0.99	.	778	1671	162	51	636	373	75	88	642	4276
1.00 - 1.49	.	.	167	760	152	154	41	27	59	171	1531
1.50 - 1.99	.	.	.	56	306	242	35	3	54	42	718
2.00 - 2.49	.	.	.	.	56	273	80	5	11	11	436
2.50 - 2.99	.	.	.	.	1	39	78	29	5	5	157
3.00 - 3.49	.	.	.	.	.	.	11	25	8	.	44
3.50 - 3.99	.	.	.	.	.	.	.	1	3	.	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1002	1672	1838	984	1281	3358	1730	380	223	952	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 3.56 ANGLE CLASS % = 13.4

STATION 108 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1457	2164	1332	1326	1529	422	85	18	.	.	8333
0.50 - 0.99	.	280	2327	1724	959	1072	82	10	.	.	6454
1.00 - 1.49	.	.	42	424	492	681	126	25	.	.	1790
1.50 - 1.99	.	.	.	1	102	321	119	13	.	1	557
2.00 - 2.49	.	.	.	.	20	54	41	10	.	.	125
2.50 - 2.99	.	.	.	.	.	.	.	3	.	.	3
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1457	2444	3701	3475	3102	2550	453	79	0	1	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 2.60 ANGLE CLASS % = 17.3

STATION 108 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

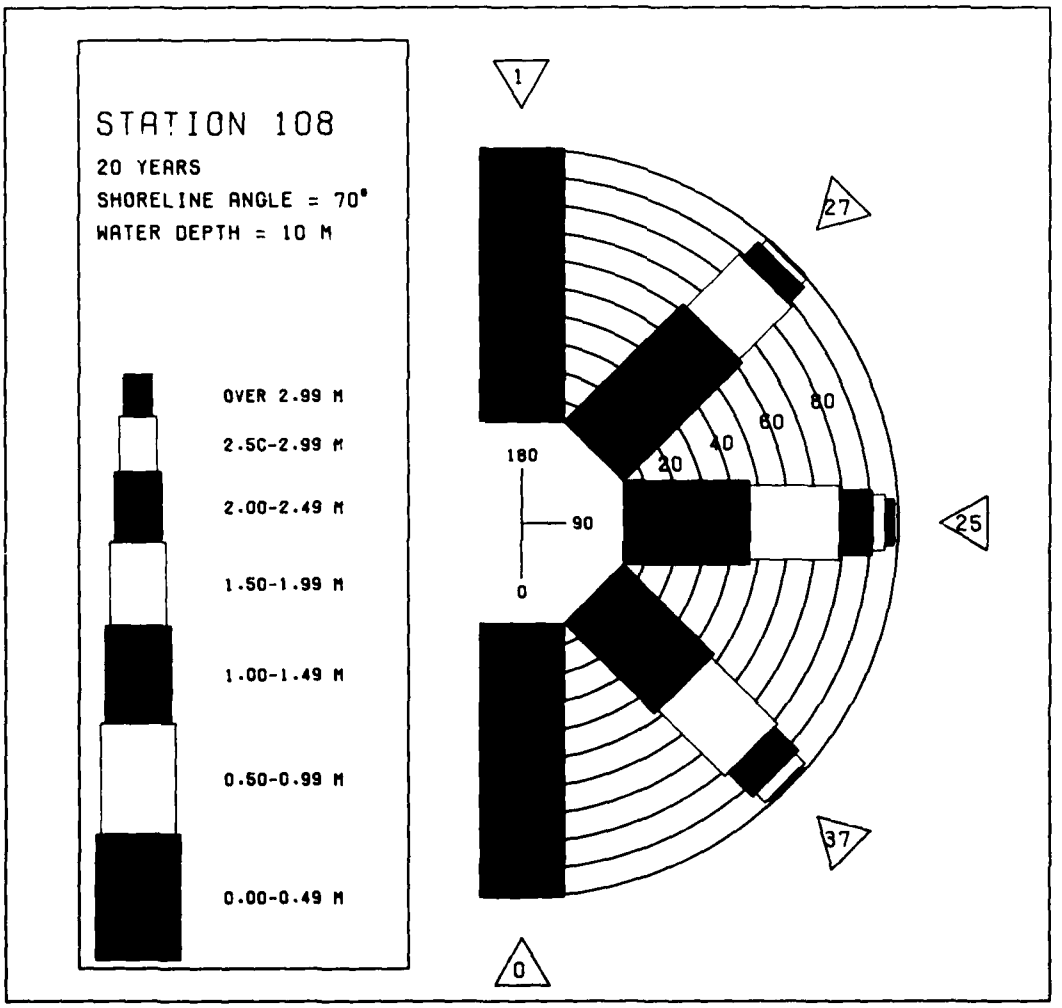
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	862	1391	2185	3254	314	.	.	.	.	.	8006
0.50 - 0.99	.	.	3	.	.	.	.	.	.	.	3
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	862	1391	2188	3254	314	0	0	0	0	0	

AVERAGE HS(M) = 0.10 LARGEST HS(M) = 0.54 ANGLE CLASS % = 8.0

STATION 108 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 70.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	718	1031	632	562	632	711	196	29	4	20	4535
0.50 - 0.99	.	238	1016	465	228	610	154	9	19	54	2793
1.00 - 1.49	.	.	53	309	189	276	76	15	22	17	957
1.50 - 1.99	.	.	.	13	105	181	52	4	4	4	363
2.00 - 2.49	.	.	.	.	22	94	38	6	1	1	162
2.50 - 2.99	.	.	.	.	.	11	21	10	.	.	42
3.00 - 3.49	.	.	.	.	.	.	2	8	1	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	718	1269	1701	1349	1176	1883	539	81	51	96	

AVE HS(M) = 0.54 LARGEST HS(M) = 3.56 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 108

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.2	0.9	0.5	1.0	0.4	0.4	0.6	0.2	0.4	0.4	0.3	0.5	0.5
1957	0.5	0.6	0.5	0.7	0.5	0.6	0.6	0.6	0.5	0.3	0.7	0.6	0.6
1958	0.5	0.5	0.5	0.7	0.6	0.7	0.8	0.7	0.5	0.3	0.4	0.4	0.5
1959	0.5	0.8	0.8	0.7	0.7	0.5	1.0	0.5	0.5	1.0	0.6	0.5	0.7
1960	0.5	0.7	0.6	0.8	0.7	0.6	0.8	0.5	0.6	0.3	0.4	0.3	0.6
1961	0.5	0.8	1.0	0.8	0.8	0.9	0.7	0.8	0.3	0.3	0.4	0.7	0.7
1962	0.6	0.7	0.5	0.8	0.4	0.6	0.6	0.5	0.4	0.3	0.5	0.3	0.5
1963	0.7	0.5	0.8	0.5	0.5	0.5	0.4	0.3	0.4	0.3	0.5	0.4	0.5
1964	0.6	0.5	0.8	0.8	0.5	0.6	0.8	0.6	0.5	0.6	0.6	0.8	0.6
1965	0.4	0.7	0.6	0.6	0.4	0.7	0.7	0.6	0.4	0.5	0.3	0.2	0.5
1966	0.5	0.8	0.6	0.6	0.7	0.6	0.7	0.6	0.6	0.4	0.4	0.4	0.6
1967	0.6	0.6	0.7	0.7	0.8	0.6	0.9	0.7	0.5	0.4	0.4	0.7	0.6
1968	0.3	0.1	0.5	0.2	0.3	0.4	0.2	0.2	0.1	0.5	0.4	0.4	0.3
1969	0.5	0.4	0.5	0.7	0.7	0.5	0.5	0.6	0.3	0.4	1.1	0.7	0.6
1970	0.5	0.9	0.9	0.7	0.5	0.6	0.7	0.9	0.3	0.8	0.4	0.5	0.6
1971	0.5	0.8	0.6	0.6	0.7	0.4	0.6	0.5	0.3	0.6	0.5	0.7	0.6
1972	0.8	0.6	0.7	0.8	0.9	1.2	0.9	0.5	0.3	0.4	0.6	0.7	0.7
1973	0.5	0.5	0.8	0.8	0.7	0.5	0.1	0.3	0.3	0.2	0.6	1.0	0.5
1974	0.5	0.7	0.6	0.6	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.3
1975	0.5	0.5	0.5	0.3	0.1	0.2	0.4	0.2	0.3	0.3	0.3	0.4	0.3
MEAN	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.5	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 108

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.9	2.5	2.0	3.0	1.8	1.6	1.3	1.1	2.7	3.0	0.9	2.0
1957	1.9	3.3	2.3	2.7	1.5	1.5	1.8	1.7	1.6	1.3	2.3	2.2
1958	2.7	2.6	2.2	2.4	2.3	1.7	1.2	2.0	2.8	1.9	2.1	3.2
1959	2.6	2.5	2.9	2.1	1.9	2.0	2.5	1.6	2.9	2.1	2.1	2.3
1960	2.2	3.3	2.8	2.4	2.2	1.8	2.9	1.3	3.3	1.3	2.0	2.1
1961	2.8	3.1	2.6	3.1	2.2	2.4	1.3	2.3	2.1	1.3	2.4	2.3
1962	2.7	2.3	2.5	2.8	1.1	1.4	1.8	2.5	2.0	1.3	3.0	2.3
1963	2.2	2.4	2.5	2.1	1.6	1.8	1.3	1.4	2.5	2.8	2.8	2.6
1964	2.8	3.2	2.3	2.3	1.8	2.0	2.1	2.2	3.5	2.8	2.7	2.2
1965	2.0	2.9	2.4	2.1	1.4	1.5	1.8	1.0	1.2	2.4	1.4	1.4
1966	3.3	3.3	3.0	2.1	2.1	3.3	1.8	1.4	1.7	1.9	2.2	2.1
1967	2.7	2.6	2.6	2.1	2.2	2.2	2.4	1.8	2.3	1.7	2.5	3.2
1968	2.3	1.4	3.0	1.7	1.4	2.0	0.9	0.5	0.4	2.0	2.2	2.8
1969	1.9	1.8	2.9	2.6	2.4	2.0	1.5	1.9	1.2	1.8	3.5	2.8
1970	2.0	3.1	2.6	2.3	2.6	1.9	2.0	2.0	1.3	3.5	1.8	3.1
1971	2.7	2.7	3.2	2.9	2.6	1.1	2.0	2.5	1.1	2.2	2.8	2.6
1972	2.5	3.1	2.4	2.2	2.9	3.0	2.1	1.6	1.6	2.2	2.6	2.5
1973	3.0	3.5	3.2	2.5	2.1	1.3	0.5	1.8	1.5	2.1	2.8	3.6
1974	2.2	2.7	1.8	2.4	2.2	0.6	0.5	0.6	1.1	1.1	1.8	2.7
1975	2.2	2.4	2.5	1.6	0.9	0.8	1.4	0.7	2.2	2.4	2.0	3.1

LARGEST HS(METRES) FOR STATION 108 = 3.6

STATION 109 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1175	1652	2056	1262	205	.	.	.	.	.	6350
0.50 - 0.99	.	.	111	15	.	.	.	.	.	.	126
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1175	1652	2167	1277	205	0	0	0	0	0	

AVERAGE HS(M) = 0.19 LARGEST HS(M) = 0.70 ANGLE CLASS % = 6.5

STATION 109 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2493	3956	913	494	1315	1471	342	22	.	.	11006
0.50 - 0.99	.	870	4630	3442	275	898	403	18	3	.	10539
1.00 - 1.49	.	.	123	1214	557	385	27	.	.	.	2306
1.50 - 1.99	.	.	.	32	244	419	8	.	.	.	703
2.00 - 2.49	.	.	.	.	59	208	39	.	.	.	306
2.50 - 2.99	.	.	.	.	.	15	15	.	.	.	30
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2493	4826	5666	5182	2450	3396	835	40	3	0	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 3.06 ANGLE CLASS % = 24.9

STATION 109 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	870	833	.	.	1887	2854	627	77	109	42	7299
0.50 - 0.99	.	790	1324	90	220	2128	821	39	174	.	5586
1.00 - 1.49	.	.	160	651	94	793	497	46	58	.	2299
1.50 - 1.99	.	.	.	61	232	407	236	25	10	.	971
2.00 - 2.49	.	.	.	.	70	354	116	23	6	.	569
2.50 - 2.99	.	.	.	.	3	49	142	20	1	.	215
3.00 - 3.49	.	.	.	.	.	.	18	22	.	.	40
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	870	1623	1484	802	2506	6585	2457	252	358	42	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 3.33 ANGLE CLASS % = 17.0

STATION 109 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1230	1221			934	1529	1699	251	480	1423	8767
0.50 - 0.99	.	775	1870	220	58	491	191	203	716	2753	7279
1.00 - 1.49	.	.	169	758	210	208	39	54	184	215	1837
1.50 - 1.99	.	.	.	53	323	342	53	.	32	80	883
2.00 - 2.49	.	.	.	.	66	285	102	6	10	32	501
2.50 - 2.99	.	.	.	.	.	34	63	8	5	20	150
3.00 - 3.49	.	.	.	.	.	.	10	10	1	6	35
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1230	1996	2039	1031	1601	2889	2177	541	1430	4529	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 3.51 ANGLE CLASS % = 19.5

STATION 109 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2043	3259	3323	5301	1052	145	540	557	1	.	16221
0.50 - 0.99	.	131	1750	2190	805	318	516	80	6	.	5796
1.00 - 1.49	.	.	20	225	357	568	138	11	6	.	1355
1.50 - 1.99	.	.	.	.	78	340	99	1	3	.	521
2.00 - 2.49	.	.	.	.	5	15	18	10	.	.	48
2.50 - 2.99	.	.	.	.	.	.	3	.	.	.	3
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2043	3390	5093	7716	2297	1416	1314	659	16	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 2.63 ANGLE CLASS % = 24.0

STATION 109 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

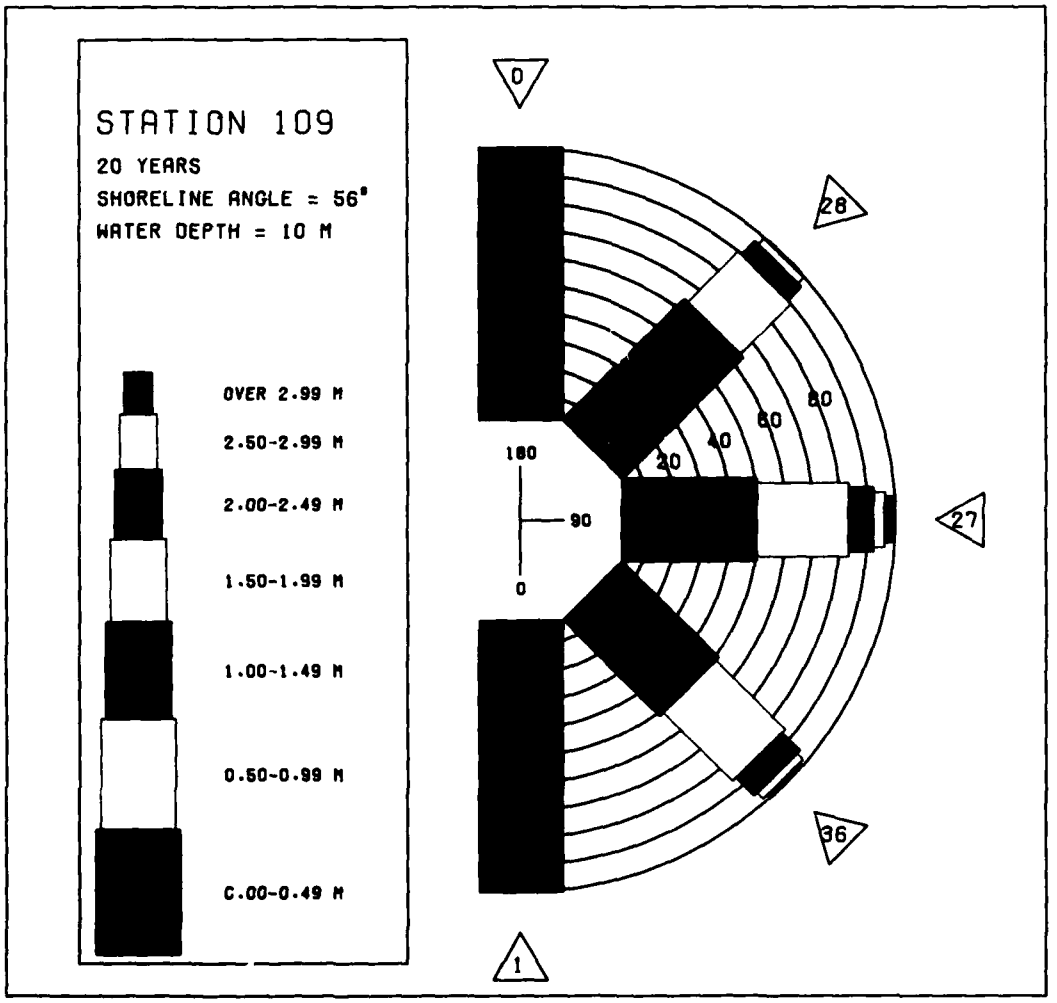
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	10	.	.	.	.	.	.	.	.	.	10
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	10	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 109 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 56.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	782	1092	629	705	539	600	321	90	59	146	4963
0.50 - 0.99	.	256	968	595	136	383	193	34	90	275	2930
1.00 - 1.49	.	.	47	285	122	198	70	11	24	21	778
1.50 - 1.99	.	.	.	14	88	150	39	2	4	8	305
2.00 - 2.49	.	.	.	.	20	86	27	4	1	3	141
2.50 - 2.99	.	.	.	.	.	9	24	2	.	2	37
3.00 - 3.49	.	.	.	.	.	.	3	4	.	.	7
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	782	1348	1644	1599	905	1426	677	147	178	455	

AVE HS(M) = 0.52 LARGEST HS(M) = 3.51 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 109

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.7	0.5	0.8	0.4	0.4	0.5	0.2	0.3	0.4	0.2	0.4	0.4
1957	0.5	0.6	0.5	0.7	0.4	0.5	0.5	0.4	0.5	0.4	0.7	0.6	0.5
1958	0.5	0.5	0.5	0.7	0.6	0.6	0.7	0.6	0.5	0.5	0.4	0.4	0.5
1959	0.4	0.7	0.7	0.6	0.7	0.4	0.8	0.5	0.5	0.9	0.6	0.5	0.6
1960	0.5	0.7	0.7	0.7	0.5	0.5	0.7	0.4	0.6	0.3	0.4	0.3	0.5
1961	0.5	0.7	0.8	0.7	0.7	0.7	0.5	0.7	0.3	0.3	0.4	0.7	0.6
1962	0.6	0.7	0.6	0.7	0.3	0.5	0.5	0.5	0.4	0.2	0.7	1.1	0.6
1963	0.9	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.6	0.7
1964	0.6	0.5	0.7	0.7	0.4	0.6	0.7	0.5	0.5	0.6	0.5	0.7	0.6
1965	0.4	0.7	0.5	0.6	0.4	0.6	0.6	0.4	0.4	0.6	0.5	0.3	0.5
1966	0.5	0.8	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.5
1967	0.5	0.5	0.6	0.6	0.7	0.6	0.8	0.6	0.5	0.3	0.3	0.6	0.5
1968	0.5	0.1	0.4	0.2	0.3	0.4	0.3	0.2	0.1	0.5	0.4	0.4	0.3
1969	0.5	0.4	0.5	0.7	0.7	0.5	0.4	0.6	0.4	0.4	0.9	0.6	0.5
1970	0.5	0.9	0.8	0.6	0.5	0.5	0.7	0.8	0.3	0.8	0.4	0.4	0.6
1971	0.5	0.7	0.5	0.5	0.6	0.3	0.5	0.5	0.3	0.6	0.6	1.1	0.6
1972	0.8	0.5	0.6	0.7	0.9	1.0	0.8	0.5	0.2	0.4	0.6	0.6	0.6
1973	0.7	0.6	0.8	0.7	0.6	0.5	0.1	0.2	0.2	0.2	0.5	0.9	0.5
1974	0.4	0.6	0.5	0.5	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.4	0.3
1975	0.4	1.0	0.6	0.3	0.1	0.2	0.3	0.1	0.3	0.2	0.2	0.3	0.3
MEAN	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 109

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.3	2.3	2.8	1.5	1.4	1.3	1.0	2.6	3.0	1.0	1.4
1957	1.9	3.0	2.3	2.6	1.4	1.5	1.6	1.6	2.0	1.3	2.2	2.2
1958	2.8	2.5	2.3	2.3	2.3	1.6	1.2	1.9	2.4	1.9	2.1	3.2
1959	2.4	2.3	2.8	2.1	1.9	1.3	2.6	1.1	2.7	2.1	2.0	2.1
1960	2.0	3.1	2.8	2.3	1.4	1.6	2.7	1.1	3.0	1.3	2.0	1.6
1961	2.9	2.6	2.8	2.9	2.1	2.3	1.3	2.2	1.7	1.3	2.1	2.1
1962	2.6	2.0	2.4	2.6	1.1	1.3	1.6	2.6	2.1	1.7	3.1	2.4
1963	2.1	2.2	2.5	2.2	1.6	1.4	1.1	1.0	2.4	2.9	2.3	2.5
1964	2.7	2.4	2.1	2.1	2.2	2.2	2.1	2.1	3.0	2.7	2.5	2.1
1965	2.0	2.9	2.0	2.1	1.4	1.5	1.5	1.0	1.3	2.4	1.1	1.1
1966	3.1	3.3	3.0	1.7	2.0	3.2	1.8	1.3	1.9	1.6	1.7	2.1
1967	2.5	2.2	2.3	2.0	2.3	2.1	2.2	1.3	2.3	1.3	1.6	3.0
1968	2.5	1.4	2.9	1.4	1.3	2.0	1.0	0.6	0.5	2.2	2.2	2.7
1969	2.0	2.4	2.9	2.3	2.4	2.0	1.2	1.7	1.1	2.0	3.4	2.8
1970	2.1	3.0	2.3	2.2	2.6	1.6	1.5	2.0	1.4	3.5	2.2	2.8
1971	2.4	2.4	3.1	2.8	2.5	1.2	1.9	2.1	1.1	2.1	2.5	2.5
1972	2.3	3.0	2.3	2.1	3.0	3.0	2.0	1.1	1.3	1.3	2.4	2.5
1973	3.0	3.3	3.1	2.4	2.1	1.2	0.5	1.5	1.6	2.0	2.5	3.4
1974	2.0	2.8	1.6	2.2	2.1	0.6	0.4	0.5	1.0	0.9	2.0	2.6
1975	2.2	2.6	2.4	1.3	0.9	0.7	1.2	0.5	2.1	2.0	1.3	2.9

LARGEST HS(METRES) FOR STATION 109 = 3.5

STATION 110 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 41.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1201	1933	2445	1286	94	.	.	.	.	.	6959
0.50 - 0.99	.	.	147	10	.	.	.	.	.	.	157
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1201	1933	2592	1296	94	0	0	0	0	0	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 0.70 ANGLE CLASS % = 7.1

STATION 110 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 41.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2099	3415	848	511	2683	4072	958	32	1	.	14619
0.50 - 0.99	.	870	3913	2636	585	2895	1101	29	6	.	12035
1.00 - 1.49	.	.	94	814	544	1141	296	25	5	.	2919
1.50 - 1.99	.	.	.	23	222	569	112	8	.	.	934
2.00 - 2.49	.	.	.	.	58	171	68	1	.	.	298
2.50 - 2.99	.	.	.	.	.	5	27	.	.	.	32
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2099	4285	4855	3984	4092	8853	2562	95	12	0	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 2.98 ANGLE CLASS % = 30.9

STATION 110 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 41.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	737	715			1187	1966	1887	225	159	326	7202
0.50 - 0.99	.	660	1122	88	94	597	253	49	355	343	3561
1.00 - 1.49	.	.	140	552	83	225	164	27	90	77	1358
1.50 - 1.99	.	.	.	68	244	231	150	15	17	30	755
2.00 - 2.49	.	.	.	.	49	249	87	23	11	5	424
2.50 - 2.99	.	.	.	.	3	46	109	29	1	8	196
3.00 - 3.49	.	.	.	.	.	.	11	10	.	1	22
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	737	1375	1262	708	1660	3314	2661	381	633	790	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 3.51 ANGLE CLASS % = 13.5

STATION 110 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 41.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1331	1557	53		660	321	557	675	431	687	6272
0.50 - 0.99	.	674	2424	612	164	414	672	352	549	3204	9065
1.00 - 1.49	.	.	179	990	458	482	207	83	246	239	2884
1.50 - 1.99	.	.	.	41	369	715	135	11	25	29	1325
2.00 - 2.49	.	.	.	.	63	325	124	10	17	44	583
2.50 - 2.99	.	.	.	.	.	30	73	13	6	11	133
3.00 - 3.49	.	.	.	.	.	.	13	15	3	11	42
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1331	2231	2656	1643	1714	2287	1781	1159	1277	4225	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 3.48 ANGLE CLASS % = 20.3

STATION 110 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 41.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1259	2161	2784	4452	1300	1043	908	.	.	.	13907
0.50 - 0.99	.	13	828	1978	580	792	821	.	.	.	5012
1.00 - 1.49	.	.	1	41	162	367	124	.	.	.	695
1.50 - 1.99	.	.	.	.	15	78	46	.	.	.	139
2.00 - 2.49	.	.	.	.	.	.	18	.	.	.	18
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1259	2174	3613	6471	2057	2280	1917	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 2.27 ANGLE CLASS % = 19.8

STATION 110 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 41.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

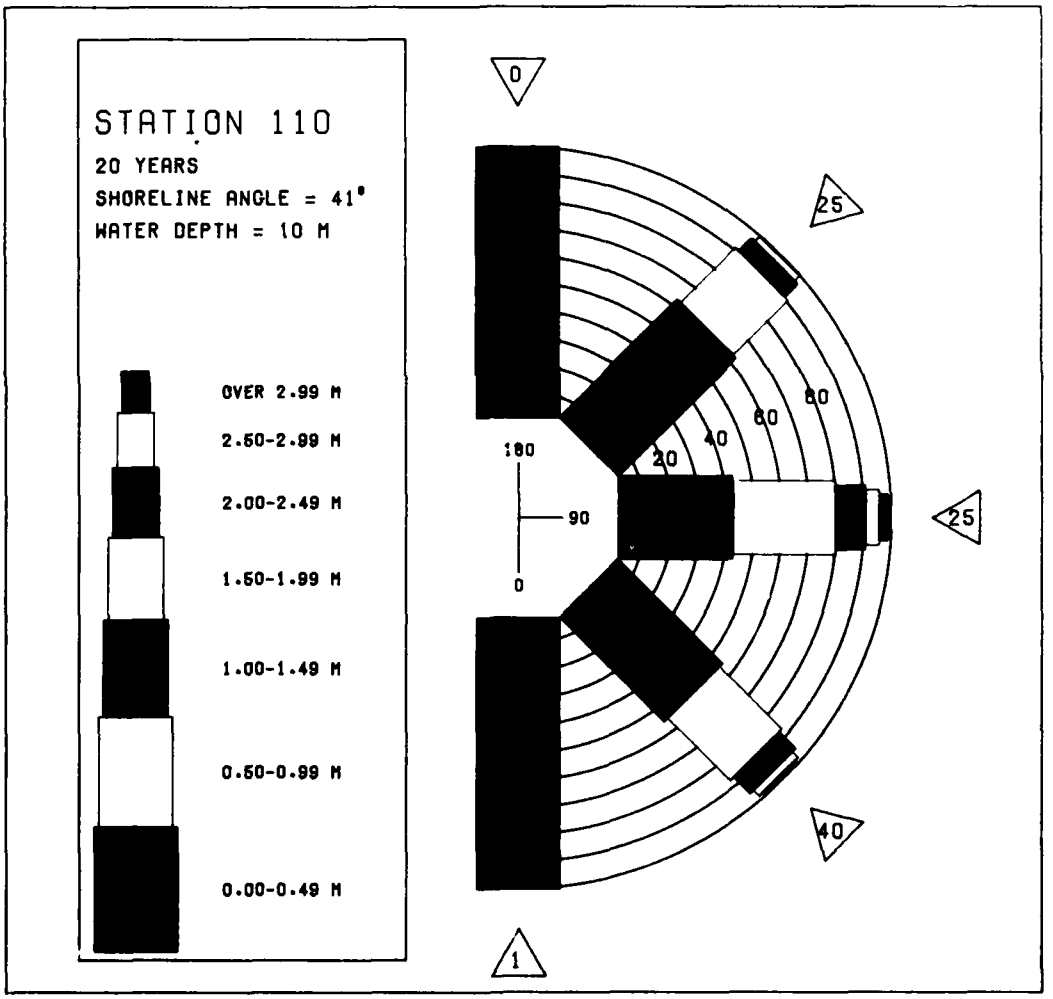
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 110 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 41.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	662	978	613	625	592	740	431	93	59	101	4894
0.50 - 0.99	.	221	843	532	142	469	264	43	91	354	2979
1.00 - 1.49	.	.	41	239	124	221	79	13	34	31	782
1.50 - 1.99	.	.	.	13	85	159	44	3	4	5	313
2.00 - 2.49	.	.	.	.	17	74	29	3	2	4	129
2.50 - 2.99	.	.	.	.	.	8	21	4	.	2	35
3.00 - 3.49	.	.	.	.	.	.	2	2	.	1	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	662	1199	1497	1409	960	1671	890	161	190	498	

AVE HS(M) = 0.53 LARGEST HS(M) = 3.51 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 110

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.7	0.4	0.8	0.5	0.6	0.4	0.2	0.4	0.5	0.3	0.4	0.4
1957	0.5	0.6	0.6	0.7	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.6
1958	0.5	0.4	0.5	0.7	0.5	0.5	0.6	0.5	0.5	0.6	0.4	0.4	0.5
1959	0.4	0.7	0.7	0.5	0.6	0.3	0.9	0.4	0.6	0.9	0.6	0.5	0.6
1960	0.5	0.7	0.6	0.6	0.5	0.5	0.6	0.4	0.6	0.4	0.4	0.4	0.5
1961	0.5	0.7	0.8	0.7	0.7	0.7	0.5	0.7	0.4	0.4	0.4	0.6	0.6
1962	0.5	0.6	0.6	0.7	0.3	0.5	0.5	0.5	0.4	0.3	0.7	1.2	0.6
1963	0.9	1.1	0.9	0.8	0.7	0.8	0.7	0.6	0.8	0.9	0.8	0.6	0.8
1964	0.5	0.5	0.7	0.7	0.4	0.6	0.6	0.5	0.6	0.6	0.5	0.7	0.6
1965	0.3	0.7	0.5	0.5	0.3	0.6	0.5	0.4	0.5	0.7	0.5	0.3	0.5
1966	0.5	0.8	0.5	0.5	0.6	0.5	0.6	0.4	0.5	0.4	0.4	0.5	0.5
1967	0.5	0.4	0.5	0.5	0.6	0.8	0.7	0.6	0.5	0.4	0.3	0.6	0.5
1968	0.5	0.1	0.4	0.2	0.3	0.4	0.2	0.2	0.2	0.5	0.4	0.3	0.3
1969	0.5	0.4	0.5	0.7	0.7	0.5	0.4	0.6	0.4	0.5	0.9	0.6	0.5
1970	0.4	0.9	0.8	0.5	0.4	0.6	0.6	0.7	0.3	0.9	0.4	0.4	0.6
1971	0.5	0.7	0.5	0.5	0.5	0.3	0.4	0.5	0.4	0.7	0.7	1.2	0.6
1972	0.8	0.6	0.6	0.6	0.9	1.0	0.8	0.4	0.3	0.7	0.6	0.6	0.6
1973	0.7	0.6	0.7	0.7	0.5	0.5	0.1	0.2	0.2	0.3	0.4	0.9	0.5
1974	0.4	0.6	0.5	0.5	0.3	0.1	0.1	0.1	0.2	0.3	0.2	0.4	0.3
1975	0.4	1.0	0.6	0.2	0.1	0.2	0.3	0.1	0.4	0.4	0.3	0.4	0.4
MEAN	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.6	0.5	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 110

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.4	2.0	2.6	1.6	1.5	1.2	0.9	2.6	3.1	1.1	1.4
1957	2.1	3.0	2.3	2.6	1.6	1.6	1.6	1.6	2.3	1.4	2.2	2.1
1958	2.7	2.4	2.3	2.5	2.4	1.5	1.1	1.8	2.5	1.9	2.1	3.1
1959	2.3	2.2	2.7	2.1	1.9	1.3	2.6	1.1	2.7	2.2	2.1	2.1
1960	2.0	3.0	2.6	2.3	1.4	1.4	2.6	1.0	2.9	1.2	2.0	1.9
1961	2.9	2.7	2.8	2.9	2.2	2.2	1.1	2.1	1.7	1.4	1.9	2.0
1962	2.3	2.0	2.3	2.6	1.2	1.2	1.6	2.7	2.2	1.8	3.3	2.4
1963	1.7	2.2	2.4	2.2	1.7	1.3	1.0	1.1	2.3	2.9	2.3	2.5
1964	2.7	2.5	1.9	2.1	2.5	2.4	1.9	2.2	3.0	2.8	2.5	2.1
1965	1.7	2.9	2.0	1.8	1.4	1.5	1.4	1.1	1.4	2.9	1.2	1.1
1966	3.1	3.1	2.6	1.5	2.0	3.3	1.8	1.3	1.9	1.5	1.7	1.8
1967	2.4	2.0	2.0	1.9	2.2	2.2	1.9	1.4	2.3	1.3	1.4	3.0
1968	2.7	1.4	2.6	1.3	1.3	2.1	1.0	0.6	0.5	2.2	2.0	2.3
1969	2.0	2.8	2.8	2.1	2.4	2.0	1.2	1.6	1.2	2.4	3.5	2.5
1970	2.2	2.8	2.3	2.2	2.5	1.7	1.4	1.9	1.4	3.5	2.6	2.7
1971	2.2	2.3	3.2	2.8	2.4	1.2	1.6	2.2	1.1	2.3	2.5	2.5
1972	2.2	2.9	2.0	2.1	3.1	2.9	2.1	1.1	1.0	1.4	2.3	2.5
1973	2.8	3.1	2.7	2.1	2.1	1.2	0.4	1.3	1.6	1.7	2.2	3.5
1974	1.8	2.7	1.2	2.1	2.0	0.6	0.4	0.5	1.1	1.7	2.2	2.6
1975	2.0	2.7	2.3	1.2	0.8	0.7	1.1	0.5	2.0	1.9	1.0	2.7

LARGEST HS(METRES) FOR STATION 110 = 3.5

STATION 111 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1168	1942	2476	1322	94	.	.	.	.	.	7002
0.50 - 0.99	.	.	124	11	.	.	.	.	.	.	135
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1168	1942	2600	1333	94	0	0	0	0	0	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 0.77 ANGLE CLASS % = 7.1

STATION 111 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1919	3151	836	521	2705	4009	520	15	.	.	13676
0.50 - 0.99	.	833	3670	2417	682	2953	780	29	8	.	11372
1.00 - 1.49	.	.	87	756	509	1170	343	35	3	.	2903
1.50 - 1.99	.	.	.	29	227	539	186	17	.	.	998
2.00 - 2.49	.	.	.	.	51	169	66	6	1	.	293
2.50 - 2.99	.	.	.	.	.	3	32	5	.	.	40
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1919	3984	4593	3723	4174	8843	1927	107	12	0	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 2.98 ANGLE CLASS % = 29.3

STATION 111 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	758	701	111	66	1024	1759	2219	212	176	302	7151
0.50 - 0.99	.	667	1113	594	77	629	479	55	321	335	3745
1.00 - 1.49	.	.	135	533	82	184	114	11	104	75	1238
1.50 - 1.99	.	.	.	59	256	224	85	8	16	29	679
2.00 - 2.49	.	.	.	1	42	213	92	10	11	6	385
2.50 - 2.99	.	.	.	.	3	32	94	23	3	8	163
3.00 - 3.49	.	.	.	.	.	.	10	11	.	3	24
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	758	1368	1248	659	1484	3041	3093	339	633	760	

AVERAGE HS(M) = 0.63 LARGEST HS(M) = 3.51 ANGLE CLASS % = 13.4

STATION 111 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1066	1078	.	.	847	1113	1652	906	605	667	7934
0.50 - 0.99	.	795	2014	225	106	910	1529	357	586	3134	9656
1.00 - 1.49	.	.	237	1013	285	470	326	83	265	237	2916
1.50 - 1.99	.	.	.	68	414	622	169	15	22	18	1328
2.00 - 2.49	.	.	.	.	102	475	155	6	17	54	809
2.50 - 2.99	.	.	.	.	.	66	77	17	5	8	173
3.00 - 3.49	.	.	.	.	.	.	17	11	1	13	42
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1066	1873	2251	1306	1754	3656	3925	1395	1502	4131	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 3.52 ANGLE CLASS % = 22.9

STATION 111 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1420	2542	2354	2780	1011	663	485	.	.	.	11255
0.50 - 0.99	.	152	2008	3025	275	995	172	.	.	.	6627
1.00 - 1.49	.	.	22	646	417	958	85	.	.	.	2128
1.50 - 1.99	.	.	.	1	114	381	66	.	.	.	562
2.00 - 2.49	.	.	.	.	5	41	11	.	.	.	57
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1420	2694	4384	6452	1822	3038	819	0	0	0	

AVERAGE HS(M) = 0.53 LARGEST HS(M) = 2.29 ANGLE CLASS % = 20.6

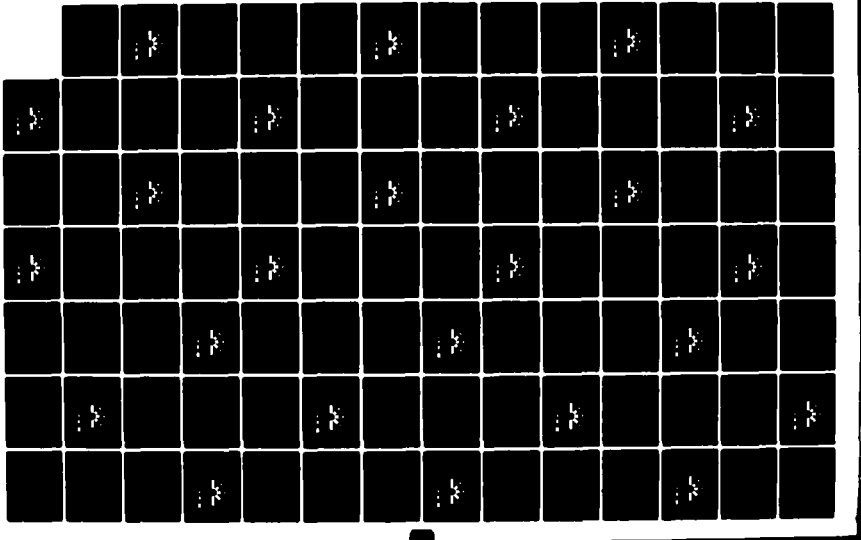
STATION 111 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

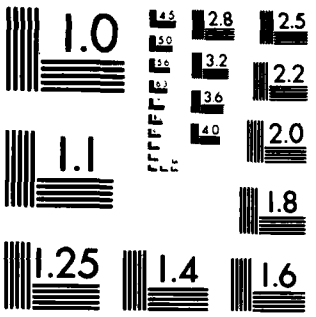
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	11	.	.	.	.	.	.	.	.	.	11
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	11	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

AD-A129 642 ATLANTIC COAST HINDCAST SHALLOW-WATER SIGNIFICANT WAVE INFORMATION(U) ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRAULICS LAB R E JENSEN JAN 83 6/8

UNCLASSIFIED WIS-9 F/G 12/1 NL



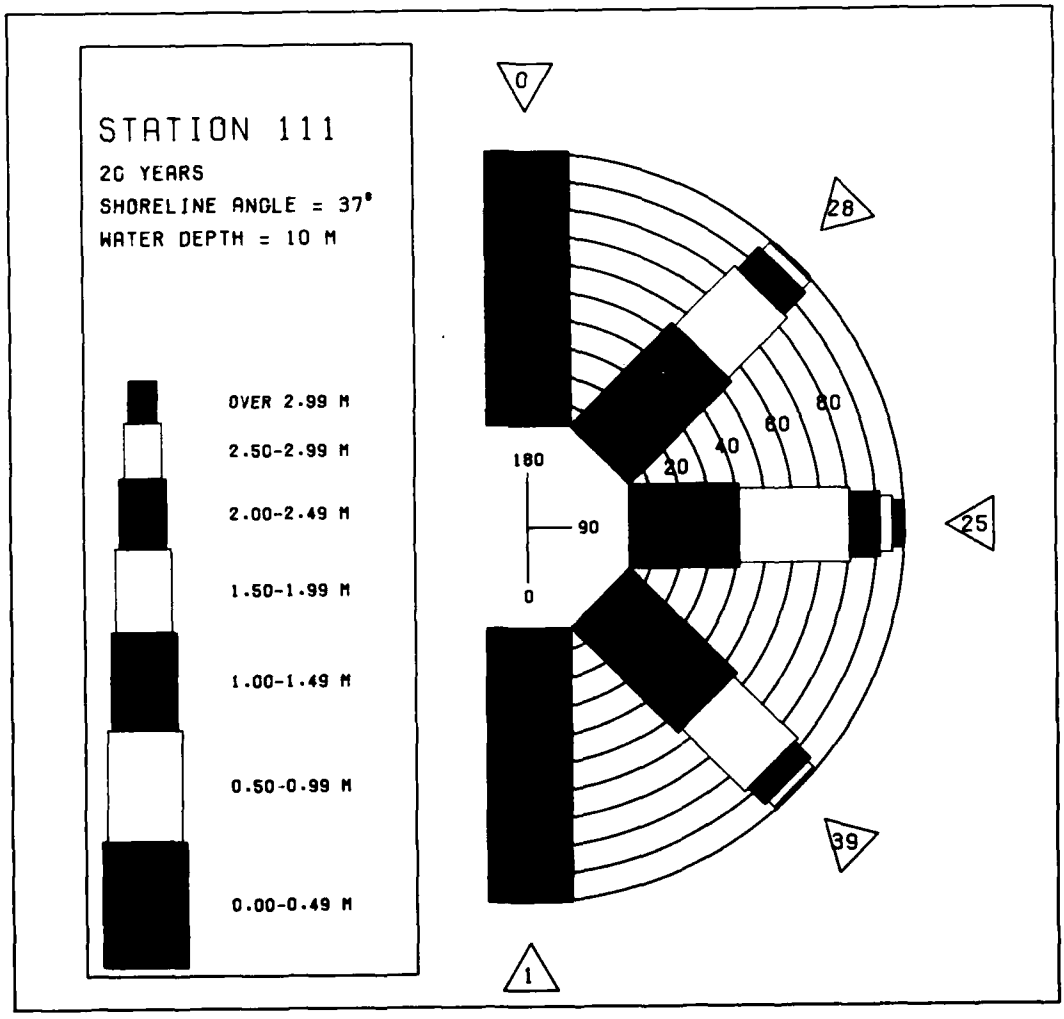


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

STATION 111 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	634	941	566	462	568	754	487	113	78	97	4700
0.50 - 0.99	.	244	893	574	114	548	296	43	91	347	3150
1.00 - 1.49	.	.	48	295	129	278	87	13	37	31	918
1.50 - 1.99	.	.	.	15	101	176	50	4	4	4	354
2.00 - 2.49	.	.	.	.	20	90	32	3	3	6	154
2.50 - 2.99	.	.	.	.	.	10	20	4	.	1	35
3.00 - 3.49	.	.	.	.	.	.	2	2	.	1	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	634	1185	1507	1346	932	1856	974	182	213	487	

AVE HS(M) = 0.57 LARGEST HS(M) = 3.52 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 111

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.7	0.4	0.7	0.5	0.6	0.4	0.2	0.4	0.8	0.4	0.4	0.5
1957	0.6	0.7	0.6	0.7	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.6	0.6
1958	0.5	0.4	0.5	0.8	0.6	0.5	0.6	0.5	0.6	0.8	0.5	0.5	0.6
1959	0.4	0.8	0.7	0.5	0.6	0.3	0.9	0.4	0.7	0.9	0.7	0.6	0.6
1960	0.5	0.8	0.7	0.6	0.6	0.5	0.6	0.4	0.7	0.4	0.5	0.4	0.6
1961	0.5	0.7	0.8	0.7	0.7	0.8	0.4	0.8	0.5	0.5	0.5	0.6	0.6
1962	0.6	0.7	0.7	0.7	0.4	0.5	0.5	0.6	0.4	0.4	0.8	1.2	0.6
1963	0.9	1.2	0.9	0.8	0.8	0.8	0.7	0.6	0.9	1.0	0.8	0.6	0.8
1964	0.5	0.4	0.7	0.7	0.5	0.6	0.6	0.5	0.8	0.8	0.6	0.7	0.6
1965	0.4	0.8	0.5	0.5	0.3	0.6	0.5	0.3	0.7	0.8	0.6	0.3	0.5
1966	0.6	0.9	0.6	0.5	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6
1967	0.5	0.6	0.6	0.6	0.7	0.9	0.7	0.6	0.7	0.5	0.3	0.6	0.6
1968	0.6	0.2	0.4	0.2	0.3	0.4	0.2	0.2	0.2	0.5	0.3	0.3	0.3
1969	0.6	0.5	0.5	0.7	0.7	0.5	0.4	0.6	0.5	0.7	0.9	0.6	0.6
1970	0.5	0.9	0.8	0.5	0.5	0.6	0.6	0.8	0.3	1.0	0.4	0.4	0.6
1971	0.6	0.7	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.8	0.7	1.2	0.6
1972	0.8	0.7	0.6	0.6	1.0	1.0	0.8	0.5	0.3	0.8	0.7	0.6	0.7
1973	0.7	0.6	0.7	0.7	0.5	0.5	0.1	0.2	0.3	0.4	0.4	0.9	0.5
1974	0.4	0.6	0.5	0.5	0.3	0.1	0.1	0.1	0.2	0.4	0.2	0.4	0.3
1975	0.4	1.0	0.6	0.2	0.1	0.2	0.3	0.1	0.5	0.4	0.3	0.4	0.4
MEAN	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.5	0.7	0.5	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 111

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.4	2.0	2.6	1.9	1.5	1.2	0.9	2.6	3.3	1.7	1.5
1957	2.2	3.0	2.3	2.4	1.8	1.7	1.7	1.6	2.4	1.5	2.2	2.1
1958	2.7	2.4	2.4	2.6	2.4	1.5	1.1	1.8	2.5	1.9	2.1	3.1
1959	2.3	2.2	2.7	2.1	1.9	1.5	2.6	1.1	2.7	2.5	2.3	2.3
1960	2.1	3.0	2.5	2.3	1.8	1.4	2.5	1.0	2.9	1.2	2.0	2.1
1961	2.9	2.7	2.8	2.9	2.2	2.2	1.1	2.1	1.7	1.6	1.9	2.1
1962	2.3	2.1	2.2	2.5	1.4	1.4	1.6	2.7	2.2	2.1	3.4	2.4
1963	1.7	2.4	2.3	2.2	2.2	1.3	1.0	1.2	2.6	2.9	2.4	2.5
1964	2.7	2.5	1.8	2.1	2.6	2.5	1.7	2.2	3.0	2.9	2.4	2.1
1965	1.7	2.9	2.0	2.0	1.4	1.5	1.4	1.4	1.7	2.9	1.3	1.1
1966	3.1	3.0	2.6	1.5	2.0	3.3	1.9	1.3	2.1	1.4	1.9	2.2
1967	2.4	1.8	2.0	1.8	2.1	2.2	1.7	1.5	2.3	1.6	1.3	3.0
1968	2.7	1.4	2.6	1.2	1.3	2.3	1.1	0.9	0.5	2.3	1.9	2.3
1969	2.2	2.8	2.8	2.1	2.4	2.0	1.2	1.6	1.6	2.5	3.5	2.5
1970	2.2	2.8	2.3	2.2	2.5	1.7	1.3	2.0	1.4	3.5	2.6	2.7
1971	2.1	2.3	3.3	2.8	2.2	1.2	1.6	2.1	1.2	2.5	2.5	2.7
1972	2.2	2.9	2.0	2.1	3.2	2.9	2.2	1.3	1.0	1.6	2.3	2.5
1973	2.8	3.1	2.7	2.1	2.0	1.2	0.4	1.3	2.1	1.7	2.1	3.5
1974	1.8	2.4	1.2	2.0	1.9	0.6	0.4	0.5	1.3	1.9	2.2	2.6
1975	2.0	2.7	2.3	1.2	0.8	0.8	1.1	0.6	2.1	1.8	1.0	2.7

LARGEST HS(METRES) FOR STATION 111 = 3.5

STATION 112 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2549	4625	3552	2108	277	242	176	15	.	.	13544
0.50 - 0.99	.	390	2681	2154	373	111	.	.	.	.	5709
1.00 - 1.49	.	.	18	140	116	15	.	.	.	.	289
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2549	5015	6251	4402	774	368	176	15	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.93 ANGLE CLASS % = 19.6

STATION 112 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	949	1175			2814	4360	1202	104	1	.	10605
0.50 - 0.99	.	920	1834	379	319	2315	865	44	11	.	6687
1.00 - 1.49	.	.	150	765	398	1030	328	34	1	.	2726
1.50 - 1.99	.	.	.	49	290	527	167	23	5	.	1061
2.00 - 2.49	.	.	.	.	41	171	119	20	1	.	352
2.50 - 2.99	.	.	.	.	3	10	30	13	.	.	56
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	949	2095	1984	1213	3865	8413	2711	238	19	0	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 2.79 ANGLE CLASS % = 21.5

STATION 112 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	799	704			704	1622	1750	102	189	296	6166
0.50 - 0.99	.	627	1256	63	59	555	179	46	366	412	3567
1.00 - 1.49	.	.	196	653	57	529	35	20	97	45	1500
1.50 - 1.99	.	.	.	75	77	147	35	1	17	29	606
2.00 - 2.49	.	.	.	.	65	225	56	5	5	5	359
2.50 - 2.99	.	.	.	.	.	47	90	10	5	6	159
3.00 - 3.49	.	.	.	.	.	.	8	13	1	5	27
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	799	1331	1455	791	1168	2773	2160	198	678	828	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 3.51 ANGLE CLASS % = 12.2

STATION 112 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1093	1343	37	.	1149	1601	1957	836	554	450	9020
0.50 - 0.99	.	639	2561	917	162	1774	1712	583	539	3107	11794
1.00 - 1.49	.	.	198	1562	537	1288	484	65	304	367	4805
1.50 - 1.99	.	.	.	77	537	1014	193	13	37	17	1888
2.00 - 2.49	.	.	.	.	92	602	184	0	17	54	949
2.50 - 2.99	.	.	.	.	.	65	65	18	8	13	169
3.00 - 3.49	.	.	.	.	.	.	13	5	1	15	34
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1093	1982	2796	2556	2477	6344	4608	1326	1461	4023	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.58 ANGLE CLASS % = 28.7

STATION 112 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	826	1781	2109	2414	920	764	6	.	.	.	8820
0.50 - 0.99	.	18	968	2421	109	126	6	.	.	.	3648
1.00 - 1.49	.	.	.	297	73	47	1	.	.	.	418
1.50 - 1.99	.	.	.	.	5	15	.	.	.	.	20
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	826	1799	3077	5132	1107	952	13	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.76 ANGLE CLASS % = 12.9

STATION 112 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

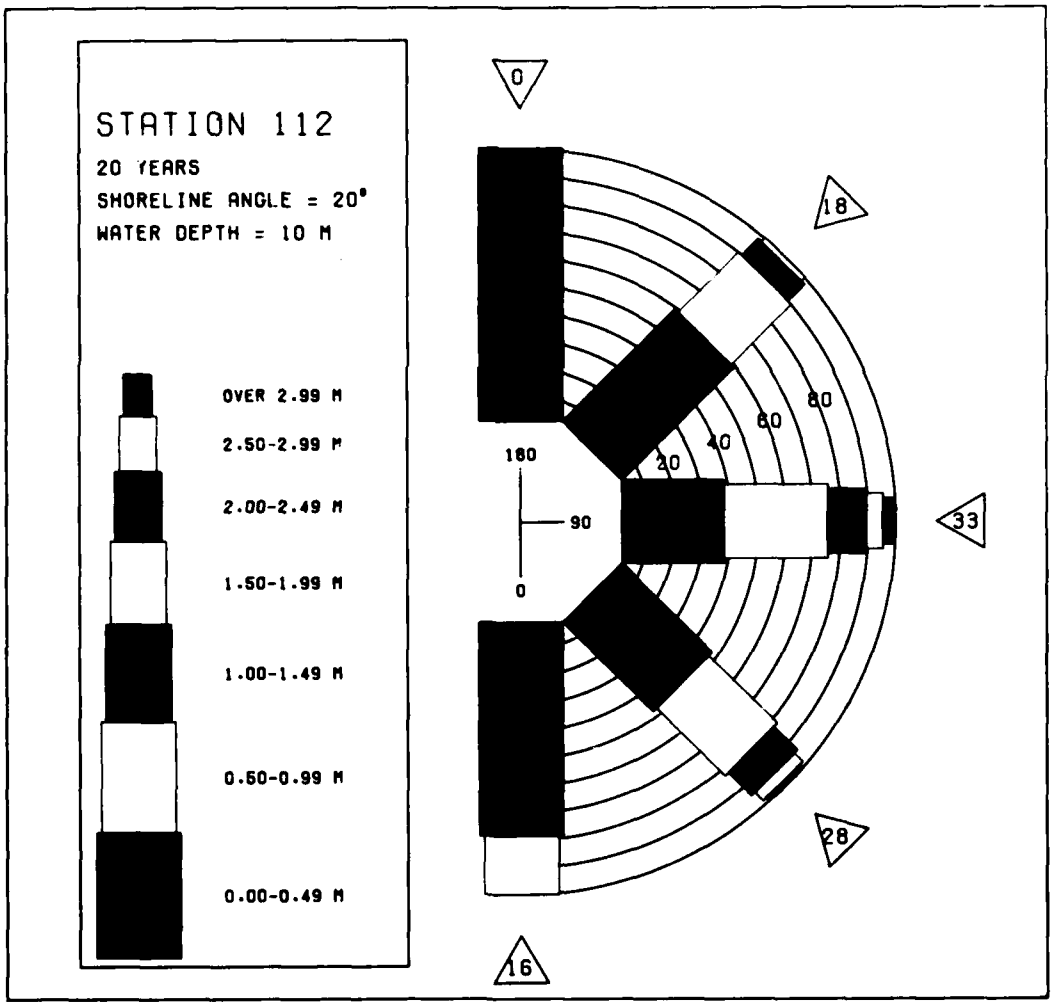
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 112 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 20.0 DEGREES AZIMUTH
WATER DEPTH = 0.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	621	963	569	452	586	859	509	105	74	74	4812
0.50 - 0.99	.	259	930	593	102	488	276	47	91	351	3137
1.00 - 1.49	.	.	56	343	120	252	85	11	40	44	951
1.50 - 1.99	.	.	.	20	110	173	40	3	5	4	355
2.00 - 2.49	.	.	.	.	19	99	36	3	2	5	164
2.50 - 2.99	.	.	.	.	.	12	18	4	1	2	37
3.00 - 3.49	.	.	.	.	.	.	2	1	.	2	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	621	1222	1555	1408	937	1883	966	174	213	482	

AVE HS(M) = 0.58 LARGEST HS(M) = 3.58 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 112

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.7	0.4	0.7	0.5	0.6	0.4	0.2	0.4	0.9	0.4	0.4	0.5
1957	0.6	0.8	0.6	0.7	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.6	0.6
1958	0.5	0.4	0.5	0.8	0.6	0.5	0.5	0.5	0.7	0.8	0.5	0.6	0.6
1959	0.4	0.8	0.7	0.5	0.6	0.4	0.9	0.4	0.8	1.0	0.8	0.6	0.7
1960	0.5	0.7	0.7	0.6	0.6	0.5	0.6	0.4	0.8	0.5	0.5	0.5	0.6
1961	0.5	0.7	0.8	0.6	0.7	0.7	0.4	0.7	0.6	0.6	0.5	0.6	0.6
1962	0.6	0.7	0.8	0.6	0.4	0.6	0.5	0.6	0.5	0.5	0.8	1.2	0.6
1963	1.0	1.3	0.9	0.8	0.8	0.8	0.7	0.7	1.0	1.1	0.9	0.7	0.9
1964	0.5	0.4	0.6	0.7	0.5	0.6	0.6	0.5	0.9	0.8	0.7	0.7	0.6
1965	0.4	0.8	0.5	0.5	0.3	0.6	0.5	0.3	0.7	0.8	0.6	0.3	0.5
1966	0.6	0.9	0.6	0.5	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.5	0.6
1967	0.5	0.6	0.6	0.6	0.6	1.0	0.6	0.6	0.7	0.5	0.3	0.6	0.6
1968	0.7	0.2	0.3	0.2	0.3	0.4	0.2	0.2	0.2	0.5	0.3	0.3	0.3
1969	0.6	0.6	0.5	0.7	0.7	0.5	0.4	0.6	0.6	0.8	0.9	0.5	0.6
1970	0.5	0.8	0.8	0.5	0.5	0.6	0.5	0.7	0.4	1.1	0.4	0.4	0.6
1971	0.6	0.6	0.5	0.5	0.5	0.3	0.5	0.5	0.6	0.9	0.7	1.3	0.6
1972	0.8	0.7	0.6	0.6	1.0	1.0	0.7	0.5	0.4	0.9	0.7	0.6	0.7
1973	0.8	0.6	0.7	0.6	0.5	0.5	0.1	0.2	0.3	0.4	0.4	0.9	0.5
1974	0.4	0.5	0.4	0.4	0.3	0.1	0.1	0.1	0.3	0.5	0.2	0.4	0.3
1975	0.4	1.1	0.6	0.2	0.1	0.2	0.3	0.1	0.5	0.4	0.3	0.4	0.4
MEAN	0.6	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.6	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 112

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.4	1.7	2.2	2.0	1.6	1.1	0.9	2.6	3.3	1.7	1.7
1957	2.2	3.0	2.2	2.2	1.8	1.9	1.8	1.8	2.5	1.5	2.2	2.0
1958	2.6	2.1	2.4	2.7	2.4	1.5	1.1	1.8	2.5	2.1	2.1	3.1
1959	2.2	2.3	2.5	2.0	1.9	1.5	2.6	1.1	2.8	2.6	2.4	2.5
1960	2.1	2.9	2.4	2.2	2.0	1.3	2.4	1.0	2.8	1.4	1.9	2.3
1961	2.9	2.8	2.8	2.8	2.3	2.2	1.2	2.1	1.7	1.8	1.8	2.2
1962	2.3	2.2	2.2	2.4	1.4	1.4	1.6	2.7	2.4	2.1	3.5	2.5
1963	1.7	2.5	2.3	2.2	2.3	1.5	1.0	1.2	2.7	2.9	2.4	2.5
1964	2.7	2.5	1.9	2.1	2.8	2.6	1.6	2.2	3.0	2.9	2.4	2.1
1965	1.5	2.7	2.1	2.0	1.4	1.5	1.3	1.6	1.9	3.2	1.4	1.1
1966	3.0	2.7	2.3	1.3	1.9	3.3	1.9	1.3	2.1	1.5	2.2	2.2
1967	2.2	1.7	2.0	1.9	2.4	2.2	1.6	1.7	2.2	1.8	1.2	2.9
1968	2.8	1.3	2.4	1.1	1.3	2.4	1.1	0.9	0.6	2.3	2.0	2.0
1969	2.2	3.0	2.7	2.0	2.3	1.9	1.1	1.5	1.8	2.7	3.5	2.4
1970	2.2	2.5	2.2	2.0	2.3	1.8	1.3	1.8	1.2	3.5	2.8	2.5
1971	2.1	2.3	3.3	2.7	2.2	1.2	1.3	2.2	1.3	2.8	2.4	2.9
1972	2.1	2.8	2.1	2.0	3.1	2.7	2.2	1.4	1.1	1.9	2.1	2.5
1973	2.6	2.?	2.6	2.0	1.9	1.2	0.4	1.0	2.1	1.5	2.0	3.6
1974	1.6	2.4	1.1	1.9	1.7	0.6	0.4	0.5	1.4	2.1	2.3	2.6
1975	1.8	2.9	2.2	1.2	0.8	0.8	1.0	0.6	2.1	2.0	1.0	2.5

LARGEST HS(METRES) FOR STATION 112 = 3.6

STATION 113 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2084	3896	3198	2561	788	554	30	.	.	.	13111
0.50 - 0.99	.	419	2604	1694	749	559	54	1	.	.	6080
1.00 - 1.49	.	.	41	177	131	13	.	.	.	.	362
1.50 - 1.99	.	.	.	.	8	.	.	.	.	.	8
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2084	4315	5843	4432	1676	1126	84	1	0	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.71 ANGLE CLASS % = 19.6

STATION 113 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	836	872	.	.	1692	2695	357	142	102	11	6707
0.50 - 0.99	.	848	1895	313	249	1463	537	18	99	.	5422
1.00 - 1.49	.	.	239	924	462	874	242	32	44	.	2817
1.50 - 1.99	.	.	.	32	319	492	114	32	3	.	992
2.00 - 2.49	.	.	.	.	32	142	65	42	.	.	311
2.50 - 2.99	.	.	.	.	1	5	17	11	.	.	34
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	836	1720	2134	1269	2755	5671	1363	277	248	11	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 3.19 ANGLE CLASS % = 16.3

STATION 113 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	554	465	.	.	460	1125	2623	174	39	104	5544
0.50 - 0.99	.	509	1081	44	51	639	694	133	13	544	3710
1.00 - 1.49	.	.	229	609	71	622	97	53	18	265	1564
1.50 - 1.99	.	.	.	71	246	476	22	1	39	34	892
2.00 - 2.49	.	.	.	.	66	227	61	.	10	11	375
2.50 - 2.99	.	.	.	.	.	39	82	17	5	5	149
3.00 - 3.49	.	.	.	.	.	3	8	18	3	.	32
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	554	974	1310	726	894	2434	3587	396	127	963	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 3.45 ANGLE CLASS % = 12.0

STATION 113 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	793	862			838	1286	521	391	212	215	5118
0.50 - 0.99	.	716	2123	225	116	1398	2171	556	456	2537	10298
1.00 - 1.49	.	.	350	1463	340	674	672	456	350	785	5090
1.50 - 1.99	.	.	.	121	604	1218	258	138	94	118	2551
2.00 - 2.49	.	.	.	.	111	853	325	46	6	8	1349
2.50 - 2.99	.	.	.	.	.	30	248	70	5	.	353
3.00 - 3.49	.	.	.	.	.	.	13	32	1	.	46
3.50 - 3.99	.	.	.	.	.	.	.	1	8	.	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	793	1578	2473	1809	2009	5459	4208	1690	1132	3663	

AVERAGE HS(M) = 0.97 LARGEST HS(M) = 3.83 ANGLE CLASS % = 24.8

STATION 113 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	961	1947	1885	1550	1918	2084	932	.	.	.	11277
0.50 - 0.99	.	165	1892	1745	1060	1098	325	.	.	.	6285
1.00 - 1.49	.	.	35	655	758	954	54	.	.	.	2456
1.50 - 1.99	.	.	.	3	143	742	90	1	.	.	979
2.00 - 2.49	.	.	.	.	18	51	17	3	.	.	89
2.50 - 2.99	.	.	.	.	.	11	.	.	.	.	11
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	961	2112	3812	3953	3897	4940	1418	4	0	0	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 2.66 ANGLE CLASS % = 21.1

STATION 113 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

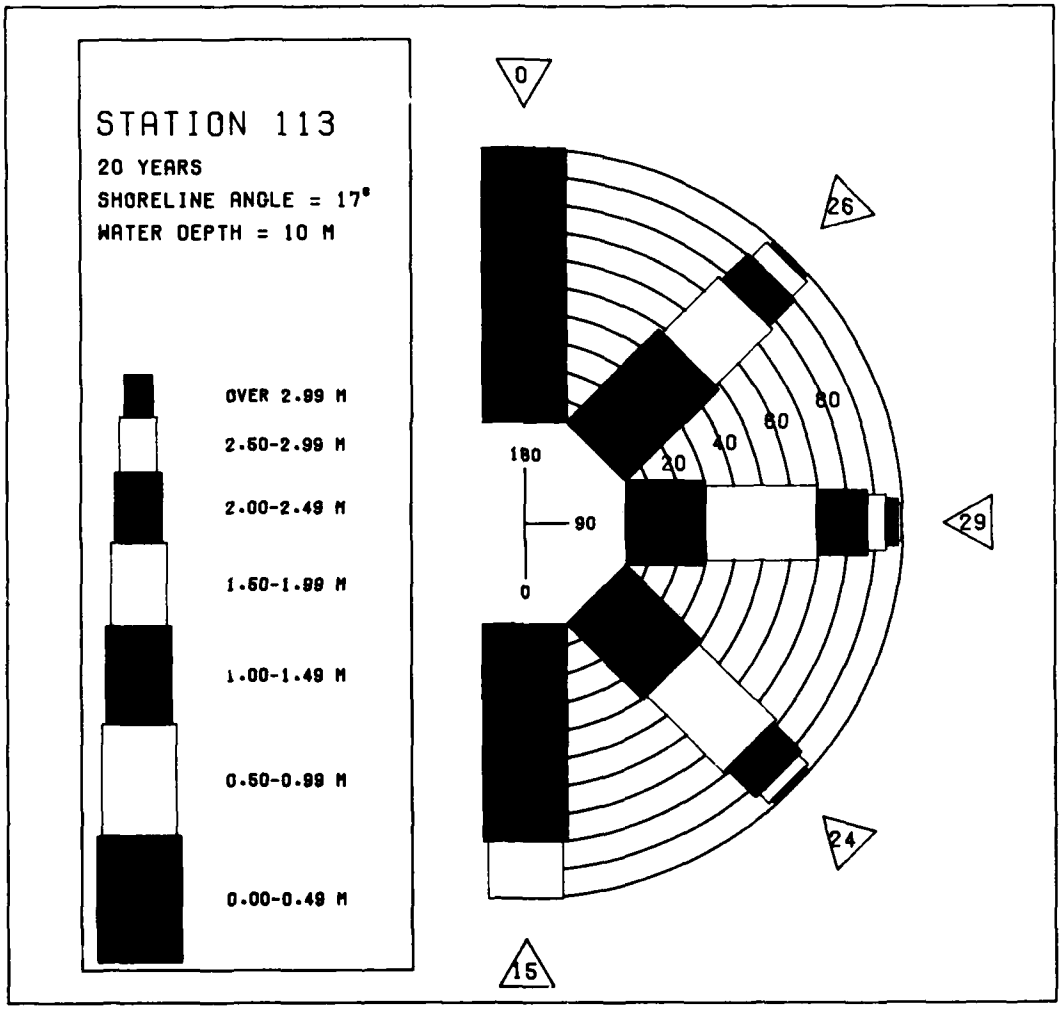
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 113 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 17.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	523	804	508	411	569	774	446	70	35	33	4173
0.50 - 0.99	.	266	959	402	222	515	378	71	56	308	3177
1.00 - 1.49	.	.	89	382	176	275	100	54	41	105	1526
1.50 - 1.99	.	.	.	22	135	273	48	17	13	15	510
2.00 - 2.49	.	.	.	.	22	127	49	9	1	2	210
2.50 - 2.99	.	.	.	.	.	8	34	9	1	.	52
3.00 - 3.49	.	.	.	.	.	.	2	5	.	.	7
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	523	1070	1556	1217	1121	1960	1063	235	147	463	

AVE HS(M) = 0.64 LARGEST HS(M) = 3.83 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 113

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.8	0.4	0.7	0.7	0.8	0.4	0.3	0.5	1.0	0.6	0.4	0.6
1957	0.7	0.9	0.7	0.7	0.5	0.5	0.5	0.8	0.9	0.9	0.8	0.6	0.7
1958	0.5	0.3	0.6	0.8	0.6	0.6	0.6	0.5	0.8	1.0	0.6	0.6	0.6
1959	0.4	0.9	0.8	0.6	0.7	0.4	1.0	0.5	1.0	1.2	0.9	0.7	0.8
1960	0.5	0.7	0.7	0.6	0.7	0.6	0.6	0.5	0.9	0.7	0.7	0.6	0.6
1961	0.5	0.7	0.9	0.5	0.8	0.8	0.5	0.8	0.6	0.8	0.6	0.6	0.7
1962	0.7	0.7	0.9	0.6	0.5	0.7	0.5	0.6	0.6	0.5	0.8	1.2	0.7
1963	1.1	1.4	0.9	0.8	0.9	0.9	0.7	0.7	1.2	1.2	1.2	0.8	1.0
1964	0.5	0.4	0.6	0.7	0.6	0.7	0.6	0.6	1.0	1.0	0.8	0.9	0.7
1965	0.5	0.8	0.6	0.6	0.3	0.6	0.6	0.4	1.0	1.0	0.6	0.4	0.6
1966	0.7	0.9	0.6	0.5	0.9	0.7	0.7	0.5	0.6	0.7	0.7	0.6	0.7
1967	0.5	0.6	0.7	0.6	0.6	1.1	0.6	0.6	0.9	0.6	0.4	0.5	0.6
1968	0.9	0.4	0.3	0.2	0.3	0.6	0.4	0.3	0.3	0.6	0.3	0.3	0.4
1969	0.7	0.6	0.4	0.8	0.8	0.6	0.4	0.7	0.7	1.0	1.3	0.6	0.7
1970	0.5	0.8	0.8	0.5	0.6	0.7	0.6	0.8	0.4	1.3	0.4	0.4	0.6
1971	0.6	0.6	0.4	0.4	0.5	0.4	0.5	0.6	0.7	1.0	0.7	1.6	0.7
1972	0.8	0.8	0.6	0.7	1.1	1.0	0.8	0.6	0.5	1.1	0.7	0.7	0.8
1973	0.9	0.6	0.7	0.6	0.5	0.5	0.2	0.2	0.3	0.5	0.4	0.8	0.5
1974	0.5	0.4	0.4	0.4	0.3	0.2	0.1	0.2	0.4	0.8	0.2	0.4	0.4
1975	0.5	1.3	0.6	0.2	0.2	0.2	0.3	0.1	0.5	0.6	0.4	0.5	0.5
MEAN	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.7	0.9	0.6	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 113

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.6	1.4	2.1	2.1	1.9	1.2	1.0	2.6	3.3	2.2	2.1
1957	2.3	3.2	2.3	2.4	1.5	1.4	2.2	2.1	2.8	1.9	2.3	2.0
1958	2.6	2.3	2.5	2.6	2.3	1.4	1.2	1.6	2.5	2.2	2.0	2.9
1959	2.3	2.6	2.5	1.7	1.9	1.6	3.0	1.1	3.2	3.0	2.2	2.8
1960	2.2	2.9	2.5	1.9	2.0	1.5	2.4	1.3	2.8	1.8	2.1	2.2
1961	3.0	2.8	2.9	2.5	2.3	2.0	1.2	2.0	2.2	2.2	2.1	2.1
1962	2.1	2.3	2.6	2.3	1.5	1.6	1.4	2.6	2.6	2.1	2.7	2.5
1963	1.9	3.0	2.2	2.3	2.2	2.2	1.1	1.6	3.2	3.0	2.5	2.9
1964	2.7	3.2	2.1	2.1	2.6	2.7	1.4	2.4	3.0	2.9	2.5	2.3
1965	1.6	2.6	2.3	2.6	1.4	1.8	1.9	1.4	2.2	3.2	1.5	1.7
1966	3.0	2.7	2.0	1.2	2.1	2.6	2.4	1.9	2.1	1.9	2.5	2.2
1967	2.1	2.2	2.0	1.9	2.3	2.3	1.5	2.0	2.2	2.0	1.1	2.6
1968	3.2	2.0	2.3	1.0	1.2	2.4	1.3	1.1	0.8	2.2	2.0	1.8
1969	2.2	3.7	2.7	2.2	2.2	1.9	1.1	1.8	2.0	3.0	3.8	2.4
1970	2.3	2.4	2.3	2.2	2.2	2.0	1.3	2.2	1.1	3.4	2.9	2.2
1971	2.2	2.1	3.4	2.7	2.0	1.1	1.5	2.3	1.8	3.3	2.5	3.1
1972	2.0	2.8	2.4	2.2	3.0	2.6	2.4	1.5	1.7	2.2	2.2	2.5
1973	2.5	2.9	2.6	2.0	1.9	1.4	0.5	1.2	2.1	2.1	2.2	2.9
1974	1.8	2.3	1.3	2.0	2.2	0.7	0.5	0.6	2.0	2.3	2.4	2.6
1975	1.6	3.3	2.2	1.3	0.8	1.0	1.0	0.6	2.3	2.1	1.3	2.5

LARGEST HS(METRES) FOR STATION 113 = 3.8

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STATION 114 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 36.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1894	3064	2267	1004	879	1906	6	.	.	.	11020
0.50 - 0.99	.	441	2837	1726	708	598	17	.	.	.	6327
1.00 - 1.49	.	.	42	239	167	15	1	.	.	.	464
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1894	3505	5146	2969	1755	2519	24	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.87 ANGLE CLASS % = 17.8

STATION 114 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 36.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	817	891	.	.	915	1680	429	20	.	.	4752
0.50 - 0.99	.	1090	2227	426	273	1820	328	29	.	.	6193
1.00 - 1.49	.	.	299	1057	677	1072	280	63	3	.	3451
1.50 - 1.99	.	.	.	63	376	752	150	42	.	.	1383
2.00 - 2.49	.	.	.	.	66	177	99	51	3	.	396
2.50 - 2.99	.	.	.	.	1	5	29	32	1	.	68
3.00 - 3.49	.	.	.	.	.	.	1	1	.	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	817	1981	2526	1546	2308	5506	1316	238	7	0	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.05 ANGLE CLASS % = 16.3

STATION 114 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 36.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	497	429	.	.	995	1132	1825	118	124	34	5154
0.50 - 0.99	.	527	1006	42	159	2664	3441	41	95	242	8217
1.00 - 1.49	.	.	244	619	51	994	1112	27	138	414	3599
1.50 - 1.99	.	.	.	85	167	306	265	3	133	198	1157
2.00 - 2.49	.	.	.	.	56	244	99	51	66	130	646
2.50 - 2.99	.	.	.	.	.	34	99	29	1	42	205
3.00 - 3.49	.	.	.	.	.	1	6	34	.	8	49
3.50 - 3.99	.	.	.	.	.	.	1	.	.	3	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	497	956	1250	746	1428	5375	6848	303	557	1072	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 4.00 ANGLE CLASS % = 19.1

STATION 114 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 36.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	646	527			251	569	364	244	162	229	2992
0.50 - 0.99	.	828	1601	77	23	715	1350	1036	776	559	6964
1.00 - 1.49	.	.	395	929	107	298	515	477	649	713	3981
1.50 - 1.99	.	.	.	154	361	313	109	162	227	386	1712
2.00 - 2.49	.	.	.	.	66	491	155	42	68	63	885
2.50 - 2.99	.	.	.	.	.	35	159	71	25	27	317
3.00 - 3.49	.	.	.	.	.	.	10	47	5	30	92
3.50 - 3.99	.	.	.	.	.	.	.	.	10	30	40
4.00 - 4.49	.	.	.	.	.	.	.	.	.	10	10
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	646	1355	1996	1160	807	2419	2662	2079	1822	2048	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 4.59 ANGLE CLASS % = 17.0

STATION 114 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 36.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	593	612	8		703	1235	621	183	107	.	4062
0.50 - 0.99	.	578	2239	720	236	1069	475	104	150	.	5571
1.00 - 1.49	.	.	309	1510	983	800	340	37	37	.	4016
1.50 - 1.99	.	.	.	46	443	1331	354	23	11	.	2208
2.00 - 2.49	.	.	.	.	65	217	258	32	6	.	578
2.50 - 2.99	.	.	.	.	.	6	32	44	1	.	83
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	593	1190	2556	2276	2430	4658	2080	424	312	0	

AVERAGE HS(M) = 0.94 LARGEST HS(M) = 3.22 ANGLE CLASS % = 16.5

STATION 114 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 36.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

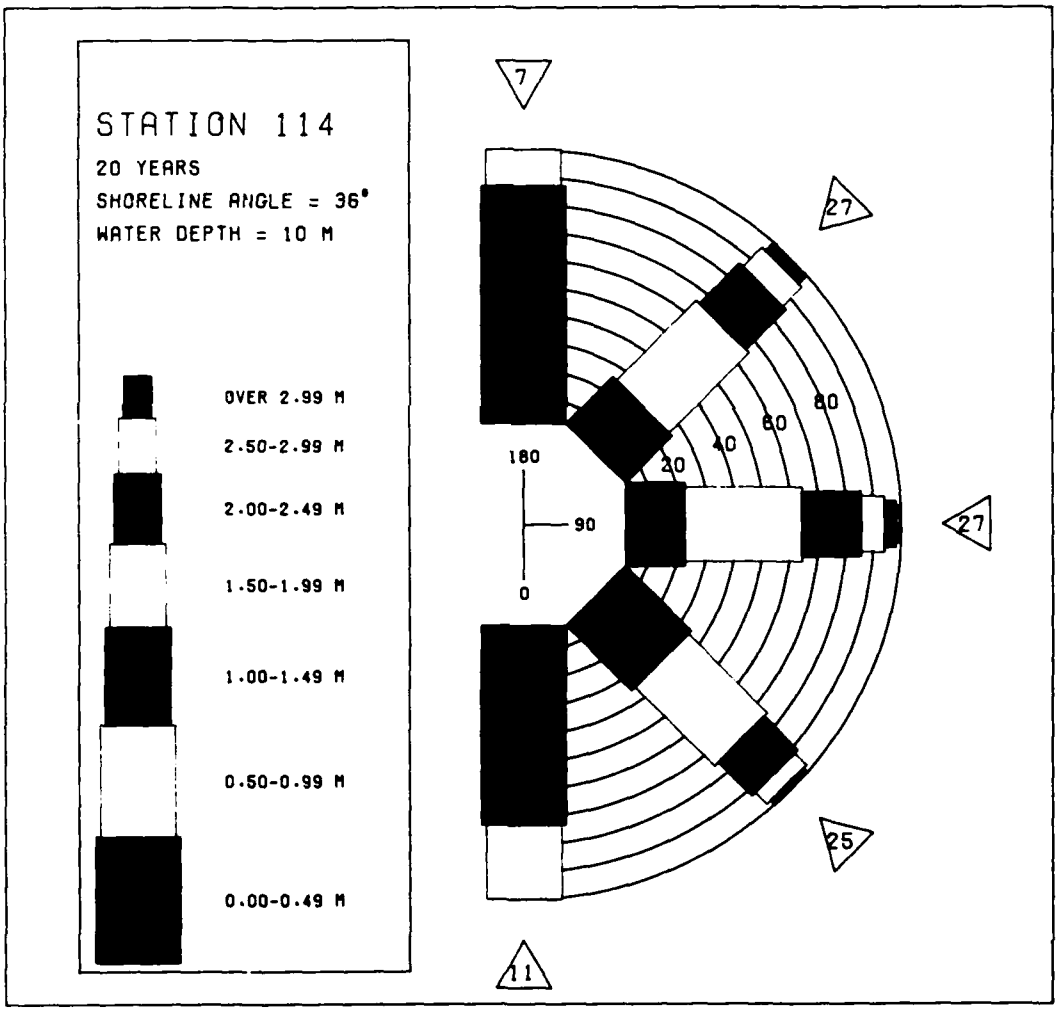
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	845	1483	1504	2409	829	82	.	.	.	.	7152
0.50 - 0.99	.	195	1151	2010	169	3	.	.	.	.	3528
1.00 - 1.49	.	.	8	220	39	.	.	.	.	.	267
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	845	1678	2663	4639	1037	85	0	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.47 ANGLE CLASS % = 11.0

STATION 114 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 36.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	529	700	377	341	457	660	324	56	39	26	3509
0.50 - 0.99	.	366	1106	500	156	687	561	121	102	80	3679
1.00 - 1.49	.	.	130	457	202	317	225	60	72	112	1575
1.50 - 1.99	.	.	.	34	135	270	87	23	37	58	644
2.00 - 2.49	.	.	.	.	25	113	61	17	14	19	249
2.50 - 2.99	.	.	.	.	.	8	31	17	3	7	66
3.00 - 3.49	.	.	.	.	.	.	1	8	.	3	12
3.50 - 3.99	.	.	.	.	.	.	.	.	1	3	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	529	1066	1613	1332	975	2055	1290	302	268	309	

AVE HS(M) = 0.74 LARGEST HS(M) = 4.59 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 114

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	1.2	0.5	0.7	0.7	0.7	0.5	0.3	0.6	1.1	0.7	0.5	0.7
1957	0.7	1.0	0.6	0.9	0.5	0.6	0.6	0.8	1.0	1.1	1.1	0.7	0.8
1958	0.7	0.4	0.8	0.9	0.7	0.8	0.7	0.6	0.7	1.4	0.8	0.9	0.8
1959	0.6	1.1	0.9	0.8	0.7	0.6	1.0	0.5	1.0	1.9	1.2	0.8	0.9
1960	0.6	0.8	0.8	0.7	0.6	0.6	0.7	0.6	0.9	0.7	0.7	0.6	0.7
1961	0.6	0.8	1.1	0.6	1.0	0.9	0.7	0.9	0.7	0.8	0.7	0.8	0.8
1962	1.0	0.8	0.9	0.8	0.5	0.8	0.5	0.7	0.7	0.7	1.0	1.2	0.8
1963	0.9	1.3	0.8	0.7	0.8	0.8	0.6	0.5	1.1	1.5	1.3	1.2	1.0
1964	0.6	0.5	0.8	0.9	0.6	0.6	0.7	0.7	1.1	1.1	0.8	1.1	0.8
1965	0.5	1.0	0.7	0.8	0.4	0.7	0.6	0.5	1.0	1.0	0.7	0.4	0.7
1966	0.7	1.0	0.7	0.7	1.0	0.7	0.8	0.7	0.8	0.7	0.8	0.6	0.7
1967	0.6	0.6	0.7	0.7	0.7	1.1	0.8	0.7	0.9	0.6	0.5	0.6	0.7
1968	1.0	0.5	0.4	0.2	0.3	1.0	0.7	0.7	0.6	1.0	0.6	0.3	0.6
1969	0.8	0.6	0.5	0.8	1.0	0.8	0.6	0.8	0.8	1.0	2.0	1.1	0.9
1970	0.7	0.7	0.9	0.7	0.7	0.7	0.6	0.8	0.5	1.4	0.5	0.4	0.7
1971	0.6	0.8	0.6	0.6	0.7	0.5	0.5	0.6	0.9	1.1	0.9	1.7	0.8
1972	0.8	0.8	0.7	0.8	1.3	1.2	1.2	0.7	0.5	1.1	0.8	0.8	0.9
1973	1.1	0.7	0.8	0.7	0.7	0.6	0.2	0.2	0.3	0.6	0.5	0.8	0.6
1974	0.5	0.5	0.6	0.7	0.4	0.2	0.2	0.2	0.4	1.1	0.5	0.4	0.5
1975	0.7	1.6	0.8	0.3	0.2	0.3	0.3	0.1	0.6	0.7	0.5	0.5	0.6
MEAN	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.8	1.0	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 114

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.6	1.6	2.2	2.1	1.4	1.1	1.0	2.7	3.1	1.9	1.5
1957	2.1	3.2	2.0	2.6	1.5	2.4	1.9	2.1	2.4	1.9	2.4	1.9
1958	3.0	2.3	2.6	2.7	2.4	1.5	1.3	1.7	2.1	3.1	1.7	3.0
1959	2.5	2.5	2.6	2.1	2.0	1.7	3.3	1.2	3.4	3.3	2.2	2.7
1960	2.2	2.8	2.6	2.2	2.1	1.7	2.7	1.0	3.3	1.6	2.1	2.3
1961	3.2	3.0	2.8	2.7	2.1	2.2	1.4	2.0	2.0	2.1	2.2	2.3
1962	2.4	2.1	2.7	2.6	1.4	1.8	1.3	2.6	2.4	2.1	4.6	3.4
1963	2.1	2.9	2.2	2.3	2.1	1.8	1.0	1.3	3.1	3.6	2.6	3.1
1964	2.5	2.6	2.2	2.3	2.3	2.3	1.7	2.5	3.3	3.4	2.5	2.3
1965	2.2	2.9	2.2	2.6	1.2	2.0	1.8	1.3	2.1	3.0	1.6	1.5
1966	3.1	3.0	2.3	1.9	2.0	2.6	2.4	1.5	2.1	1.6	2.4	2.0
1967	2.1	2.1	2.0	1.8	2.3	2.0	1.7	2.0	2.3	1.8	1.3	2.6
1968	2.9	1.5	2.7	1.2	1.2	2.6	1.6	1.3	1.1	2.4	2.1	2.1
1969	2.1	3.0	2.7	2.2	2.0	2.0	1.2	1.9	2.0	2.8	4.1	2.6
1970	2.5	2.7	2.2	2.4	2.5	1.6	1.7	2.4	1.2	3.2	2.8	2.4
1971	2.1	2.2	3.5	2.5	2.1	1.0	1.6	2.1	1.6	3.1	2.5	3.2
1972	2.1	2.7	2.3	2.1	3.7	2.7	2.6	1.4	1.6	2.1	2.5	2.5
1973	2.8	3.0	2.5	2.1	2.1	1.6	0.6	1.3	2.0	1.6	2.2	3.0
1974	1.8	2.5	1.5	2.1	2.0	0.6	0.6	0.6	1.8	2.3	2.3	2.5
1975	2.3	3.4	2.4	1.3	1.0	1.6	1.2	0.9	2.5	1.9	2.0	2.6

LARGEST HS(METRES) FOR STATION 114 = 4.6

STATION 115 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1444	2094	1594	804	547	896	.	.	.	.	7379
0.50 - 0.99	.	126	1500	689	189	.	.	.	.	.	2504
1.00 - 1.49	.	.	5	8	5	.	.	.	.	.	18
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1444	2220	3099	1501	741	896	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.25 ANGLE CLASS % = 9.9

STATION 115 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1380	1723	61	.	667	995	232	10	.	.	5068
0.50 - 0.99	.	1331	3867	1363	489	2101	326	20	.	.	9497
1.00 - 1.49	.	.	337	1610	1095	1271	244	10	.	.	4567
1.50 - 1.99	.	.	.	58	609	913	241	39	1	.	1861
2.00 - 2.49	.	.	.	.	59	272	156	56	.	.	546
2.50 - 2.99	.	.	.	.	.	11	15	27	1	.	54
3.00 - 3.49	.	.	.	.	.	.	1	6	.	.	7
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1380	3054	4265	3031	2919	5563	1218	169	2	0	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.53 ANGLE CLASS % = 21.6

STATION 115 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	665	552	.	.	771	1259	414	18	47	.	3726
0.50 - 0.99	.	831	1382	90	143	1374	316	41	35	.	4212
1.00 - 1.49	.	.	256	749	114	343	219	39	1	.	1721
1.50 - 1.99	.	.	.	82	275	260	59	.	1	.	677
2.00 - 2.49	.	.	.	.	82	379	70	5	.	.	536
2.50 - 2.99	.	.	.	.	1	51	121	41	1	.	215
3.00 - 3.49	.	.	.	.	.	.	15	46	5	.	66
3.50 - 3.99	.	.	.	.	.	.	1	1	.	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	665	1383	1638	921	1386	3686	1195	191	90	0	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.56 ANGLE CLASS % = 11.2

STATION 115 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	836	658	.	.	1045	1036	1396	116	71	266	5424
0.50 - 0.99	.	852	1671	71	165	2701	3215	8	100	1052	9835
1.00 - 1.49	.	.	316	802	126	833	855	.	154	805	3891
1.50 - 1.99	.	.	.	104	251	359	222	8	126	242	1312
2.00 - 2.49	.	.	.	.	66	337	130	49	35	140	757
2.50 - 2.99	.	.	.	.	.	25	97	23	1	41	187
3.00 - 3.49	.	.	.	.	.	1	6	27	6	8	48
3.50 - 3.99	.	.	.	.	.	.	.	.	1	6	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	836	1510	1987	977	1653	5292	5921	231	494	2560	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.80 ANGLE CLASS % = 21.5

STATION 115 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	751	775	22	.	451	1011	764	576	499	.	4849
0.50 - 0.99	.	660	2073	650	393	1177	1305	1028	787	49	8122
1.00 - 1.49	.	.	222	1035	616	1113	468	241	297	58	4050
1.50 - 1.99	.	.	.	42	207	588	241	106	49	18	1251
2.00 - 2.49	.	.	.	.	20	114	97	58	6	3	298
2.50 - 2.99	.	.	.	.	.	.	3	17	1	1	22
3.00 - 3.49	.	.	.	.	.	.	.	.	.	4	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	751	1435	2317	1727	1687	4003	2878	2026	1639	132	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.16 ANGLE CLASS % = 18.6

STATION 115 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

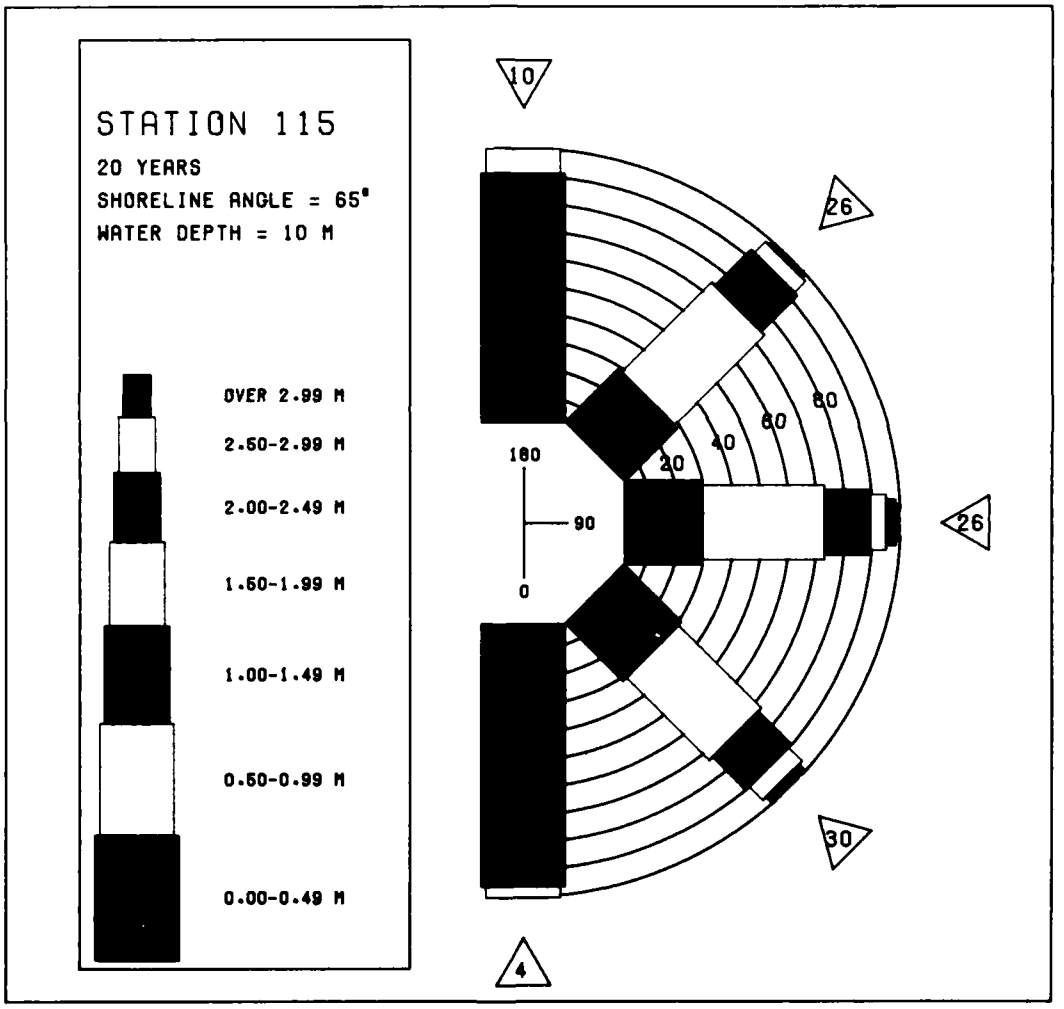
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1225	2034	2327	3581	876	30	.	.	.	.	10073
0.50 - 0.99	.	145	1350	1392	521	102	.	.	.	.	3510
1.00 - 1.49	.	.	8	58	49	1	.	.	.	.	116
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1225	2179	3685	5031	1446	133	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.36 ANGLE CLASS % = 13.7

STATION 115 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 65.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	630	783	400	438	436	523	280	72	61	26	3649
0.50 - 0.99	.	394	1184	425	180	745	516	109	92	110	3765
1.00 - 1.49	.	.	114	426	200	356	178	29	45	86	1434
1.50 - 1.99	.	.	.	28	134	214	74	15	17	26	508
2.00 - 2.49	.	.	.	.	22	110	45	16	4	14	211
2.50 - 2.99	.	.	.	.	.	8	23	10	.	4	45
3.00 - 3.49	.	.	.	.	.	.	2	8	1	1	12
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	630	1177	1698	1317	982	1956	1118	259	220	267	

AVE HS(M) = 0.70 LARGEST HS(M) = 3.80 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 115

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.2	0.6	0.9	0.6	0.6	0.6	0.3	0.5	0.6	0.5	0.6	0.6
1957	0.6	0.8	0.7	0.9	0.5	0.6	0.6	0.7	0.8	0.7	1.0	0.8	0.7
1958	0.7	0.6	0.8	0.9	0.7	0.8	0.7	0.6	0.5	1.0	0.6	0.7	0.7
1959	0.6	1.0	0.9	0.8	0.8	0.6	1.0	0.6	0.8	1.7	1.0	0.7	0.9
1960	0.6	0.8	0.8	0.8	0.6	0.6	0.7	0.6	0.7	0.5	0.6	0.4	0.7
1961	0.7	0.9	1.1	0.9	1.0	1.0	0.8	0.9	0.5	0.5	0.6	0.8	0.8
1962	0.9	0.8	0.8	0.9	0.4	0.7	0.6	0.6	0.6	0.5	0.8	0.9	0.7
1963	0.9	1.1	0.9	0.7	0.6	0.7	0.7	0.6	0.7	1.1	1.1	0.9	0.8
1964	0.7	0.6	0.9	0.9	0.5	0.6	0.8	0.7	0.8	0.9	0.7	1.0	0.7
1965	0.5	0.9	0.7	0.8	0.4	0.6	0.6	0.6	0.7	0.8	0.6	0.3	0.6
1966	0.6	1.0	0.7	0.8	0.9	0.6	0.8	0.6	0.7	0.5	0.5	0.5	0.7
1967	0.6	0.6	0.7	0.7	0.7	0.9	0.9	0.8	0.6	0.5	0.5	0.6	0.7
1968	0.7	0.4	0.5	0.2	0.3	0.9	0.7	0.6	0.6	0.9	0.6	0.4	0.6
1969	0.6	0.5	0.6	0.8	0.9	0.8	0.6	0.7	0.6	0.7	1.9	1.1	0.8
1970	0.6	0.7	1.0	0.7	0.7	0.7	0.7	0.9	0.5	1.1	0.4	0.5	0.7
1971	0.7	0.9	0.7	0.7	0.8	0.5	0.6	0.6	0.7	0.9	0.8	1.3	0.8
1972	0.8	0.7	0.7	0.8	1.1	1.3	1.2	0.7	0.4	0.8	0.7	0.8	0.8
1973	0.9	0.6	0.9	0.9	0.8	0.6	0.2	0.2	0.3	0.4	0.5	0.9	0.6
1974	0.5	0.6	0.7	0.8	0.4	0.3	0.2	0.1	0.2	0.8	0.5	0.5	0.5
1975	0.7	1.3	0.8	0.3	0.2	0.3	0.3	0.1	0.5	0.5	0.4	0.4	0.5
MEAN	0.7	0.8	0.8	0.8	0.6	0.7	0.7	0.6	0.6	0.8	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 115

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.4	2.0	2.8	1.9	1.3	1.2	1.0	2.8	3.3	1.1	1.8
1957	2.1	3.2	2.1	2.9	1.5	2.4	1.9	1.7	1.8	1.5	2.4	2.2
1958	3.1	2.4	2.6	2.5	2.1	1.7	1.3	1.8	1.9	2.0	1.7	3.0
1959	2.5	2.5	3.1	2.2	2.0	1.7	3.2	1.5	3.3	2.8	2.1	2.4
1960	2.5	3.0	2.8	2.4	1.6	2.0	3.0	1.3	3.3	1.8	2.0	1.7
1961	3.2	2.4	2.8	3.0	2.1	2.2	1.5	2.1	2.1	1.7	2.4	2.3
1962	2.6	2.3	2.4	2.8	1.1	1.7	1.5	2.6	2.0	1.8	3.2	2.1
1963	2.1	2.4	2.3	2.3	1.7	1.6	1.2	1.3	2.6	3.3	2.7	2.4
1964	2.5	2.7	2.4	2.3	2.0	2.2	2.1	2.5	3.3	2.6	2.5	2.2
1965	2.3	3.0	2.2	2.2	1.3	2.0	2.0	1.2	1.4	2.5	1.8	1.4
1966	3.3	3.2	2.7	1.8	2.0	3.1	2.4	1.3	1.9	1.8	1.7	1.8
1967	2.3	2.3	2.2	2.1	1.8	2.0	2.1	2.0	2.3	1.8	2.1	2.8
1968	2.4	1.6	3.1	1.3	1.3	2.3	1.5	1.1	0.9	2.3	2.6	2.6
1969	2.1	2.5	2.9	2.4	2.1	2.0	1.3	1.6	1.5	2.3	3.8	2.8
1970	2.3	3.3	2.3	2.4	2.7	1.6	2.0	2.4	1.3	3.2	2.0	2.7
1971	2.4	2.5	3.6	2.7	2.4	1.2	1.9	2.1	1.4	2.3	2.7	2.7
1972	2.4	2.8	2.5	2.1	3.0	3.0	2.2	1.5	1.6	2.0	2.8	2.9
1973	3.1	3.4	3.0	2.6	2.1	1.6	0.6	1.7	1.6	2.0	3.0	3.5
1974	2.0	2.6	1.8	2.4	2.3	0.8	0.6	0.6	1.1	1.5	2.2	2.5
1975	2.4	2.6	2.4	1.6	1.2	1.8	1.4	0.8	2.2	2.1	1.6	3.1

LARGEST HS(METRES) FOR STATION 115 = 3.8

STATION 116 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1877	2996	1656	704	554	1635		1	.	.	9423
0.50 - 0.99	.	593	3146	1712	578	708	1	.	.	.	6738
1.00 - 1.49	.	.	49	272	246	25	.	.	.	.	592
1.50 - 1.99	.	.	.	.	10	.	.	.	.	.	10
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1877	3589	4851	2688	1388	2368	1	1	0	0	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 1.56 ANGLE CLASS % = 16.8

STATION 116 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	891	961	.	.	816	947	347	17	.	.	3979
0.50 - 0.99	.	1153	2597	550	224	1413	328	13	.	.	6278
1.00 - 1.49	.	.	367	1343	847	1190	304	30	1	.	4082
1.50 - 1.99	.	.	.	63	506	862	237	46	1	.	1715
2.00 - 2.49	.	.	.	.	66	275	119	66	.	.	525
2.50 - 2.99	.	.	.	.	1	5	41	37	3	.	87
3.00 - 3.49	.	.	.	.	.	.	.	6	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	891	2114	2964	1956	2460	4689	1376	215	5	0	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 3.30 ANGLE CLASS % = 16.7

STATION 116 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	518	434	.	.	595	1264	407	17	51	8	3294
0.50 - 0.99	.	605	1108	54	80	1043	386	32	68	.	3376
1.00 - 1.49	.	.	219	622	82	200	177	37	11	.	1348
1.50 - 1.99	.	.	.	83	227	189	10	.	1	.	510
2.00 - 2.49	.	.	.	.	58	237	47	.	.	.	342
2.50 - 2.99	.	.	.	.	.	44	90	22	1	.	157
3.00 - 3.49	.	.	.	.	.	.	10	29	1	.	40
3.50 - 3.99	.	.	.	.	.	.	1	1	.	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	518	1039	1327	759	1042	2977	1128	138	133	8	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.53 ANGLE CLASS % = 9.1

STATION 116 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	687	554			936	951	1329	102	366	248	5173
0.50 - 0.99	.	778	1548	68	147	2757	3093	15	823	847	10076
1.00 - 1.49	.	.	321	892	107	947	980	13	545	437	4796
1.50 - 1.99	.	.	.	108	302	443	268	2	232	177	1729
2.00 - 2.49	.	.	.	.	71	363	148	54	94	167	917
2.50 - 2.99	.	.	.	.	.	34	109	44	5	82	274
3.00 - 3.49	.	.	.	.	.	1	10	32	5	35	83
3.50 - 3.99	.	.	.	.	.	.	.	.	6	10	16
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	687	1332	1869	1060	1563	5416	5936	266	2080	2855	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 4.24 ANGLE CLASS % = 23.1

STATION 116 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	674	704	6	.	761	1755	1071	629	174	44	5818
0.50 - 0.99	.	682	2058	686	487	1242	1534	1043	90	70	7892
1.00 - 1.49	.	.	306	1240	829	1316	646	367	39	1	4747
1.50 - 1.99	.	.	.	39	313	673	386	111	6	.	1628
2.00 - 2.49	.	.	.	.	32	160	215	95	10	.	512
2.50 - 2.99	.	.	.	.	.	1	20	37	1	1	60
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	674	1386	2370	1965	2422	5450	3872	2283	320	116	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.06 ANGLE CLASS % = 20.9

STATION 116 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

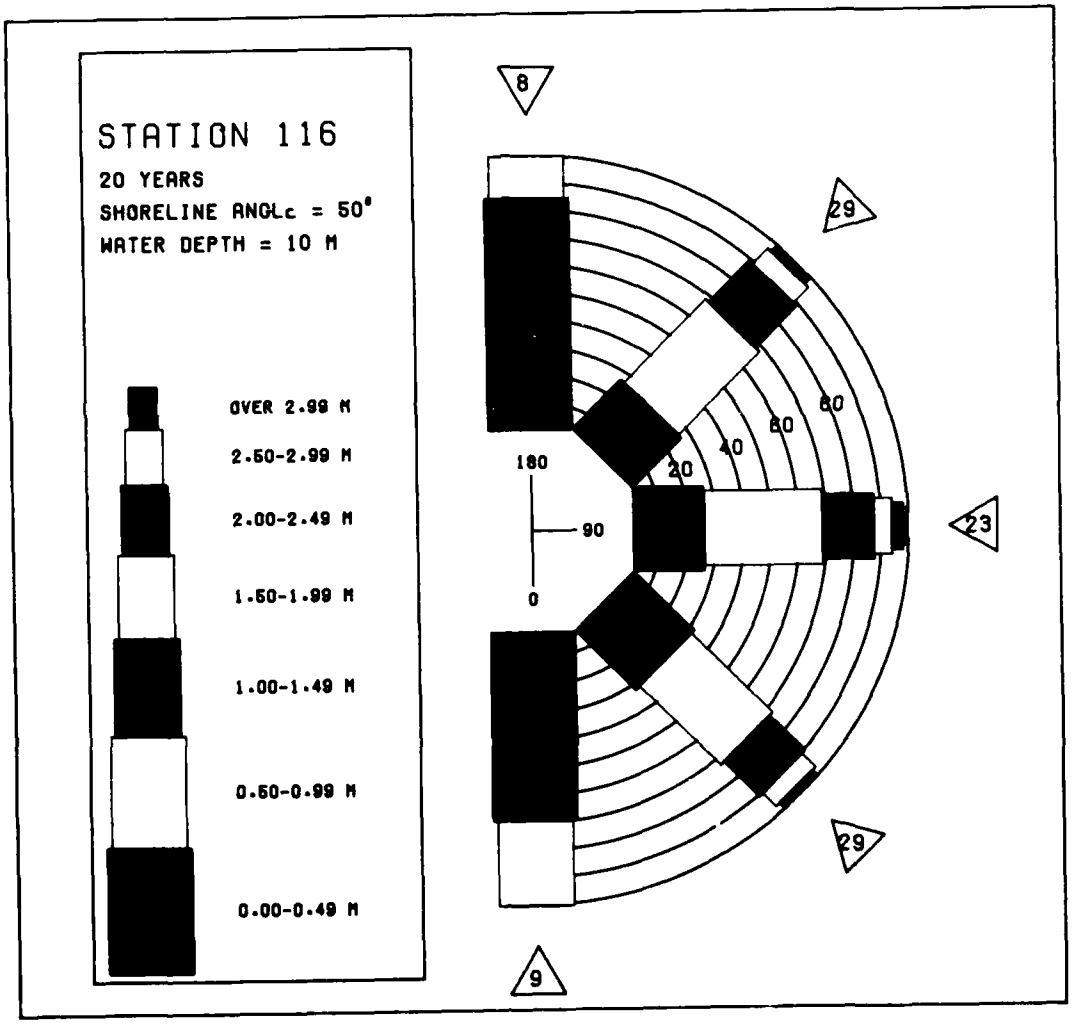
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	920	1606	1706	2833	835	22	.	.	.	.	7922
0.50 - 0.99	.	154	1516	1810	301	10	.	.	.	.	3791
1.00 - 1.49	.	.	17	138	35	1	.	.	.	.	191
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	920	1760	3239	4781	1171	33	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.46 ANGLE CLASS % = 11.9

STATION 116 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 50.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	556	725	336	353	449	657	315	76	59	30	3556
0.50 - 0.99	.	396	1197	468	181	707	534	110	98	101	3812
1.00 - 1.49	.	.	128	450	214	368	210	45	59	99	1573
1.50 - 1.99	.	.	.	29	136	246	90	16	24	36	577
2.00 - 2.49	.	.	.	.	22	105	53	21	10	16	227
2.50 - 2.99	.	.	.	.	.	8	26	14	1	8	57
3.00 - 3.49	.	.	.	.	.	.	2	7	.	3	12
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	556	1121	1661	1320	1002	2091	1230	289	251	294	

AVE HS(M) = 0.74 LARGEST HS(M) = 4.24 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 116

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	1.2	0.6	0.8	0.7	0.7	0.6	0.3	0.6	0.9	0.6	0.5	0.7
1957	0.7	0.9	0.7	0.9	0.5	0.6	0.6	0.8	0.9	0.9	1.1	0.8	0.8
1958	0.7	0.5	0.8	0.9	0.8	0.8	0.7	0.6	0.6	1.2	0.7	0.8	0.8
1959	0.6	1.1	0.9	0.8	0.8	0.6	1.0	0.5	0.9	1.8	1.1	0.8	0.9
1960	0.6	0.9	0.8	0.8	0.7	0.6	0.7	0.6	0.8	0.6	0.6	0.5	0.7
1961	0.7	0.9	1.1	0.8	1.0	1.0	0.8	0.9	0.6	0.7	0.6	0.8	0.8
1962	1.0	0.9	0.9	0.9	0.4	0.8	0.6	0.6	0.6	0.7	0.9	1.1	0.8
1963	0.9	1.2	0.9	0.7	0.7	0.8	0.6	0.6	0.9	1.3	1.2	1.0	0.9
1964	0.6	0.6	0.8	0.9	0.6	0.6	0.8	0.7	1.0	1.0	0.8	1.1	0.8
1965	0.5	1.0	0.7	0.8	0.4	0.7	0.7	0.6	0.8	1.0	0.7	0.4	0.7
1966	0.7	1.0	0.7	0.7	1.0	0.7	0.8	0.6	0.8	0.6	0.7	0.6	0.7
1967	0.6	0.6	0.7	0.7	0.7	1.0	0.9	0.8	0.8	0.6	0.5	0.6	0.7
1968	0.8	0.5	0.5	0.2	0.4	1.0	0.7	0.7	0.6	1.0	0.6	0.4	0.6
1969	0.7	0.6	0.6	0.8	1.0	0.8	0.6	0.8	0.7	0.9	2.0	1.1	0.9
1970	0.7	0.7	1.0	0.7	0.7	0.7	0.6	0.8	0.5	1.3	0.5	0.5	0.7
1971	0.7	0.9	0.6	0.7	0.8	0.5	0.6	0.6	0.8	1.0	0.8	1.5	0.8
1972	0.8	0.7	0.7	0.8	1.2	1.2	1.2	0.7	0.4	0.9	0.8	0.8	0.9
1973	1.0	0.7	0.9	0.8	0.8	0.7	0.2	0.2	0.3	0.5	0.6	0.9	0.6
1974	0.6	0.6	0.6	0.8	0.4	0.3	0.2	0.2	0.3	0.9	0.5	0.5	0.5
1975	0.7	1.5	0.8	0.3	0.2	0.3	0.4	0.1	0.6	0.6	0.5	0.5	0.5
MEAN	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.9	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 116

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.6	1.8	2.5	2.1	1.3	1.2	1.0	2.7	3.2	1.6	1.7
1957	2.1	3.2	2.0	2.7	1.5	2.4	1.9	1.8	2.1	1.8	2.4	2.1
1958	3.1	2.3	2.6	2.5	2.3	1.6	1.3	1.7	2.1	2.3	1.7	3.0
1959	2.5	2.5	2.8	2.1	2.0	1.6	3.3	1.3	3.4	3.1	2.2	2.3
1960	2.5	2.9	2.6	2.3	1.9	1.9	2.9	1.2	3.3	1.7	2.1	2.1
1961	3.2	2.8	2.8	2.9	2.1	2.2	1.5	2.1	2.0	1.9	2.3	2.3
1962	2.5	2.1	2.4	2.7	1.3	1.8	1.4	2.6	2.1	2.0	4.2	3.0
1963	2.0	2.6	2.2	2.3	2.0	1.5	1.1	1.3	2.6	3.3	2.7	2.5
1964	2.5	2.7	2.2	2.3	2.1	2.3	2.0	2.5	3.2	2.9	2.5	2.1
1965	2.3	2.9	2.2	2.4	1.3	2.0	1.9	1.2	1.8	2.5	1.7	1.4
1966	3.3	3.0	2.6	1.7	2.0	2.8	2.4	1.3	2.1	1.6	2.1	1.7
1967	2.2	2.3	2.1	2.0	2.1	2.0	2.0	2.0	2.3	1.6	1.9	2.7
1968	2.6	1.5	2.9	1.3	1.3	2.5	1.5	1.2	1.0	2.3	2.5	2.4
1969	2.1	2.9	2.9	2.2	2.1	2.0	1.3	1.7	1.6	2.6	4.0	2.7
1970	2.4	3.1	2.2	2.4	2.7	1.5	1.9	2.4	1.3	3.2	2.5	2.5
1971	2.2	2.3	3.5	2.6	2.3	1.0	1.8	2.1	1.5	2.8	2.7	3.0
1972	2.2	2.7	2.2	2.0	3.3	2.8	2.5	1.4	1.3	1.9	2.6	2.7
1973	3.0	3.2	2.7	2.3	2.1	1.6	0.6	1.5	1.9	1.7	2.6	3.3
1974	1.9	2.5	1.6	2.3	2.2	0.7	0.6	0.6	1.5	1.9	2.3	2.5
1975	2.3	3.1	2.4	1.3	1.1	1.7	1.3	0.8	2.3	2.0	1.9	2.9

LARGEST HS(METRES) FOR STATION 116 = 4.2

STATION 117 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1805	2715	1622	718	550	1485	1	.	.	.	8896
0.50 - 0.99	.	523	3095	1637	557	766	.	.	.	.	6578
1.00 - 1.49	.	.	44	268	174	34	.	.	.	.	520
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1805	3238	4761	2623	1286	2285	1	0	0	0	

AVERAGE HS(M) = 0.47 LARGEST HS(M) = 1.91 ANGLE CLASS % = 16.0

STATION 117 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	905	1187	.	.	1079	888	302	18	.	.	4379
0.50 - 0.99	.	1238	2754	597	265	1425	342	11	.	.	6631
1.00 - 1.49	.	.	352	1500	958	1161	285	23	1	.	4260
1.50 - 1.99	.	.	.	80	561	884	241	49	.	.	1815
2.00 - 2.49	.	.	.	.	68	296	138	66	1	.	569
2.50 - 2.99	.	.	.	.	1	10	29	32	.	.	72
3.00 - 3.49	.	.	.	.	.	.	.	6	1	.	7
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	905	2425	3105	2177	2932	4664	1337	205	3	0	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 3.30 ANGLE CLASS % = 17.8

STATION 117 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	578	458	.	.	316	1235	410	17	49	8	3071
0.50 - 0.99	.	669	1110	59	53	1071	361	54	68	.	3445
1.00 - 1.49	.	.	236	593	83	265	184	37	11	.	1409
1.50 - 1.99	.	.	.	68	224	203	15	.	1	.	511
2.00 - 2.49	.	.	.	.	59	251	51	.	.	.	361
2.50 - 2.99	.	.	.	.	.	42	102	27	1	.	172
3.00 - 3.49	.	.	.	.	.	.	11	29	3	.	43
3.50 - 3.99	.	.	.	.	.	.	1	1	.	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	578	1127	1346	720	735	3067	1165	145	133	8	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.53 ANGLE CLASS % = 9.0

STATION 117 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	698	600			937	956	1300	491	367	260	5609
0.50 - 0.99	.	812	1692	77	154	2654	3069	879	807	529	11073
1.00 - 1.49	.	.	359	905	116	930	929	222	540	1026	5027
1.50 - 1.99	.	.	.	109	299	419	258	36	248	347	1719
2.00 - 2.49	.	.	.	.	70	369	138	21	59	165	822
2.50 - 2.99	.	.	.	.	.	32	104	42	3	78	259
3.00 - 3.49	.	.	.	.	.	1	10	29	5	25	70
3.50 - 3.99	.	.	.	.	.	.	.	.	6	15	21
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	698	1412	2051	1091	1576	5361	5808	1753	2035	2845	

AVERAGE HS(M) = 0.89 LARGEST HS(M) = 3.92 ANGLE CLASS % = 24.7

STATION 117 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	662	665	22		742	1741	1098	254	181	46	5411
0.50 - 0.99	.	648	2111	639	465	1187	1563	196	107	68	6984
1.00 - 1.49	.	.	251	1163	734	1389	674	140	49	1	4401
1.50 - 1.99	.	.	.	39	301	853	350	82	11	1	1637
2.00 - 2.49	.	.	.	.	25	155	188	95	13	.	476
2.50 - 2.99	.	.	.	.	.	.	23	35	1	3	62
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	662	1313	2384	1841	2267	5325	3896	805	362	119	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.05 ANGLE CLASS % = 19.0

STATION 117 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

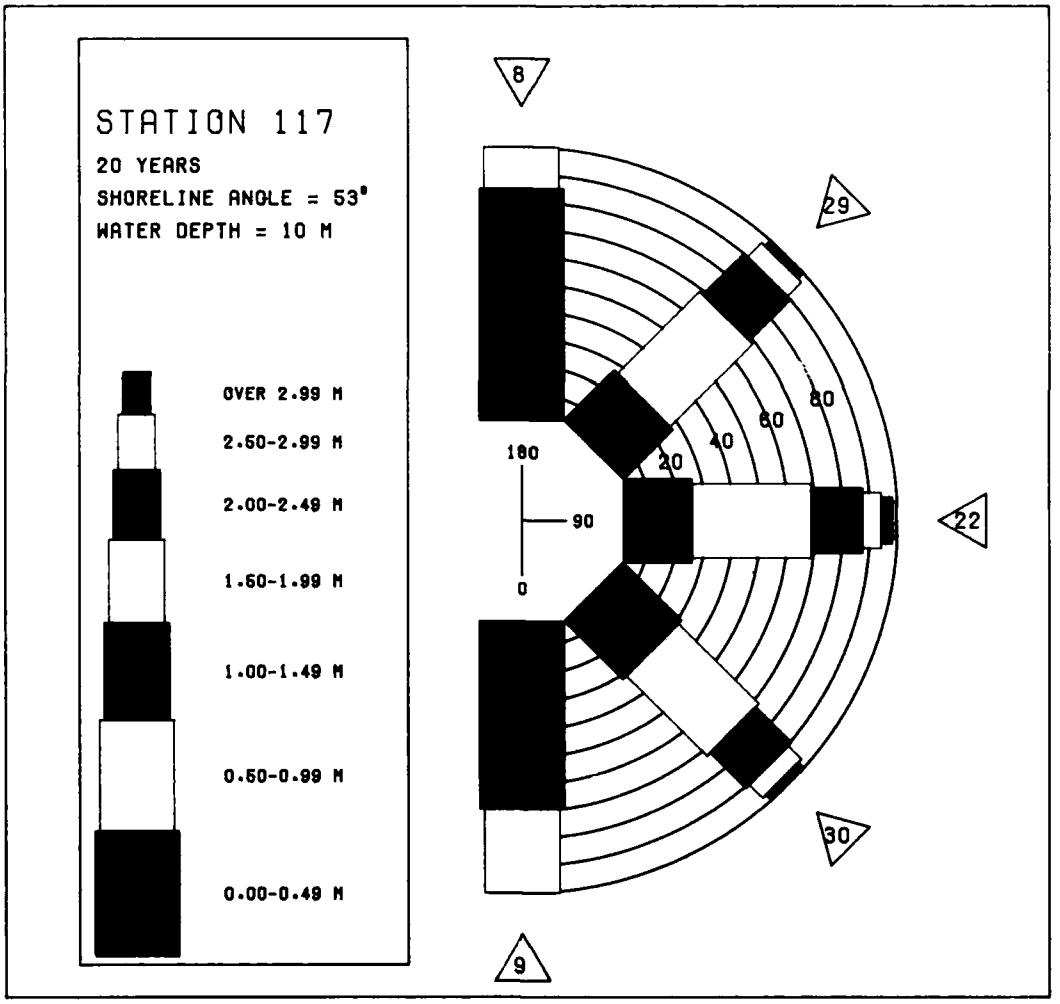
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	946	1644	1741	2780	759	18	.	.	.	.	7888
0.50 - 0.99	.	165	1312	1795	359	8	.	.	.	.	3639
1.00 - 1.49	.	.	15	100	58	1	.	.	.	.	174
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	946	1809	3068	4675	1176	27	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.45 ANGLE CLASS % = 11.7

STATION 117 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 53.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	559	727	338	349	438	632	311	78	59	31	3522
0.50 - 0.99	.	405	1207	480	185	711	536	112	98	99	3833
1.00 - 1.49	.	.	125	453	212	378	207	42	60	102	1579
1.50 - 1.99	.	.	.	29	139	236	86	17	26	34	567
2.00 - 2.49	.	.	.	.	22	107	51	21	7	16	224
2.50 - 2.99	.	.	.	.	.	8	26	13	.	8	55
3.00 - 3.49	.	.	.	.	.	.	2	6	1	2	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	559	1132	1670	1311	996	2072	1219	289	251	293	

AVE HS(M) = 0.73 LARGEST HS(M) = 3.92 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 117

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	1.2	0.6	0.8	0.7	0.7	0.6	0.3	0.6	0.9	0.6	0.6	0.7
1957	0.7	0.9	0.7	0.9	0.5	0.6	0.6	0.8	0.9	0.9	1.1	0.8	0.8
1958	0.7	0.5	0.8	0.9	0.7	0.8	0.7	0.6	0.6	1.2	0.7	0.8	0.8
1959	0.6	1.1	0.9	0.8	0.8	0.6	1.0	0.6	0.9	1.8	1.1	0.8	0.9
1960	0.6	0.9	0.8	0.8	0.7	0.6	0.7	0.6	0.8	0.6	0.6	0.5	0.7
1961	0.7	0.9	1.1	0.8	1.0	1.0	0.8	0.9	0.6	0.7	0.6	0.8	0.8
1962	1.0	0.9	0.9	0.9	0.4	0.8	0.6	0.6	0.6	0.6	0.9	1.1	0.8
1963	0.9	1.2	0.9	0.7	0.7	0.8	0.6	0.6	0.9	1.3	1.2	1.0	0.9
1964	0.7	0.6	0.8	0.9	0.6	0.6	0.8	0.7	1.0	1.0	0.8	1.1	0.8
1965	0.5	1.0	0.7	0.8	0.4	0.7	0.7	0.6	0.8	1.0	0.7	0.4	0.7
1966	0.7	1.0	0.7	0.7	0.9	0.7	0.8	0.6	0.8	0.6	0.6	0.5	0.7
1967	0.6	0.6	0.7	0.7	0.7	1.0	0.9	0.8	0.8	0.6	0.5	0.6	0.7
1968	0.8	0.5	0.5	0.2	0.4	1.0	0.7	0.7	0.6	0.9	0.6	0.4	0.6
1969	0.7	0.6	0.6	0.8	1.0	0.8	0.6	0.7	0.7	0.8	1.9	1.1	0.9
1970	0.7	0.7	1.0	0.8	0.7	0.7	0.7	0.9	0.5	1.2	0.5	0.5	0.7
1971	0.7	0.9	0.6	0.7	0.8	0.5	0.6	0.6	0.8	1.0	0.8	1.5	0.8
1972	0.8	0.7	0.7	0.8	1.2	1.3	1.2	0.7	0.4	0.9	0.8	0.8	0.9
1973	1.0	0.7	0.9	0.8	0.8	0.7	0.2	0.2	0.3	0.5	0.6	0.9	0.6
1974	0.6	0.6	0.6	0.8	0.4	0.3	0.2	0.2	0.3	0.9	0.5	0.5	0.5
1975	0.7	1.4	0.8	0.3	0.2	0.3	0.4	0.1	0.6	0.6	0.4	0.5	0.5
MEAN	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.9	0.8	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 117

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.5	1.9	2.7	2.1	1.3	1.2	1.0	2.8	3.3	1.6	1.7
1957	2.1	3.2	2.1	2.8	1.5	2.4	1.9	1.7	2.1	1.7	2.4	2.1
1958	3.1	2.3	2.6	2.5	2.2	1.6	1.3	1.8	2.1	2.3	1.7	3.0
1959	2.5	2.5	3.0	2.1	2.0	1.6	3.3	1.4	3.4	3.1	2.2	2.3
1960	2.5	2.9	2.6	2.4	1.8	1.9	2.9	1.2	3.3	1.7	2.0	2.1
1961	3.2	2.6	2.8	2.9	2.1	2.2	1.5	2.1	2.1	1.9	2.3	2.4
1962	2.5	2.2	2.4	2.7	1.3	1.8	1.4	2.6	2.1	1.9	3.8	2.6
1963	2.0	2.6	2.2	2.3	2.0	1.5	1.2	1.3	2.6	3.3	2.7	2.5
1964	2.5	2.7	2.2	2.3	2.1	2.3	2.0	2.5	3.3	2.9	2.5	2.1
1965	2.3	3.0	2.2	2.3	1.3	2.0	1.9	1.2	1.8	2.5	1.7	1.4
1966	3.3	3.1	2.6	1.7	2.0	2.9	2.4	1.3	2.0	1.6	2.1	1.7
1967	2.2	2.3	2.1	2.0	2.1	2.0	2.0	2.0	2.3	1.6	1.9	2.7
1968	2.6	1.5	2.9	1.3	1.3	2.5	1.5	1.2	1.0	2.3	2.5	2.4
1969	2.1	2.7	2.9	2.3	2.1	2.0	1.3	1.5	1.6	2.6	3.9	2.7
1970	2.4	3.1	2.2	2.4	2.7	1.5	2.0	2.4	1.3	3.2	2.3	2.6
1971	2.3	2.3	3.5	2.6	2.3	1.1	1.8	2.1	1.4	2.6	2.7	3.0
1972	2.2	2.7	2.4	2.0	3.1	2.8	2.3	1.4	1.5	1.9	2.6	2.8
1973	3.0	3.2	2.9	2.3	2.1	1.6	0.6	1.6	1.7	1.8	2.8	3.3
1974	1.9	2.5	1.7	2.3	2.2	0.8	0.6	0.6	1.3	1.9	2.3	2.5
1975	2.3	3.1	2.4	1.5	1.1	1.7	1.3	0.8	2.2	2.1	1.8	2.9

LARGEST HS(METRES) FOR STATION 117 = 3.9

STATION 118 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 45.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2357	4048	2226	828	761	1668	17	.	.	.	11905
0.50 - 0.99	.	527	2912	1652	720	539	.	.	.	.	6350
1.00 - 1.49	.	.	34	217	177	34	.	.	.	.	462
1.50 - 1.99	.	.	.	.	13	.	.	.	.	.	13
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2357	4575	5172	2697	1671	2241	17	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.80 ANGLE CLASS % = 18.7

STATION 118 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 45.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1237	1377	.	.	682	906	106	1	.	.	4309
0.50 - 0.99	.	1113	2328	484	198	1007	100	.	.	.	5230
1.00 - 1.49	.	.	263	1036	612	882	189	.	.	.	2982
1.50 - 1.99	.	.	.	71	445	723	184	17	.	.	1441
2.00 - 2.49	.	.	.	.	71	222	99	41	.	.	433
2.50 - 2.99	.	.	.	.	.	5	27	30	.	.	62
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1237	2490	2591	1591	2009	3745	705	90	0	0	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.09 ANGLE CLASS % = 14.5

STATION 118 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 45.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	663	540	.	.	506	639	354	5	3	1	2711
0.50 - 0.99	.	645	1064	56	111	525	82	15	10	1	2509
1.00 - 1.49	.	.	181	537	75	359	51	1	1	.	1205
1.50 - 1.99	.	.	.	39	152	157	63	1	.	.	412
2.00 - 2.49	.	.	.	.	49	198	68	6	1	.	322
2.50 - 2.99	.	.	.	.	.	29	85	18	.	.	132
3.00 - 3.49	.	.	.	.	.	.	5	18	.	.	23
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	663	1185	1245	632	893	1907	708	64	15	2	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.37 ANGLE CLASS % = 7.3

STATION 118 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 45.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	805	759			1018	1382	2481	687	545	542	8219
0.50 - 0.99	.	797	1548	77	164	2563	4437	1211	845	1273	12915
1.00 - 1.49	.	.	273	797	94	716	922	331	665	592	4390
1.50 - 1.99	.	.	.	104	308	325	159	73	275	253	1497
2.00 - 2.49	.	.	.	.	59	408	179	25	20	94	785
2.50 - 2.99	.	.	.	.	.	18	126	42	5	44	235
3.00 - 3.49	.	.	.	.	.	.	11	22	5	13	51
3.50 - 3.99	.	.	.	.	.	.	.	8	1	1	10
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	805	1556	1821	978	1643	5412	8315	2399	2361	2813	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 5.31 ANGLE CLASS % = 28.1

STATION 118 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 45.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	790	1038	5		918	1889	764	200	131	.	5735
0.50 - 0.99	.	706	2265	1052	186	1473	532	42	25	.	6281
1.00 - 1.49	.	.	270	1714	479	840	381	23	3	.	3710
1.50 - 1.99	.	.	.	71	335	744	412	13	.	.	1575
2.00 - 2.49	.	.	.	.	46	222	200	11	1	.	480
2.50 - 2.99	.	.	.	.	.	11	41	5	.	.	57
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	790	1744	2540	2837	1964	5179	2330	294	160	0	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 2.93 ANGLE CLASS % = 17.9

STATION 118 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 45.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

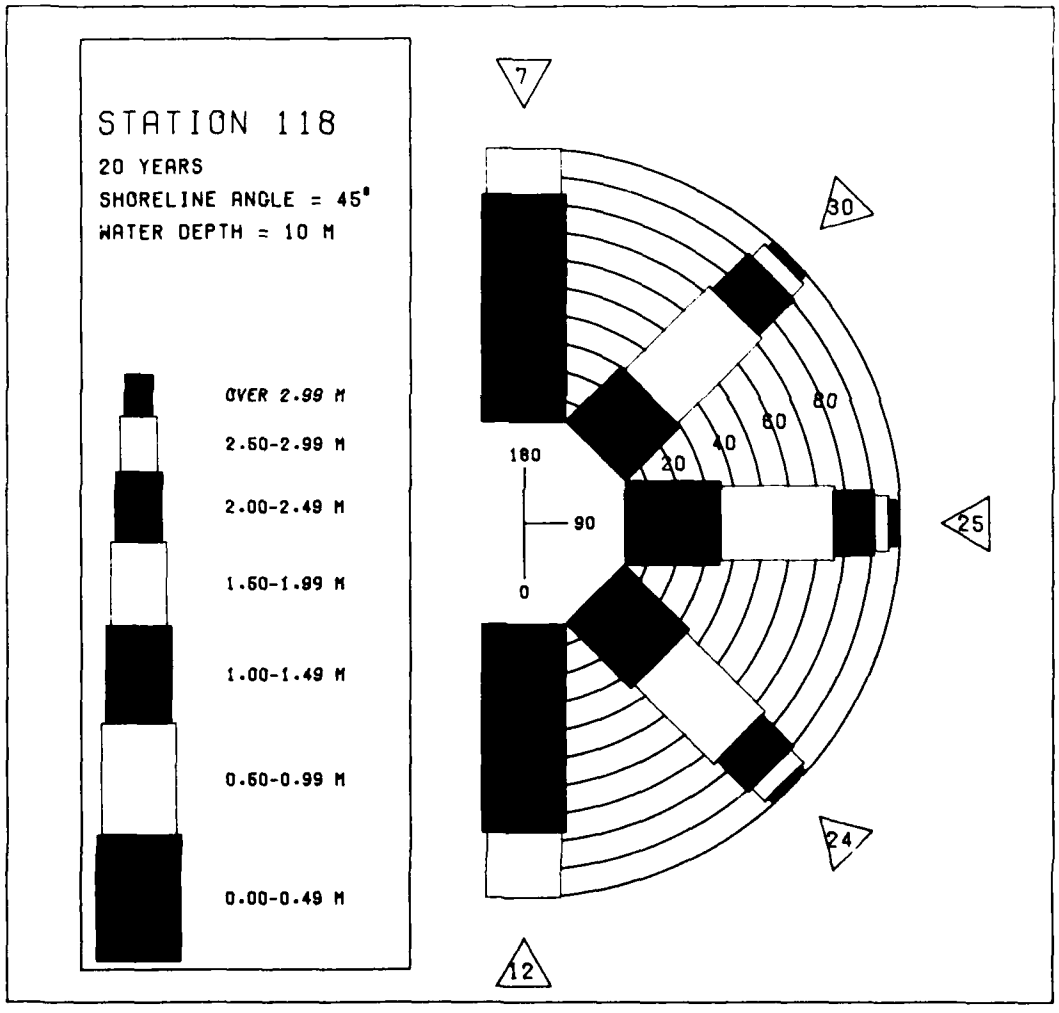
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1018	1907	1676	1937	554	56	.	.	.	.	7148
0.50 - 0.99	.	131	1464	2368	159	.	.	.	.	.	4122
1.00 - 1.49	.	.	17	299	17	.	.	.	.	.	333
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1018	2038	3157	4604	730	56	0	0	0	0	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 1.46 ANGLE CLASS % = 11.6

STATION 118 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 45.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	687	967	390	276	444	654	372	89	68	54	4001
0.50 - 0.99	.	392	1158	569	154	610	515	126	88	127	3739
1.00 - 1.49	.	.	104	460	145	283	154	35	67	59	1307
1.50 - 1.99	.	.	.	28	125	196	81	10	27	25	491
2.00 - 2.49	.	.	.	.	22	105	54	8	2	9	200
2.50 - 2.99	.	.	.	.	.	6	22	9	.	4	47
3.00 - 3.49	.	.	.	.	.	.	1	4	.	1	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	687	1359	1652	1333	890	1853	1205	281	252	279	

AVE HS(M) = 0.68 LARGEST HS(M) = 5.31 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 118

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.1	0.5	0.7	0.6	0.7	0.5	0.3	0.5	0.9	0.6	0.5	0.6
1957	0.7	0.9	0.6	0.9	0.5	0.6	0.5	0.7	0.8	0.9	1.1	0.7	0.7
1958	0.6	0.5	0.7	0.9	0.7	0.7	0.6	0.5	0.6	1.1	0.7	0.8	0.7
1959	0.6	1.1	0.9	0.8	0.7	0.6	0.9	0.5	1.0	1.6	1.1	0.8	0.9
1960	0.6	0.9	0.9	0.7	0.6	0.6	0.6	0.5	0.9	0.7	0.7	0.5	0.7
1961	0.6	0.9	1.0	0.7	0.9	0.9	0.7	0.8	0.6	0.7	0.6	0.8	0.8
1962	0.8	0.8	0.9	0.8	0.4	0.7	0.5	0.6	0.6	0.6	0.9	1.0	0.7
1963	0.7	1.1	0.9	0.7	0.7	0.7	0.4	0.3	0.9	1.2	1.0	0.9	0.8
1964	0.6	0.5	0.8	0.9	0.5	0.6	0.7	0.7	1.0	1.0	0.8	1.0	0.8
1965	0.5	0.9	0.7	0.8	0.4	0.6	0.6	0.5	0.9	0.9	0.7	0.4	0.7
1966	0.6	1.0	0.6	0.7	0.9	0.6	0.9	0.6	0.7	0.6	0.7	0.6	0.7
1967	0.6	0.6	0.7	0.7	0.6	0.9	0.7	0.6	0.8	0.6	0.4	0.6	0.6
1968	0.8	0.4	0.4	0.2	0.3	0.9	0.7	0.6	0.6	0.9	0.6	0.4	0.6
1969	0.7	0.6	0.5	0.7	0.9	0.8	0.5	0.7	0.7	0.9	1.7	0.9	0.8
1970	0.6	0.6	0.9	0.7	0.6	0.6	0.5	0.6	0.4	1.2	0.4	0.5	0.6
1971	0.6	0.8	0.6	0.6	0.6	0.4	0.5	0.6	0.8	0.9	0.8	1.4	0.7
1972	0.8	0.7	0.7	0.7	1.2	1.0	1.0	0.6	0.4	1.0	0.8	0.8	0.8
1973	1.0	0.7	0.8	0.7	0.7	0.6	0.2	0.2	0.3	0.5	0.5	0.9	0.6
1974	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.3	1.0	0.5	0.5	0.4
1975	0.7	1.3	0.7	0.3	0.2	0.3	0.3	0.1	0.6	0.6	0.5	0.5	0.5
MEAN	0.6	0.8	0.7	0.7	0.6	0.7	0.6	0.5	0.7	0.9	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 118

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.7	1.8	2.5	2.1	1.1	1.1	1.0	2.8	2.8	2.0	1.8
1957	2.1	3.0	2.0	2.7	1.4	2.4	1.5	1.7	2.3	1.8	2.4	2.1
1958	2.9	2.4	2.4	2.6	2.3	1.8	1.1	1.5	1.8	2.1	1.5	2.9
1959	2.6	2.5	2.7	2.1	1.9	1.8	3.1	1.3	3.7	3.0	2.1	2.5
1960	2.4	2.8	2.6	2.3	1.5	1.8	2.7	1.1	3.4	1.4	2.0	2.2
1961	3.4	2.6	2.8	2.8	2.1	2.2	1.3	2.0	1.6	2.0	2.2	2.2
1962	2.5	2.1	2.6	2.4	1.2	1.7	1.3	2.6	2.3	2.1	3.2	2.3
1963	1.9	2.6	2.3	2.3	2.0	1.5	1.0	1.3	3.2	3.2	2.5	2.8
1964	2.5	2.2	2.0	2.3	2.0	2.2	1.7	2.5	3.7	2.7	2.4	2.1
1965	2.3	3.0	1.9	2.3	1.3	1.8	1.5	1.3	2.1	3.2	1.4	1.3
1966	3.3	3.0	2.5	2.0	2.1	2.7	2.2	1.3	1.9	1.5	2.5	1.8
1967	1.9	1.7	1.9	2.2	2.1	2.1	2.0	2.1	2.1	1.5	2.0	2.6
1968	2.7	1.6	2.7	1.1	1.2	2.5	1.5	1.1	1.0	2.4	2.1	2.4
1969	1.9	2.8	2.7	2.0	2.0	2.1	1.0	1.5	1.9	2.7	5.3	2.6
1970	2.4	3.1	2.1	2.4	2.5	1.4	1.6	1.9	1.2	3.2	2.1	2.4
1971	2.0	2.3	3.3	2.4	2.1	1.1	1.8	1.7	1.4	2.6	2.2	3.0
1972	2.2	2.6	2.3	2.0	3.2	2.9	2.4	1.2	1.3	2.4	2.5	2.6
1973	2.8	3.1	2.6	2.2	2.0	1.6	0.7	1.1	1.9	1.8	2.5	3.0
1974	1.9	2.5	1.4	2.0	2.2	0.8	0.6	0.6	1.4	2.2	2.3	2.5
1975	2.3	2.8	2.4	1.5	0.9	1.6	1.1	0.7	2.4	2.0	1.9	2.8

LARGEST HS(METRES) FOR STATION 118 = 5.3

STATION 119 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 71.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	518	723	670	56	.	.	.	.	.	.	1967
0.50 - 0.99	.	.	78	.	.	.	.	.	.	.	78
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	518	723	748	56	0	0	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 0.66 ANGLE CLASS % = 2.0

STATION 119 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 71.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2477	3886	754	188	723	740	39	.	.	.	8807
0.50 - 0.99	.	1101	4709	2000	636	1143	49	1	.	.	9639
1.00 - 1.49	.	.	179	1226	918	785	27	.	.	.	3135
1.50 - 1.99	.	.	.	37	378	564	73	.	.	.	1052
2.00 - 2.49	.	.	.	.	68	203	90	8	.	.	369
2.50 - 2.99	.	.	.	.	.	11	10	10	.	.	31
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2477	4987	5642	3451	2723	3446	288	22	0	0	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 3.31 ANGLE CLASS % = 23.1

STATION 119 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 71.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1060	954	.	.	429	319	39	.	.	.	2801
0.50 - 0.99	.	860	1510	90	154	799	121	1	.	.	3534
1.00 - 1.49	.	.	183	704	118	571	119	1	1	.	1697
1.50 - 1.99	.	.	.	71	292	371	130	1	.	.	865
2.00 - 2.49	.	.	.	.	106	376	138	5	1	.	626
2.50 - 2.99	.	.	.	.	.	37	114	44	.	.	195
3.00 - 3.49	.	.	.	.	.	.	18	46	.	.	64
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1060	1814	1693	865	1099	2473	679	97	2	0	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 3.40 ANGLE CLASS % = 9.8

STATION 119 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 71.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1091	934	.	.	1172	2113	2452	299	83	727	8871
0.50 - 0.99	.	949	1623	116	94	2772	3086	128	159	1250	10177
1.00 - 1.49	.	.	203	764	92	691	506	.	160	323	2739
1.50 - 1.99	.	.	.	53	248	258	70	.	123	179	931
2.00 - 2.49	.	.	.	.	54	260	92	8	1	65	480
2.50 - 2.99	.	.	.	.	.	27	67	23	.	11	148
3.00 - 3.49	.	.	.	.	.	.	5	20	1	3	29
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1091	1883	1826	933	1660	6121	6298	478	527	2559	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 4.85 ANGLE CLASS % = 23.4

STATION 119 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 71.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	915	1098	15	15	1096	2479	1466	1220	971	58	9333
0.50 - 0.99	.	754	2007	706	412	978	821	484	494	10	6666
1.00 - 1.49	.	.	126	893	586	539	330	68	118	18	2678
1.50 - 1.99	.	.	.	18	155	526	176	17	11	6	911
2.00 - 2.49	.	.	.	.	20	88	61	13	.	1	183
2.50 - 2.99	.	.	.	.	.	1	5	10	1	.	17
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	915	1852	2148	1632	2269	4613	2859	1813	1595	93	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 3.06 ANGLE CLASS % = 19.8

STATION 119 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 71.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

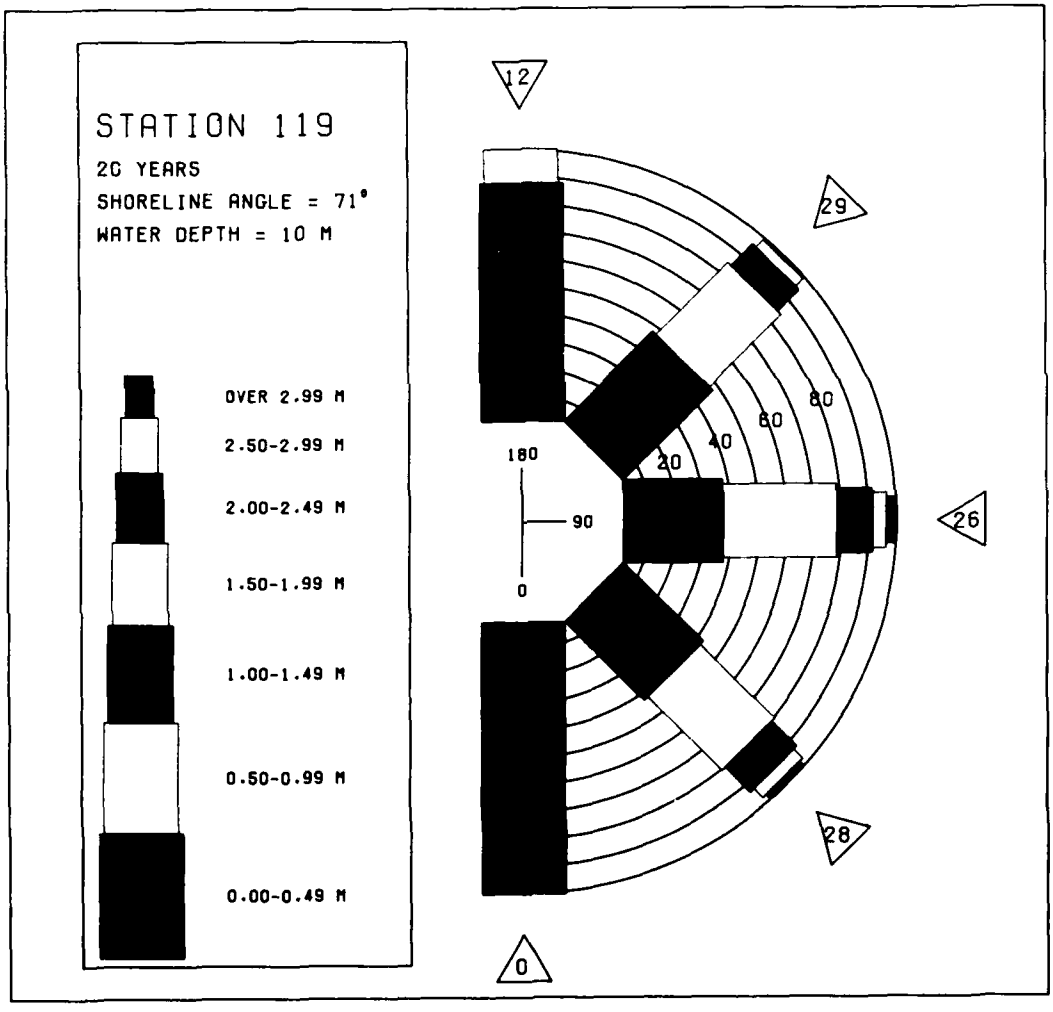
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1870	3285	3521	4204	862	17	.	.	.	.	13759
0.50 - 0.99	.	140	1476	2248	273	5	.	.	.	.	4142
1.00 - 1.49	.	.	6	71	22	.	.	.	.	.	99
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1870	3425	5003	6523	1157	22	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.40 ANGLE CLASS % = 18.0

STATION 119 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 71.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	793	1088	496	446	428	567	399	151	105	78	4551
0.50 - 0.99	.	380	1140	516	157	569	407	61	65	126	3421
1.00 - 1.49	.	.	69	366	173	258	98	7	28	34	1033
1.50 - 1.99	.	.	.	18	107	172	45	1	13	18	374
2.00 - 2.49	.	.	.	.	24	92	38	3	.	6	163
2.50 - 2.99	.	.	.	.	.	7	21	8	.	1	37
3.00 - 3.49	.	.	.	.	.	.	2	7	.	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	793	1468	1705	1346	889	1665	1010	238	211	263	

AVE HS(M) = 0.61 LARGEST HS(M) = 4.85 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 119

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.1	0.5	0.7	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.5	0.5
1957	0.5	0.8	0.6	0.9	0.4	0.6	0.5	0.5	0.7	0.5	1.0	0.7	0.6
1958	0.6	0.6	0.7	0.9	0.7	0.7	0.6	0.5	0.5	0.7	0.5	0.6	0.6
1959	0.5	1.0	0.8	0.8	0.7	0.5	0.9	0.5	0.7	1.5	0.9	0.6	0.8
1960	0.5	0.8	0.8	0.7	0.6	0.6	0.6	0.4	0.7	0.5	0.5	0.4	0.6
1961	0.6	0.8	0.9	0.8	0.8	0.9	0.7	0.8	0.4	0.5	0.6	0.8	0.7
1962	0.7	0.8	0.7	0.8	0.3	0.7	0.5	0.5	0.5	0.5	0.7	0.8	0.6
1963	0.6	0.8	0.9	0.7	0.5	0.6	0.4	0.3	0.6	0.8	0.9	0.7	0.7
1964	0.6	0.6	0.8	0.9	0.4	0.5	0.7	0.6	0.7	0.8	0.7	0.9	0.7
1965	0.5	0.9	0.7	0.8	0.4	0.6	0.6	0.5	0.6	0.7	0.5	0.3	0.6
1966	0.6	0.9	0.6	0.7	0.8	0.6	0.8	0.6	0.6	0.4	0.4	0.4	0.6
1967	0.6	0.5	0.6	0.7	0.6	0.7	0.7	0.6	0.5	0.4	0.4	0.5	0.6
1968	0.5	0.3	0.5	0.2	0.3	0.8	0.7	0.6	0.5	0.8	0.6	0.4	0.5
1969	0.6	0.5	0.6	0.7	0.8	0.7	0.5	0.6	0.5	0.6	1.6	1.0	0.7
1970	0.6	0.6	0.9	0.7	0.6	0.6	0.5	0.6	0.4	0.9	0.3	0.5	0.6
1971	0.6	0.8	0.6	0.6	0.6	0.4	0.5	0.5	0.6	0.7	0.6	1.0	0.6
1972	0.7	0.5	0.7	0.7	1.0	1.0	0.9	0.6	0.3	0.6	0.7	0.6	0.7
1973	0.8	0.6	0.8	0.8	0.7	0.6	0.2	0.2	0.3	0.3	0.5	0.9	0.5
1974	0.5	0.6	0.5	0.6	0.4	0.3	0.2	0.1	0.2	0.5	0.4	0.5	0.4
1975	0.6	1.0	0.7	0.3	0.2	0.3	0.3	0.1	0.5	0.5	0.4	0.4	0.4
MEAN	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 119

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	2.4	2.0	2.8	1.5	1.1	1.2	1.1	2.8	1.7	0.9	2.0
1957	2.1	2.9	2.0	2.9	1.4	2.4	1.5	1.4	1.7	1.4	2.3	2.2
1958	2.9	2.5	2.3	2.5	2.0	2.0	1.2	1.6	1.4	2.0	1.4	2.9
1959	2.6	2.4	3.0	2.2	1.9	2.0	2.9	1.4	3.5	2.4	2.1	2.3
1960	2.6	3.1	2.6	2.4	1.2	1.9	2.9	1.2	3.3	1.5	2.0	1.7
1961	3.2	2.6	2.7	3.1	2.1	2.2	1.4	2.0	1.6	1.6	2.3	2.4
1962	2.6	2.1	2.5	2.5	1.1	1.5	1.4	2.6	1.9	1.6	3.2	2.0
1963	2.3	2.6	2.4	2.2	1.6	1.4	1.2	1.2	2.6	3.2	2.7	2.3
1964	2.5	2.5	2.3	2.3	1.8	1.9	2.0	2.5	3.3	2.5	2.5	2.1
1965	2.3	3.1	2.1	2.1	1.4	1.8	1.5	1.2	1.1	2.5	1.7	1.3
1966	3.3	3.2	2.6	2.2	2.1	2.9	2.0	1.3	1.7	1.7	1.6	1.7
1967	2.1	1.9	2.2	2.2	2.2	1.8	2.2	1.9	2.2	1.7	2.2	2.8
1968	2.0	1.7	3.1	1.2	1.1	2.2	1.4	0.9	0.8	2.2	2.3	2.8
1969	2.0	2.3	2.9	2.2	2.0	2.0	1.0	1.5	1.6	2.0	4.9	2.7
1970	2.2	3.4	2.1	2.4	2.6	1.8	1.9	1.9	1.1	2.9	1.7	2.5
1971	2.2	2.5	3.4	2.5	2.3	1.3	2.0	1.8	1.2	2.1	2.1	2.4
1972	2.4	2.6	2.4	1.8	2.8	2.9	1.9	1.3	1.4	1.8	2.8	2.8
1973	3.0	3.3	2.9	2.4	2.0	1.5	0.7	1.2	1.8	2.3	2.9	3.3
1974	2.3	2.6	1.7	2.2	2.4	0.9	0.6	0.6	1.0	1.3	2.2	2.5
1975	2.5	2.4	2.4	1.7	1.0	1.6	1.2	0.8	2.4	2.2	1.9	3.0

LARGEST HS(METRES) FOR STATION 119 = 4.9

STATION 120 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2980	4476	2289	1315	378	13	.	.	.	.	11451
0.50 - 0.99	.	506	2849	2270	126	8	.	.	.	.	5759
1.00 - 1.49	.	.	29	309	44	1	.	.	.	.	383
1.50 - 1.99	.	.	.	1	1	.	.	.	.	.	2
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2980	4982	5167	3895	549	22	0	0	0	0	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 1.53 ANGLE CLASS % = 17.6

STATION 120 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1733	1781	.	.	619	888	65	13	.	.	5099
0.50 - 0.99	.	1249	2366	521	90	780	66	5	.	.	5077
1.00 - 1.49	.	.	167	937	381	350	32	.	.	.	1667
1.50 - 1.99	.	.	.	51	275	444	34	.	.	.	804
2.00 - 2.49	.	.	.	.	70	208	41	.	.	.	319
2.50 - 2.99	.	.	.	.	.	15	34	1	.	.	50
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1733	3030	2533	1509	1435	2685	272	19	0	0	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 2.93 ANGLE CLASS % = 13.2

STATION 120 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	862	643	.	.	617	723	296	10	1	13	3165
0.50 - 0.99	.	669	1059	41	142	1057	294	11	54	.	3327
1.00 - 1.49	.	.	157	468	75	506	234	5	3	.	1448
1.50 - 1.99	.	.	.	47	181	246	140	8	1	.	623
2.00 - 2.49	.	.	.	.	53	212	94	5	.	.	364
2.50 - 2.99	.	.	.	.	.	30	114	6	.	.	150
3.00 - 3.49	.	.	.	.	.	.	5	5	1	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	862	1312	1216	556	1068	2774	1177	50	60	13	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.39 ANGLE CLASS % = 9.1

STATION 120 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1129	929	.	.	1018	2289	4057	915	713	1072	12122
0.50 - 0.99	.	995	1587	87	90	1916	3001	874	1125	1545	11220
1.00 - 1.49	.	.	241	747	95	454	383	179	467	386	2932
1.50 - 1.99	.	.	.	75	215	273	186	35	54	66	904
2.00 - 2.49	.	.	.	.	53	294	130	17	23	32	549
2.50 - 2.99	.	.	.	.	.	22	88	22	8	6	146
3.00 - 3.49	.	.	.	.	.	.	3	6	.	1	10
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1129	1924	1828	909	1471	5228	7848	2048	2390	3110	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 4.69 ANGLE CLASS % = 27.9

STATION 120 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1119	1356	18	.	1093	2060	718	174	143	.	6681
0.50 - 0.99	.	826	2529	1069	142	1403	559	32	11	.	6571
1.00 - 1.49	.	.	196	1488	638	641	400	5	6	.	3374
1.50 - 1.99	.	.	.	56	325	588	169	.	1	.	1139
2.00 - 2.49	.	.	.	.	17	212	51	.	.	.	280
2.50 - 2.99	.	.	.	.	.	10	10	.	.	.	20
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1119	2182	2743	2613	2215	4914	1907	211	161	0	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 2.93 ANGLE CLASS % = 18.1

STATION 120 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

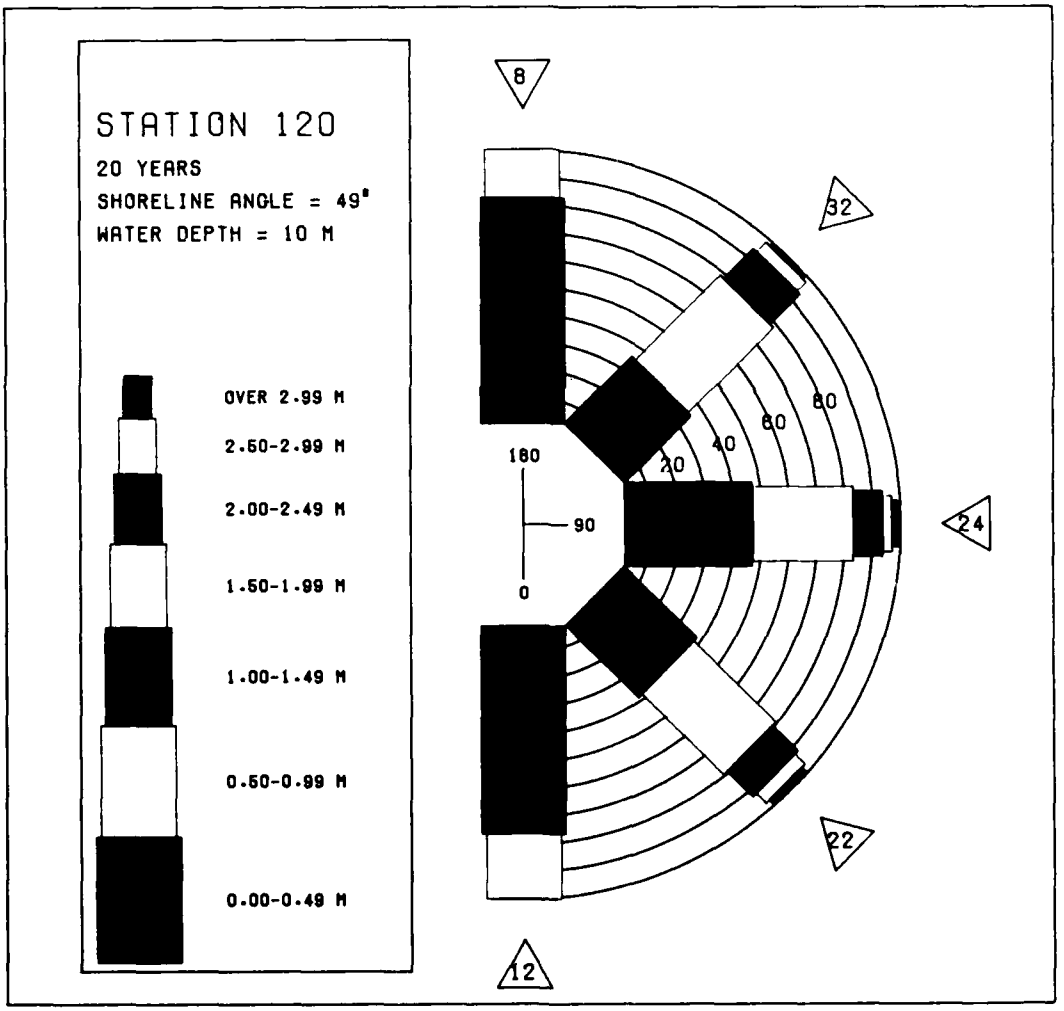
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1326	2397	1885	1687	361	15	.	.	.	.	7671
0.50 - 0.99	.	165	1613	2559	148	1	.	.	.	.	4486
1.00 - 1.49	.	.	8	354	23	.	.	.	.	.	385
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1326	2562	3506	4600	532	16	0	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.42 ANGLE CLASS % = 12.5

STATION 120 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	915	1158	419	300	408	599	513	111	85	108	4616
0.50 - 0.99	.	441	1200	655	74	516	392	92	119	154	3643
1.00 - 1.49	.	.	80	430	125	193	105	18	47	38	1036
1.50 - 1.99	.	.	.	23	99	155	53	4	5	6	345
2.00 - 2.49	.	.	.	.	19	92	31	2	2	3	149
2.50 - 2.99	.	.	.	.	.	7	24	5	.	.	34
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	915	1599	1699	1408	725	1562	1118	231	258	309	

AVE HS(M) = 0.62 LARGEST HS(M) = 4.69 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 120

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.9	0.4	0.7	0.6	0.6	0.4	0.2	0.5	0.7	0.5	0.4	0.5
1957	0.6	0.8	0.6	0.9	0.4	0.6	0.5	0.6	0.7	0.8	1.0	0.7	0.7
1958	0.6	0.5	0.6	0.8	0.6	0.6	0.5	0.4	0.6	0.9	0.6	0.8	0.6
1959	0.6	1.0	0.9	0.7	0.7	0.5	0.8	0.5	0.9	1.3	0.9	0.7	0.8
1960	0.5	0.9	0.8	0.7	0.5	0.6	0.6	0.4	0.8	0.6	0.6	0.5	0.6
1961	0.6	0.8	0.9	0.8	0.7	0.8	0.6	0.7	0.5	0.7	0.6	0.7	0.7
1962	0.8	0.7	0.8	0.8	0.3	0.6	0.4	0.5	0.6	0.5	0.7	0.9	0.6
1963	0.7	1.0	0.8	0.6	0.6	0.6	0.4	0.3	0.8	1.1	1.0	0.8	0.7
1964	0.6	0.6	0.8	0.8	0.5	0.5	0.7	0.6	0.9	0.9	0.8	0.9	0.7
1965	0.5	0.9	0.6	0.7	0.3	0.6	0.5	0.4	0.8	0.8	0.6	0.3	0.6
1966	0.6	0.9	0.6	0.6	0.8	0.6	0.8	0.6	0.6	0.5	0.6	0.5	0.6
1967	0.5	0.5	0.6	0.7	0.6	0.8	0.6	0.6	0.7	0.5	0.4	0.6	0.6
1968	0.7	0.4	0.4	0.2	0.3	0.8	0.6	0.5	0.5	0.8	0.5	0.4	0.5
1969	0.7	0.5	0.5	0.7	0.8	0.7	0.5	0.6	0.6	0.8	1.1	0.8	0.7
1970	0.6	0.6	0.9	0.6	0.6	0.5	0.5	0.5	0.4	1.1	0.4	0.5	0.6
1971	0.5	0.8	0.5	0.5	0.5	0.3	0.4	0.5	0.6	0.7	0.7	1.3	0.6
1972	0.7	0.7	0.6	0.6	1.0	0.8	0.7	0.5	0.4	0.9	0.7	0.7	0.7
1973	0.9	0.7	0.8	0.7	0.6	0.5	0.2	0.2	0.3	0.4	0.5	0.9	0.6
1974	0.5	0.6	0.5	0.5	0.4	0.2	0.2	0.2	0.3	0.8	0.4	0.5	0.4
1975	0.6	1.1	0.7	0.3	0.2	0.3	0.3	0.1	0.5	0.6	0.4	0.5	0.5
MEAN	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.6	0.8	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 120

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.4	1.7	2.5	1.8	1.0	1.0	0.8	2.5	2.0	1.4	1.3
1957	1.7	2.8	2.0	2.8	1.2	1.4	1.2	1.4	2.1	1.8	2.4	2.1
1958	2.7	2.4	2.4	2.6	2.0	1.2	1.2	1.3	1.7	1.8	1.3	2.8
1959	2.6	2.5	2.7	1.9	2.0	1.5	2.9	1.1	3.0	2.7	2.1	2.2
1960	2.3	2.8	2.7	2.2	1.2	1.5	2.8	1.2	3.2	1.4	1.9	2.0
1961	3.4	2.8	2.8	2.8	2.1	2.2	1.1	1.4	1.5	1.8	2.1	2.1
1962	2.4	2.2	2.4	2.4	1.0	1.5	1.2	2.4	2.1	2.1	2.9	2.2
1963	2.2	2.5	2.3	2.2	1.9	1.2	0.9	1.2	2.6	3.0	2.3	2.6
1964	2.4	2.3	2.1	2.2	1.4	1.9	1.6	2.7	2.8	2.9	2.5	2.2
1965	1.6	3.0	2.0	2.1	1.3	1.5	1.1	1.2	1.6	2.6	1.2	1.1
1966	3.2	2.9	2.3	1.9	1.9	2.6	2.2	1.2	1.7	1.7	1.9	1.5
1967	2.0	1.5	1.8	1.8	1.3	1.6	1.7	1.3	2.0	1.4	1.3	2.6
1968	2.0	1.6	2.8	1.0	1.2	2.4	1.4	1.1	0.8	2.2	2.1	2.6
1969	2.0	2.5	2.8	2.5	2.0	2.0	0.9	1.4	1.5	2.5	4.7	2.6
1970	2.3	2.8	2.0	2.4	2.2	1.3	1.4	1.9	1.2	2.7	1.8	2.2
1971	2.4	2.3	2.8	1.6	2.2	0.9	1.2	1.4	1.3	2.8	2.0	2.7
1972	2.2	2.3	2.3	1.6	2.5	3.0	2.0	1.0	1.3	2.0	2.6	2.3
1973	2.7	3.2	2.8	2.2	2.1	1.6	0.7	1.0	2.1	1.2	2.5	3.1
1974	2.1	2.4	1.1	2.0	2.2	0.7	0.6	0.5	1.2	1.7	2.3	2.5
1975	2.4	2.6	2.5	1.3	1.1	1.6	0.9	0.7	2.4	2.2	1.6	2.8

LARGEST HS(METRES) FOR STATION 120 = 4.7

STATION 121 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1124	1844	2058	1009	133	.	.	.	.	.	6168
0.50 - 0.99	.	.	90	23	.	.	.	.	.	.	113
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1124	1844	2148	1032	133	0	0	0	0	0	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 0.65 ANGLE CLASS % = 6.3

STATION 121 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2867	4067	749	362	622	677	80	15	.	.	9439
0.50 - 0.99	.	949	3696	2060	213	954	104	3	.	.	7979
1.00 - 1.49	.	.	87	722	390	451	51	.	.	.	1701
1.50 - 1.99	.	.	.	23	210	398	58	.	.	.	689
2.00 - 2.49	.	.	.	.	53	138	44	.	.	.	235
2.50 - 2.99	.	.	.	.	.	6	18	.	.	.	24
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2867	5016	4532	3167	1488	2624	355	18	0	0	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 2.84 ANGLE CLASS % = 20.1

STATION 121 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	954	706	.	.	780	848	350	23	22	23	3706
0.50 - 0.99	.	713	1155	49	186	1180	284	13	66	.	3646
1.00 - 1.49	.	.	176	489	68	492	220	8	3	.	1476
1.50 - 1.99	.	.	.	44	196	237	119	6	1	.	603
2.00 - 2.49	.	.	.	.	54	219	83	5	.	.	361
2.50 - 2.99	.	.	.	.	.	32	116	8	.	.	156
3.00 - 3.49	.	.	.	.	.	.	3	5	1	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	954	1419	1331	582	1304	3008	1175	68	93	23	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.39 ANGLE CLASS % = 10.0

STATION 121 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1078	905	.	.	1226	2924	4863	1221	819	1363	14399
0.50 - 0.99	.	1009	1502	88	102	1988	3131	927	1201	1594	11542
1.00 - 1.49	.	.	227	744	92	424	374	174	436	355	2826
1.50 - 1.99	.	.	.	71	203	273	191	34	53	65	890
2.00 - 2.49	.	.	.	.	53	297	126	15	25	34	550
2.50 - 2.99	.	.	.	.	.	18	87	20	6	5	136
3.00 - 3.49	.	.	.	.	.	.	3	8	.	1	12
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1078	1914	1729	903	1676	5924	8775	2399	2540	3419	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 4.69 ANGLE CLASS % = 30.4

STATION 121 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1321	1866	142	8	1338	2416	870	32	174	.	8167
0.50 - 0.99	.	713	3011	2063	253	1771	533	13	10	.	8367
1.00 - 1.49	.	.	157	1360	639	756	438	5	8	.	3363
1.50 - 1.99	.	.	.	39	260	578	152	.	.	.	1029
2.00 - 2.49	.	.	.	.	11	189	54	.	.	.	254
2.50 - 2.99	.	.	.	.	.	8	3	.	.	.	11
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1321	2579	3310	3470	2501	5718	2050	50	192	0	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 2.93 ANGLE CLASS % = 21.2

STATION 121 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

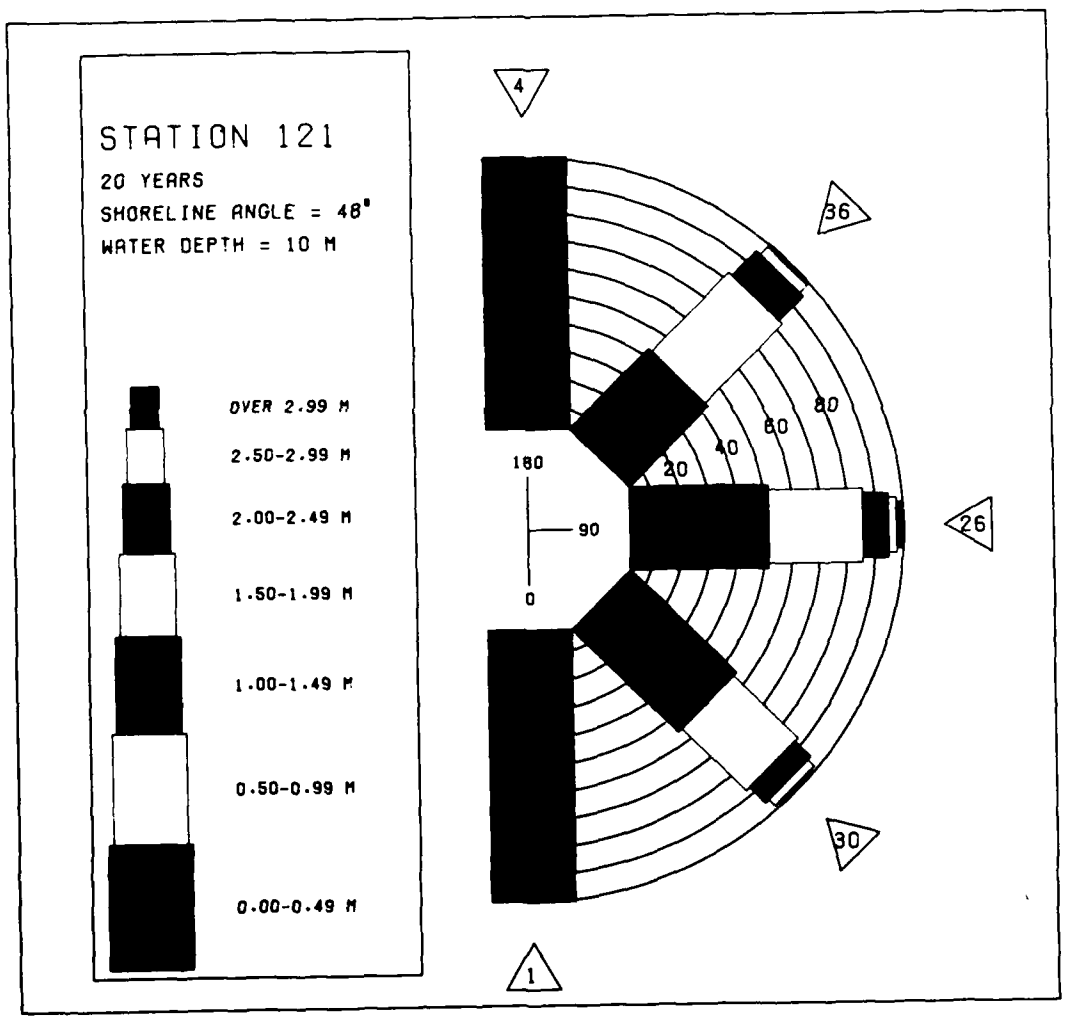
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	978	1735	1834	1704	285	11	.	.	.	.	6547
0.50 - 0.99	.	17	622	1113	25	.	.	.	.	.	1777
1.00 - 1.49	.	.	.	1	.	.	.	.	.	.	1
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	978	1752	2456	2818	310	11	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.03 ANGLE CLASS % = 8.3

STATION 121 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 48.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	832	1112	478	308	438	687	616	129	101	138	4839
0.50 - 0.99	.	340	1007	540	78	589	405	95	127	159	3340
1.00 - 1.49	.	.	64	331	121	212	108	18	44	35	933
1.50 - 1.99	.	.	.	17	87	148	52	4	5	6	319
2.00 - 2.49	.	.	.	.	17	84	30	2	2	3	138
2.50 - 2.99	.	.	.	.	.	6	22	2	.	.	30
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	832	1452	1549	1196	741	1726	1233	251	279	341	

AVE HS(M) = 0.58 LARGEST HS(M) = 4.69 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 121

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.8	0.4	0.6	0.5	0.5	0.4	0.2	0.4	0.7	0.5	0.4	0.5
1957	0.6	0.8	0.5	0.9	0.4	0.5	0.4	0.5	0.7	0.8	0.9	0.6	0.6
1958	0.6	0.4	0.6	0.8	0.6	0.5	0.5	0.3	0.5	0.9	0.6	0.7	0.6
1959	0.5	1.0	0.8	0.7	0.6	0.5	0.8	0.4	0.8	1.3	0.9	0.7	0.7
1960	0.5	0.8	0.8	0.6	0.4	0.5	0.5	0.4	0.8	0.6	0.5	0.4	0.6
1961	0.6	0.8	0.8	0.7	0.7	0.7	0.5	0.6	0.4	0.6	0.6	0.7	0.6
1962	0.7	0.7	0.8	0.7	0.3	0.6	0.4	0.5	0.5	0.5	0.7	0.8	0.6
1963	0.6	1.0	0.8	0.6	0.6	0.6	0.3	0.3	0.7	1.0	1.0	0.8	0.7
1964	0.5	0.5	0.7	0.8	0.4	0.4	0.6	0.6	0.9	0.9	0.7	0.9	0.7
1965	0.4	0.8	0.5	0.6	0.3	0.5	0.5	0.4	0.8	0.8	0.5	0.3	0.5
1966	0.6	0.9	0.5	0.6	0.7	0.6	0.7	0.5	0.5	0.5	0.5	0.5	0.6
1967	0.5	0.5	0.6	0.6	0.5	0.8	0.6	0.5	0.6	0.5	0.3	0.5	0.5
1968	0.6	0.4	0.4	0.2	0.3	0.7	0.5	0.5	0.5	0.8	0.5	0.3	0.5
1969	0.6	0.5	0.5	0.7	0.8	0.(	0.4	0.6	0.6	0.8	1.1	0.7	0.7
1970	0.6	0.5	0.8	0.6	0.5	0.5	0.4	0.5	0.4	1.1	0.3	0.4	0.6
1971	0.5	0.7	0.5	0.4	0.5	0.3	0.4	0.4	0.6	0.7	0.6	1.3	0.6
1972	0.7	0.6	0.6	0.5	1.0	0.8	0.7	0.5	0.4	0.8	0.7	0.6	0.6
1973	0.8	0.6	0.7	0.6	0.6	0.5	0.1	0.2	0.3	0.4	0.5	0.8	0.5
1974	0.5	0.5	0.4	0.5	0.4	0.2	0.2	0.1	0.3	0.8	0.4	0.4	0.4
1975	0.6	1.1	0.7	0.3	0.1	0.2	0.3	0.1	0.5	0.6	0.4	0.5	0.4
MEAN	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.6	0.7	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 121

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.4	1.5	2.3	1.7	0.9	1.0	0.8	2.5	2.0	1.4	1.2
1957	1.7	2.8	2.0	2.8	1.2	1.3	1.2	1.4	2.1	1.8	2.4	2.1
1958	2.7	2.4	2.4	2.6	2.0	1.1	1.0	1.3	1.7	1.8	1.3	2.8
1959	2.6	2.5	2.7	1.9	2.0	1.5	2.9	1.1	3.1	2.7	2.1	2.2
1960	2.3	2.8	2.7	2.2	1.2	1.4	2.8	1.1	3.2	1.4	1.9	2.0
1961	3.4	2.8	2.8	2.7	2.1	2.2	1.0	1.4	1.4	1.8	2.0	2.1
1962	2.4	2.2	2.4	2.4	1.0	1.5	1.1	2.5	2.1	2.0	2.9	2.2
1963	2.0	2.5	2.2	2.1	1.9	1.1	0.9	1.2	2.5	3.0	2.3	2.5
1964	2.4	2.2	2.1	2.2	1.4	1.9	1.5	2.7	2.8	2.8	2.5	2.1
1965	1.5	3.0	1.9	2.1	1.2	1.5	1.0	1.2	1.6	2.6	1.2	1.1
1966	3.2	2.9	2.3	1.8	1.9	2.6	2.2	1.2	1.7	1.8	1.9	1.5
1967	2.0	1.5	1.7	1.8	1.2	1.5	1.6	1.3	2.0	1.4	1.2	2.5
1968	2.0	1.5	2.7	1.0	1.2	2.4	1.4	1.0	0.8	2.2	2.0	2.4
1969	2.0	2.4	2.8	2.5	2.0	2.0	0.9	1.4	1.5	2.5	4.7	2.6
1970	2.3	2.8	2.0	2.4	2.2	1.3	1.4	1.9	1.2	2.7	1.7	2.2
1971	2.2	2.3	2.7	1.5	2.2	0.8	1.1	1.4	1.3	2.8	2.1	2.7
1972	2.2	2.3	2.3	1.5	2.4	3.0	2.0	0.9	1.3	1.9	2.4	2.3
1973	2.7	3.1	2.7	2.2	2.1	1.6	0.6	0.9	2.1	1.1	2.2	3.1
1974	2.0	2.4	0.9	2.0	2.2	0.6	0.6	0.5	1.2	1.6	2.3	2.5
1975	2.4	2.6	2.5	1.3	1.0	1.6	0.9	0.7	2.4	2.2	1.6	2.7

LARGEST HS(METRES) FOR STATION 121 = 4.7

STATION 122 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2267	3473	2520	1314	308	11	.	.	.	.	9893
0.50 - 0.99	.	111	1420	1389	37	.	.	.	.	.	2957
1.00 - 1.49	.	.	1	41	5	.	.	.	.	.	47
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2267	3584	3941	2744	350	11	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.32 ANGLE CLASS % = 12.9

STATION 122 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2186	2655	68	.	696	906	68	15	.	.	6594
0.50 - 0.99	.	1259	3107	1071	174	867	71	3	.	.	6552
1.00 - 1.49	.	.	157	959	402	357	32	.	.	.	1907
1.50 - 1.99	.	.	.	39	258	419	39	.	.	.	755
2.00 - 2.49	.	.	.	.	65	181	41	.	.	.	287
2.50 - 2.99	.	.	.	.	.	13	27	1	.	.	41
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2186	3914	3332	2069	1595	2743	278	19	0	0	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.90 ANGLE CLASS % = 16.1

STATION 122 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	862	679	.	.	681	781	314	10	8	15	3350
0.50 - 0.99	.	698	1059	42	152	1105	304	17	51	.	3428
1.00 - 1.49	.	.	157	467	78	511	241	5	3	.	1462
1.50 - 1.99	.	.	.	46	184	242	130	8	1	.	611
2.00 - 2.49	.	.	.	.	49	213	90	5	.	.	357
2.50 - 2.99	.	.	.	.	.	30	112	6	.	.	148
3.00 - 3.49	.	.	.	.	.	.	5	5	1	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	862	1377	1216	555	1144	2882	1196	56	64	15	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.39 ANGLE CLASS % = 9.4

STATION 122 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1129	929			1062	2503	4315	949	758	1153	12798
0.50 - 0.99	.	995	1587	87	90	1947	3028	879	1148	1548	11309
1.00 - 1.49	.	.	241	747	95	422	574	171	456	369	2875
1.50 - 1.99	.	.	.	75	215	270	164	35	54	66	899
2.00 - 2.49	.	.	.	.	53	294	128	17	23	32	547
2.50 - 2.99	.	.	.	.	.	22	88	22	8	6	146
3.00 - 3.49	.	.	.	.	.	.	3	6	.	1	10
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1129	1924	1828	909	1515	5458	8120	2079	2447	3177	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 4.69 ANGLE CLASS % = 28.6

STATION 122 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1119	1356	18		1160	2149	795	186	154	.	6937
0.50 - 0.99	.	826	2529	1069	138	1403	549	32	11	.	6557
1.00 - 1.49	.	.	196	1488	638	639	402	5	6	.	3374
1.50 - 1.99	.	.	.	56	325	590	167	.	1	.	1139
2.00 - 2.49	.	.	.	.	17	212	51	.	.	.	280
2.50 - 2.99	.	.	.	.	.	10	10	.	.	.	20
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1119	2182	2743	2613	2278	5003	1974	223	172	0	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 2.93 ANGLE CLASS % = 18.3

STATION 122 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

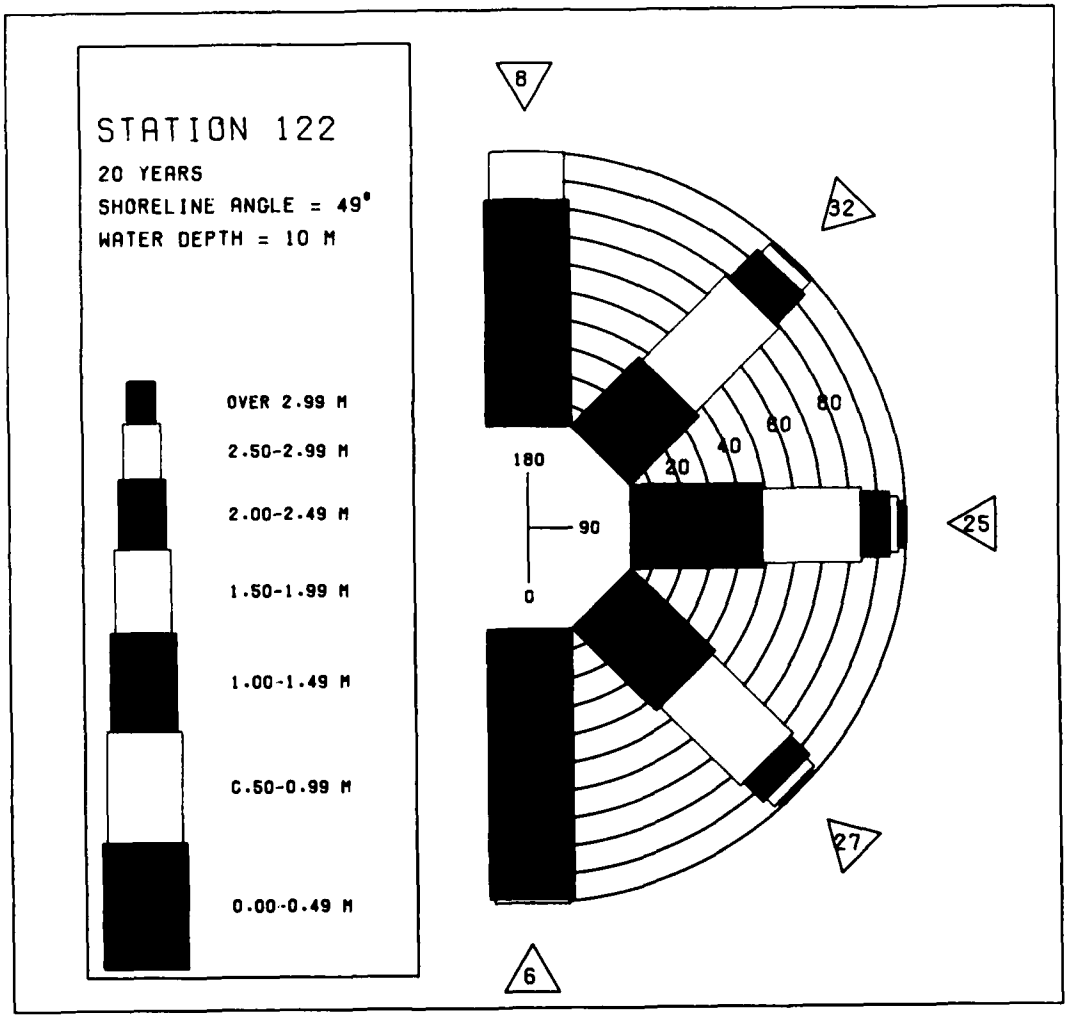
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1326	2397	1887	1694	361	15	.	.	.	.	7680
0.50 - 0.99	.	165	1613	2559	148	1	.	.	.	.	4486
1.00 - 1.49	.	.	8	354	23	.	.	.	.	.	385
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1326	2562	3508	4607	532	16	0	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.42 ANGLE CLASS % = 12.6

STATION 122 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 49.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	889	1149	449	300	426	636	549	116	92	116	4722
0.50 - 0.99	.	405	1131	622	74	532	395	93	121	154	3527
1.00 - 1.49	.	.	76	405	124	193	105	18	46	36	1003
1.50 - 1.99	.	.	.	21	68	152	52	4	5	6	338
2.00 - 2.49	.	.	.	.	18	90	31	2	2	3	146
2.50 - 2.99	.	.	.	.	.	7	23	3	.	.	33
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	889	1554	1656	1348	740	1610	1155	237	266	315	

AVE HS(M) = 0.60 LARGEST HS(M) = 4.69 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 122

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.9	0.4	0.6	0.6	0.5	0.4	0.2	0.5	0.7	0.5	0.4	0.5
1957	0.6	0.8	0.5	0.9	0.4	0.5	0.5	0.6	0.7	0.8	1.0	0.7	0.7
1958	0.6	0.5	0.6	0.8	0.6	0.6	0.5	0.4	0.6	0.9	0.6	0.7	0.6
1959	0.6	1.0	0.9	0.7	0.6	0.5	0.8	0.4	0.9	1.3	0.9	0.7	0.8
1960	0.5	0.9	0.8	0.7	0.5	0.5	0.6	0.4	0.8	0.6	0.6	0.5	0.6
1961	0.6	0.8	0.9	0.7	0.7	0.7	0.5	0.7	0.5	0.7	0.6	0.7	0.7
1962	0.8	0.7	0.8	0.7	0.3	0.6	0.4	0.5	0.6	0.5	0.7	0.9	0.6
1963	0.7	1.0	0.8	0.6	0.6	0.6	0.3	0.3	0.8	1.1	1.0	0.8	0.7
1964	0.6	0.5	0.8	0.8	0.5	0.5	0.6	0.6	0.9	0.9	0.8	0.9	0.7
1965	0.5	0.8	0.6	0.7	0.3	0.6	0.5	0.4	0.8	0.8	0.6	0.3	0.6
1966	0.6	0.9	0.6	0.6	0.8	0.6	0.8	0.5	0.5	0.5	0.6	0.5	0.6
1967	0.5	0.5	0.6	0.7	0.5	0.8	0.6	0.5	0.7	0.5	0.4	0.6	0.6
1968	0.7	0.4	0.4	0.2	0.3	0.7	0.6	0.5	0.5	0.8	0.5	0.4	0.5
1969	0.7	0.5	0.5	0.7	0.8	0.7	0.4	0.6	0.6	0.8	1.1	0.8	0.7
1970	0.6	0.6	0.8	0.6	0.6	0.5	0.5	0.5	0.4	1.1	0.4	0.4	0.6
1971	0.5	0.7	0.5	0.5	0.5	0.3	0.4	0.5	0.6	0.7	0.7	1.3	0.6
1972	0.7	0.6	0.6	0.6	1.0	0.8	0.7	0.5	0.4	0.8	0.7	0.7	0.7
1973	0.9	0.7	0.8	0.7	0.6	0.5	0.2	0.2	0.3	0.4	0.5	0.8	0.5
1974	0.5	0.5	0.4	0.5	0.4	0.2	0.2	0.1	0.3	0.8	0.4	0.4	0.4
1975	0.6	1.1	0.7	0.3	0.2	0.2	0.3	0.1	0.5	0.6	0.4	0.5	0.5
MEAN	0.6	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.6	0.8	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 122

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.4	1.6	2.5	1.8	0.9	1.0	0.8	2.5	2.0	1.4	1.2
1957	1.7	2.8	2.0	2.8	1.2	1.3	1.2	1.4	2.1	1.8	2.4	2.1
1958	2.7	2.4	2.4	2.6	2.0	1.1	1.1	1.3	1.7	1.8	1.3	2.8
1959	2.6	2.5	2.7	1.9	2.0	1.5	2.9	1.1	3.0	2.7	2.1	2.2
1960	2.3	2.8	2.7	2.2	1.2	1.4	2.8	1.2	3.2	1.4	1.9	2.0
1961	3.4	2.8	2.8	2.7	2.1	2.2	1.1	1.4	1.5	1.8	2.1	2.1
1962	2.4	2.2	2.4	2.4	1.0	1.5	1.2	2.4	2.1	2.1	2.9	2.2
1963	2.2	2.5	2.3	2.2	1.9	1.2	0.9	1.2	2.6	3.0	2.3	2.6
1964	2.4	2.3	2.1	2.2	1.4	1.9	1.6	2.7	2.8	2.9	2.5	2.1
1965	1.5	3.0	1.9	2.1	1.3	1.5	1.1	1.2	1.6	2.6	1.2	1.1
1966	3.2	2.9	2.3	1.9	1.9	2.6	2.2	1.2	1.7	1.7	1.9	1.5
1967	2.0	1.5	1.8	1.8	1.2	1.6	1.6	1.3	2.0	1.4	1.3	2.6
1968	2.0	1.6	2.7	1.0	1.2	2.4	1.4	1.1	0.8	2.2	2.1	2.5
1969	2.0	2.5	2.8	2.5	2.0	2.0	0.9	1.4	1.5	2.5	4.7	2.6
1970	2.3	2.8	2.0	2.4	2.2	1.3	1.4	1.9	1.2	2.7	1.8	2.2
1971	2.4	2.3	2.8	1.5	2.2	0.8	1.2	1.4	1.3	2.8	2.0	2.7
1972	2.2	2.3	2.3	1.6	2.5	3.0	2.0	0.9	1.3	2.0	2.6	2.3
1973	2.7	3.1	2.8	2.2	2.1	1.6	0.7	1.0	2.1	1.2	2.5	3.1
1974	2.1	2.4	1.1	2.0	2.2	0.6	0.6	0.5	1.2	1.7	2.3	2.5
1975	2.4	2.6	2.5	1.3	1.0	1.6	0.9	0.7	2.4	2.2	1.6	2.8

LARGEST HS(METRES) FOR STATION 122 = 4.7

STATION 123 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2700	4158	2636	1772	645	189	3	1	.	.	12104
0.50 - 0.99	.	434	2679	1522	359	227	13	.	.	.	5234
1.00 - 1.49	.	.	23	159	130	8	1	.	.	.	321
1.50 - 1.99	.	.	.	.	11	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2700	4592	5338	3453	1145	424	17	1	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.73 ANGLE CLASS % = 17.7

STATION 123 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1148	1247	.	.	492	415	39	.	.	.	3341
0.50 - 0.99	.	1009	1877	336	215	1225	179	1	.	.	4841
1.00 - 1.49	.	.	249	768	467	792	289	1	.	.	2566
1.50 - 1.99	.	.	.	59	323	573	152	13	.	.	1120
2.00 - 2.49	.	.	.	.	49	155	135	15	.	.	354
2.50 - 2.99	.	.	.	.	.	6	18	6	.	.	30
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1148	2256	2126	1162	1546	3166	812	36	0	0	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 2.97 ANGLE CLASS % = 12.3

STATION 123 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	651	605	.	.	985	2221	2373	44	130	65	7074
0.50 - 0.99	.	631	1098	47	205	3335	3039	562	80	237	9234
1.00 - 1.49	.	.	193	523	53	768	674	1	181	225	2618
1.50 - 1.99	.	.	.	61	138	256	136	3	177	135	906
2.00 - 2.49	.	.	.	.	37	177	87	8	22	5	336
2.50 - 2.99	.	.	.	.	.	13	90	23	5	.	131
3.00 - 3.49	.	.	.	.	.	.	3	8	1	1	13
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	651	1236	1291	631	1418	6770	6402	652	596	669	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 4.02 ANGLE CLASS % = 20.3

STATION 123 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	918	823	1873	1061	448	383	850	229	559	1137	5347
0.50 - 0.99	1	973	287	1024	17	797	1540	631	730	1218	7886
1.00 - 1.49	.	.	.	131	131	337	550	443	497	1175	4444
1.50 - 1.99	.	.	.	.	361	484	128	90	294	374	1862
2.00 - 2.49	.	.	.	.	56	444	208	25	51	47	831
2.50 - 2.99	.	.	.	.	.	29	150	61	10	6	256
3.00 - 3.49	.	.	.	.	.	.	3	37	6	.	46
3.50 - 3.99	.	.	.	.	.	.	.	3	3	3	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	919	1796	2160	1261	1013	2474	3429	1519	2150	3960	

AVERAGE HS(M) = 0.91 LARGEST HS(M) = 3.75 ANGLE CLASS % = 20.7

STATION 123 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1127	1918	829	343	1517	2363	934	154	.	.	9185
0.50 - 0.99	.	455	2785	1591	838	1610	559	114	.	.	7952
1.00 - 1.49	.	.	124	872	604	1350	251	34	.	.	3435
1.50 - 1.99	.	.	.	18	316	1084	220	6	.	.	1644
2.00 - 2.49	.	.	.	.	27	147	181	.	.	.	355
2.50 - 2.99	.	.	.	.	.	1	41	3	.	.	45
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1127	2373	3738	2824	3502	6555	2186	311	0	0	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 2.84 ANGLE CLASS % = 22.6

STATION 123 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

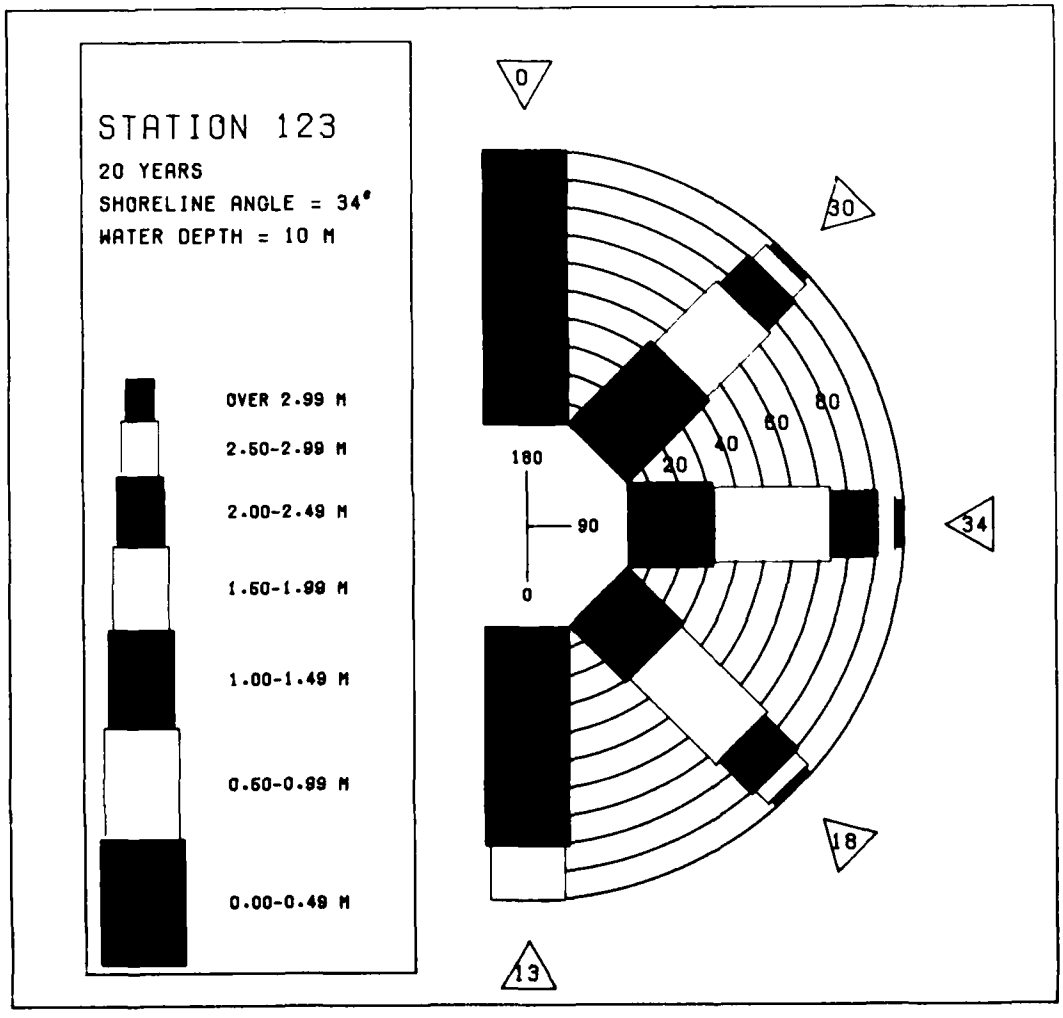
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	292	515	802	610	343	.	.	.	.	.	2562
0.50 - 0.99	.	.	6	.	.	.	.	.	.	.	6
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	292	515	808	610	343	0	0	0	0	0	

AVERAGE HS(M) = 0.11 LARGEST HS(M) = 0.53 ANGLE CLASS % = 2.6

STATION 123 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 34.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	683	926	426	272	443	557	420	42	68	120	3957
0.50 - 0.99	.	350	1032	360	163	719	533	131	81	145	3514
1.00 - 1.49	.	.	87	334	158	325	176	48	67	140	1335
1.50 - 1.99	.	.	.	27	115	239	63	11	47	50	552
2.00 - 2.49	.	.	.	.	17	92	61	4	7	5	186
2.50 - 2.99	.	.	.	.	.	5	30	9	1	.	45
3.00 - 3.49	.	.	.	.	.	.	.	4	.	.	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	683	1276	1545	993	896	1937	1283	249	271	460	

AVE HS(M) = 0.67 LARGEST HS(M) = 4.02 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 123

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.0	0.4	0.6	0.8	0.5	0.4	0.2	0.5	0.8	0.7	0.4	0.6
1957	0.6	1.0	0.6	1.0	0.5	0.6	0.5	0.6	0.8	0.8	1.0	0.7	0.7
1958	0.6	0.4	0.6	0.8	0.7	0.6	0.5	0.4	0.7	1.2	1.1	1.1	0.7
1959	0.7	1.2	1.0	0.8	0.7	0.5	0.9	0.5	1.0	1.7	1.1	0.8	0.9
1960	0.5	0.9	0.8	0.7	0.5	0.6	0.6	0.4	0.9	0.6	0.7	0.5	0.6
1961	0.6	0.8	0.9	0.7	0.8	0.8	0.6	0.7	0.6	0.8	0.7	0.7	0.7
1962	0.8	0.8	0.9	0.7	0.4	0.7	0.4	0.6	0.7	0.6	0.6	1.1	0.7
1963	0.8	1.2	1.0	0.7	0.7	0.6	0.4	0.4	1.0	1.4	1.6	1.4	0.9
1964	0.5	0.5	0.8	0.9	0.6	0.5	0.7	0.7	1.0	1.0	0.9	1.0	0.8
1965	0.5	0.9	0.6	0.7	0.3	0.6	0.5	0.4	1.1	1.0	0.8	0.4	0.7
1966	0.6	1.0	0.6	0.7	0.8	0.6	1.0	0.7	0.6	0.6	0.7	0.6	0.7
1967	0.5	0.5	0.7	0.7	0.5	0.9	0.6	0.6	0.8	0.6	0.4	0.5	0.6
1968	0.6	0.2	0.3	0.2	0.3	1.0	0.8	0.7	0.7	1.0	0.5	0.3	0.6
1969	0.7	0.5	0.5	0.7	1.0	0.8	0.5	0.7	0.8	1.1	1.5	0.9	0.8
1970	0.7	0.5	0.8	0.7	0.6	0.5	0.5	0.6	0.4	1.2	0.3	0.4	0.6
1971	0.5	0.7	0.5	0.4	0.5	0.3	0.4	0.5	0.7	0.8	0.8	1.7	0.7
1972	0.8	0.7	0.6	0.6	1.1	0.8	0.8	0.5	0.5	1.1	0.7	0.7	0.7
1973	0.8	0.7	0.7	0.7	0.6	0.6	0.2	0.2	0.3	0.5	0.5	0.8	0.5
1974	0.5	0.5	0.4	0.5	0.4	0.3	0.2	0.2	0.3	1.1	0.6	0.4	0.4
1975	0.7	1.3	0.7	0.3	0.2	0.2	0.3	0.1	0.6	0.5	0.5	0.5	0.5
MEAN	0.6	0.8	0.7	0.7	0.6	0.6	0.5	0.5	0.7	0.9	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 123

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.7	1.4	2.2	2.2	1.0	1.1	1.0	2.4	2.2	2.0	1.4
1957	2.0	3.0	1.9	2.6	1.4	1.3	1.3	1.8	2.3	2.0	2.3	2.2
1958	2.7	2.4	2.7	2.7	2.2	1.2	1.0	1.1	2.1	2.2	1.8	2.8
1959	2.6	2.5	2.8	2.0	1.9	1.3	2.8	1.1	3.7	3.1	2.4	2.6
1960	2.2	2.9	2.8	2.1	1.6	1.4	2.3	1.1	3.5	1.3	2.2	2.1
1961	3.3	2.8	2.8	2.7	1.7	1.9	1.1	1.6	1.9	2.2	1.9	2.3
1962	2.1	2.1	3.2	2.3	1.2	1.9	1.1	2.5	2.5	2.3	2.7	2.6
1963	2.1	2.7	2.2	2.2	2.3	1.5	1.0	1.4	2.9	3.1	2.7	3.1
1964	2.3	2.1	1.9	2.3	1.5	2.2	2.0	2.4	3.1	2.7	2.4	2.2
1965	1.5	2.9	1.8	2.3	1.2	1.7	1.3	1.2	2.2	2.8	1.5	1.6
1966	3.1	2.9	2.3	1.8	2.0	2.5	2.3	1.5	1.7	1.7	2.1	2.0
1967	2.0	1.9	2.0	2.1	1.4	2.0	1.8	2.0	1.9	1.6	1.7	2.4
1968	2.5	1.6	2.4	0.9	1.3	2.7	1.5	1.2	1.1	2.4	1.8	2.2
1969	2.0	2.7	2.6	2.2	2.2	2.0	1.0	1.6	2.0	2.9	4.0	2.6
1970	2.4	2.6	2.2	1.9	2.0	1.4	1.4	2.0	1.4	2.8	2.1	2.4
1971	2.1	2.3	2.6	2.1	2.2	0.9	1.0	1.5	1.4	3.3	2.1	3.3
1972	2.0	2.1	2.3	2.1	2.8	2.9	2.4	0.9	1.6	2.4	2.3	2.4
1973	2.5	2.8	2.4	1.8	2.0	1.8	0.6	0.9	1.9	1.7	2.3	2.7
1974	1.8	2.1	1.3	2.2	2.0	0.6	0.6	0.6	1.7	2.7	2.3	2.4
1975	2.5	2.9	2.5	1.4	1.0	1.4	0.9	0.7	2.4	2.1	1.9	2.6

LARGEST HS(METRES) FOR STATION 123 = 4.0

STATION 124 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2070	3324	2628	1630	496	46	.	.	.	.	10194
0.50 - 0.99	.	95	1493	930	150	.	.	.	.	.	2668
1.00 - 1.49	.	.	1	10	5	.	.	.	.	.	16
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2070	3419	4122	2570	651	46	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.22 ANGLE CLASS % = 12.9

STATION 124 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1529	1909	49	.	477	436	35	.	.	.	4435
0.50 - 0.99	.	1040	2553	758	417	1421	169	1	.	.	6359
1.00 - 1.49	.	.	217	787	527	816	261	.	.	.	2608
1.50 - 1.99	.	.	.	34	302	527	167	15	.	.	1045
2.00 - 2.49	.	.	.	.	34	130	107	15	.	.	286
2.50 - 2.99	.	.	.	.	.	3	18	3	.	.	24
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1529	2949	2819	1579	1757	3333	757	34	0	0	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 2.95 ANGLE CLASS % = 14.8

STATION 124 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	658	638	.	.	995	2334	2484	42	126	63	7340
0.50 - 0.99	.	643	1107	51	213	3333	3066	557	77	227	9274
1.00 - 1.49	.	.	186	513	68	727	684	.	181	227	2586
1.50 - 1.99	.	.	.	63	142	248	133	3	179	133	901
2.00 - 2.49	.	.	.	.	47	191	80	8	20	5	351
2.50 - 2.99	.	.	.	.	.	15	102	25	5	.	147
3.00 - 3.49	.	.	.	.	.	.	3	8	1	.	12
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	658	1281	1293	627	1465	6848	6552	643	589	655	

AVERAGE HS(M) = 0.72 LARGEST HS(M) = 3.28 ANGLE CLASS % = 20.6

STATION 124 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	893	776			462	349	828	234	448	1211	5201
0.50 - 0.99	1	989	1716	66	29	667	1365	629	590	1204	7256
1.00 - 1.49	.	.	289	983	111	246	487	441	480	1172	4209
1.50 - 1.99	.	.	.	119	311	328	138	95	270	373	1634
2.00 - 2.49	.	.	.	.	56	393	191	22	61	47	770
2.50 - 2.99	.	.	.	.	.	29	121	49	3	6	208
3.00 - 3.49	.	.	.	.	.	.	3	37	8	1	49
3.50 - 3.99	.	.	.	.	.	.	.	5	3	3	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	894	1765	2005	1168	969	2012	3133	1512	1863	4018	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 4.00 ANGLE CLASS % = 19.4

STATION 124 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	920	1439	109	8	913	1990	1042	195	155	.	6771
0.50 - 0.99	.	672	2890	1463	725	1724	662	68	104	.	8308
1.00 - 1.49	.	.	201	1146	936	1452	590	15	17	.	4057
1.50 - 1.99	.	.	.	29	393	1255	219	9	1	.	1903
2.00 - 2.49	.	.	.	.	32	222	213	8	.	.	475
2.50 - 2.99	.	.	.	.	.	3	58	10	.	.	71
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	920	2111	3200	2646	2999	6646	2484	302	277	0	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 2.94 ANGLE CLASS % = 21.6

STATION 124 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

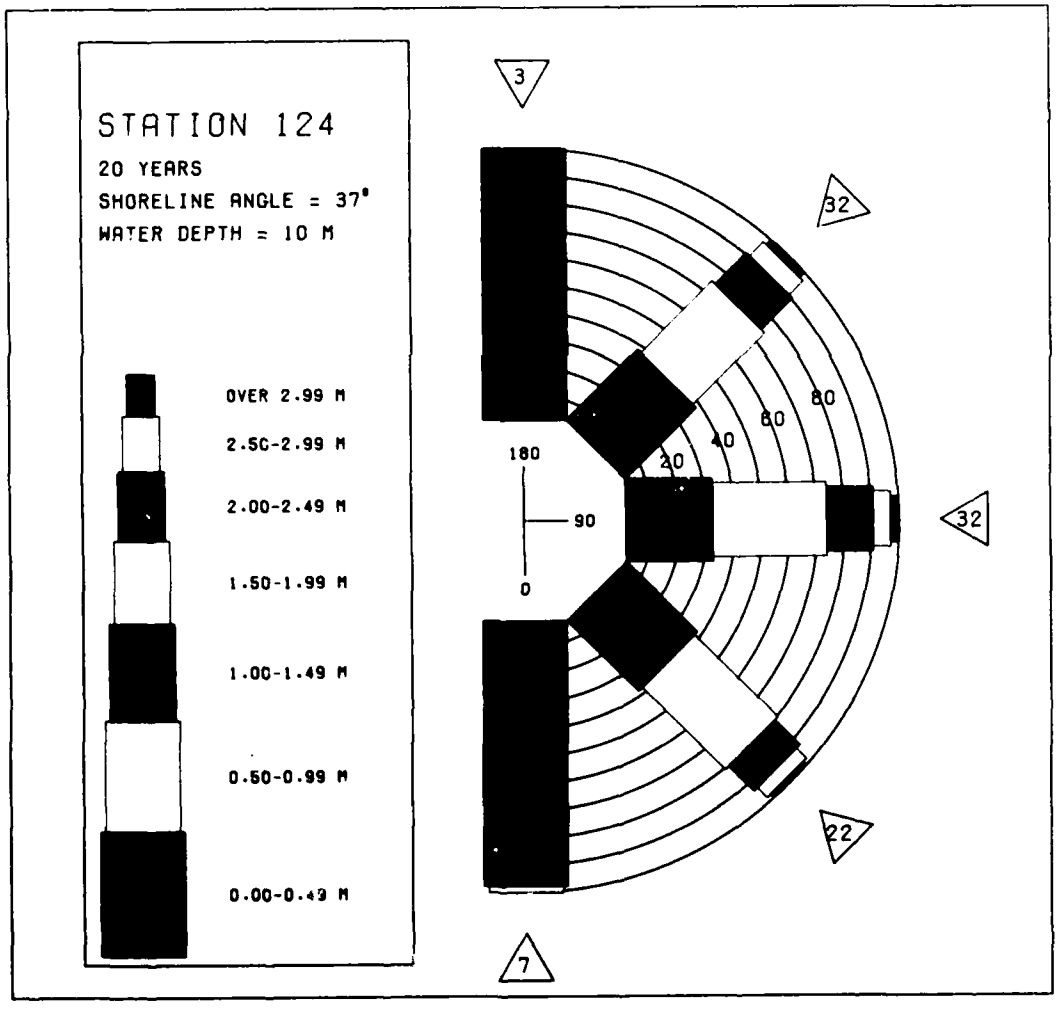
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	687	1225	1401	1011	1059	497	.	.	.	.	5880
0.50 - 0.99	.	6	494	246	112	.	.	.	.	.	858
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	687	1231	1895	1257	1171	497	0	0	0	0	

AVERAGE HS(M) = 0.24 LARGEST HS(M) = 0.92 ANGLE CLASS % = 6.7

STATION 124 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 37.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	676	931	418	265	440	565	439	47	73	127	3981
0.50 - 0.99	.	344	1025	351	164	714	536	125	77	143	3469
1.00 - 1.49	.	.	89	344	164	354	172	45	67	139	1344
1.50 - 1.99	.	.	.	24	114	235	65	12	45	50	545
2.00 - 2.49	.	.	.	.	17	93	59	5	8	5	187
2.50 - 2.99	.	.	.	.	.	5	30	8	.	.	43
3.00 - 3.49	.	.	.	.	.	.	.	4	1	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	676	1275	1532	984	899	1936	1291	246	271	464	

AVE HS(M) = 0.67 LARGEST HS(M) = 4.00 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 124

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.0	0.4	0.6	0.8	0.5	0.4	0.2	0.5	0.8	0.7	0.4	0.6
1957	0.6	1.0	0.5	1.0	0.5	0.5	0.5	0.6	0.8	0.8	1.0	0.7	0.7
1958	0.6	0.4	0.6	0.8	0.7	0.6	0.5	0.4	0.7	1.2	1.1	1.1	0.7
1959	0.7	1.2	1.0	0.8	0.7	0.5	0.9	0.5	1.0	1.7	1.1	0.8	0.9
1960	0.5	0.9	0.8	0.7	0.5	0.6	0.6	0.4	1.0	0.6	0.7	0.5	0.6
1961	0.6	0.8	0.9	0.6	0.8	0.8	0.6	0.7	0.6	0.8	0.7	0.7	0.7
1962	0.8	0.8	0.9	0.7	0.4	0.7	0.4	0.6	0.7	0.6	0.6	1.1	0.7
1963	0.8	1.2	1.0	0.7	0.7	0.6	0.4	0.3	1.0	1.4	1.6	1.4	0.9
1964	0.5	0.5	0.8	0.9	0.6	0.5	0.7	0.7	1.0	1.0	0.9	1.0	0.8
1965	0.5	0.9	0.5	0.7	0.3	0.6	0.5	0.4	1.1	1.0	0.8	0.5	0.6
1966	0.6	1.0	0.6	0.6	0.8	0.6	0.9	0.7	0.5	0.7	0.7	0.6	0.7
1967	0.5	0.5	0.7	0.7	0.5	0.9	0.6	0.6	0.8	0.6	0.4	0.5	0.6
1968	0.6	0.2	0.3	0.2	0.3	1.0	0.8	0.7	0.7	1.0	0.5	0.3	0.6
1969	0.8	0.5	0.5	0.7	1.0	0.8	0.5	0.7	0.8	1.1	1.5	0.9	0.8
1970	0.7	0.5	0.8	0.7	0.6	0.5	0.4	0.5	0.4	1.3	0.3	0.4	0.6
1971	0.5	0.7	0.5	0.4	0.5	0.3	0.4	0.5	0.7	0.8	0.8	1.7	0.7
1972	0.8	0.7	0.6	0.6	1.1	0.8	0.8	0.5	0.5	1.1	0.7	0.7	0.7
1973	0.8	0.7	0.7	0.7	0.6	0.5	0.2	0.2	0.3	0.5	0.5	0.7	0.5
1974	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.3	1.1	0.6	0.4	0.4
1975	0.7	1.3	0.7	0.3	0.2	0.2	0.3	0.1	0.6	0.5	0.5	0.5	0.5
MEAN	0.6	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.7	0.9	0.8	0.7	

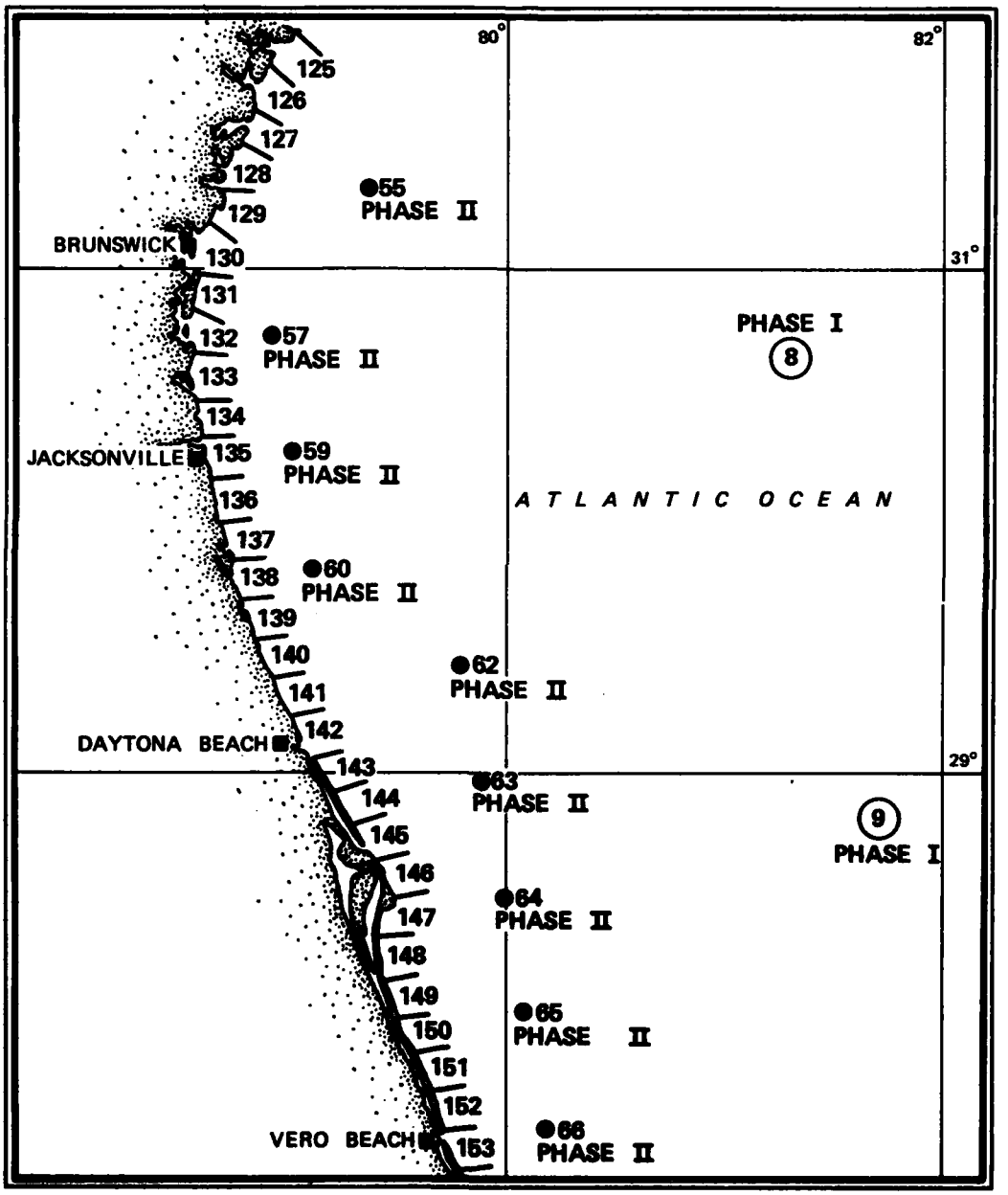
LARGEST HS(METRES) BY MONTH AND YEAR

STATION 124

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.5	2.7	1.4	2.1	2.2	1.0	1.1	1.0	2.6	2.2	1.9	1.4
1957	1.8	3.0	1.8	2.6	1.4	1.3	1.4	1.8	2.3	2.1	2.3	2.2
1958	2.7	2.4	2.7	2.7	2.2	1.3	1.0	1.1	2.0	2.3	1.6	2.8
1959	2.6	2.5	2.8	2.0	1.9	1.4	2.8	1.1	3.6	3.1	2.3	2.5
1960	2.3	2.9	2.8	2.1	1.5	1.3	2.4	1.0	3.5	1.3	2.2	2.1
1961	3.3	2.8	2.8	2.6	1.8	2.0	1.1	1.6	1.8	2.2	1.9	2.3
1962	2.2	2.1	3.2	2.3	1.2	1.9	1.1	2.5	2.5	2.2	2.7	2.6
1963	2.1	2.7	2.2	2.1	2.3	1.4	1.0	1.4	2.9	3.1	2.7	2.9
1964	2.3	2.1	1.9	2.3	1.5	2.2	2.0	2.4	3.2	2.7	2.4	2.2
1965	1.4	3.0	1.8	2.3	1.3	1.6	1.1	1.2	2.2	2.7	1.6	1.4
1966	3.1	3.0	2.4	1.8	2.0	2.5	2.3	1.4	1.7	1.8	2.1	1.9
1967	2.0	2.0	2.0	2.1	1.3	2.0	1.7	2.0	2.0	1.6	1.9	2.4
1968	2.3	1.5	2.5	0.9	1.3	2.7	1.5	1.2	1.1	2.4	1.8	2.1
1969	2.0	2.7	2.6	2.2	2.2	2.0	1.0	1.7	2.1	2.9	4.0	2.6
1970	2.4	2.7	2.2	1.8	2.0	1.3	1.3	2.0	1.4	2.8	2.2	2.4
1971	2.1	2.3	2.6	2.1	2.2	0.8	1.0	1.5	1.6	3.3	2.1	3.3
1972	1.9	2.1	2.3	2.1	2.7	2.9	2.4	0.9	1.6	2.5	2.3	2.3
1973	2.5	2.9	2.4	1.9	2.0	1.8	0.6	0.9	2.0	1.6	2.3	2.7
1974	1.8	2.1	1.1	2.1	2.0	1.6	0.6	0.6	1.6	2.6	2.3	2.5
1975	2.5	2.9	2.5	1.4	1.0	1.3	0.8	0.7	2.4	2.0	2.0	2.6

LARGEST HS(METRES) FOR STATION 124 = 4.0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JACKSONVILLE
DAYTONA BEACH
VERO BEACH
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PHASE II
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PHASE II
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PHASE II
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PHASE II
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PHASE II
PHASE I
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PHASE I
ATLANTIC OCEAN

STATION 125 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 42.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1035	1637	1966	1038	92	.	.	.	.	.	5768
0.50 - 0.99	.	.	147	5	.	.	.	.	.	.	152
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1035	1637	2113	1043	92	0	0	0	0	0	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 0.70 ANGLE CLASS % = 5.9

STATION 125 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 42.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2212	3204	698	302	580	438	15	.	.	.	7449
0.50 - 0.99	.	864	3391	1546	537	1372	80	.	.	.	7790
1.00 - 1.49	.	.	152	651	501	761	150	1	.	.	2216
1.50 - 1.99	.	.	.	34	277	520	116	5	.	.	952
2.00 - 2.49	.	.	.	.	32	114	92	18	.	.	256
2.50 - 2.99	.	.	.	.	.	1	18	.	.	.	19
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2212	4068	4241	2533	1927	3206	471	24	0	0	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.84 ANGLE CLASS % = 18.7

STATION 125 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 42.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	761	730	.	.	669	730	203	15	68	6	3182
0.50 - 0.99	.	706	1211	59	142	1002	302	6	11	.	3439
1.00 - 1.49	.	.	203	573	73	347	193	.	.	.	1389
1.50 - 1.99	.	.	.	66	148	188	100	3	.	.	505
2.00 - 2.49	.	.	.	.	53	207	88	1	.	.	349
2.50 - 2.99	.	.	.	.	.	17	87	22	.	.	126
3.00 - 3.49	.	.	.	.	.	.	1	8	.	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	761	1436	1414	698	1085	2491	974	55	79	6	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 3.42 ANGLE CLASS % = 9.0

STATION 125 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 42.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	884	843			646	1663	2402	296	513	1338	8585
0.50 - 0.99	1	929	1685	66	114	2438	3129	1192	679	1416	11649
1.00 - 1.49	.	.	246	860	92	544	725	364	645	1305	4781
1.50 - 1.99	.	.	.	118	278	316	150	75	398	366	1701
2.00 - 2.49	.	.	.	.	56	309	150	23	59	46	643
2.50 - 2.99	.	.	.	.	.	27	114	59	8	.	208
3.00 - 3.49	.	.	.	.	.	.	5	27	6	1	39
3.50 - 3.99	.	.	.	.	.	.	.	5	3	3	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	885	1772	1931	1044	1186	5297	6675	2041	2311	4476	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 4.00 ANGLE CLASS % = 27.6

STATION 125 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 42.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	843	1023	10		1100	2070	1894	200	157	27	7324
0.50 - 0.99	.	792	2501	797	378	1898	1687	100	116	42	8308
1.00 - 1.49	.	.	290	1428	1013	1509	564	22	18	3	4847
1.50 - 1.99	.	.	.	47	422	1351	284	11	1	.	2116
2.00 - 2.49	.	.	.	.	47	261	260	11	.	.	579
2.50 - 2.99	.	.	.	.	.	1	46	17	1	.	65
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	843	1815	2801	2272	2960	7087	4735	362	293	72	

AVERAGE HS(M) = 0.83 LARGEST HS(M) = 3.02 ANGLE CLASS % = 23.3

STATION 125 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 42.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

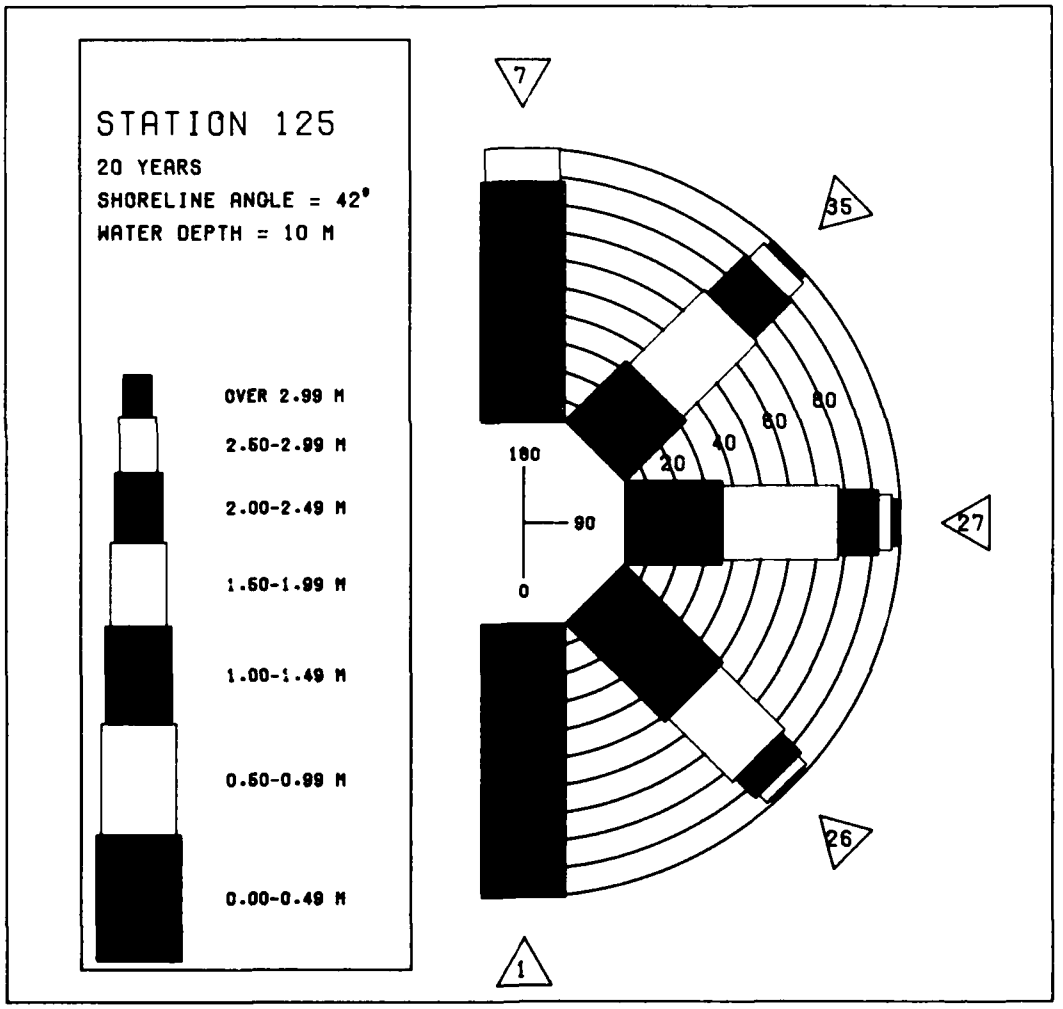
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	997	1911	1642	1362	1250	865	.	.	.	.	8027
0.50 - 0.99	.	157	1403	1038	535	201	.	.	.	.	3334
1.00 - 1.49	.	.	11	73	77	3	.	.	.	.	164
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	997	2068	3056	2473	1862	1069	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.35 ANGLE CLASS % = 11.5

STATION 125 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 42.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	673	935	431	270	433	576	451	51	73	137	4030
0.50 - 0.99	.	344	1034	351	170	691	520	130	80	145	3465
1.00 - 1.49	.	.	90	358	175	316	163	38	66	130	1336
1.50 - 1.99	.	.	.	26	112	237	65	9	40	36	525
2.00 - 2.49	.	.	.	.	18	89	59	5	5	4	180
2.50 - 2.99	.	.	.	.	.	4	26	9	1	.	40
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	673	1279	1555	1005	908	1913	1284	245	265	452	

AVE HS(M) = 0.66 LARGEST HS(M) = 4.00 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 125

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.0	0.4	0.6	0.7	0.5	0.4	0.2	0.5	0.8	0.7	0.4	0.5
1957	0.6	1.0	0.5	1.0	0.5	0.5	0.5	0.6	0.8	0.8	1.0	0.7	0.7
1958	0.6	0.4	0.6	0.8	0.6	0.6	0.5	0.3	0.7	1.2	1.1	1.1	0.7
1959	0.7	1.2	1.0	0.8	0.7	0.5	0.9	0.5	1.0	1.7	1.1	0.8	0.9
1960	0.5	0.9	0.8	0.7	0.5	0.6	0.5	0.4	1.0	0.6	0.7	0.5	0.6
1961	0.6	0.8	0.8	0.6	0.8	0.8	0.6	0.7	0.6	0.8	0.7	0.7	0.7
1962	0.8	0.8	0.9	0.7	0.4	0.7	0.4	0.6	0.7	0.6	0.7	1.0	0.7
1963	0.8	1.2	1.0	0.6	0.7	0.6	0.4	0.3	1.0	1.3	1.5	1.3	0.9
1964	0.6	0.5	0.8	0.9	0.6	0.5	0.7	0.6	1.0	1.0	0.9	1.0	0.8
1965	0.5	0.9	0.5	0.7	0.3	0.6	0.5	0.4	1.1	1.0	0.8	0.5	0.6
1966	0.6	1.0	0.6	0.6	0.8	0.6	0.9	0.7	0.5	0.7	0.7	0.6	0.7
1967	0.5	0.5	0.7	0.7	0.5	0.9	0.6	0.6	0.8	0.6	0.4	0.5	0.6
1968	0.6	0.2	0.3	0.2	0.3	1.0	0.8	0.7	0.7	1.0	0.5	0.3	0.6
1969	0.8	0.5	0.5	0.7	1.0	0.8	0.5	0.7	0.8	1.0	1.5	0.9	0.8
1970	0.7	0.5	0.8	0.7	0.6	0.5	0.4	0.5	0.4	1.2	0.3	0.4	0.6
1971	0.5	0.7	0.5	0.4	0.5	0.3	0.4	0.5	0.7	0.8	0.8	1.6	0.6
1972	0.8	0.7	0.6	0.6	1.1	0.7	0.8	0.5	0.5	1.1	0.7	0.7	0.7
1973	0.8	0.7	0.7	0.7	0.6	0.5	0.1	0.2	0.3	0.5	0.5	0.8	0.5
1974	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.3	1.1	0.6	0.4	0.4
1975	0.6	1.2	0.7	0.3	0.2	0.2	0.3	0.1	0.6	0.5	0.5	0.5	0.5
MEAN	0.6	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.7	0.9	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 125

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.6	1.5	2.2	2.1	1.0	1.1	1.0	2.5	2.1	1.9	1.3
1957	2.0	3.0	1.9	2.7	1.4	1.3	1.3	1.6	2.2	2.0	2.3	2.2
1958	2.7	2.4	2.6	2.7	2.2	1.3	1.0	1.1	2.0	2.1	1.8	2.8
1959	2.6	2.5	2.8	2.0	1.9	1.4	2.8	1.1	3.6	3.0	2.3	2.5
1960	2.3	2.9	2.8	2.1	1.5	1.4	2.3	1.0	3.4	1.3	2.1	2.1
1961	3.4	2.8	2.8	2.7	1.7	2.0	1.1	1.5	1.9	2.1	1.9	2.2
1962	2.1	2.1	3.0	2.3	1.2	1.9	1.1	2.5	2.5	2.2	2.8	2.4
1963	2.1	2.5	2.2	2.1	2.2	1.5	1.0	1.3	2.9	3.1	2.5	2.9
1964	2.3	2.2	1.9	2.3	1.5	2.1	1.9	2.4	3.1	2.7	2.4	2.1
1965	1.5	3.0	1.8	2.1	1.2	1.7	1.3	1.2	2.3	2.7	1.5	1.5
1966	3.2	3.0	2.4	1.8	2.0	2.5	2.2	1.5	1.7	1.8	2.2	2.0
1967	2.0	2.0	2.1	2.1	1.4	2.0	1.6	2.0	2.0	1.5	1.7	2.4
1968	2.2	1.5	2.5	0.9	1.3	2.6	1.5	1.2	1.1	2.4	1.9	2.1
1969	2.0	2.7	2.7	2.1	2.2	2.0	1.0	1.8	2.1	2.8	4.0	2.7
1970	2.4	2.7	2.1	1.9	2.0	1.3	1.4	1.9	1.3	2.8	2.0	2.4
1971	2.1	2.3	2.6	2.1	2.2	0.8	1.0	1.5	1.4	3.3	2.1	3.2
1972	1.9	2.1	2.3	2.1	2.7	2.9	2.3	0.9	1.6	2.3	2.4	2.5
1973	2.5	2.9	2.4	1.9	2.0	1.8	0.6	0.8	1.9	1.7	2.1	2.8
1974	1.9	2.1	1.0	2.1	2.1	0.6	0.6	0.6	1.7	2.6	2.3	2.5
1975	2.4	2.7	2.5	1.4	1.0	1.3	0.8	0.7	2.3	2.0	2.0	2.6

LARGEST HS(METRES) FOR STATION 125 = 4.0

STATION 126 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2773	4305	2944	1610	473	270	.	.	.	.	12375
0.50 - 0.99	.	362	2121	1158	383	285	13	.	.	.	4322
1.00 - 1.49	.	.	27	116	147	10	.	.	.	.	300
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2773	4667	5092	2884	1008	565	13	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.71 ANGLE CLASS % = 17.0

STATION 126 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1040	1096	.	.	795	720	68	1	.	.	3720
0.50 - 0.99	.	891	1750	272	208	1196	335	.	.	.	4652
1.00 - 1.49	.	.	239	730	367	718	232	17	.	.	2303
1.50 - 1.99	.	.	.	51	237	366	131	11	.	.	796
2.00 - 2.49	.	.	.	.	29	111	83	11	.	.	234
2.50 - 2.99	.	.	.	.	.	1	13	8	.	.	22
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1040	1987	1989	1053	1636	3112	862	48	0	0	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 2.87 ANGLE CLASS % = 11.7

STATION 126 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	607	593	.	.	1035	2527	2712	61	135	109	7779
0.50 - 0.99	1	648	1156	35	183	3396	3064	530	77	241	9331
1.00 - 1.49	.	.	165	592	47	727	633	1	188	224	2577
1.50 - 1.99	.	.	.	97	172	275	121	.	171	119	955
2.00 - 2.49	.	.	.	.	42	176	83	11	17	5	334
2.50 - 2.99	.	.	.	.	.	8	94	22	3	.	127
3.00 - 3.49	.	.	.	.	.	.	6	8	1	1	16
3.50 - 3.99	.	.	.	.	.	.	.	3	.	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	608	1241	1321	724	1479	7109	6713	636	592	700	

AVERAGE HS(M) = 0.71 LARGEST HS(M) = 4.00 ANGLE CLASS % = 21.1

STATION 126 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	947	975	.	.	612	581	959	393	600	1247	6314
0.50 - 0.99	.	920	2311	184	75	1362	1829	734	761	1247	9423
1.00 - 1.49	.	.	374	1257	275	699	790	504	491	1083	5473
1.50 - 1.99	.	.	.	109	552	944	266	111	323	600	2905
2.00 - 2.49	.	.	.	.	106	771	405	30	83	61	1456
2.50 - 2.99	.	.	.	.	.	32	244	42	13	22	353
3.00 - 3.49	.	.	.	.	.	.	8	54	8	.	70
3.50 - 3.99	.	.	.	.	.	.	.	6	3	3	12
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	947	1895	2685	1550	1620	4389	4501	1874	2282	4263	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 3.75 ANGLE CLASS % = 26.0

STATION 126 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1006	1883	1386	958	1671	2128	882	.	.	.	9914
0.50 - 0.99	.	203	1870	1343	746	1187	414	.	.	.	5763
1.00 - 1.49	.	.	41	590	677	1004	73	.	.	.	2385
1.50 - 1.99	.	.	.	5	176	715	39	.	.	.	935
2.00 - 2.49	.	.	.	.	22	131	20	.	.	.	173
2.50 - 2.99	.	.	.	.	.	1	5	.	.	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1006	2086	3297	2896	3292	5166	1433	0	0	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 2.76 ANGLE CLASS % = 19.2

STATION 126 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

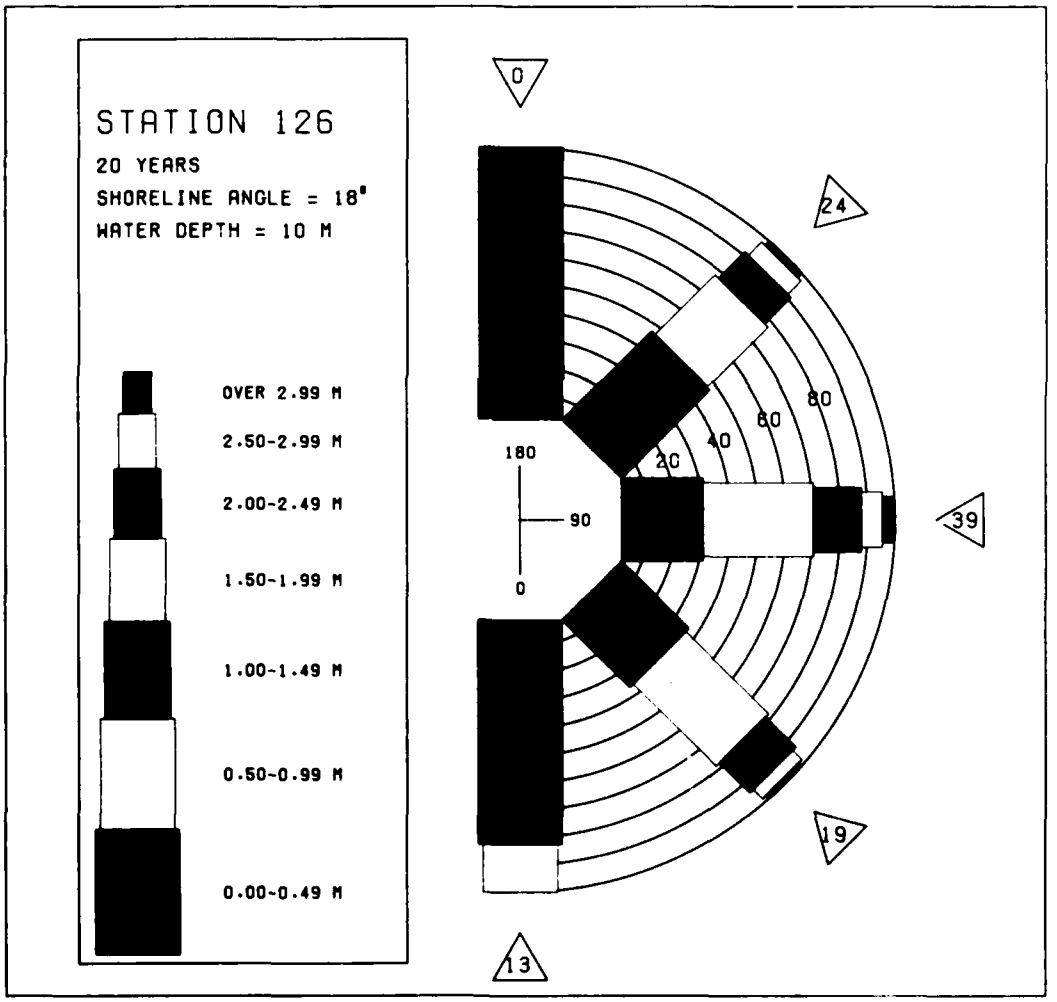
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	6	.	.	.	.	.	.	.	.	.	6
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	6	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 126 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	638	885	433	256	458	622	462	45	73	135	4007
0.50 - 0.99	.	302	921	299	159	742	565	126	83	148	3345
1.00 - 1.49	.	.	84	328	151	316	172	55	67	130	1300
1.50 - 1.99	.	.	.	26	114	230	55	12	49	72	558
2.00 - 2.49	.	.	.	.	20	119	59	5	10	6	219
2.50 - 2.99	.	.	.	.	.	4	35	7	1	2	49
3.00 - 3.49	.	.	.	.	.	.	1	6	1	.	8
3.50 - 3.99	.	.	.	.	.	.	.	1	.	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	638	1187	1438	909	902	2033	1349	254	284	493	

AVE HS(M) = 0.67 LARGEST HS(M) = 4.00 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 126

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	1.0	0.4	0.5	0.8	0.5	0.3	0.2	0.5	0.9	0.7	0.4	0.6
1957	0.7	1.0	0.5	1.0	0.5	0.5	0.5	0.6	0.8	0.9	1.0	0.7	0.7
1958	0.6	0.3	0.6	0.8	0.6	0.6	0.4	0.3	0.7	1.3	1.2	1.2	0.7
1959	0.7	1.2	1.0	0.7	0.7	0.5	0.9	0.4	1.0	1.7	1.2	0.8	0.9
1960	0.5	0.8	0.8	0.7	0.5	0.5	0.5	0.4	1.0	0.6	0.7	0.5	0.6
1961	0.6	0.8	0.8	0.6	0.8	0.8	0.6	0.7	0.6	0.9	0.7	0.7	0.7
1962	0.7	0.7	0.9	0.7	0.4	0.7	0.4	0.6	0.7	0.7	0.6	1.2	0.7
1963	0.8	1.3	0.9	0.6	0.7	0.6	0.4	0.3	1.1	1.5	1.7	1.5	1.0
1964	0.5	0.4	0.7	0.9	0.6	0.5	0.7	0.6	1.1	1.1	0.9	1.0	0.8
1965	0.5	0.9	0.5	0.7	0.3	0.6	0.5	0.3	1.2	1.0	0.8	0.5	0.6
1966	0.6	1.0	0.6	0.6	0.8	0.6	0.9	0.7	0.5	0.7	0.8	0.6	0.7
1967	0.5	0.5	0.7	0.7	0.5	1.0	0.6	0.6	0.9	0.6	0.4	0.5	0.6
1968	0.7	0.2	0.3	0.2	0.3	1.0	0.8	0.7	0.7	1.0	0.5	0.3	0.5
1969	0.8	0.5	0.4	0.7	1.0	0.8	0.5	0.7	0.8	1.1	1.5	0.8	0.8
1970	0.7	0.5	0.8	0.6	0.6	0.5	0.4	0.5	0.5	1.3	0.3	0.4	0.6
1971	0.5	0.7	0.4	0.4	0.5	0.3	0.4	0.5	0.8	0.9	0.8	1.7	0.6
1972	0.7	0.7	0.6	0.5	1.1	0.7	0.8	0.5	0.5	1.2	0.7	0.7	0.7
1973	0.8	0.7	0.7	0.6	0.6	0.5	0.1	0.2	0.3	0.6	0.5	0.7	0.5
1974	0.5	0.4	0.3	0.4	0.4	0.3	0.2	0.2	0.3	1.2	0.6	0.4	0.4
1975	0.7	1.3	0.7	0.2	0.2	0.2	0.3	0.1	0.6	0.5	0.5	0.5	0.5
MEAN	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.7	1.0	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 126

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.6	2.8	1.3	1.9	2.4	1.0	1.0	1.1	2.3	2.5	2.2	1.3
1957	2.0	2.9	1.7	2.4	1.4	1.3	1.4	2.0	2.3	2.1	2.4	2.1
1958	2.7	2.3	2.7	2.7	2.3	1.3	1.0	1.0	2.1	2.4	1.8	2.8
1959	2.4	2.7	2.7	1.9	1.8	1.3	2.8	1.1	3.7	3.2	2.4	2.8
1960	2.1	2.9	2.7	2.0	1.7	1.4	2.1	0.9	3.4	1.4	2.2	2.3
1961	3.2	2.6	2.8	2.4	1.7	1.7	1.1	1.7	2.0	2.3	2.0	2.4
1962	2.1	2.2	3.4	2.1	1.4	2.0	1.0	2.5	2.7	2.4	2.5	2.8
1963	2.1	3.0	2.2	2.3	2.4	1.6	1.0	1.4	3.1	3.4	2.8	3.2
1964	2.3	2.0	1.9	2.3	1.8	2.3	2.0	2.4	3.4	2.8	2.6	2.3
1965	1.6	2.9	2.0	2.4	1.2	1.8	1.4	1.2	2.5	3.0	1.7	1.6
1966	3.1	2.8	2.0	1.7	2.0	2.5	2.3	1.6	1.7	1.9	2.4	2.2
1967	2.0	2.1	2.2	2.1	1.6	2.2	1.4	2.0	1.9	1.7	1.8	2.1
1968	2.8	1.3	2.4	0.8	1.3	2.8	1.5	1.3	1.1	2.5	1.6	1.7
1969	2.1	2.9	2.5	2.3	2.2	2.0	0.9	1.9	2.2	3.1	4.0	2.5
1970	2.4	2.4	2.2	1.7	2.0	1.4	1.3	1.9	1.4	2.7	2.3	2.3
1971	2.1	2.2	2.4	2.1	2.2	0.9	1.0	1.4	1.8	3.6	2.2	3.4
1972	1.9	2.3	2.1	2.2	2.9	2.8	2.5	0.9	1.8	2.5	2.2	2.3
1973	2.7	2.7	2.1	1.7	1.9	1.8	0.6	0.7	2.0	1.9	1.8	2.4
1974	2.0	2.0	0.9	1.9	1.8	0.6	0.5	0.6	2.0	2.9	2.3	2.4
1975	2.1	3.2	2.4	1.4	0.9	1.4	0.7	0.8	2.6	2.2	2.1	2.5

LARGEST HS(METRES) FOR STATION 126 = 4.0

STATION 127 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 25.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3095	4673	2785	1558	330	118	.	.	.	.	12559
0.50 - 0.99	.	379	2157	1148	402	205	.	.	.	.	4291
1.00 - 1.49	.	.	18	147	118	8	.	.	.	.	291
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3095	5052	4960	2853	851	331	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.65 ANGLE CLASS % = 17.1

STATION 127 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 25.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1466	1406	.	.	564	429	27	.	.	.	3892
0.50 - 0.99	.	990	1870	311	145	1199	83	1	.	.	4599
1.00 - 1.49	.	.	195	698	386	771	147	1	.	.	2198
1.50 - 1.99	.	.	.	32	290	426	116	1	.	.	865
2.00 - 2.49	.	.	.	.	49	126	95	5	.	.	275
2.50 - 2.99	.	.	.	.	.	3	13	5	.	.	21
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1466	2396	2065	1041	1434	2954	481	13	0	0	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 2.91 ANGLE CLASS % = 11.9

STATION 127 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 25.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	870	770	.	.	1079	2606	2284	778	100	135	8622
0.50 - 0.99	.	704	1220	53	88	1148	1315	75	301	20	4924
1.00 - 1.49	.	.	191	576	70	270	133	77	165	8	1490
1.50 - 1.99	.	.	.	51	148	112	49	.	10	.	370
2.00 - 2.49	.	.	.	.	34	124	41	1	.	.	200
2.50 - 2.99	.	.	.	.	.	10	58	11	.	.	79
3.00 - 3.49	.	.	.	.	.	.	3	5	.	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	870	1474	1411	680	1419	4270	3883	947	576	163	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.20 ANGLE CLASS % = 15.7

STATION 127 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 25.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1158	1199	.	.	650	456	1812	590	487	1682	8034
0.50 - 0.99	.	1112	2096	106	54	778	2664	1644	1079	1319	10852
1.00 - 1.49	.	.	379	1060	138	521	792	361	804	999	5054
1.50 - 1.99	.	.	.	128	321	511	373	90	301	367	2091
2.00 - 2.49	.	.	.	.	73	650	391	44	59	70	1287
2.50 - 2.99	.	.	.	.	.	29	234	94	17	34	408
3.00 - 3.49	.	.	.	.	.	.	17	56	22	15	110
3.50 - 3.99	.	.	.	.	.	.	.	.	1	1	2
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1158	2311	2475	1294	1236	2945	6283	2879	2771	4488	

AVERAGE HS(M) = 0.88 LARGEST HS(M) = 4.42 ANGLE CLASS % = 27.9

STATION 127 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 25.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1038	1418	78	10	918	2198	135	1	1	.	5797
0.50 - 0.99	.	792	2818	1461	160	1309	342	1	8	.	6891
1.00 - 1.49	.	.	258	1555	739	826	290	18	3	.	3689
1.50 - 1.99	.	.	.	71	419	847	207	13	15	.	1572
2.00 - 2.49	.	.	.	.	56	410	155	3	.	.	624
2.50 - 2.99	.	.	.	.	.	10	35	3	.	.	48
3.00 - 3.49	.	.	.	.	.	1	.	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1038	2210	3154	3097	2292	5601	1164	39	27	0	

AVERAGE HS(M) = 0.83 LARGEST HS(M) = 3.27 ANGLE CLASS % = 18.6

STATION 127 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 25.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

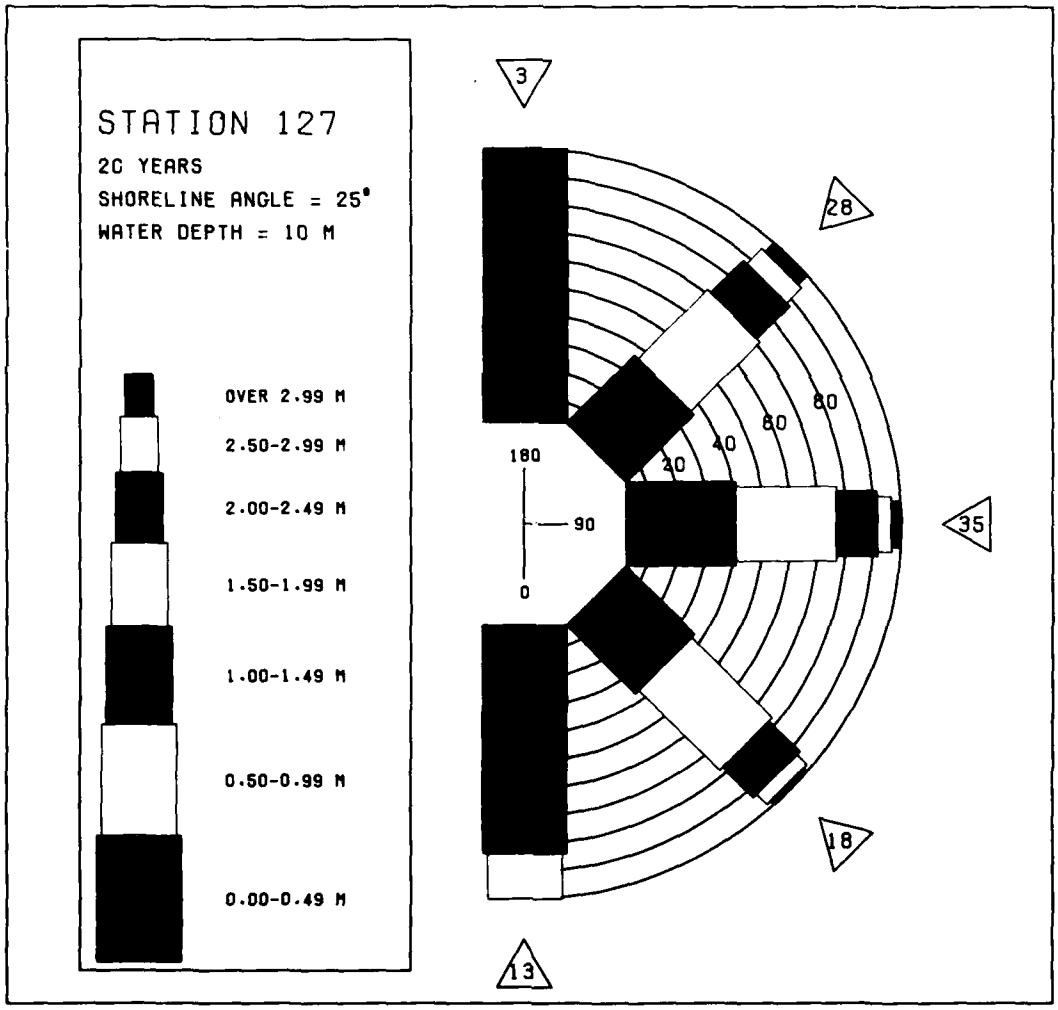
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	547	942	1134	1897	598	10	.	.	.	.	5128
0.50 - 0.99	.	11	335	439	18	.	.	.	.	.	803
1.00 - 1.49	.	.	.	1	.	.	.	.	.	.	1
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	547	953	1469	2337	616	10	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.00 ANGLE CLASS % = 5.9

STATION 127 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 25.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	817	1041	399	346	414	581	425	137	59	181	4400
0.50 - 0.99	.	399	1049	351	87	464	440	172	138	133	3233
1.00 - 1.49	.	.	104	404	145	239	136	45	97	100	1270
1.50 - 1.99	.	.	.	28	118	189	74	10	32	36	487
2.00 - 2.49	.	.	.	.	21	131	68	5	5	7	237
2.50 - 2.99	.	.	.	.	.	5	34	11	1	3	54
3.00 - 3.49	.	.	.	.	.	.	2	6	2	1	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	817	1440	1552	1129	785	1609	1179	386	334	461	

AVE HS(M) = 0.66 LARGEST HS(M) = 4.42 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 127

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.7	0.4	0.5	0.8	0.5	0.3	0.2	0.6	1.1	0.7	0.4	0.6
1957	0.7	0.9	0.5	1.0	0.5	0.5	0.4	0.6	0.8	0.9	1.0	0.6	0.7
1958	0.7	0.4	0.6	0.8	0.6	0.5	0.5	0.3	0.7	1.5	1.3	1.4	0.8
1959	1.0	1.3	1.2	0.8	0.7	0.5	0.7	0.4	1.1	1.4	1.1	0.9	0.9
1960	0.5	0.9	0.8	0.7	0.5	0.6	0.5	0.5	1.0	0.6	0.7	0.6	0.7
1961	0.7	0.8	0.7	0.7	0.7	0.7	0.4	0.6	0.7	1.0	0.7	0.7	0.7
1962	0.8	0.7	1.0	0.7	0.4	0.6	0.4	0.6	0.7	0.8	0.8	0.7	0.7
1963	0.7	1.4	0.9	0.7	0.7	0.5	0.4	0.3	1.0	1.3	1.0	0.8	0.8
1964	0.6	0.5	0.7	0.8	0.9	0.8	0.9	0.8	1.1	1.1	0.9	0.9	0.8
1965	0.5	0.9	0.6	0.8	0.3	0.6	0.5	0.4	1.2	1.1	0.8	0.4	0.7
1966	0.7	1.0	0.7	0.6	0.8	0.6	0.7	0.5	0.5	0.8	0.9	0.5	0.7
1967	0.5	0.6	0.7	0.7	0.5	0.9	0.5	0.5	0.9	0.7	0.5	0.5	0.6
1968	0.6	0.2	0.3	0.2	0.3	0.8	0.5	0.5	0.5	0.8	0.4	0.3	0.5
1969	0.8	0.6	0.5	0.8	0.9	0.6	0.4	0.7	0.8	1.2	1.1	0.7	0.8
1970	0.7	0.6	0.8	0.6	0.6	0.5	0.4	0.5	0.4	1.3	0.4	0.4	0.6
1971	0.5	0.7	0.5	0.4	0.4	0.2	0.4	0.4	0.6	0.8	0.9	1.7	0.6
1972	0.7	0.8	0.6	0.6	1.0	0.6	0.5	0.3	0.5	1.3	0.9	0.7	0.7
1973	0.8	0.7	0.8	0.7	0.5	0.5	0.2	0.2	0.3	0.7	0.5	0.7	0.5
1974	0.5	0.5	0.3	0.4	0.3	0.2	0.2	0.2	0.4	1.3	0.7	0.4	0.5
1975	0.6	1.0	0.6	0.3	0.2	0.2	0.3	0.1	0.5	0.5	0.6	0.6	0.5
MEAN	0.7	0.8	0.7	0.6	0.6	0.6	0.5	0.4	0.7	1.0	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 127

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	3.0	2.0	2.2	2.6	1.0	1.0	0.7	2.2	3.0	2.3	1.3
1957	2.0	3.0	1.5	2.6	1.4	1.3	1.3	1.5	2.1	2.4	2.6	2.2
1958	2.6	1.8	2.6	2.5	2.3	1.5	1.0	1.0	1.8	2.5	2.0	2.9
1959	2.4	3.1	2.6	1.8	1.7	1.4	2.1	1.1	3.3	3.0	2.4	2.8
1960	2.1	3.0	2.7	1.9	1.7	1.4	2.1	1.1	2.9	1.4	2.1	2.3
1961	3.2	2.7	2.5	2.4	1.6	1.9	1.1	1.7	2.1	2.3	2.2	2.2
1962	2.3	1.5	3.6	2.2	1.4	1.8	1.0	2.3	2.8	2.4	3.4	2.6
1963	2.2	3.4	2.4	2.2	2.3	1.7	1.0	1.4	3.1	3.4	2.9	3.3
1964	2.3	2.2	1.7	2.5	2.1	1.6	2.1	2.4	4.1	2.9	2.6	2.5
1965	1.6	2.9	1.9	2.4	0.9	1.8	1.0	1.2	2.5	3.4	2.0	1.6
1966	3.0	2.7	1.9	1.4	2.3	2.5	2.4	1.3	1.9	2.1	3.1	2.3
1967	1.6	1.8	2.3	2.1	1.3	2.3	1.3	1.3	2.0	1.7	2.2	2.3
1968	2.3	1.7	2.3	0.9	1.4	3.1	1.4	1.1	1.1	2.4	2.0	2.5
1969	2.2	2.4	2.4	2.3	2.4	1.9	0.8	1.7	2.3	3.0	4.4	2.4
1970	2.6	2.7	2.2	2.2	1.8	1.4	1.3	2.1	1.5	3.1	1.5	2.2
1971	1.8	2.2	2.4	1.4	2.0	0.7	1.3	1.4	1.8	3.3	2.3	3.5
1972	2.1	2.4	2.1	2.0	2.8	2.8	2.2	0.8	1.8	2.8	2.3	2.2
1973	2.8	3.0	2.4	1.8	1.8	1.9	0.6	0.9	2.1	2.0	2.2	2.5
1974	2.1	1.7	1.1	2.0	2.2	0.9	0.5	0.5	2.1	3.2	2.2	2.3
1975	2.5	2.9	2.2	1.4	0.9	1.4	0.7	0.7	2.6	2.2	2.2	2.6

LARGEST HS(METRES) FOR STATION 127 = 4.4

STATION 128 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 21.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3131	4755	2891	1457	330	188	1	.	.	.	12753
0.50 - 0.99	.	373	2041	1088	398	210	.	.	.	.	4110
1.00 - 1.49	.	.	20	145	114	5	.	.	.	.	284
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3131	5128	4952	2690	847	403	1	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.78 ANGLE CLASS % = 17.2

STATION 128 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 21.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1416	1391	.	.	515	441	32	.	.	.	3795
0.50 - 0.99	.	953	1878	292	154	1281	99	1	.	.	4658
1.00 - 1.49	.	.	195	718	374	776	150	1	.	.	2214
1.50 - 1.99	.	.	.	25	273	369	119	3	.	.	789
2.00 - 2.49	.	.	.	.	46	121	83	3	.	.	253
2.50 - 2.99	.	.	.	.	.	.	11	3	.	.	14
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1416	2344	2073	1035	1362	2988	494	11	0	0	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 2.70 ANGLE CLASS % = 11.7

STATION 128 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 21.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	894	773	.	.	1178	2525	2303	780	88	124	8665
0.50 - 0.99	.	722	1232	54	58	1094	1267	65	285	18	4797
1.00 - 1.49	.	.	193	557	68	256	130	75	176	8	1463
1.50 - 1.99	.	.	.	59	143	106	51	1	8	.	368
2.00 - 2.49	.	.	.	.	29	126	47	1	.	.	203
2.50 - 2.99	.	.	.	.	.	13	66	15	.	.	94
3.00 - 3.49	.	.	.	.	.	.	1	5	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	894	1495	1425	670	1476	4122	3865	942	557	150	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 3.20 ANGLE CLASS % = 15.6

STATION 128 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 21.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1117	1149			566	496	1767	566	451	1647	7759
0.50 - 0.99	.	1105	2104	94	61	864	2654	1618	1047	1254	10801
1.00 - 1.49	.	.	408	1112	148	552	852	337	817	985	5211
1.50 - 1.99	.	.	.	145	364	552	369	94	294	381	2199
2.00 - 2.49	.	.	.	.	87	722	407	53	66	66	1401
2.50 - 2.99	.	.	.	.	.	27	282	92	18	34	453
3.00 - 3.49	.	.	.	.	.	.	20	63	23	17	123
3.50 - 3.99	.	.	.	.	.	.	.	3	5	5	13
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1117	2254	2512	1351	1226	3213	6351	2826	2722	4390	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 4.56 ANGLE CLASS % = 28.0

STATION 128 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 21.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	870	1007	3		953	2282	118	3	1	.	5237
0.50 - 0.99	.	848	2356	744	65	1110	224	1	.	.	5348
1.00 - 1.49	.	.	355	1863	669	655	242	18	3	.	3805
1.50 - 1.99	.	.	.	164	485	704	183	15	6	.	1557
2.00 - 2.49	.	.	.	.	68	528	171	1	1	.	769
2.50 - 2.99	.	.	.	.	.	32	25	1	.	.	58
3.00 - 3.49	.	.	.	.	.	1	.	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	870	1855	2714	2771	2240	5312	963	39	11	0	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.34 ANGLE CLASS % = 16.8

STATION 128 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 21.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

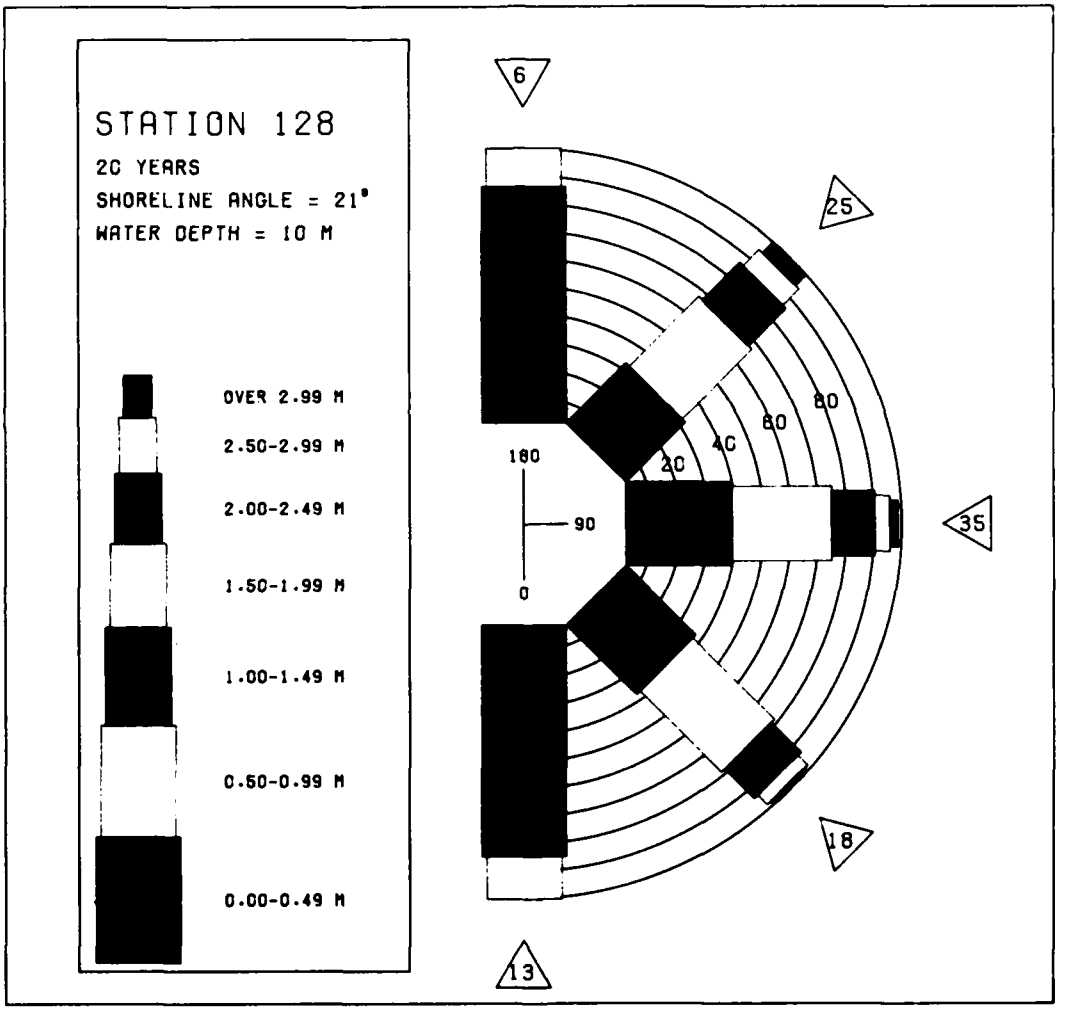
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	727	1338	1125	1955	853	13	.	.	.	.	6011
0.50 - 0.99	.	107	961	1386	124	6	.	.	.	.	2584
1.00 - 1.49	.	.	15	201	18	.	.	.	.	.	234
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	727	1445	2101	3542	996	19	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.60 ANGLE CLASS % = 8.8

STATION 128 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 21.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	815	1041	402	341	439	594	422	135	54	177	4420
0.50 - 0.99	.	411	1057	366	86	457	424	168	133	127	3229
1.00 - 1.49	.	.	118	459	139	224	137	43	99	99	1318
1.50 - 1.99	.	.	.	39	127	173	72	11	30	38	490
2.00 - 2.49	.	.	.	.	23	149	71	5	6	6	260
2.50 - 2.99	.	.	.	.	.	7	38	11	1	3	60
3.00 - 3.49	.	.	.	.	.	.	2	6	2	1	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	815	1452	1577	1205	814	1604	1166	379	325	451	

AVE HS(M) = 0.68 LARGEST HS(M) = 4.56 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 128

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.8	0.4	0.5	0.8	0.5	0.3	0.2	0.6	1.2	0.8	0.4	0.6
1957	0.7	1.0	0.5	0.9	0.5	0.5	0.4	0.6	0.8	0.9	1.0	0.6	0.7
1958	0.7	0.4	0.6	0.8	0.6	0.5	0.4	0.3	0.7	1.6	1.4	1.4	0.8
1959	1.0	1.3	1.2	0.8	0.7	0.5	0.7	0.4	1.1	1.4	1.2	0.9	0.9
1960	0.6	0.9	0.8	0.7	0.5	0.6	0.5	0.5	1.0	0.6	0.8	0.7	0.7
1961	0.7	0.8	0.7	0.7	0.7	0.7	0.4	0.6	0.7	1.0	0.8	0.7	0.7
1962	0.8	0.8	1.0	0.7	0.4	0.6	0.3	0.6	0.7	0.8	0.9	0.7	0.7
1963	0.8	1.4	0.9	0.8	0.7	0.5	0.4	0.3	1.1	1.4	1.0	0.8	0.8
1964	0.6	0.5	0.7	0.8	0.9	0.8	0.9	0.8	1.2	1.2	0.9	1.0	0.9
1965	0.6	0.9	0.6	0.8	0.3	0.6	0.5	0.4	1.2	1.2	0.9	0.5	0.7
1966	0.8	1.0	0.7	0.6	0.8	0.7	0.7	0.5	0.5	0.8	1.0	0.5	0.7
1967	0.5	0.6	0.7	0.7	0.5	0.9	0.5	0.5	1.0	0.7	0.5	0.5	0.6
1968	0.6	0.3	0.3	0.2	0.3	0.8	0.5	0.5	0.5	0.8	0.4	0.4	0.5
1969	0.9	0.7	0.5	0.8	0.9	0.6	0.4	0.7	0.8	1.3	1.1	0.7	0.8
1970	0.8	0.6	0.8	0.6	0.6	0.5	0.4	0.5	0.4	1.3	0.4	0.4	0.6
1971	0.5	0.7	0.5	0.4	0.4	0.2	0.4	0.4	0.7	0.8	0.9	1.7	0.6
1972	0.8	0.8	0.6	0.6	1.0	0.6	0.5	0.3	0.5	1.3	0.9	0.7	0.7
1973	0.8	0.8	0.8	0.7	0.5	0.5	0.1	0.2	0.4	0.8	0.5	0.7	0.6
1974	0.5	0.5	0.3	0.4	0.3	0.2	0.2	0.2	0.4	1.4	0.7	0.4	0.5
1975	0.6	1.0	0.6	0.3	0.2	0.2	0.3	0.1	0.5	0.5	0.6	0.6	0.5
MEAN	0.7	0.8	0.7	0.6	0.6	0.6	0.4	0.4	0.7	1.0	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 128

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	3.1	2.0	2.1	2.7	1.0	1.0	0.7	2.1	3.2	2.4	1.2
1957	2.0	2.9	1.5	2.5	1.4	1.3	1.2	1.6	2.2	2.5	2.7	2.2
1958	2.6	1.8	2.6	2.5	2.3	1.5	1.0	1.0	1.9	2.8	2.0	2.9
1959	2.3	3.1	2.6	1.7	1.7	1.4	2.1	1.1	3.4	3.0	2.5	2.8
1960	2.1	3.0	2.7	2.0	1.8	1.5	2.1	1.1	3.0	1.4	2.1	2.4
1961	3.2	2.7	2.5	2.4	1.6	1.7	1.1	1.7	2.3	2.3	2.2	2.2
1962	2.2	2.0	3.7	2.1	1.4	1.8	1.0	2.3	2.9	2.4	3.5	2.7
1963	2.4	3.6	2.4	2.3	2.3	1.7	1.0	1.4	3.3	3.5	2.9	3.3
1964	2.2	2.2	1.7	2.5	2.2	1.6	2.1	2.4	4.1	3.0	2.6	2.6
1965	1.7	2.9	2.0	2.5	0.9	1.9	1.2	1.3	2.5	3.4	2.1	1.8
1966	3.0	2.8	2.0	1.4	2.3	2.5	2.4	1.4	1.9	2.1	3.1	2.4
1967	1.7	2.0	2.3	2.1	1.3	2.3	1.3	1.3	2.1	1.8	2.3	2.3
1968	2.3	1.3	2.3	0.9	1.4	3.1	1.4	1.1	1.2	2.4	1.8	2.2
1969	2.2	2.4	2.4	2.4	2.4	1.9	0.8	1.8	2.3	3.0	4.6	2.4
1970	2.6	2.7	2.2	2.0	1.8	1.4	1.3	2.1	1.6	3.1	1.7	2.1
1971	1.8	2.2	2.4	1.4	2.0	0.7	1.3	1.4	1.9	3.3	2.4	3.7
1972	2.2	2.5	2.1	2.2	3.0	2.8	2.3	0.8	2.0	2.8	2.3	2.2
1973	2.9	3.0	2.3	1.8	1.8	1.9	0.6	0.9	2.1	2.1	2.3	2.5
1974	2.1	1.7	1.2	2.0	2.2	0.8	0.5	0.5	2.3	3.2	2.2	2.2
1975	2.5	2.9	2.2	1.4	0.9	1.4	0.7	0.7	2.7	2.2	2.2	2.6

LARGEST HS(METRES) FOR STATION 128 = 4.6

STATION 129 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1396	2193	2154	1042	116	.	.	.	.	.	6901
0.50 - 0.99	.	.	49	3	.	.	.	.	.	.	52
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1396	2193	2203	1045	116	0	0	0	0	0	

AVERAGE HS(M) = 0.17 LARGEST HS(M) = 0.66 ANGLE CLASS % = 7.0

STATION 129 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2320	3170	679	253	999	667	23	.	.	.	8111
0.50 - 0.99	.	752	2681	1023	467	1408	99	1	.	.	6431
1.00 - 1.49	.	.	118	552	408	740	145	1	.	.	1964
1.50 - 1.99	.	.	.	11	208	296	130	1	.	.	646
2.00 - 2.49	.	.	.	.	25	75	63	5	.	.	168
2.50 - 2.99	.	.	.	.	.	.	6	3	.	.	9
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2320	3922	3478	1839	2107	3186	466	11	0	0	

AVERAGE HS(M) = 0.62 LARGEST HS(M) = 2.92 ANGLE CLASS % = 17.3

STATION 129 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	924	809	.	.	1427	3068	2669	776	94	135	9902
0.50 - 0.99	.	771	1324	68	95	1185	1302	73	296	20	5134
1.00 - 1.49	.	.	189	612	82	275	131	75	172	8	1544
1.50 - 1.99	.	.	.	56	150	119	53	1	10	.	389
2.00 - 2.49	.	.	.	.	34	145	49	3	.	.	231
2.50 - 2.99	.	.	.	.	.	10	56	11	.	.	77
3.00 - 3.49	.	.	.	.	.	.	3	5	.	.	8
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	924	1580	1513	736	1788	4802	4263	944	572	163	

AVERAGE HS(M) = 0.56 LARGEST HS(M) = 3.20 ANGLE CLASS % = 17.3

STATION 129 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1141	1187	.	.	684	494	2065	610	506	1846	8533
0.50 - 0.99	.	1088	2094	97	46	805	2630	1654	1064	1293	10771
1.00 - 1.49	.	.	407	1042	133	501	797	335	821	577	5013
1.50 - 1.99	.	.	.	126	335	520	370	92	289	374	2117
2.00 - 2.49	.	.	.	.	85	643	574	44	65	68	1279
2.50 - 2.99	.	.	.	.	.	32	237	95	17	35	416
3.00 - 3.49	.	.	.	.	.	.	17	58	22	15	112
3.50 - 3.99	.	.	.	.	.	.	.	1	3	3	7
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1141	2275	2501	1265	1283	2995	6498	2892	2788	4612	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 4.42 ANGLE CLASS % = 28.3

STATION 129 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	884	1038	5	.	1221	2580	124	1	1	.	5854
0.50 - 0.99	.	896	2450	814	90	1192	284	.	8	.	5734
1.00 - 1.49	.	.	337	1644	723	713	278	18	3	.	3916
1.50 - 1.99	.	.	.	130	477	778	208	11	13	.	1617
2.00 - 2.49	.	.	.	.	61	520	179	1	1	.	762
2.50 - 2.99	.	.	.	.	.	18	47	5	.	.	70
3.00 - 3.49	.	.	.	.	.	1	.	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	884	1934	2792	2788	2572	5802	1120	36	26	0	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 3.27 ANGLE CLASS % = 18.0

STATION 129 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

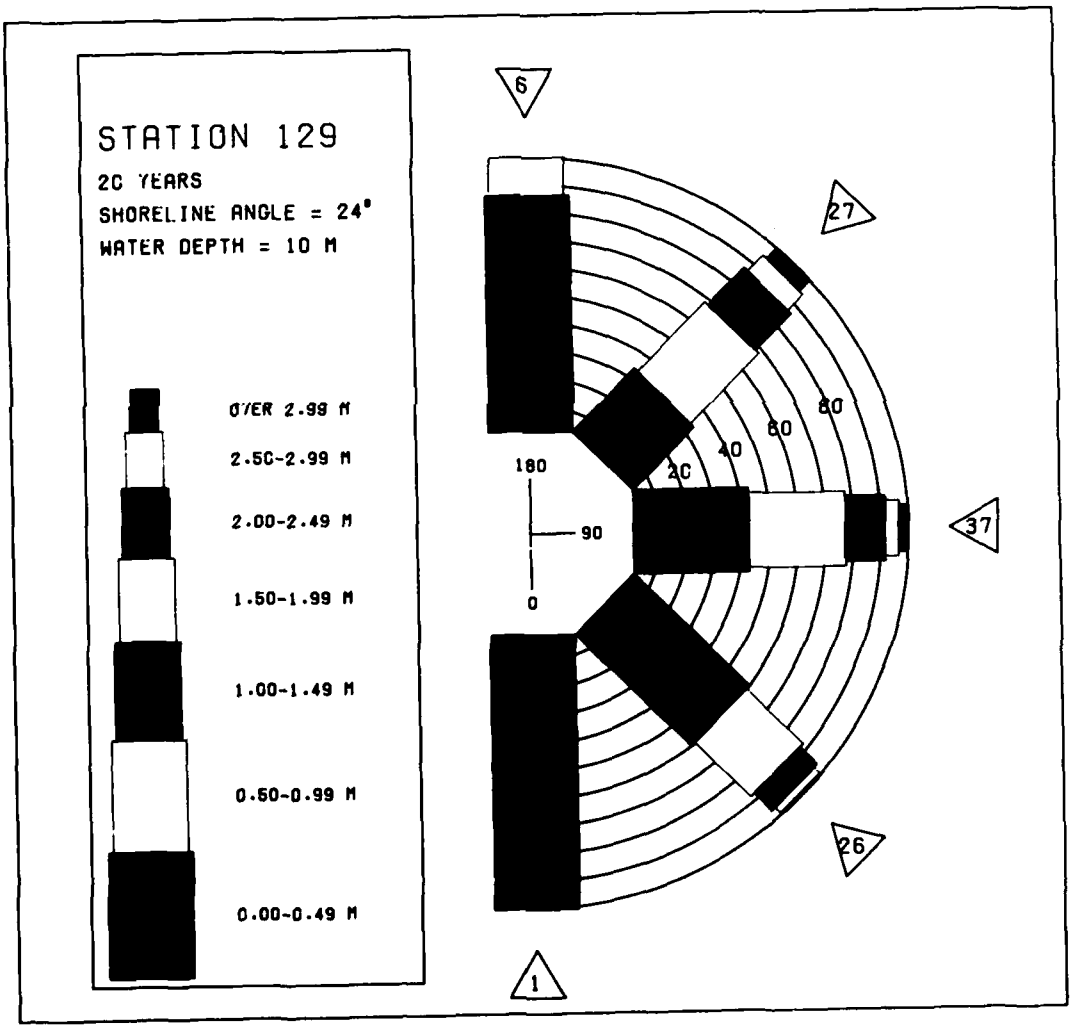
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	783	1372	1197	1928	811	15	.	.	.	.	6106
0.50 - 0.99	.	100	954	1329	119	6	.	.	.	.	2508
1.00 - 1.49	.	.	15	220	18	.	.	.	.	.	253
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	783	1472	2166	3477	948	21	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.47 ANGLE CLASS % = 8.9

STATION 129 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	745	977	403	322	526	682	488	138	60	198	4539
0.50 - 0.99	.	361	955	333	81	459	431	172	136	131	3059
1.00 - 1.49	.	.	106	427	136	223	135	43	99	98	1267
1.50 - 1.99	.	.	.	32	117	171	77	11	31	37	476
2.00 - 2.49	.	.	.	.	20	138	66	5	6	6	241
2.50 - 2.99	.	.	.	.	.	6	34	11	1	3	55
3.00 - 3.49	.	.	.	.	.	.	2	6	2	1	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	745	1338	1464	1114	880	1679	1233	386	335	474	

AVE HS(M) = 0.65 LARGEST HS(M) = 4.42 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 129

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.7	0.4	0.5	0.8	0.5	0.2	0.2	0.6	1.1	0.8	0.4	0.5
1957	0.7	0.9	0.5	0.9	0.5	0.5	0.4	0.6	0.8	0.9	1.0	0.6	0.7
1958	0.7	0.3	0.6	0.7	0.6	0.5	0.4	0.3	0.7	1.5	1.3	1.4	0.8
1959	1.0	1.3	1.2	0.8	0.6	0.5	0.7	0.4	1.1	1.4	1.1	0.9	0.9
1960	0.5	0.9	0.8	0.6	0.4	0.5	0.4	0.4	1.0	0.6	0.8	0.6	0.6
1961	0.7	0.8	0.7	0.6	0.7	0.6	0.4	0.6	0.7	1.0	0.7	0.7	0.7
1962	0.8	0.7	1.0	0.7	0.4	0.6	0.3	0.5	0.7	0.8	0.8	0.7	0.7
1963	0.7	1.4	0.9	0.7	0.7	0.5	0.3	0.3	1.1	1.4	1.0	0.8	0.8
1964	0.5	0.5	0.7	0.8	0.9	0.8	0.9	0.7	1.2	1.2	0.9	0.9	0.8
1965	0.5	0.9	0.5	0.8	0.2	0.6	0.4	0.3	1.2	1.2	0.8	0.5	0.7
1966	0.7	1.0	0.7	0.6	0.8	0.6	0.7	0.5	0.5	0.8	1.0	0.5	0.7
1967	0.5	0.5	0.7	0.7	0.4	0.9	0.5	0.4	0.9	0.7	0.5	0.5	0.6
1968	0.6	0.3	0.3	0.2	0.3	0.8	0.5	0.5	0.5	0.8	0.4	0.3	0.5
1969	0.8	0.6	0.4	0.7	0.9	0.6	0.4	0.7	0.8	1.3	1.1	0.6	0.7
1970	0.7	0.6	0.7	0.6	0.6	0.4	0.3	0.4	0.4	1.3	0.4	0.4	0.6
1971	0.5	0.7	0.4	0.4	0.4	0.2	0.3	0.4	0.7	0.8	0.9	1.7	0.6
1972	0.7	0.8	0.6	0.5	1.0	0.6	0.5	0.3	0.5	1.3	0.9	0.7	0.7
1973	0.8	0.7	0.7	0.6	0.5	0.5	0.1	0.2	0.3	0.7	0.5	0.7	0.5
1974	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.4	1.3	0.7	0.4	0.4
1975	0.5	1.0	0.6	0.3	0.1	0.2	0.3	0.1	0.5	0.5	0.6	0.6	0.4
MEAN	0.6	0.8	0.6	0.6	0.6	0.5	0.4	0.4	0.7	1.0	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 129

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	3.0	1.8	2.0	2.7	1.0	1.0	0.7	2.2	3.1	2.4	1.1
1957	2.0	3.0	1.5	2.6	1.4	1.3	1.2	1.5	2.1	2.5	2.6	2.2
1958	2.6	1.7	2.6	2.5	2.3	1.5	1.0	1.0	1.8	2.6	2.0	2.9
1959	2.3	3.1	2.6	1.7	1.7	1.3	2.1	1.1	3.3	3.0	2.5	2.8
1960	2.0	3.0	2.7	1.9	1.7	1.4	1.9	0.9	2.9	1.4	2.1	2.3
1961	3.2	2.7	2.5	2.4	1.6	1.6	1.1	1.7	2.2	2.3	2.2	2.2
1962	2.2	1.9	3.7	2.1	1.4	1.8	0.9	2.3	2.8	2.4	3.4	2.7
1963	2.2	3.4	2.4	2.3	2.3	1.7	1.0	1.3	3.1	3.5	2.9	3.3
1964	2.3	2.2	1.6	2.5	2.1	1.6	2.1	2.4	4.1	2.9	2.6	2.5
1965	1.6	2.9	2.0	2.4	0.9	1.8	1.2	1.3	2.5	3.4	2.0	1.8
1966	3.0	2.8	1.9	1.4	2.3	2.5	2.4	1.3	1.9	2.1	3.1	2.3
1967	1.6	1.9	2.3	2.1	1.3	2.3	1.2	1.3	2.1	1.7	2.3	2.3
1968	2.3	1.2	2.3	0.9	1.4	3.1	1.4	1.1	1.1	2.4	1.8	2.3
1969	2.2	2.4	2.3	2.3	2.4	1.9	0.8	1.8	2.3	3.0	4.4	2.4
1970	2.6	2.7	2.2	2.1	1.8	1.4	1.3	2.1	1.5	3.1	1.7	2.1
1971	1.8	2.2	2.4	1.4	1.9	0.7	1.3	1.4	1.9	3.3	2.4	3.6
1972	2.1	2.5	1.9	2.1	2.9	2.8	2.2	0.8	1.9	2.8	2.3	2.2
1973	2.9	3.0	2.4	1.7	1.8	1.9	0.5	0.9	2.1	2.1	2.2	2.4
1974	2.1	1.7	1.1	1.9	2.2	0.9	0.5	0.5	2.1	3.2	2.2	2.3
1975	2.5	2.9	2.2	1.4	0.8	1.4	0.7	0.7	2.6	2.2	2.2	2.5

LARGEST HS(METRES) FOR STATION 129 = 4.4

STATION 130 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1447	2268	2138	999	165	.	.	.	.	.	7017
0.50 - 0.99	.	.	63	3	.	.	.	.	.	.	66
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1447	2268	2201	1002	165	0	0	0	0	0	

AVERAGE HS(M) = 0.16 LARGEST HS(M) = 0.68 ANGLE CLASS % = 7.1

STATION 130 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2144	2953	578	181	1504	946	188	1	.	.	8495
0.50 - 0.99	.	722	2575	656	482	1295	119	1	.	.	6090
1.00 - 1.49	.	.	85	556	390	554	130	1	.	.	1716
1.50 - 1.99	.	.	.	15	140	220	106	3	.	.	484
2.00 - 2.49	.	.	.	.	29	42	42	5	.	.	118
2.50 - 2.99	.	.	.	.	.	.	1	1	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2144	3675	3238	1648	2545	3057	586	12	0	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 2.63 ANGLE CLASS % = 16.9

STATION 130 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	977	836	.	.	1391	3456	2982	800	220	198	10860
0.50 - 0.99	.	776	1386	54	65	1090	1264	61	321	22	5039
1.00 - 1.49	.	.	217	619	75	265	130	78	159	8	1551
1.50 - 1.99	.	.	.	61	154	162	56	.	8	.	443
2.00 - 2.49	.	.	.	.	25	147	65	5	.	.	242
2.50 - 2.99	.	.	.	.	.	10	54	15	.	.	79
3.00 - 3.49	.	.	.	.	.	.	5	1	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	977	1612	1603	734	1710	5130	4558	960	708	228	

AVERAGE HS(M) = 0.55 LARGEST HS(M) = 3.20 ANGLE CLASS % = 18.2

STATION 130 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1103	1214			1505	2156	2125	616	371	1913	11003
0.50 - 0.99	.	1131	2299	145	70	1451	2885	1685	1115	1303	12084
1.00 - 1.49	.	.	451	1285	195	785	927	364	821	1030	5858
1.50 - 1.99	.	.	.	176	448	763	438	112	323	422	2682
2.00 - 2.49	.	.	.	.	128	1013	479	49	77	68	1814
2.50 - 2.99	.	.	.	.	.	46	318	92	20	30	506
3.00 - 3.49	.	.	.	.	.	1	18	66	23	22	130
3.50 - 3.99	.	.	.	.	.	.	.	5	6	6	17
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1103	2345	2750	1606	2346	6215	7190	2989	2757	4795	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 4.56 ANGLE CLASS % = 34.1

STATION 130 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	989	1526	525	643	800	894	78	.	1	.	5456
0.50 - 0.99	.	477	2323	1690	145	775	162	3	.	.	5575
1.00 - 1.49	.	.	189	1264	530	597	189	5	3	.	2777
1.50 - 1.99	.	.	.	70	343	473	133	8	1	.	1028
2.00 - 2.49	.	.	.	.	34	258	82	.	3	.	377
2.50 - 2.99	.	.	.	.	.	13	13	1	.	.	27
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	989	2003	3037	3667	1852	3010	657	17	8	0	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 2.73 ANGLE CLASS % = 15.3

STATION 130 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

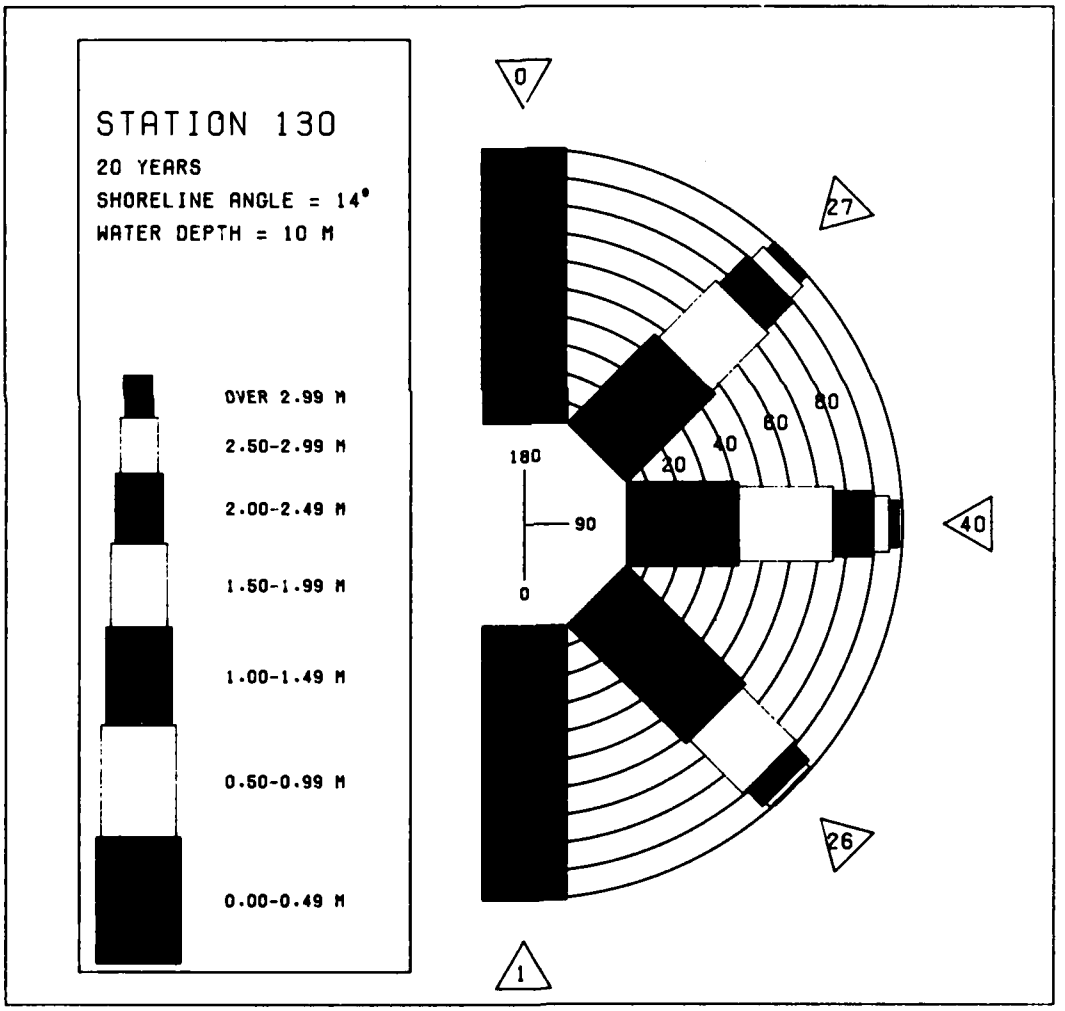
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	234	407	622	1228	325	.	.	.	.	.	2816
0.50 - 0.99	.	.	1	.	.	.	.	.	.	.	1
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	234	407	623	1228	325	0	0	0	0	0	

AVERAGE HS(M) = 0.10 LARGEST HS(M) = 0.54 ANGLE CLASS % = 2.8

STATION 130 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 14.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	689	920	386	305	569	745	537	141	59	211	4562
0.50 - 0.99	.	310	864	279	76	461	443	175	143	132	2883
1.00 - 1.49	.	.	94	372	119	220	137	45	98	103	1188
1.50 - 1.99	.	.	.	32	108	162	73	12	33	42	462
2.00 - 2.49	.	.	.	.	21	146	66	5	8	6	252
2.50 - 2.99	.	.	.	.	.	7	38	11	2	3	61
3.00 - 3.49	.	.	.	.	.	.	2	6	2	2	12
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	689	1230	1344	988	893	1741	1296	395	345	499	

AVE HS(M) = 0.63 LARGEST HS(M) = 4.56 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 130

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.7	0.3	0.4	0.8	0.5	0.2	0.2	0.6	1.2	0.8	0.4	0.5
1957	0.7	0.9	0.5	0.9	0.5	0.5	0.4	0.6	0.8	0.9	1.0	0.6	0.7
1958	0.7	0.3	0.5	0.7	0.6	0.4	0.4	0.3	0.7	1.6	1.4	1.4	0.7
1959	1.0	1.3	1.1	0.8	0.6	0.5	0.7	0.4	1.1	1.4	1.1	0.9	0.9
1960	0.5	0.8	0.7	0.6	0.4	0.5	0.4	0.4	1.0	0.6	0.8	0.6	0.6
1961	0.7	0.8	0.7	0.5	0.6	0.6	0.4	0.6	0.7	1.0	0.7	0.6	0.6
1962	0.8	0.7	1.0	0.6	0.3	0.5	0.3	0.5	0.7	0.8	0.8	0.7	0.6
1963	0.7	1.4	0.9	0.7	0.7	0.5	0.3	0.3	1.1	1.4	1.0	0.8	0.8
1964	0.5	0.4	0.6	0.8	0.9	0.8	0.9	0.7	1.2	1.2	0.9	0.9	0.8
1965	0.5	0.9	0.5	0.7	0.2	0.6	0.4	0.3	1.3	1.2	0.8	0.5	0.6
1966	0.7	1.0	0.7	0.5	0.7	0.6	0.7	0.5	0.4	0.8	1.0	0.5	0.7
1967	0.4	0.5	0.7	0.7	0.4	0.9	0.4	0.4	0.9	0.7	0.4	0.5	0.6
1968	0.6	0.2	0.3	0.2	0.3	0.6	0.5	0.5	0.5	0.8	0.3	0.3	0.4
1969	0.8	0.6	0.4	0.7	0.9	0.6	0.3	0.6	0.8	1.3	1.1	0.6	0.7
1970	0.7	0.5	0.7	0.5	0.6	0.4	0.3	0.4	0.4	1.3	0.4	0.4	0.6
1971	0.4	0.6	0.4	0.3	0.4	0.1	0.3	0.4	0.7	0.8	0.9	1.7	0.6
1972	0.7	0.8	0.5	0.5	1.0	0.6	0.5	0.3	0.5	1.3	0.8	0.6	0.7
1973	0.8	0.7	0.7	0.5	0.4	0.4	0.1	0.2	0.3	0.7	0.4	0.6	0.5
1974	0.5	0.3	0.3	0.4	0.3	0.2	0.1	0.2	0.4	1.4	0.7	0.4	0.4
1975	0.5	1.0	0.6	0.2	0.1	0.2	0.3	0.1	0.5	0.5	0.6	0.5	0.4
MEAN	0.6	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.7	1.0	0.8	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 130

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	3.1	1.5	1.7	2.7	1.0	1.0	0.7	2.2	3.2	2.6	1.2
1957	2.1	2.9	1.4	2.5	1.4	1.3	1.2	1.6	2.2	2.5	2.7	2.2
1958	2.5	1.5	2.6	2.5	2.3	1.5	1.0	0.9	1.9	2.7	2.1	2.9
1959	2.4	3.2	2.6	1.6	1.7	1.2	2.1	1.1	3.4	3.1	2.6	2.9
1960	2.0	3.0	2.7	2.0	1.8	1.5	1.7	0.9	3.0	1.3	2.1	2.4
1961	3.2	2.6	2.5	2.3	1.6	1.6	1.1	1.7	2.2	2.3	2.3	2.2
1962	2.2	2.0	3.8	2.1	1.5	1.8	0.8	2.3	2.9	2.5	3.6	2.8
1963	2.3	3.6	2.5	2.4	2.4	1.7	0.9	1.3	3.3	3.7	2.9	3.3
1964	2.2	2.2	1.5	2.6	2.3	1.6	2.1	2.4	4.3	3.0	2.6	2.6
1965	1.7	2.7	2.1	2.4	0.9	1.9	1.2	1.3	2.5	3.6	2.1	1.9
1966	2.9	2.9	2.0	1.4	2.4	2.4	2.4	1.4	1.9	2.1	3.3	2.5
1967	1.7	2.0	2.4	2.1	1.4	2.4	1.0	1.2	2.2	1.8	2.3	2.2
1968	2.5	1.0	2.3	0.9	1.4	3.1	1.4	1.1	1.1	2.4	1.5	1.9
1969	2.2	2.5	2.3	2.4	2.4	1.8	0.8	1.8	2.4	3.1	4.6	2.2
1970	2.7	2.3	2.2	1.8	1.8	1.4	1.3	2.1	1.6	3.3	1.7	2.1
1971	1.9	2.2	2.4	1.4	1.7	0.7	1.3	1.4	2.0	3.5	2.4	3.7
1972	2.2	2.5	1.9	2.2	3.0	2.7	2.3	0.8	1.9	2.9	2.4	2.1
1973	3.0	3.1	2.2	1.5	1.7	1.9	0.4	0.9	2.1	2.2	2.3	2.4
1974	2.2	1.4	1.2	1.7	2.2	0.8	0.5	0.4	2.3	3.3	2.1	2.2
1975	2.5	3.0	2.1	1.4	0.7	1.4	0.7	0.7	2.7	2.1	2.3	2.4

LARGEST HS(METRES) FOR STATION 130 = 4.6

STATION 131 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1615	2494	2116	764	71	.	.	.	.	.	7060
0.50 - 0.99	.	.	58	10	.	.	.	.	.	.	68
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1615	2494	2174	774	71	0	0	0	0	0	

AVERAGE HS(M) = 0.16 LARGEST HS(M) = 0.66 ANGLE CLASS % = 7.1

STATION 131 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3117	3507	525	179	1769	1028	63	3	.	.	10191
0.50 - 0.99	.	800	2554	668	391	799	83	.	.	.	5515
1.00 - 1.49	.	.	97	527	301	277	10	.	.	.	1212
1.50 - 1.99	.	.	.	25	118	162	.	.	.	.	305
2.00 - 2.49	.	.	.	.	22	46	1	.	.	.	69
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3117	4307	3176	1619	2601	2313	157	3	0	0	

AVERAGE HS(M) = 0.51 LARGEST HS(M) = 2.57 ANGLE CLASS % = 17.3

STATION 131 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1374	1187	.	.	1755	4625	4561	535	1646	1839	17522
0.50 - 0.99	.	929	1647	87	118	669	989	402	1870	1112	7823
1.00 - 1.49	.	.	188	684	97	301	171	85	473	131	2130
1.50 - 1.99	.	.	.	80	189	106	109	44	71	10	612
2.00 - 2.49	.	.	.	.	34	201	71	20	11	13	350
2.50 - 2.99	.	.	.	.	.	27	15	8	17	15	82
3.00 - 3.49	.	.	.	.	.	.	.	.	8	5	13
3.50 - 3.99	.	.	.	.	.	.	.	.	3	.	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1374	2116	1835	851	2193	5932	5916	1094	4099	3125	

AVERAGE HS(M) = 0.51 LARGEST HS(M) = 3.78 ANGLE CLASS % = 28.6

STATION 131 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1451	1394			1991	3901	1786	417	102	232	11274
0.50 - 0.99	1	1276	2467	123	70	1584	1403	458	58	140	7580
1.00 - 1.49	.	.	431	1447	203	520	571	148	37	92	3449
1.50 - 1.99	.	.	.	167	583	393	436	70	42	15	1706
2.00 - 2.49	.	.	.	.	162	790	217	56	35	22	1282
2.50 - 2.99	.	.	.	.	.	193	15	11	18	.	237
3.00 - 3.49	.	.	.	.	.	.	1	.	8	.	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1452	2670	2898	1737	3009	7381	4429	1160	300	501	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 3.38 ANGLE CLASS % = 25.6

STATION 131 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1081	1368	71	8	196	142	23	3	5	5	2902
0.50 - 0.99	.	732	2595	1512	157	15	1	.	.	.	5012
1.00 - 1.49	.	.	236	1745	420	17	.	.	.	.	2418
1.50 - 1.99	.	.	.	124	441	191	8	.	.	.	764
2.00 - 2.49	.	.	.	.	25	241	3	.	.	.	269
2.50 - 2.99	.	.	.	.	.	34	.	.	.	.	34
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1081	2100	2902	3389	1239	640	35	3	5	5	

AVERAGE HS(M) = 0.83 LARGEST HS(M) = 2.78 ANGLE CLASS % = 11.4

STATION 131 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

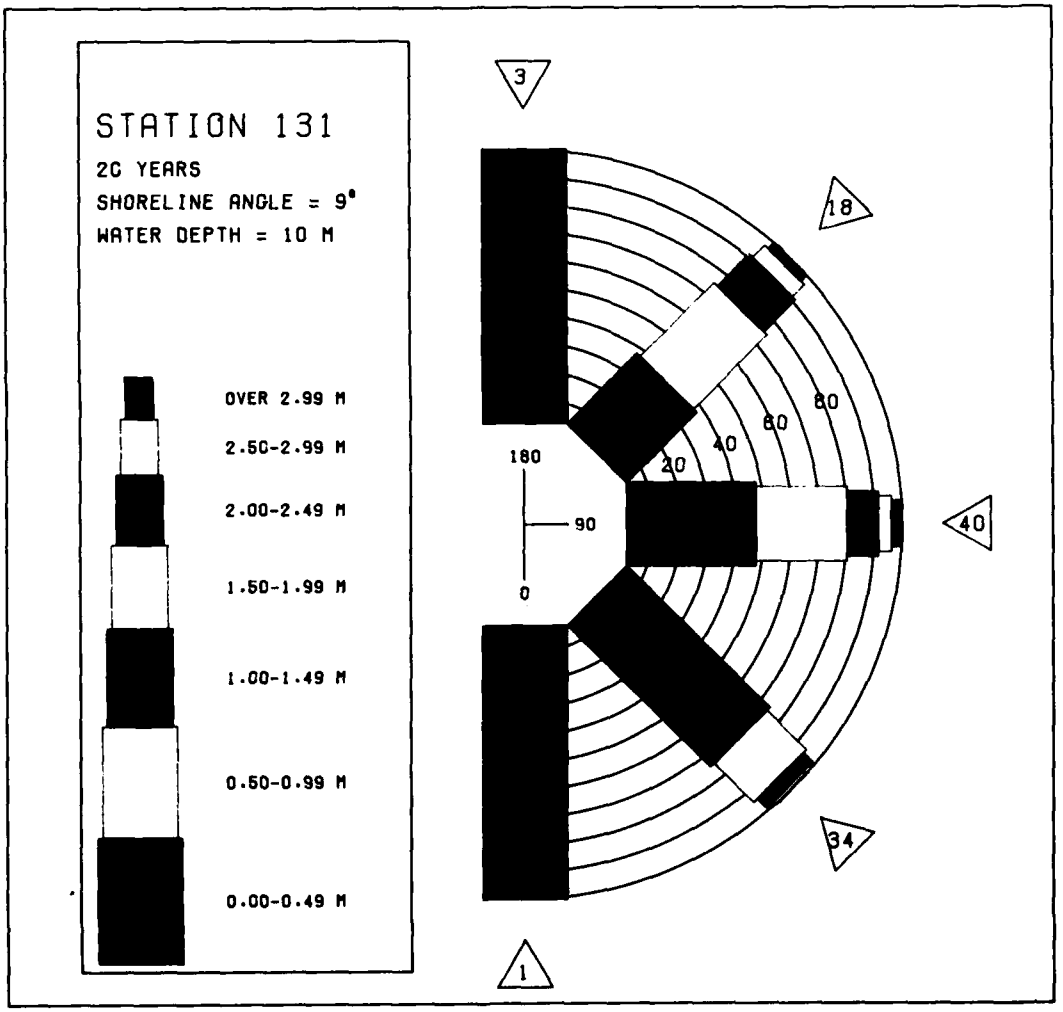
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	617	1016	1156	1909	857	3	.	.	.	.	5558
0.50 - 0.99	.	11	319	590	30	.	.	.	.	.	950
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	617	1027	1475	2499	887	3	0	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 0.96 ANGLE CLASS % = 6.5

STATION 131 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 9.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	925	1097	387	286	664	970	643	95	175	207	5449
0.50 - 0.99	.	375	964	321	76	306	247	86	192	125	2692
1.00 - 1.49	.	.	95	440	102	111	75	23	51	22	919
1.50 - 1.99	.	.	.	39	133	85	55	11	11	2	336
2.00 - 2.49	.	.	.	.	24	127	29	7	4	3	194
2.50 - 2.99	.	.	.	.	.	25	3	2	3	1	34
3.00 - 3.49	.	.	.	.	.	.	.	.	1	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	925	1472	1446	1086	999	1624	1052	224	437	360	

AVE HS(M) = 0.55 LARGEST HS(M) = 3.78 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 131

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.5	0.3	0.3	0.7	0.4	0.2	0.1	0.5	1.0	0.7	0.3	0.4
1957	0.6	0.8	0.4	0.8	0.4	0.4	0.3	0.4	0.6	0.9	0.9	0.6	0.6
1958	0.7	0.3	0.5	0.6	0.6	0.3	0.3	0.3	0.6	1.1	0.9	1.1	0.6
1959	0.7	0.9	0.9	0.7	0.6	0.4	0.5	0.3	1.0	1.0	1.0	0.9	0.7
1960	0.5	0.7	0.7	0.6	0.3	0.4	0.3	0.4	1.0	0.7	0.7	0.6	0.6
1961	0.7	0.7	0.6	0.5	0.5	0.5	0.3	0.5	0.6	0.9	0.7	0.5	0.6
1962	0.8	0.6	0.8	0.5	0.3	0.4	0.2	0.4	0.5	0.7	0.8	0.6	0.6
1963	0.6	1.1	0.8	0.6	0.5	0.4	0.2	0.2	0.9	1.1	0.7	0.6	0.6
1964	0.5	0.4	0.6	0.6	0.6	0.5	0.6	0.6	1.1	1.2	0.9	0.8	0.7
1965	0.5	0.8	0.5	0.6	0.2	0.5	0.3	0.2	1.1	1.0	0.8	0.5	0.6
1966	0.7	0.9	0.6	0.5	0.6	0.7	0.6	0.4	0.4	0.7	0.9	0.5	0.6
1967	0.4	0.4	0.7	0.6	0.4	0.6	0.3	0.3	0.8	0.6	0.5	0.5	0.5
1968	0.6	0.2	0.3	0.2	0.3	0.6	0.3	0.3	0.4	0.7	0.3	0.3	0.4
1969	0.8	0.5	0.4	0.7	0.8	0.4	0.3	0.6	0.7	1.2	0.8	0.5	0.6
1970	0.7	0.6	0.6	0.5	0.5	0.4	0.2	0.3	0.4	1.2	0.3	0.3	0.5
1971	0.4	0.6	0.3	0.3	0.3	0.1	0.2	0.3	0.6	0.7	0.8	1.3	0.5
1972	0.7	0.7	0.5	0.5	0.8	0.6	0.4	0.2	0.5	1.1	0.7	0.5	0.6
1973	0.8	0.7	0.7	0.5	0.3	0.4	0.1	0.2	0.3	0.8	0.5	0.5	0.5
1974	0.5	0.4	0.2	0.4	0.3	0.2	0.2	0.2	0.4	1.2	0.7	0.4	0.4
1975	0.5	0.6	0.4	0.3	0.1	0.1	0.2	0.1	0.4	0.5	0.6	0.5	0.4
MEAN	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.6	0.9	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 131

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.8	1.1	1.6	2.3	0.9	0.9	0.5	2.2	2.6	2.5	0.9
1957	2.1	2.5	1.5	2.3	1.4	1.4	1.0	1.4	2.0	2.5	2.6	2.4
1958	2.5	1.3	2.3	2.2	2.4	1.3	1.0	1.0	1.5	2.5	1.8	2.5
1959	2.0	2.5	2.7	1.4	1.7	1.2	1.4	1.0	2.6	2.7	2.6	2.6
1960	1.7	2.6	2.4	1.6	1.6	1.5	1.4	1.0	2.9	1.3	2.2	2.5
1961	3.0	2.5	2.3	2.2	1.5	1.3	1.0	1.5	1.9	2.4	2.3	1.8
1962	2.2	2.0	3.5	1.9	1.4	1.2	0.7	2.3	2.8	1.8	2.6	2.4
1963	2.4	2.7	2.4	2.2	2.2	2.1	0.9	0.9	2.8	3.8	2.5	2.8
1964	2.1	1.9	1.4	2.3	2.1	1.5	1.7	2.0	3.5	2.5	2.6	2.6
1965	1.9	2.6	1.9	1.7	0.7	1.3	1.0	1.3	2.6	2.8	2.2	1.9
1966	2.3	2.7	1.9	1.6	2.3	2.3	2.3	1.5	1.5	1.7	2.5	2.5
1967	1.8	1.7	2.4	2.1	1.2	2.2	0.9	1.3	2.2	2.1	1.9	1.6
1968	2.4	1.1	2.3	1.1	1.4	2.5	1.2	1.0	1.2	2.5	1.4	1.4
1969	2.3	2.3	2.4	2.0	2.4	1.6	0.8	1.8	2.5	2.7	3.2	2.0
1970	2.5	2.0	1.6	1.4	1.8	1.2	1.0	1.4	1.8	2.6	1.3	2.1
1971	1.4	2.3	1.4	1.2	1.4	0.6	1.2	1.3	2.3	2.6	2.5	3.1
1972	2.5	2.6	1.7	2.6	2.4	2.6	1.9	0.7	2.2	2.7	2.5	2.3
1973	2.2	2.7	2.1	1.4	1.5	1.9	0.4	1.0	2.1	2.3	2.6	2.2
1974	2.4	1.5	1.2	1.6	1.9	0.6	0.5	0.5	2.5	3.1	2.4	2.1
1975	2.2	2.3	1.6	1.3	0.7	1.3	0.6	0.7	2.5	2.4	2.4	2.1

LARGEST HS(METRES) FOR STATION 131 = 3.8

STATION 132 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3009	4185	2607	905	232	118	.	.	.	.	11056
0.50 - 0.99	.	61	746	391	116	.	.	.	.	.	1314
1.00 - 1.49	.	.	.	5	1	.	.	.	.	.	6
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3009	4246	3353	1301	349	118	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.28 ANGLE CLASS % = 12.4

STATION 132 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2373	2277	32	.	2811	5349	3413	5	.	.	16260
0.50 - 0.99	.	1066	2424	532	347	1151	145	3	.	.	5668
1.00 - 1.49	.	.	164	698	313	328	35	.	.	.	1538
1.50 - 1.99	.	.	.	41	138	167	17	.	.	.	363
2.00 - 2.49	.	.	.	.	18	63	6	.	.	.	87
2.50 - 2.99	.	.	.	.	.	1	1	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2373	3343	2620	1271	3627	7059	3617	8	0	0	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 2.79 ANGLE CLASS % = 23.9

STATION 132 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1185	1105	.	.	1416	1235	2250	932	1760	2099	11982
0.50 - 0.99	.	937	1670	88	106	1060	1755	635	1885	1220	9556
1.00 - 1.49	.	.	224	747	97	441	396	191	491	213	2800
1.50 - 1.99	.	.	.	102	229	198	285	99	85	27	1025
2.00 - 2.49	.	.	.	.	61	347	198	70	37	34	747
2.50 - 2.99	.	.	.	.	.	42	29	22	41	17	151
3.00 - 3.49	.	.	.	.	.	.	1	.	22	5	28
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1185	2042	1894	937	1909	3323	4914	2149	4322	3615	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 3.78 ANGLE CLASS % = 26.3

STATION 132 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1341	1233			1358	3032	740	8	.	.	7712
0.50 - 0.99	1	1211	2558	143	39	776	550	10	5	.	5293
1.00 - 1.49	.	.	443	1688	256	277	309	46	3	.	3019
1.50 - 1.99	.	.	.	189	619	496	232	22	29	.	1587
2.00 - 2.49	.	.	.	.	200	799	107	5	3	.	1112
2.50 - 2.99	.	.	.	.	.	272	5	1	.	.	278
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1342	2444	3001	2020	2672	5452	1946	90	40	0	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 2.92 ANGLE CLASS % = 19.0

STATION 132 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1040	1642	521	617	554	285	25	3	5	5	4697
0.50 - 0.99	.	441	2145	2022	207	25	6	1	.	.	4847
1.00 - 1.49	.	.	160	1471	263	8	1	.	.	.	1903
1.50 - 1.99	.	.	.	131	183	68	1	.	.	.	393
2.00 - 2.49	.	.	.	.	20	49	1	.	.	.	70
2.50 - 2.99	.	.	.	.	.	10	.	.	.	.	10
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1040	2083	2826	4241	1237	445	34	4	5	5	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.62 ANGLE CLASS % = 11.9

STATION 132 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

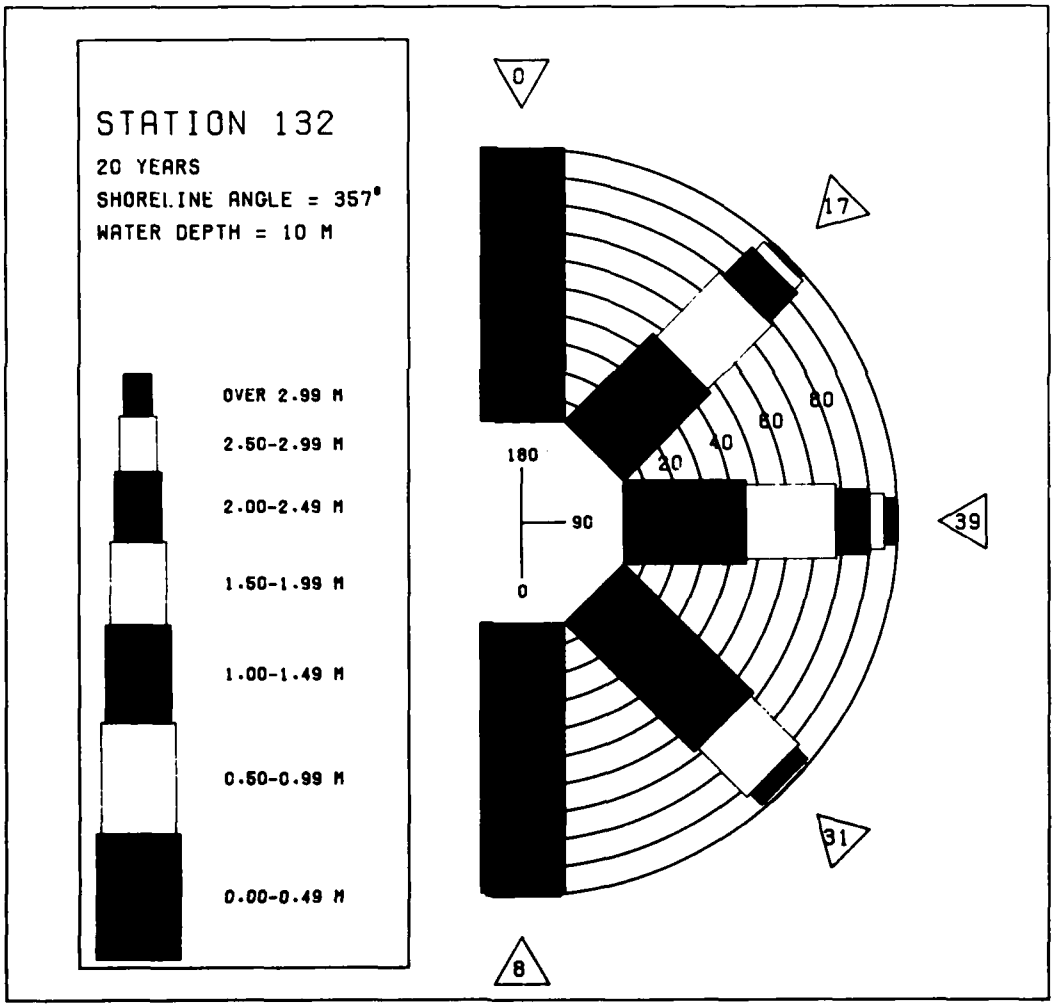
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	263	395	645	1153	386	.	.	.	.	.	2842
0.50 - 0.99	.	.	3	.	.	.	.	.	.	.	3
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	263	395	648	1153	386	0	0	0	0	0	

AVERAGE HS(M) = 0.12 LARGEST HS(M) = 0.56 ANGLE CLASS % = 2.8

STATION 132 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 357.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	921	1084	380	267	676	1002	643	94	176	210	5453
0.50 - 0.99	.	371	954	317	81	301	246	85	189	122	2666
1.00 - 1.49	.	.	99	461	93	105	74	23	49	21	925
1.50 - 1.99	.	.	.	46	138	73	53	12	11	2	335
2.00 - 2.49	.	.	.	.	30	125	31	7	4	3	200
2.50 - 2.99	.	.	.	.	.	32	3	2	4	1	42
3.00 - 3.49	.	.	.	.	.	.	.	.	2	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	921	1455	1433	1091	1018	1638	1050	223	435	359	

AVE HS(M) = 0.55 LARGEST HS(M) = 3.78 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 132

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.5	0.3	0.3	0.7	0.4	0.2	0.1	0.5	1.0	0.7	0.3	0.5
1957	0.6	0.8	0.4	0.8	0.4	0.4	0.3	0.4	0.6	0.9	0.9	0.6	0.6
1958	0.7	0.3	0.5	0.6	0.6	0.3	0.3	0.3	0.6	1.1	0.9	1.1	0.6
1959	0.7	0.9	0.9	0.7	0.6	0.4	0.5	0.3	1.0	1.0	1.1	0.9	0.7
1960	0.5	0.7	0.7	0.6	0.3	0.4	0.3	0.4	1.0	0.7	0.7	0.7	0.6
1961	0.7	0.7	0.6	0.4	0.5	0.5	0.3	0.5	0.6	1.0	0.7	0.5	0.6
1962	0.8	0.6	0.8	0.5	0.3	0.4	0.2	0.4	0.5	0.7	0.8	0.6	0.6
1963	0.6	1.1	0.8	0.6	0.5	0.4	0.2	0.2	0.9	1.1	0.7	0.6	0.6
1964	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.6	1.1	1.3	0.9	0.8	0.7
1965	0.5	0.8	0.5	0.6	0.2	0.5	0.3	0.2	1.1	1.0	0.8	0.5	0.6
1966	0.7	0.9	0.6	0.5	0.6	0.7	0.6	0.4	0.4	0.7	0.9	0.5	0.6
1967	0.4	0.5	0.7	0.6	0.4	0.6	0.3	0.3	0.8	0.6	0.5	0.5	0.5
1968	0.6	0.3	0.3	0.2	0.3	0.5	0.3	0.3	0.4	0.7	0.3	0.3	0.4
1969	0.8	0.6	0.4	0.7	0.8	0.4	0.2	0.6	0.7	1.2	0.9	0.5	0.6
1970	0.7	0.6	0.6	0.4	0.5	0.4	0.2	0.3	0.4	1.2	0.4	0.3	0.5
1971	0.4	0.6	0.3	0.3	0.3	0.1	0.2	0.3	0.6	0.7	0.8	1.3	0.5
1972	0.7	0.8	0.5	0.5	0.8	0.6	0.4	0.2	0.5	1.1	0.7	0.5	0.6
1973	0.8	0.7	0.7	0.5	0.3	0.4	0.1	0.2	0.3	0.8	0.5	0.5	0.5
1974	0.5	0.4	0.2	0.4	0.3	0.2	0.2	0.2	0.4	1.3	0.7	0.4	0.4
1975	0.5	0.6	0.4	0.3	0.1	0.1	0.2	0.1	0.4	0.5	0.6	0.5	0.4
MEAN	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.6	0.9	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 132

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.7	1.2	1.5	2.3	0.9	0.8	0.5	2.3	2.6	2.5	0.8
1957	2.0	2.5	1.5	2.1	1.4	1.4	1.0	1.4	2.0	2.5	2.6	2.4
1958	2.7	1.2	2.2	2.2	2.4	1.3	1.0	1.0	1.6	2.5	1.9	2.5
1959	2.0	2.5	2.7	1.4	1.7	1.2	1.3	1.0	2.6	2.7	2.6	2.6
1960	1.7	2.5	2.3	1.6	1.6	1.5	1.3	1.0	2.9	1.3	2.2	2.5
1961	3.0	2.4	2.3	2.2	1.5	1.2	1.0	1.5	2.0	2.5	2.3	1.8
1962	2.2	2.0	3.5	1.9	1.4	1.2	0.7	2.3	2.8	1.8	2.6	2.4
1963	2.4	2.8	2.5	2.2	2.3	2.2	0.9	0.9	2.8	3.8	2.5	2.8
1964	2.0	1.7	1.4	2.3	2.1	1.5	1.7	2.0	3.5	2.5	2.6	2.6
1965	2.0	2.5	2.0	1.8	0.7	1.3	1.0	1.3	2.7	2.9	2.3	2.0
1966	2.4	2.7	1.9	1.5	2.3	2.3	2.4	1.6	1.6	1.7	2.5	2.6
1967	1.9	1.7	2.4	2.1	1.2	2.2	0.9	1.3	2.2	2.1	1.9	1.4
1968	2.5	1.2	1.9	1.1	1.4	2.5	1.3	1.1	1.2	2.5	1.4	1.4
1969	2.4	2.3	2.4	2.0	2.4	1.6	0.8	1.8	2.5	2.7	3.2	1.8
1970	2.5	1.8	1.6	1.3	1.8	1.2	1.0	1.4	1.8	2.7	1.3	2.1
1971	1.5	2.3	1.3	1.2	1.3	0.6	1.1	1.4	2.4	2.7	2.5	3.1
1972	2.5	2.6	1.7	2.6	2.4	2.6	1.9	0.7	2.2	2.7	2.5	2.3
1973	2.2	2.7	1.9	1.3	1.5	1.8	0.4	1.0	2.1	2.4	2.6	2.2
1974	2.4	1.4	1.2	1.5	1.6	0.6	0.5	0.5	2.5	3.1	2.4	2.1
1975	2.2	2.4	1.5	1.3	0.7	1.3	0.6	0.7	2.6	2.4	2.3	2.1

LARGEST HS(METRES) FOR STATION 132 = 3.8

STATION 133 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 352.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4019	5306	2852	1028	237	167	.	.	.	.	13609
0.50 - 0.99	.	278	1442	718	314	183	.	.	.	.	2935
1.00 - 1.49	.	.	8	82	70	3	.	.	.	.	163
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4019	5584	4302	1828	624	353	0	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.80 ANGLE CLASS % = 16.7

STATION 133 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 352.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1914	1764	.	.	2782	5159	254	6	.	.	11879
0.50 - 0.99	.	1129	2243	337	184	997	152	6	.	.	5048
1.00 - 1.49	.	.	193	737	265	340	25	.	.	.	1560
1.50 - 1.99	.	.	.	53	154	168	11	.	.	.	406
2.00 - 2.49	.	.	.	.	20	68	1	.	.	.	89
2.50 - 2.99	.	.	.	.	.	3	.	.	.	.	3
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1914	2893	2436	1127	3405	6755	443	12	0	0	

AVERAGE HS(M) = 0.49 LARGEST HS(M) = 2.52 ANGLE CLASS % = 19.0

STATION 133 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 352.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1167	1031	.	.	1153	1350	5800	889	1702	1972	15064
0.50 - 0.99	.	888	1591	66	109	1206	2037	816	1853	1187	9753
1.00 - 1.49	.	.	232	800	118	547	544	217	485	220	3163
1.50 - 1.99	.	.	.	104	246	265	424	114	85	27	1265
2.00 - 2.49	.	.	.	.	75	386	277	68	59	52	917
2.50 - 2.99	.	.	.	.	.	47	39	27	41	20	174
3.00 - 3.49	.	.	.	.	.	.	1	.	22	5	28
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1167	1919	1823	970	1701	3801	9122	2131	4228	3463	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 3.82 ANGLE CLASS % = 30.3

STATION 133 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 352.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1298	1196	.	.	1168	2599	112	8	5	5	6391
0.50 - 0.99	1	1218	2568	155	18	516	169	6	5	.	4676
1.00 - 1.49	.	.	477	1755	256	140	145	15	3	.	2791
1.50 - 1.99	.	.	.	236	853	213	60	8	15	.	1405
2.00 - 2.49	.	.	.	.	220	768	46	.	11	.	1045
2.50 - 2.99	.	.	.	.	.	282	.	.	.	.	282
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1299	2414	3045	2146	2515	4518	572	37	39	5	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 2.92 ANGLE CLASS % = 16.6

STATION 133 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 352.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	949	1507	533	646	641	290	27	3	.	.	4596
0.50 - 0.99	.	434	2010	2014	236	37	10	.	.	.	4741
1.00 - 1.49	.	.	131	1529	246	10	1	.	.	.	1917
1.50 - 1.99	.	.	.	181	131	46	.	.	.	.	358
2.00 - 2.49	.	.	.	.	13	47	1	.	.	.	61
2.50 - 2.99	.	.	.	.	.	8	.	.	.	.	8
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	949	1941	2674	4370	1267	438	39	3	0	0	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 2.79 ANGLE CLASS % = 11.7

STATION 133 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 352.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

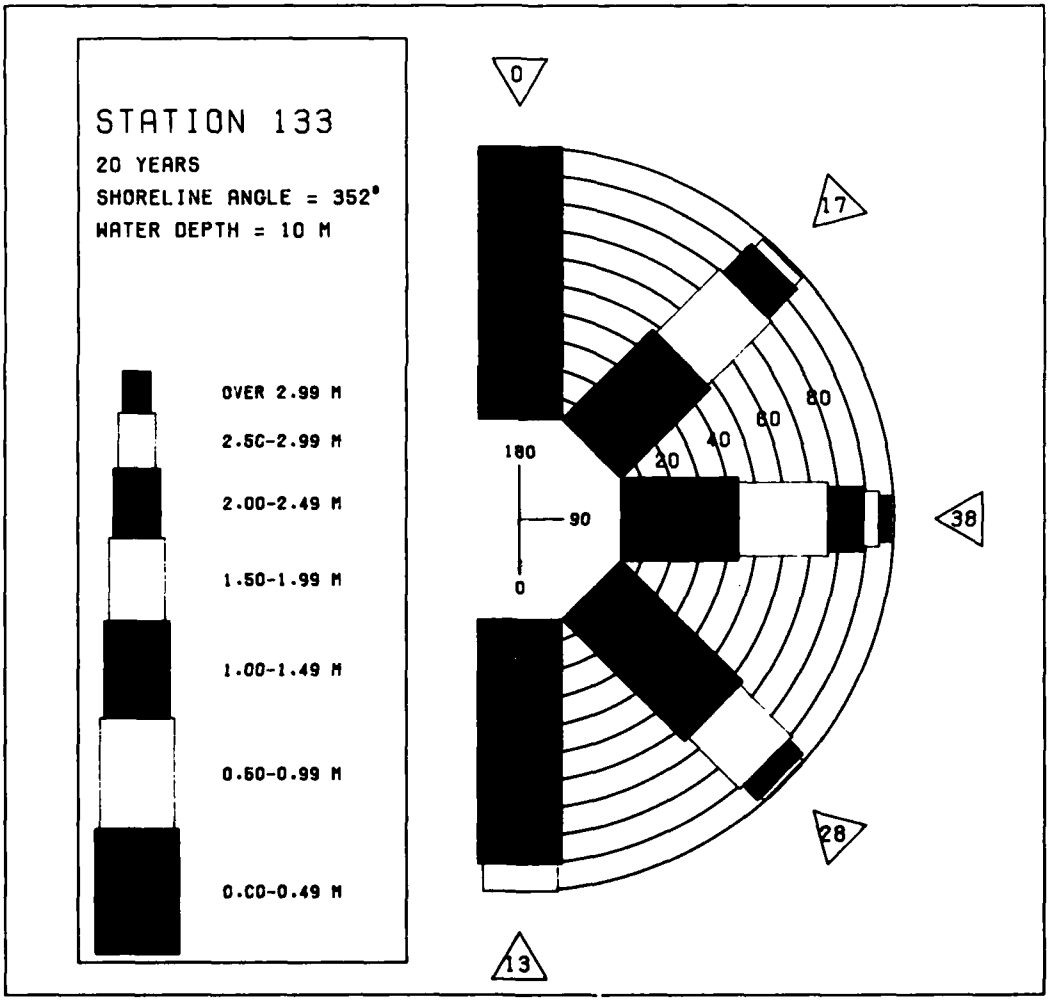
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	246	448	616	1151	364	.	.	.	.	.	2825
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	246	448	616	1151	364	0	0	0	0	0	

AVERAGE HS(M) = 0.11 LARGEST HS(M) = 0.47 ANGLE CLASS % = 2.8

STATION 133 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 352.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	959	1125	400	282	634	956	619	90	170	197	5432
0.50 - 0.99	.	394	985	329	86	294	239	82	185	118	2712
1.00 - 1.49	.	.	104	490	95	104	71	23	48	22	957
1.50 - 1.99	.	.	.	57	138	71	51	12	10	2	341
2.00 - 2.49	.	.	.	.	33	127	32	6	5	3	206
2.50 - 2.99	.	.	.	.	.	34	3	2	4	2	45
3.00 - 3.49	.	.	.	.	.	.	.	.	2	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	959	1519	1489	1158	986	1586	1015	215	424	344	

AVE HS(M) = 0.56 LARGEST HS(M) = 3.82 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 133

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.5	0.3	0.3	0.7	0.4	0.2	0.1	0.5	1.0	0.7	0.3	0.5
1957	0.7	0.8	0.4	0.8	0.5	0.4	0.3	0.4	0.7	0.9	0.9	0.6	0.6
1958	0.7	0.3	0.5	0.6	0.6	0.3	0.3	0.3	0.6	1.1	0.9	1.1	0.6
1959	0.7	0.9	1.0	0.7	0.6	0.4	0.5	0.3	1.0	1.0	1.1	0.9	0.8
1960	0.5	0.7	0.7	0.6	0.3	0.4	0.3	0.4	1.0	0.7	0.7	0.7	0.6
1961	0.7	0.7	0.6	0.5	0.5	0.5	0.3	0.5	0.6	1.0	0.7	0.6	0.6
1962	0.8	0.6	0.9	0.5	0.3	0.4	0.2	0.4	0.5	0.7	0.8	0.6	0.6
1963	0.7	1.1	0.8	0.6	0.5	0.4	0.2	0.2	1.0	1.2	0.7	0.6	0.7
1964	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.6	1.1	1.3	0.9	0.8	0.7
1965	0.5	0.8	0.5	0.6	0.2	0.5	0.3	0.2	1.1	1.0	0.8	0.5	0.6
1966	0.7	0.9	0.6	0.5	0.6	0.7	0.6	0.4	0.4	0.7	0.9	0.5	0.6
1967	0.4	0.5	0.7	0.6	0.4	0.6	0.3	0.3	0.9	0.7	0.5	0.5	0.5
1968	0.6	0.3	0.3	0.2	0.3	0.5	0.3	0.3	0.4	0.7	0.3	0.3	0.4
1969	0.8	0.6	0.4	0.7	0.8	0.4	0.2	0.6	0.7	1.2	0.9	0.5	0.6
1970	0.7	0.6	0.6	0.5	0.5	0.4	0.2	0.3	0.4	1.2	0.4	0.3	0.5
1971	0.4	0.6	0.4	0.3	0.3	0.1	0.2	0.3	0.6	0.7	0.9	1.3	0.5
1972	0.7	0.8	0.5	0.5	0.8	0.6	0.4	0.2	0.5	1.1	0.7	0.6	0.6
1973	0.8	0.7	0.7	0.5	0.3	0.4	0.1	0.2	0.3	0.8	0.5	0.5	0.5
1974	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.4	1.3	0.7	0.4	0.4
1975	0.5	0.6	0.4	0.3	0.1	0.1	0.2	0.1	0.4	0.5	0.6	0.6	0.4
MEAN	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.7	0.9	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 133

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.7	1.2	1.4	2.3	0.9	0.8	0.5	2.3	2.7	2.5	0.9
1957	2.0	2.6	1.5	2.2	1.4	1.4	1.0	1.4	2.0	2.5	2.6	2.4
1958	2.7	1.1	2.2	2.2	2.4	1.3	1.0	0.9	1.6	2.5	1.9	2.5
1959	2.0	2.5	2.7	1.4	1.7	1.2	1.3	1.0	2.6	2.7	2.6	2.6
1960	1.7	2.5	2.3	1.6	1.7	1.6	1.2	1.1	2.9	1.4	2.3	2.5
1961	2.9	2.3	2.3	2.2	1.5	1.2	1.0	1.5	2.0	2.5	2.3	1.8
1962	2.2	2.0	3.5	1.9	1.4	1.2	0.7	2.3	2.8	1.9	2.6	2.4
1963	2.4	2.8	2.5	2.2	2.4	2.3	0.9	0.9	2.8	3.8	2.5	2.8
1964	2.0	1.6	1.3	2.2	2.2	1.5	1.7	2.0	3.5	2.5	2.6	2.7
1965	2.0	2.4	2.0	1.8	0.7	1.3	1.1	1.3	2.7	2.9	2.4	2.0
1966	2.4	2.7	1.9	1.5	2.3	2.3	2.4	1.6	1.6	1.8	2.6	2.6
1967	2.0	1.8	2.4	2.1	1.2	2.2	0.9	1.3	2.4	2.1	1.9	1.3
1968	2.5	1.2	2.1	1.1	1.4	2.5	1.3	1.1	1.2	2.5	1.4	1.4
1969	2.4	2.3	2.4	2.0	2.4	1.6	0.8	1.8	2.5	2.7	3.2	1.9
1970	2.5	1.9	1.6	1.4	1.7	1.2	1.0	1.4	1.9	2.7	1.4	1.9
1971	1.5	2.3	1.3	1.2	1.2	0.6	1.1	1.4	2.4	2.7	2.5	3.1
1972	2.5	2.6	1.7	2.6	2.4	2.6	1.9	0.7	2.2	2.7	2.5	2.3
1973	2.2	2.7	1.9	1.2	1.4	1.8	0.4	1.0	2.1	2.5	2.6	2.2
1974	2.4	1.4	1.2	1.6	1.7	0.6	0.5	0.5	2.5	3.2	2.4	2.1
1975	2.2	2.3	1.6	1.3	0.7	1.3	0.6	0.7	2.6	2.4	2.3	2.2

LARGEST HS(METRES) FOR STATION 133 = 3.8

STATION 134 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 350.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4072	5287	2826	1045	248	176	.	.	.	.	13654
0.50 - 0.99	.	311	1404	681	309	184	.	.	.	.	2889
1.00 - 1.49	.	.	10	77	78	5	.	.	.	.	170
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	4072	5598	4240	1803	638	365	0	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.67 ANGLE CLASS % = 16.7

STATION 134 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 350.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1906	1774	.	.	2833	5042	2847	77	.	.	14479
0.50 - 0.99	.	1110	2260	331	156	983	181	10	.	.	5071
1.00 - 1.49	.	.	184	732	258	330	29	.	.	.	1533
1.50 - 1.99	.	.	.	46	157	174	18	.	.	.	395
2.00 - 2.49	.	.	.	.	22	68	1	.	.	.	91
2.50 - 2.99	.	.	.	.	.	5	1	.	.	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	1906	2884	2444	1109	3466	6602	3077	87	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 2.82 ANGLE CLASS % = 21.6

STATION 134 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 350.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1149	1028	.	.	1084	1552	3020	778	1651	1909	12171
0.50 - 0.99	.	898	1654	75	97	1259	2002	787	1817	1146	9735
1.00 - 1.49	.	.	253	869	123	571	564	207	465	224	3276
1.50 - 1.99	.	.	.	111	265	290	450	133	83	30	1362
2.00 - 2.49	.	.	.	.	80	410	302	75	39	32	938
2.50 - 2.99	.	.	.	.	.	54	41	27	41	22	185
3.00 - 3.49	.	.	.	.	.	.	1	.	23	5	29
3.50 - 3.99	.	.	.	.	.	.	.	.	1	.	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	1149	1926	1907	1055	1649	4136	6380	2007	4120	3368	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 3.83 ANGLE CLASS % = 27.7

STATION 134 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 350.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1218	1143	.	.	1136	2262	94	8	3	5	5869
0.50 - 0.99	1	1185	2376	121	8	410	128	8	5	.	4242
1.00 - 1.49	.	.	480	1637	232	87	83	5	5	.	2527
1.50 - 1.99	.	.	.	258	807	184	29	3	13	.	1294
2.00 - 2.49	.	.	.	.	232	754	22	.	10	.	1018
2.50 - 2.99	.	.	.	.	.	282	1	.	.	.	283
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1219	2328	2856	2016	2415	3979	357	24	34	5	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 2.98 ANGLE CLASS % = 15.2

STATION 134 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 350.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	852	1083	65	1	99	193	11	.	.	.	2304
0.50 - 0.99	.	602	2089	1483	268	27	3	.	.	.	4472
1.00 - 1.49	.	.	201	1984	266	11	1	.	.	.	2463
1.50 - 1.99	.	.	.	261	191	30	.	.	.	.	482
2.00 - 2.49	.	.	.	1	25	44	3	.	.	.	73
2.50 - 2.99	.	.	.	.	.	6	.	.	.	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	852	1685	2355	3730	849	311	18	0	0	0	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 2.68 ANGLE CLASS % = 9.8

STATION 134 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 350.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

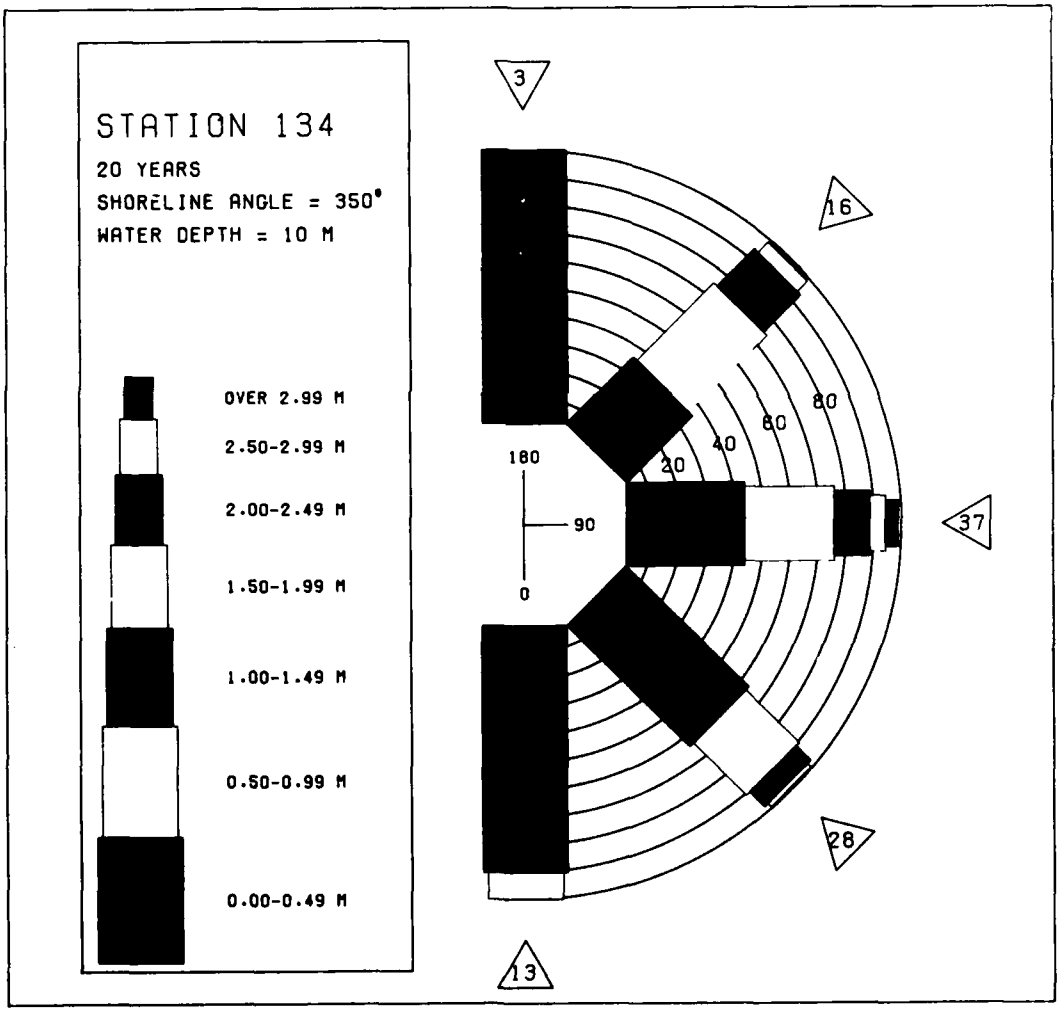
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	602	934	1151	1913	913	13	.	.	.	.	5526
0.50 - 0.99	.	10	263	682	68	.	.	.	.	.	1023
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	602	944	1414	2595	981	13	0	0	0	0	

AVERAGE HS(M) = 0.28 LARGEST HS(M) = 0.97 ANGLE CLASS % = 6.6

STATION 134 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 350.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	980	1125	404	296	631	924	597	86	165	191	5399
0.50 - 0.99	.	411	1004	337	94	286	231	20	182	114	2739
1.00 - 1.49	.	.	113	530	95	100	67	21	46	22	994
1.50 - 1.99	.	.	.	67	142	68	49	13	9	3	351
2.00 - 2.49	.	.	.	.	36	127	33	7	4	3	210
2.50 - 2.99	.	.	.	.	.	34	4	2	4	2	46
3.00 - 3.49	.	.	.	.	.	.	.	.	2	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	980	1536	1521	1230	998	1539	981	209	412	335	

AVE HS(M) = 0.57 LARGEST HS(M) = 3.83 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 134

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.5	0.3	0.3	0.7	0.4	0.2	0.1	0.5	1.1	0.7	0.3	0.5
1957	0.7	0.8	0.4	0.8	0.5	0.4	0.3	0.4	0.7	0.9	0.9	0.6	0.6
1958	0.8	0.3	0.5	0.6	0.6	0.3	0.3	0.3	0.6	1.1	0.9	1.1	0.6
1959	0.8	0.9	1.0	0.7	0.6	0.4	0.5	0.3	1.0	1.0	1.1	0.9	0.8
1960	0.5	0.7	0.7	0.6	0.4	0.4	0.3	0.4	1.0	0.7	0.7	0.7	0.6
1961	0.7	0.7	0.6	0.5	0.5	0.5	0.3	0.5	0.7	1.0	0.8	0.6	0.6
1962	0.8	0.6	0.9	0.6	0.3	0.4	0.2	0.4	0.5	0.8	0.9	0.6	0.6
1963	0.7	1.1	0.8	0.6	0.6	0.4	0.2	0.2	1.0	1.2	0.7	0.7	0.7
1964	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.6	1.1	1.3	1.0	0.8	0.7
1965	0.5	0.8	0.5	0.6	0.2	0.5	0.3	0.2	1.1	1.0	0.8	0.5	0.6
1966	0.7	0.9	0.6	0.5	0.6	0.7	0.6	0.4	0.4	0.7	0.9	0.5	0.6
1967	0.5	0.5	0.7	0.6	0.4	0.6	0.3	0.3	0.9	0.7	0.5	0.5	0.5
1968	0.6	0.3	0.3	0.2	0.3	0.5	0.3	0.3	0.4	0.7	0.3	0.3	0.4
1969	0.9	0.6	0.4	0.7	0.8	0.4	0.2	0.6	0.7	1.2	0.9	0.5	0.7
1970	0.7	0.6	0.6	0.5	0.5	0.4	0.2	0.3	0.4	1.2	0.4	0.4	0.5
1971	0.5	0.6	0.4	0.3	0.3	0.1	0.2	0.3	0.6	0.7	0.9	1.3	0.5
1972	0.7	0.8	0.5	0.5	0.8	0.6	0.4	0.2	0.5	1.1	0.7	0.6	0.6
1973	0.8	0.8	0.7	0.5	0.3	0.4	0.1	0.2	0.3	0.8	0.5	0.6	0.5
1974	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.2	0.4	1.3	0.7	0.4	0.4
1975	0.5	0.6	0.4	0.3	0.1	0.1	0.2	0.1	0.4	0.5	0.6	0.6	0.4
MEAN	0.6	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.7	0.9	0.7	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 134

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.4	2.7	1.3	1.4	2.3	0.9	0.8	0.5	2.3	2.7	2.5	0.8
1957	2.0	2.6	1.5	2.1	1.5	1.4	1.0	1.4	2.0	2.5	2.6	2.4
1958	2.7	1.1	2.2	2.2	2.4	1.3	1.0	1.0	1.6	2.6	1.9	2.5
1959	2.0	2.5	2.7	1.4	1.7	1.2	1.3	1.0	2.6	2.7	2.6	2.6
1960	1.7	2.5	2.3	1.6	1.7	1.6	1.2	1.2	2.6	1.5	2.3	2.5
1961	2.9	2.3	2.3	2.2	1.5	1.2	1.0	1.5	2.0	2.5	2.3	1.8
1962	2.3	2.0	3.5	1.9	1.4	1.2	0.7	2.3	2.8	2.0	2.7	2.4
1963	2.4	2.8	2.5	2.2	2.4	2.3	0.9	0.9	2.8	3.8	2.5	2.8
1964	2.0	1.6	1.3	2.2	2.2	1.4	1.7	2.1	3.5	2.5	2.6	2.7
1965	2.0	2.4	2.0	1.8	0.7	1.3	1.2	1.3	2.7	2.9	2.4	2.0
1966	2.4	2.7	1.9	1.5	2.3	2.3	2.4	1.7	1.6	1.8	2.6	2.6
1967	2.0	1.9	2.4	2.1	1.2	2.2	0.9	1.3	2.4	2.1	1.9	1.3
1968	2.5	1.3	2.1	1.1	1.4	2.5	1.3	1.1	1.3	2.5	1.4	1.4
1969	2.4	2.3	2.4	2.0	2.4	1.5	0.8	1.8	2.5	2.7	3.2	1.8
1970	2.5	1.7	1.6	1.4	1.7	1.2	1.0	1.4	1.9	2.7	1.4	1.9
1971	1.5	2.3	1.3	1.3	1.2	0.6	1.1	1.4	2.4	2.7	2.5	3.1
1972	2.6	2.6	1.7	2.6	2.4	2.6	1.9	0.7	2.2	2.7	2.5	2.3
1973	2.1	2.7	1.9	1.2	1.4	1.8	0.4	1.0	2.1	2.5	2.6	2.2
1974	2.4	1.4	1.2	1.5	1.7	0.6	0.5	0.5	2.5	3.2	2.4	2.1
1975	2.2	2.3	1.6	1.3	0.7	1.3	0.6	0.7	2.6	2.4	2.3	2.2

LARGEST HS(METRES) FOR STATION 134 = 3.8

STATION 135 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3497	4454	2549	1184	333	220	1	.	.	.	12238
0.50 - 0.99	.	349	1338	662	256	154	.	.	.	.	2759
1.00 - 1.49	.	.	13	112	68	1	.	.	.	.	194
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3497	4803	3900	1958	657	375	1	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.47 ANGLE CLASS % = 15.2

STATION 135 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1226	1235	.	.	3365	5138	1721	116	.	.	12801
0.50 - 0.99	.	1038	2092	237	196	2388	473	59	.	.	6483
1.00 - 1.49	.	.	244	758	227	383	80	35	.	.	1727
1.50 - 1.99	.	.	.	41	147	205	44	20	.	.	457
2.00 - 2.49	.	.	.	.	22	73	41	3	.	.	139
2.50 - 2.99	.	.	.	.	.	.	8	3	.	.	11
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1226	2273	2336	1036	3957	8187	2367	236	0	0	

AVERAGE HS(M) = 0.52 LARGEST HS(M) = 2.90 ANGLE CLASS % = 21.6

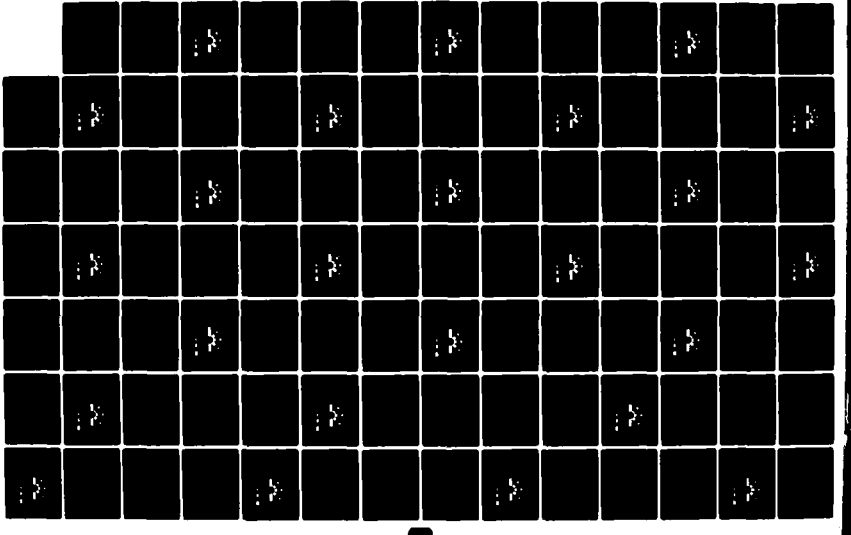
STATION 135 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

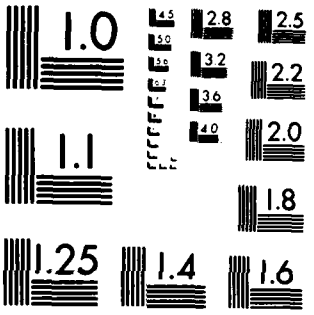
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	835	855	.	.	662	422	3901	328	369	1594	8966
0.50 - 0.99	.	1009	1863	80	71	713	2371	650	1045	569	8371
1.00 - 1.49	.	.	378	970	78	422	501	330	648	234	3561
1.50 - 1.99	.	.	.	181	251	364	124	90	273	95	1378
2.00 - 2.49	.	.	.	.	83	367	145	54	70	34	753
2.50 - 2.99	.	.	.	.	.	11	147	32	5	11	206
3.00 - 3.49	.	.	.	.	.	.	3	25	10	3	41
3.50 - 3.99	.	.	.	.	.	.	.	1	11	1	13
4.00 - 4.49	.	.	.	.	.	.	.	.	3	.	3
4.50 - 4.99	.	.	.	.	.	.	.	.	1	.	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	835	1864	2241	1231	1145	2299	7192	1510	2435	2541	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 4.62 ANGLE CLASS % = 23.3

AD-A129 642 ATLANTIC COAST HINDCAST SHALLOW-WATER SIGNIFICANT WAVE INFORMATION(U) ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRAULICS LAB R E JENSEN JAN 83 1/8

UNCLASSIFIED WIS-9 F/G 12/1 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

STATION 135 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	799	770	.	.	1483	2710	877	159	128	88	7014
0.50 - 0.99	.	1059	1954	73	77	2287	1197	253	229	109	7238
1.00 - 1.49	.	.	547	1153	172	1055	679	160	130	106	4002
1.50 - 1.99	.	.	.	258	657	821	501	70	61	75	2443
2.00 - 2.49	.	.	.	.	215	1528	355	49	23	34	2244
2.50 - 2.99	.	.	.	.	.	119	554	27	22	.	722
3.00 - 3.49	.	.	.	.	.	.	34	102	17	.	153
3.50 - 3.99	.	.	.	.	.	.	.	1	8	.	9
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	799	1829	2501	1484	2604	8520	4237	821	618	414	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 4.61 ANGLE CLASS % = 23.8

STATION 135 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	539	583	3	.	227	265	18	1	.	.	1636
0.50 - 0.99	.	598	1504	364	140	296	13	.	.	.	2915
1.00 - 1.49	.	.	261	1120	580	408	39	.	.	.	2408
1.50 - 1.99	.	.	.	95	424	555	18	.	.	.	1093
2.00 - 2.49	.	.	.	.	100	350	.	.	.	.	450
2.50 - 2.99	.	.	.	.	.	65	3	.	.	.	68
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	539	1181	1768	1579	1471	1940	92	1	0	0	

AVERAGE HS(M) = 1.01 LARGEST HS(M) = 3.11 ANGLE CLASS % = 8.6

STATION 135 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

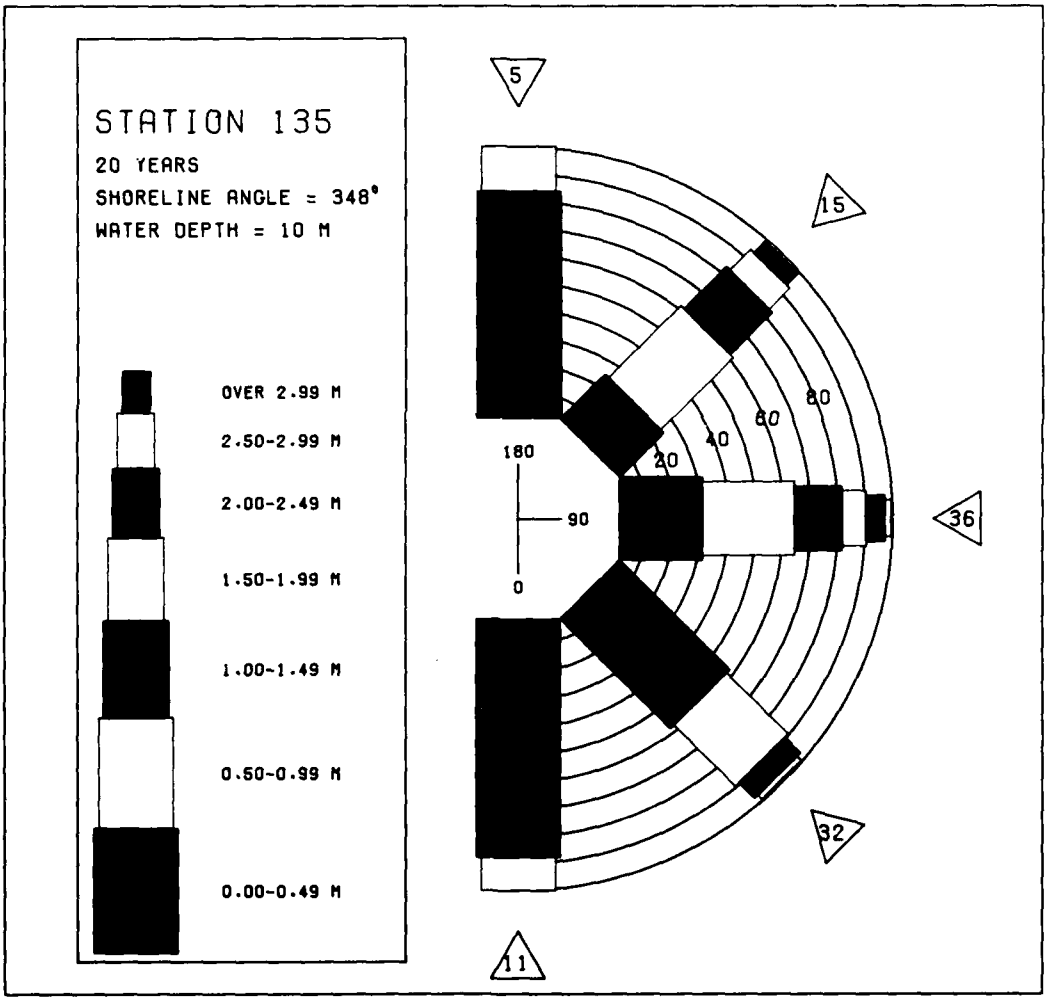
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	785	1019	970	1478	746	22	.	.	.	.	5020
0.50 - 0.99	.	59	710	1045	450	22	.	.	.	.	2286
1.00 - 1.49	.	.	6	46	35	.	.	.	.	.	87
1.50 - 1.99	.	.	.	.	13	.	.	.	.	.	13
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	785	1078	1686	2569	1244	44	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.69 ANGLE CLASS % = 7.4

STATION 135 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 348.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	768	891	352	266	681	877	652	60	49	168	4764
0.50 - 0.99	.	411	946	246	119	586	405	96	127	67	3003
1.00 - 1.49	.	.	145	416	116	227	130	52	77	34	1197
1.50 - 1.99	.	.	.	57	149	194	68	18	33	17	536
2.00 - 2.49	.	.	.	.	42	232	58	10	9	6	357
2.50 - 2.99	.	.	.	.	.	19	71	6	2	1	99
3.00 - 3.49	.	.	.	.	.	.	3	12	2	.	17
3.50 - 3.99	.	.	.	.	.	.	.	.	2	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	768	1302	1443	985	1107	2135	1387	254	301	293	

AVE HS(M) = 0.69 LARGEST HS(M) = 4.62 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 135

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.7	0.4	0.4	0.7	0.3	0.2	0.2	0.6	1.4	1.1	0.6	0.6
1957	0.9	1.0	0.5	1.0	0.6	0.5	0.3	0.5	0.7	1.1	1.1	0.8	0.7
1958	0.9	0.4	0.6	0.7	0.7	0.3	0.4	0.4	0.7	1.2	0.7	1.1	0.7
1959	0.8	1.0	1.1	0.7	0.6	0.5	0.6	0.4	1.2	1.2	1.4	1.1	0.9
1960	0.7	0.9	0.9	0.7	0.4	0.5	0.3	0.5	1.2	1.1	0.9	0.9	0.7
1961	0.9	0.8	0.7	0.6	0.6	0.6	0.4	0.6	0.8	1.3	0.9	0.7	0.7
1962	1.0	0.8	1.1	0.7	0.4	0.5	0.2	0.5	0.6	0.8	1.0	0.8	0.7
1963	0.8	1.4	1.0	0.8	0.7	0.5	0.3	0.3	1.2	1.5	0.9	0.8	0.8
1964	0.7	0.6	0.7	0.8	0.6	0.3	0.5	0.5	1.4	1.7	1.3	1.1	0.8
1965	0.7	1.0	0.6	0.6	0.3	0.6	0.3	0.2	1.4	1.1	1.1	0.8	0.7
1966	0.9	1.1	0.8	0.6	0.7	0.9	0.8	0.6	0.4	0.9	1.1	0.6	0.8
1967	0.6	0.7	0.8	0.8	0.5	0.7	0.4	0.5	1.0	0.8	0.6	0.6	0.7
1968	0.8	0.4	0.4	0.2	0.3	0.8	0.5	0.4	0.5	0.9	0.4	0.4	0.5
1969	1.1	0.8	0.5	0.8	0.9	0.5	0.3	0.7	0.9	1.4	1.0	0.5	0.8
1970	1.0	0.8	0.6	0.6	0.6	0.5	0.3	0.4	0.5	1.4	0.5	0.4	0.6
1971	0.6	0.7	0.5	0.3	0.4	0.2	0.3	0.4	0.7	0.8	1.0	1.4	0.6
1972	0.9	0.9	0.6	0.6	1.0	0.7	0.5	0.3	0.5	1.3	0.9	0.7	0.7
1973	1.0	1.0	0.9	0.6	0.4	0.5	0.2	0.2	0.4	1.0	0.7	0.7	0.6
1974	0.6	0.5	0.3	0.4	0.3	0.3	0.3	0.2	0.4	1.7	1.0	0.5	0.6
1975	0.6	0.6	0.5	0.3	0.1	0.2	0.3	0.1	0.5	0.6	0.8	0.7	0.4
MEAN	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.8	1.2	0.9	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 135

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.9	2.0	1.5	2.4	1.0	0.8	0.5	2.9	3.0	3.1	1.0
1957	2.4	2.8	1.6	2.2	2.1	1.4	1.0	1.7	1.8	2.5	3.5	2.4
1958	3.0	1.4	2.6	2.2	2.4	1.3	1.0	1.2	2.1	3.2	2.0	2.8
1959	2.2	3.1	3.0	1.7	2.0	1.6	1.3	1.1	3.0	3.0	2.9	3.2
1960	1.9	2.8	2.4	2.2	1.9	2.1	1.1	1.5	3.3	2.2	2.4	2.5
1961	2.9	2.6	2.4	2.2	1.6	1.5	1.1	1.6	2.7	2.5	2.7	2.0
1962	2.7	2.3	4.1	2.2	1.5	1.4	0.7	2.5	3.1	2.5	2.7	2.5
1963	2.3	3.4	2.7	2.3	2.4	2.3	0.9	1.0	3.4	4.6	2.8	3.6
1964	2.1	2.0	1.8	2.4	2.6	1.3	1.6	2.5	4.6	3.2	3.0	2.9
1965	2.4	2.6	2.3	2.2	0.9	1.5	1.5	1.0	3.2	3.7	2.5	2.3
1966	2.6	3.3	2.2	1.8	2.4	2.4	2.4	2.1	1.6	2.3	2.6	2.6
1967	1.8	2.3	2.7	2.3	1.8	2.0	1.0	1.1	2.5	2.3	2.3	2.2
1968	2.9	1.5	1.7	1.1	1.5	3.1	1.2	1.0	1.3	2.5	1.3	2.2
1969	2.5	2.3	2.3	2.4	2.4	1.6	0.9	2.0	2.8	3.3	4.0	1.9
1970	2.9	2.3	1.7	1.8	2.0	1.4	0.9	1.3	2.0	3.5	2.4	1.9
1971	2.1	2.4	2.0	1.3	1.2	0.9	1.2	1.4	2.4	3.4	2.7	3.9
1972	2.9	3.0	2.2	2.6	2.6	2.7	2.0	0.7	2.3	3.2	2.5	2.3
1973	2.5	2.5	2.2	1.3	1.4	2.1	0.4	1.0	2.1	2.7	3.0	2.3
1974	2.4	2.1	1.5	1.5	1.5	0.7	0.6	0.6	2.7	3.8	2.5	2.1
1975	2.4	2.7	1.9	1.3	0.9	1.3	0.9	0.7	2.8	2.5	2.5	2.8

LARGEST HS(METRES) FOR STATION 135 = 4.6

STATION 136 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 349.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3417	4339	2566	1160	331	213	1	.	.	.	12027
0.50 - 0.99	.	309	1521	612	254	169	.	.	.	.	2865
1.00 - 1.49	.	.	18	97	78	1	.	.	.	.	194
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	3417	4648	4105	1869	666	383	1	0	0	0	

AVERAGE HS(M) = 0.30 LARGEST HS(M) = 1.61 ANGLE CLASS % = 15.1

STATION 136 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 349.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1310	1351	.	.	3365	5111	160	1	.	.	11298
0.50 - 0.99	.	1110	2169	325	196	2371	249	1	.	.	6421
1.00 - 1.49	.	.	296	879	231	405	68	.	.	.	1879
1.50 - 1.99	.	.	.	61	164	208	35	.	.	.	468
2.00 - 2.49	.	.	.	.	27	66	35	3	.	.	131
2.50 - 2.99	.	.	.	.	.	.	10	3	.	.	13
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1310	2461	2465	1265	3983	8161	557	8	0	0	

AVERAGE HS(M) = 0.54 LARGEST HS(M) = 2.90 ANGLE CLASS % = 20.2

STATION 136 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 349.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	826	845	.	.	633	417	5465	426	369	1599	10580
0.50 - 0.99	.	1013	1634	66	71	696	2607	727	1057	564	8435
1.00 - 1.49	.	.	330	874	70	410	513	355	645	232	3429
1.50 - 1.99	.	.	.	164	232	354	118	111	272	95	1346
2.00 - 2.49	.	.	.	.	78	361	130	53	68	34	724
2.50 - 2.99	.	.	.	.	.	11	131	32	5	11	190
3.00 - 3.49	.	.	.	.	.	.	1	25	8	3	37
3.50 - 3.99	.	.	.	.	.	.	.	1	10	1	12
4.00 - 4.49	.	.	.	.	.	.	.	.	3	.	3
4.50 - 4.99	.	.	.	.	.	.	.	.	1	.	1
5.00 - GREATER											0
TOTAL	826	1858	1964	1104	1084	2249	8965	1730	2438	2539	

AVERAGE HS(M) = 0.73 LARGEST HS(M) = 4.62 ANGLE CLASS % = 24.8

STATION 136 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 349.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	799	773			1516	2688	882	160	126	88	7032
0.50 - 0.99	.	1059	1904	75	75	2289	1208	262	227	103	7205
1.00 - 1.49	.	.	539	1160	140	1045	693	164	130	109	3980
1.50 - 1.99	.	.	.	258	564	831	506	77	63	73	2372
2.00 - 2.49	.	.	.	.	189	1505	414	51	25	34	2218
2.50 - 2.99	.	.	.	.	.	116	568	27	22	.	733
3.00 - 3.49	.	.	.	.	.	.	32	102	18	.	152
3.50 - 3.99	.	.	.	.	.	.	.	1	10	.	11
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER											0
TOTAL	799	1832	2443	1493	2484	8474	4303	845	621	415	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 4.61 ANGLE CLASS % = 23.7

STATION 136 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 349.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	528	602			195	302	20	.	.	.	1647
0.50 - 0.99	.	593	1516	367	145	343	13	3	.	.	2980
1.00 - 1.49	.	.	261	1084	609	450	53	.	.	.	2457
1.50 - 1.99	.	.	.	85	509	556	15	.	.	.	1165
2.00 - 2.49	.	.	.	.	111	357	1	.	.	.	469
2.50 - 2.99	.	.	.	.	.	58	5	.	.	.	63
3.00 - 3.49	.	.	.	.	.	.	1	.	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	528	1195	1777	1536	1569	2066	108	3	0	0	

AVERAGE HS(M) = 1.02 LARGEST HS(M) = 3.11 ANGLE CLASS % = 8.8

STATION 136 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 349.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

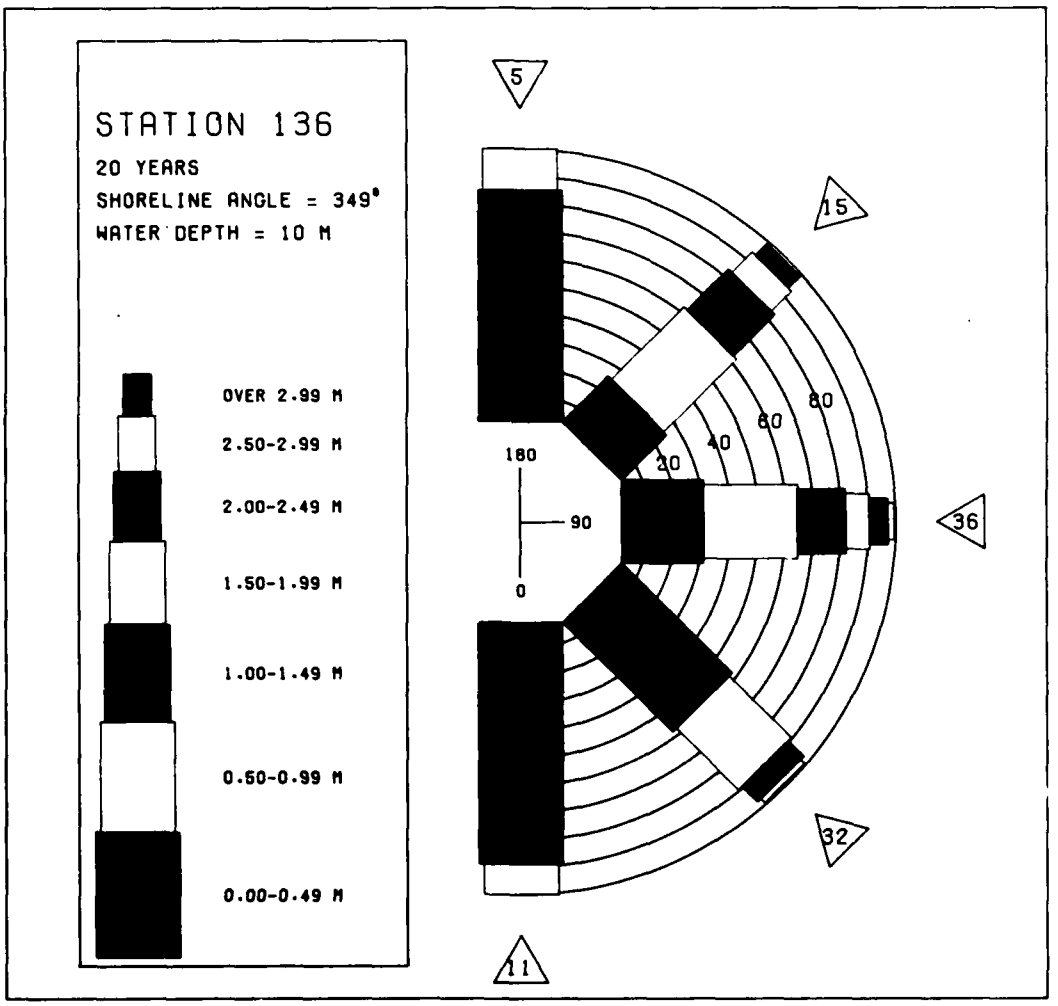
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	778	1004	966	1500	795	25	.	.	.	.	5068
0.50 - 0.99	.	47	723	1004	410	20	.	.	.	.	2204
1.00 - 1.49	.	.	5	39	32	.	.	.	.	.	76
1.50 - 1.99	.	.	.	.	11	.	.	.	.	.	11
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	778	1051	1694	2543	1248	45	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.69 ANGLE CLASS % = 7.4

STATION 136 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 349.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	766	891	353	266	683	875	653	58	49	168	4762
0.50 - 0.99	.	413	946	245	115	589	407	99	128	67	3009
1.00 - 1.49	.	.	145	413	116	231	132	52	77	34	1200
1.50 - 1.99	.	.	.	56	148	195	67	18	33	16	533
2.00 - 2.49	.	.	.	.	40	229	58	10	9	6	352
2.50 - 2.99	.	.	.	.	.	18	71	6	2	1	98
3.00 - 3.49	.	.	.	.	.	.	3	12	2	.	17
3.50 - 3.99	.	.	.	.	.	.	.	.	2	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	766	1304	1444	980	1102	2137	1391	255	302	292	

AVE HS(M) = 0.69 LARGEST HS(M) = 4.62 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 136

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.7	0.4	0.4	0.7	0.3	0.2	0.2	0.6	1.4	1.1	0.6	0.6
1957	0.9	1.0	0.5	1.0	0.6	0.5	0.3	0.5	0.7	1.1	1.1	0.8	0.7
1958	0.9	0.4	0.6	0.7	0.7	0.3	0.4	0.3	0.7	1.2	0.7	1.1	0.7
1959	0.8	1.0	1.1	0.7	0.6	0.5	0.6	0.4	1.1	1.2	1.4	1.1	0.9
1960	0.7	0.9	0.9	0.7	0.4	0.5	0.3	0.5	1.2	1.1	0.9	0.9	0.7
1961	0.9	0.8	0.7	0.6	0.6	0.6	0.4	0.6	0.8	1.3	0.9	0.7	0.7
1962	1.0	0.8	1.1	0.7	0.4	0.5	0.2	0.5	0.6	0.8	1.0	0.8	0.7
1963	0.8	1.4	1.0	0.8	0.7	0.5	0.3	0.3	1.2	1.5	0.9	0.8	0.8
1964	0.6	0.6	0.7	0.8	0.6	0.3	0.5	0.5	1.4	1.7	1.3	1.1	0.8
1965	0.7	1.0	0.6	0.5	0.3	0.(	0.3	0.2	1.4	1.1	1.1	0.7	0.7
1966	0.9	1.1	0.8	0.6	0.7	0.9	0.8	0.6	0.4	0.9	1.1	0.6	0.8
1967	0.6	0.7	0.8	0.8	0.5	0.7	0.4	0.5	1.0	0.8	0.6	0.6	0.7
1968	0.8	0.4	0.4	0.2	0.3	0.8	0.5	0.4	0.5	0.9	0.4	0.4	0.5
1969	1.1	0.8	0.5	0.8	0.9	0.5	0.3	0.7	0.9	1.4	1.0	0.5	0.8
1970	1.0	0.8	0.6	0.6	0.6	0.5	0.3	0.4	0.5	1.4	0.5	0.4	0.6
1971	0.6	0.7	0.5	0.3	0.4	0.2	0.3	0.4	0.7	0.8	1.0	1.4	0.6
1972	0.9	0.9	0.6	0.6	1.0	0.7	0.5	0.3	0.5	1.3	0.9	0.7	0.7
1973	1.0	0.9	0.9	0.6	0.4	0.5	0.2	0.2	0.4	1.0	0.7	0.7	0.6
1974	0.6	0.5	0.3	0.4	0.3	0.3	0.3	0.3	0.4	1.7	1.0	0.5	0.6
1975	0.6	0.6	0.5	0.3	0.1	0.2	0.3	0.1	0.5	0.6	0.8	0.7	0.4
MEAN	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.8	1.2	0.9	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 136

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.9	2.0	1.5	2.4	1.0	0.8	0.5	2.9	3.0	3.1	1.0
1957	2.4	2.8	1.6	2.2	2.1	1.4	1.0	1.7	1.8	2.5	3.5	2.4
1958	3.0	1.4	2.6	2.2	2.4	1.3	1.0	1.2	2.1	3.2	2.0	2.8
1959	2.2	3.1	3.0	1.7	2.0	1.6	1.3	1.1	2.9	3.0	2.9	3.2
1960	1.9	2.8	2.4	2.2	1.9	2.1	1.1	1.5	3.3	2.2	2.4	2.5
1961	2.9	2.6	2.4	2.2	1.6	1.5	1.1	1.6	2.7	2.5	2.7	2.0
1962	2.7	2.3	4.1	2.2	1.5	1.4	0.7	2.5	3.1	2.5	2.7	2.5
1963	2.3	3.4	2.7	2.3	2.4	2.3	0.9	1.0	3.4	4.6	2.8	3.6
1964	2.1	2.0	1.6	2.4	2.4	1.3	1.6	2.5	4.6	3.2	3.0	2.9
1965	2.4	2.6	2.3	2.2	0.9	1.5	1.5	1.0	3.2	3.7	2.5	2.3
1966	2.6	3.2	2.2	1.8	2.4	2.4	2.4	2.1	1.6	2.3	2.6	2.5
1967	1.8	2.3	2.7	2.3	1.8	2.0	1.0	1.1	2.5	2.3	2.3	2.0
1968	2.8	1.4	1.7	1.1	1.5	3.1	1.2	1.0	1.3	2.5	1.3	2.2
1969	2.5	2.3	2.3	2.4	2.4	1.6	0.9	2.0	2.8	3.3	4.0	1.9
1970	2.9	2.3	1.7	1.8	2.0	1.4	1.0	1.3	2.0	3.5	2.3	1.9
1971	2.1	2.4	2.0	1.3	1.2	0.9	1.2	1.4	2.4	3.4	2.7	3.9
1972	2.8	3.0	2.2	2.6	2.6	2.7	2.0	0.7	2.2	3.2	2.5	2.3
1973	2.5	2.5	2.2	1.3	1.4	2.1	0.4	1.0	2.1	2.7	3.0	2.2
1974	2.4	2.1	1.5	1.5	1.5	0.7	0.6	0.6	2.7	3.8	2.5	2.1
1975	2.4	2.7	1.9	1.3	0.9	1.3	0.9	0.7	2.8	2.5	2.5	2.8

LARGEST HS(METRES) FOR STATION 136 = 4.6

STATION 137 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 344.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3545	4402	2520	1161	359	278	1	.	.	.	12266
0.50 - 0.99	.	287	1565	624	256	147	.	.	.	.	2879
1.00 - 1.49	.	.	13	70	51	6	.	.	.	.	140
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3545	4689	4098	1855	667	431	1	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.50 ANGLE CLASS % = 15.3

STATION 137 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 344.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1326	1488	.	.	3523	5325	5102	128	.	.	16892
0.50 - 0.99	.	1172	2245	338	193	2135	1244	100	.	.	7427
1.00 - 1.49	.	.	301	975	227	338	90	49	.	.	1980
1.50 - 1.99	.	.	.	73	155	207	56	22	.	.	513
2.00 - 2.49	.	.	.	.	27	68	44	10	.	.	149
2.50 - 2.99	.	.	.	.	.	.	11	8	.	.	19
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1326	2660	2546	1386	4125	8073	6547	318	0	0	

AVERAGE HS(M) = 0.50 LARGEST HS(M) = 3.07 ANGLE CLASS % = 27.0

STATION 137 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 344.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	730	751	.	.	670	463	672	313	355	1622	5576
0.50 - 0.99	.	920	1552	54	90	776	1362	634	1035	562	6985
1.00 - 1.49	.	.	340	829	83	450	504	323	638	236	3403
1.50 - 1.99	.	.	.	143	260	367	140	64	256	88	1348
2.00 - 2.49	.	.	.	.	83	424	159	49	70	34	819
2.50 - 2.99	.	.	.	.	.	17	160	34	6	11	228
3.00 - 3.49	.	.	.	.	.	.	3	27	11	3	44
3.50 - 3.99	.	.	.	.	.	.	.	1	13	1	15
4.00 - 4.49	.	.	.	.	.	.	.	.	3	.	3
4.50 - 4.99	.	.	.	.	.	.	.	.	1	.	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	730	1671	1892	1026	1186	2497	3000	1475	2388	2557	

AVERAGE HS(M) = 0.86 LARGEST HS(M) = 4.62 ANGLE CLASS % = 18.4

STATION 137 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 344.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	876	826			1582	2744	879	157	118	82	7264
0.50 - 0.99	.	1119	2116	73	65	2301	1167	222	231	102	7396
1.00 - 1.49	.	.	576	1362	186	1050	670	157	133	112	4246
1.50 - 1.99	.	.	.	302	682	836	482	63	63	71	2499
2.00 - 2.49	.	.	.	.	239	1565	366	46	20	39	2275
2.50 - 2.99	.	.	.	.	.	142	550	27	22	.	741
3.00 - 3.49	.	.	.	.	.	.	44	95	15	.	154
3.50 - 3.99	.	.	.	.	.	.	.	1	6	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	876	1945	2692	1737	2754	8638	4158	768	608	408	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 4.70 ANGLE CLASS % = 24.6

STATION 137 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 344.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	414	499	8	.	191	162	5	.	.	.	1279
0.50 - 0.99	.	446	1356	376	208	183	10	1	.	.	2580
1.00 - 1.49	.	.	193	896	586	378	29	.	.	.	2082
1.50 - 1.99	.	.	.	68	403	508	15	.	.	.	994
2.00 - 2.49	.	.	.	.	99	355	.	.	.	.	454
2.50 - 2.99	.	.	.	.	.	53	1	.	.	.	54
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	414	945	1557	1340	1487	1639	60	1	0	0	

AVERAGE HS(M) = 1.04 LARGEST HS(M) = 2.88 ANGLE CLASS % = 7.5

STATION 137 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 344.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

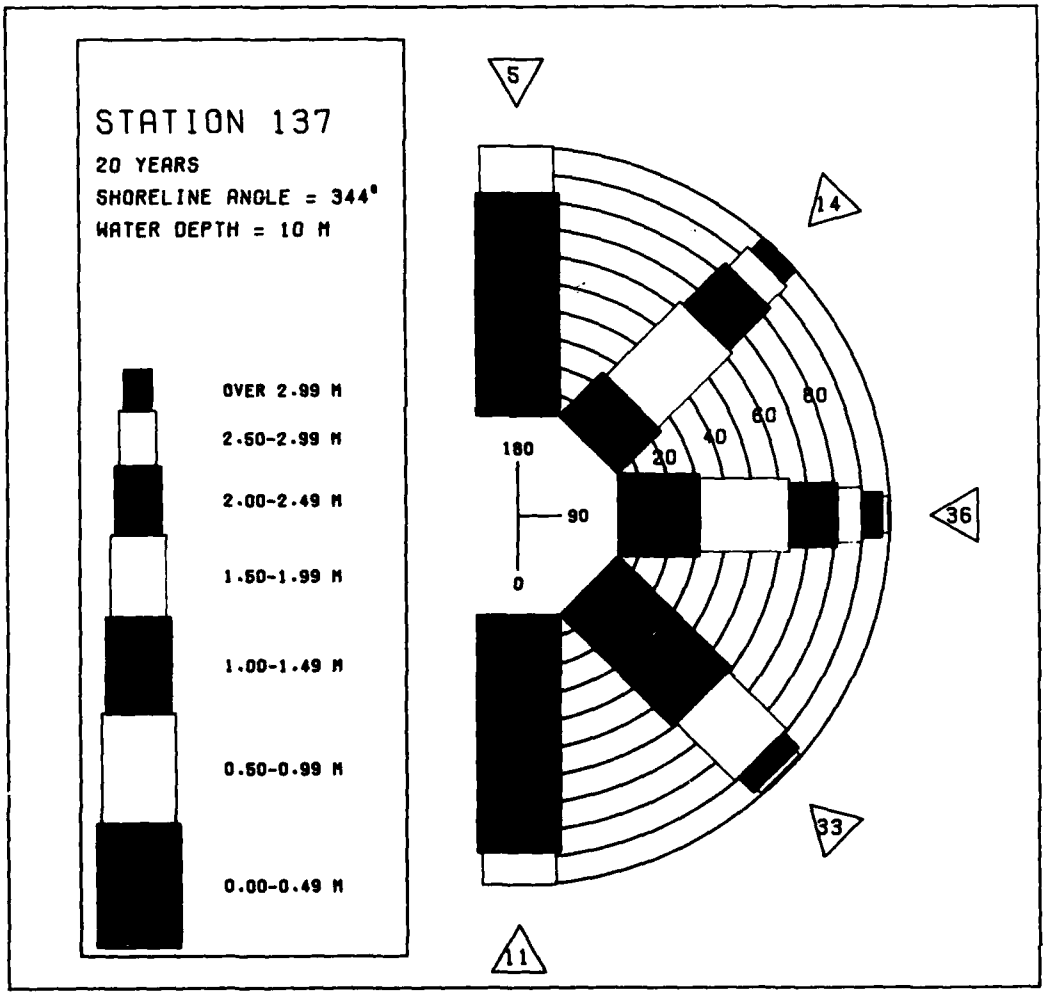
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	768	985	992	1386	682	22	.	.	.	.	4835
0.50 - 0.99	.	51	564	1213	412	10	.	.	.	.	2250
1.00 - 1.49	.	.	3	70	30	.	.	.	.	.	103
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	768	1036	1559	2669	1125	32	0	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.61 ANGLE CLASS % = 7.2

STATION 137 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 344.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	766	895	352	254	701	899	666	59	47	170	4809
0.50 - 0.99	.	399	940	268	122	555	378	95	126	66	2949
1.00 - 1.49	.	.	142	420	116	222	129	53	77	34	1193
1.50 - 1.99	.	.	.	58	150	191	69	17	31	16	532
2.00 - 2.49	.	.	.	.	45	241	56	10	9	7	368
2.50 - 2.99	.	.	.	.	.	21	72	7	2	1	103
3.00 - 3.49	.	.	.	.	.	.	4	12	2	.	18
3.50 - 3.99	.	.	.	.	.	.	.	.	2	.	2
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	766	1294	1434	1000	1134	2129	1374	253	296	294	

AVE HS(M) = 0.69 LARGEST HS(M) = 4.70 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 137

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.7	0.4	0.4	0.7	0.3	0.2	0.2	0.6	1.4	1.2	0.6	0.6
1957	0.9	1.0	0.5	1.0	0.6	0.5	0.3	0.5	0.7	1.1	1.1	0.8	0.7
1958	0.9	0.5	0.6	0.7	0.6	0.3	0.4	0.4	0.7	1.2	0.7	1.1	0.7
1959	0.8	1.0	1.1	0.7	0.6	0.5	0.6	0.3	1.2	1.2	1.4	1.1	0.9
1960	0.7	0.9	0.9	0.7	0.4	0.5	0.3	0.5	1.2	1.0	0.9	0.9	0.7
1961	0.9	0.8	0.7	0.6	0.6	0.5	0.4	0.6	0.8	1.3	0.9	0.7	0.7
1962	1.0	0.8	1.1	0.7	0.4	0.5	0.2	0.5	0.6	0.9	1.0	0.8	0.7
1963	0.8	1.4	1.0	0.8	0.7	0.5	0.3	0.2	1.2	1.5	0.9	0.8	0.8
1964	0.7	0.6	0.7	0.8	0.6	0.3	0.5	0.5	1.4	1.7	1.3	1.1	0.8
1965	0.7	1.0	0.6	0.6	0.3	0.6	0.3	0.2	1.4	1.1	1.1	0.8	0.7
1966	0.9	1.1	0.8	0.6	0.7	0.8	0.8	0.6	0.4	0.9	1.2	0.6	0.8
1967	0.6	0.7	0.8	0.8	0.5	0.7	0.4	0.4	1.0	0.8	0.7	0.6	0.7
1968	0.8	0.4	0.4	0.2	0.3	0.7	0.4	0.4	0.5	0.9	0.4	0.4	0.5
1969	1.1	0.8	0.5	0.8	0.9	0.5	0.3	0.7	0.9	1.4	1.0	0.5	0.8
1970	1.0	0.8	0.6	0.6	0.6	0.5	0.2	0.4	0.5	1.4	0.5	0.4	0.6
1971	0.6	0.7	0.5	0.3	0.4	0.2	0.3	0.4	0.7	0.8	1.1	1.4	0.6
1972	0.9	1.0	0.6	0.6	1.0	0.7	0.5	0.3	0.6	1.3	0.9	0.7	0.7
1973	1.0	1.0	0.9	0.6	0.4	0.5	0.2	0.2	0.4	1.0	0.7	0.7	0.6
1974	0.6	0.5	0.3	0.4	0.3	0.3	0.3	0.2	0.4	1.7	1.0	0.5	0.6
1975	0.6	0.6	0.5	0.3	0.1	0.2	0.3	0.1	0.5	0.6	0.8	0.7	0.4
MEAN	0.8	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.8	1.2	0.9	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 137

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.1	2.9	2.0	1.4	2.4	1.0	0.8	0.5	2.9	3.0	3.1	0.9
1957	2.4	2.9	1.7	2.2	2.1	1.4	1.0	1.7	1.8	2.5	3.5	2.4
1958	3.1	1.5	2.6	2.2	2.4	1.3	1.0	1.2	2.1	3.3	2.0	2.8
1959	2.2	3.1	3.0	2.0	2.0	1.8	1.3	1.1	3.0	3.0	2.9	3.2
1960	2.0	2.7	2.4	2.2	1.9	2.2	1.1	1.6	3.2	2.3	2.4	2.5
1961	2.7	2.6	2.4	2.2	1.6	1.5	1.1	1.6	2.7	2.5	2.7	2.0
1962	2.7	2.3	4.1	2.2	1.5	1.4	0.7	2.5	3.1	2.5	2.7	2.6
1963	2.3	3.4	2.7	2.3	2.5	2.3	0.9	1.0	3.4	4.6	2.8	3.6
1964	2.2	2.0	1.8	2.4	2.6	1.3	1.6	2.5	4.7	3.2	3.0	2.9
1965	2.4	2.6	2.3	2.2	0.9	1.5	1.5	1.0	3.2	3.8	2.5	2.3
1966	2.6	3.3	2.2	1.8	2.4	2.3	2.4	2.1	1.6	2.3	2.6	2.6
1967	1.8	2.5	2.7	2.3	1.9	2.0	1.0	1.1	2.5	2.3	2.3	2.2
1968	2.9	1.5	1.7	1.1	1.5	3.1	1.2	1.0	1.3	2.5	1.3	2.2
1969	2.5	2.3	2.3	2.4	2.4	1.6	0.9	2.0	2.9	3.3	4.0	1.9
1970	2.9	2.3	1.8	1.8	2.0	1.4	0.9	1.3	2.1	3.5	2.4	1.9
1971	2.1	2.4	2.1	1.3	1.1	0.9	1.1	1.4	2.4	3.4	2.7	3.9
1972	3.0	3.0	2.2	2.7	2.6	2.7	2.0	0.7	2.3	3.2	2.5	2.3
1973	2.5	2.5	2.2	1.3	1.4	2.1	0.4	1.0	2.1	2.7	3.0	2.3
1974	2.5	2.1	1.5	1.5	1.5	0.7	0.6	0.6	2.7	3.9	2.6	2.1
1975	2.4	2.7	1.9	1.3	0.9	1.3	0.9	0.7	2.8	2.5	2.5	2.8

LARGEST HS(METRES) FOR STATION 137 = 4.7

STATION 138 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4241	5215	3032	1639	100	1	.	.	.	.	14228
0.50 - 0.99	.	338	1613	1168	30	.	.	.	.	.	3149
1.00 - 1.49	.	.	23	133	5	.	.	.	.	.	161
1.50 - 1.99	.	.	.	1	.	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4241	5553	4668	2941	135	1	0	0	0	0	

AVERAGE HS(M) = 0.28 LARGEST HS(M) = 1.54 ANGLE CLASS % = 17.5

STATION 138 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1572	1622	.	.	3988	3930	1712	95	1	.	12920
0.50 - 0.99	.	1160	2419	321	172	1899	441	58	165	.	6635
1.00 - 1.49	.	.	289	982	188	242	150	.	123	.	1974
1.50 - 1.99	.	.	.	80	143	160	87	.	59	.	530
2.00 - 2.49	.	.	.	.	17	73	47	11	.	.	148
2.50 - 2.99	.	.	.	.	.	1	5	6	.	.	12
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1572	2782	2708	1383	4508	6305	2442	172	348	0	

AVERAGE HS(M) = 0.54 LARGEST HS(M) = 3.04 ANGLE CLASS % = 22.2

STATION 138 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	877	915	.	.	905	467	540	152	366	455	4677
0.50 - 0.99	.	927	1764	63	118	696	1394	687	1069	480	7198
1.00 - 1.49	.	.	297	864	59	242	484	169	682	650	3447
1.50 - 1.99	.	.	.	143	242	234	123	90	212	249	1293
2.00 - 2.49	.	.	.	.	63	369	114	22	30	102	700
2.50 - 2.99	.	.	.	.	.	6	119	15	18	15	173
3.00 - 3.49	.	.	.	.	.	.	1	17	10	6	34
3.50 - 3.99	.	.	.	.	.	.	.	3	11	1	15
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	1	.	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	877	1842	2061	1070	1387	2014	2775	1155	2400	1959	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 4.56 ANGLE CLASS % = 17.6

STATION 138 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	829	826			1858	2623	874	112	106	75	7303
0.50 - 0.99	.	951	1851	58	186	2816	1309	200	219	83	7673
1.00 - 1.49	.	.	494	1264	147	1584	763	167	234	112	4765
1.50 - 1.99	.	.	1	287	634	1247	677	46	99	99	3090
2.00 - 2.49	.	.	.	.	176	1459	763	61	65	51	2575
2.50 - 2.99	.	.	.	.	.	54	571	174	30	22	851
3.00 - 3.49	.	.	.	.	.	1	20	239	63	5	328
3.50 - 3.99	.	.	.	.	.	.	.	5	65	.	70
4.00 - 4.49	.	.	.	.	.	.	.	.	11	.	11
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	829	1777	2346	1609	3001	9784	4977	1004	892	448	

AVERAGE HS(M) = 1.06 LARGEST HS(M) = 5.01 ANGLE CLASS % = 26.7

STATION 138 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	515	585	3		544	258	25	1	1	.	1932
0.50 - 0.99	.	448	1262	33	162	323	11	1	.	.	2538
1.00 - 1.49	.	.	231	917	550	593	22	1	.	.	2314
1.50 - 1.99	.	.	.	77	304	790	56	.	.	.	1227
2.00 - 2.49	.	.	.	.	59	280	99	3	.	.	441
2.50 - 2.99	.	.	.	.	.	6	35	10	.	.	51
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	515	1033	1496	1325	1619	2250	248	16	1	0	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 2.86 ANGLE CLASS % = 8.5

STATION 138 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

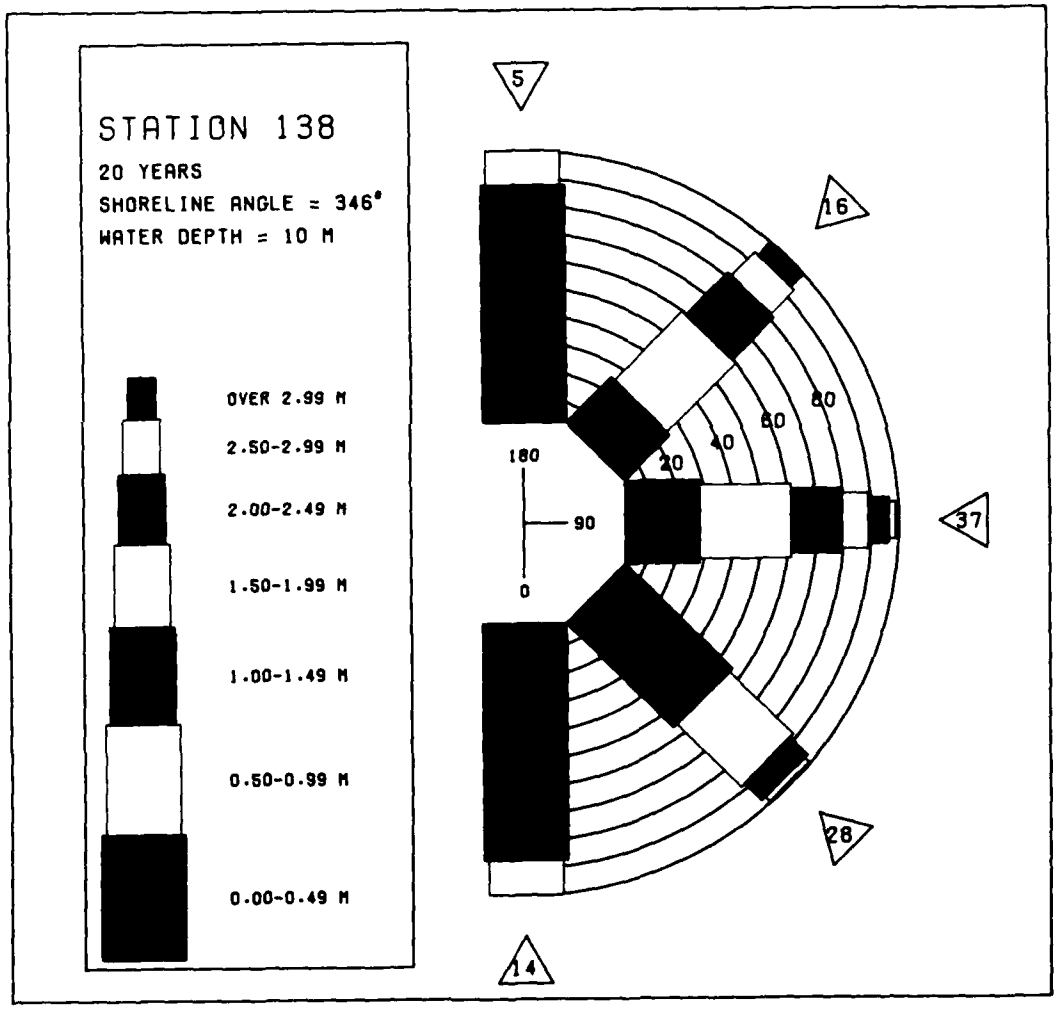
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	817	1076	1091	1502	766	18	.	.	.	.	5270
0.50 - 0.99	.	58	600	1038	366	8	.	.	.	.	2070
1.00 - 1.49	.	.	10	41	34	.	.	.	.	.	85
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	817	1134	1701	2581	1167	26	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 2.07 ANGLE CLASS % = 7.4

STATION 138 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 346.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	885	1024	412	314	816	729	315	36	47	53	4631
0.50 - 0.99	.	388	951	298	103	574	315	94	145	56	2924
1.00 - 1.49	.	.	134	420	98	266	142	33	104	76	1273
1.50 - 1.99	.	.	.	59	132	243	94	13	37	34	612
2.00 - 2.49	.	.	.	.	31	218	102	9	9	15	384
2.50 - 2.99	.	.	.	.	.	7	73	20	4	3	107
3.00 - 3.49	.	.	.	.	.	.	2	25	7	1	35
3.50 - 3.99	.	.	.	.	.	.	.	.	7	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	885	1412	1497	1091	1180	2037	1043	230	361	238	

AVE HS(M) = 0.72 LARGEST HS(M) = 5.01 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 138

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.6	0.5	0.4	0.8	0.3	0.2	0.1	0.7	1.6	1.6	1.0	0.7
1957	0.9	1.0	0.5	1.0	0.6	0.5	0.3	0.5	0.8	1.2	1.2	0.8	0.8
1958	1.1	0.5	0.6	0.7	0.7	0.4	0.4	0.3	0.7	1.2	0.7	1.1	0.7
1959	0.8	1.0	1.1	0.7	0.6	0.4	0.6	0.4	1.2	1.2	1.5	1.3	0.9
1960	0.9	0.9	0.9	0.7	0.5	0.6	0.3	0.5	1.2	1.1	1.1	1.0	0.8
1961	0.8	0.7	0.6	0.6	0.6	0.6	0.4	0.6	0.9	1.4	0.9	0.7	0.7
1962	1.0	0.8	1.3	0.8	0.5	0.5	0.2	0.5	0.6	0.9	1.1	0.9	0.7
1963	0.9	1.3	0.9	0.8	0.7	0.4	0.2	0.2	1.3	1.6	0.9	0.9	0.9
1964	0.7	0.6	0.7	0.8	0.6	0.3	0.5	0.5	1.4	1.6	1.0	1.1	0.8
1965	0.7	1.1	0.6	0.6	0.3	0.6	0.4	0.2	1.6	1.3	1.1	0.9	0.8
1966	1.0	1.1	0.8	0.6	0.7	0.8	0.8	0.5	0.4	0.9	1.2	0.7	0.8
1967	0.6	0.8	0.9	0.8	0.5	0.7	0.4	0.5	1.1	0.9	0.7	0.7	0.7
1968	0.8	0.4	0.4	0.2	0.3	0.6	0.2	0.2	0.3	0.7	0.3	0.4	0.4
1969	1.1	0.9	0.5	0.8	0.9	0.4	0.2	0.7	0.9	1.5	1.0	0.6	0.8
1970	0.9	0.9	0.7	0.6	0.7	0.5	0.3	0.4	0.5	1.5	0.6	0.4	0.7
1971	0.6	0.7	0.5	0.4	0.4	0.2	0.3	0.4	0.8	0.9	1.1	1.5	0.7
1972	0.9	1.0	0.6	0.7	1.0	0.7	0.5	0.3	0.6	1.5	1.0	0.8	0.8
1973	0.9	1.0	0.9	0.6	0.3	0.4	0.1	0.2	0.4	1.2	0.9	0.8	0.6
1974	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.5	2.0	1.4	0.7	0.6
1975	0.7	0.5	0.5	0.4	0.1	0.1	0.3	0.1	0.5	0.6	0.8	0.8	0.4
MEAN	0.8	0.8	0.7	0.6	0.6	0.5	0.3	0.4	0.8	1.2	1.0	0.8	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 138

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.2	2.9	2.0	1.4	2.7	1.0	0.8	0.5	3.0	3.4	3.2	1.4
1957	2.5	2.9	1.8	2.5	2.0	1.4	1.0	1.8	1.8	2.6	3.5	2.4
1958	3.3	1.7	2.3	2.2	2.1	1.5	1.3	1.1	2.1	3.2	2.1	2.8
1959	2.2	3.0	2.8	1.8	2.0	1.4	1.3	1.1	3.2	3.0	2.9	3.2
1960	2.0	2.8	2.3	2.1	2.1	2.3	0.9	1.7	3.2	2.2	2.3	2.7
1961	2.6	2.4	2.3	2.2	1.6	1.7	1.0	1.7	2.5	2.7	2.7	2.1
1962	3.1	2.4	4.6	2.3	1.6	1.4	0.8	2.2	3.0	2.4	2.9	3.4
1963	2.4	3.6	2.8	2.3	2.5	2.3	0.9	0.9	4.3	5.0	2.9	3.6
1964	2.3	2.0	1.9	2.3	2.7	1.1	1.7	2.6	3.0	3.5	2.7	2.9
1965	2.5	2.4	2.3	2.4	0.9	1.5	1.6	1.0	3.7	4.0	2.5	2.4
1966	2.5	3.2	2.4	1.9	2.4	2.3	2.3	2.0	1.5	2.4	3.0	2.6
1967	2.0	2.6	2.7	2.4	2.0	2.0	1.2	1.1	2.5	2.4	2.5	2.1
1968	2.8	1.6	1.8	1.0	1.5	2.9	0.9	0.8	1.1	2.6	1.3	2.1
1969	2.5	2.3	1.7	2.5	2.4	1.5	0.9	2.0	3.1	3.6	3.9	2.0
1970	3.0	2.3	2.1	1.4	2.3	1.5	0.9	1.2	2.1	3.7	2.6	1.8
1971	2.0	2.1	1.9	1.4	1.0	1.0	1.1	1.3	2.4	3.6	2.9	4.3
1972	3.1	3.3	2.2	2.8	2.7	2.6	1.7	0.7	2.3	3.3	2.5	2.5
1973	2.4	2.5	2.2	1.4	1.4	2.0	0.5	1.1	2.2	2.9	3.3	2.3
1974	2.5	2.0	1.7	1.6	1.1	0.7	0.7	0.6	2.9	4.0	2.8	2.1
1975	2.3	2.5	1.6	1.5	0.7	1.1	1.0	0.7	2.4	2.5	2.6	2.8

LARGEST HS(METRES) FOR STATION 138 = 5.0

STATION 139 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4392	5297	3112	1697	106	1	.	.	.	.	14605
0.50 - 0.99	.	319	1593	1054	30	.	.	.	.	.	2996
1.00 - 1.49	.	.	25	106	3	.	.	.	.	.	134
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4392	5616	4730	2857	139	1	0	0	0	0	

AVERAGE HS(M) = 0.27 LARGEST HS(M) = 1.42 ANGLE CLASS % = 17.7

STATION 139 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1629	1671	.	.	4154	4209	1683	119	10	.	13475
0.50 - 0.99	.	1196	2592	316	159	1582	412	35	171	.	6463
1.00 - 1.49	.	.	306	990	200	249	131	.	82	.	1958
1.50 - 1.99	.	.	.	65	157	145	80	1	13	.	461
2.00 - 2.49	.	.	.	.	20	73	46	11	.	.	150
2.50 - 2.99	.	.	.	.	.	1	5	6	.	.	12
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1629	2867	2898	1371	4690	6259	2357	173	276	0	

AVERAGE HS(M) = 0.52 LARGEST HS(M) = 3.04 ANGLE CLASS % = 22.5

STATION 139 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	788	889	.	.	1009	496	561	159	373	462	4737
0.50 - 0.99	.	932	1613	61	121	756	1440	686	1018	465	7092
1.00 - 1.49	.	.	301	917	70	284	521	177	746	650	3666
1.50 - 1.99	.	.	.	186	287	263	150	90	241	256	1473
2.00 - 2.49	.	.	.	.	68	470	154	25	42	111	870
2.50 - 2.99	.	.	.	.	.	10	143	23	18	18	212
3.00 - 3.49	.	.	.	.	.	.	1	35	20	6	62
3.50 - 3.99	.	.	.	.	.	.	.	3	15	1	19
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	1	.	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	788	1821	1914	1164	1555	2279	2970	1198	2475	1970	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 4.56 ANGLE CLASS % = 18.2

STATION 139 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	783	740	.	.	2298	2662	881	107	97	68	7636
0.50 - 0.99	.	853	1764	46	169	2833	1242	196	213	82	7418
1.00 - 1.49	.	.	470	1264	140	1617	728	167	232	112	4730
1.50 - 1.99	.	.	1	273	639	1230	645	46	92	92	3018
2.00 - 2.49	.	.	.	.	177	1546	735	56	59	53	2626
2.50 - 2.99	.	.	.	.	.	61	585	159	29	23	857
3.00 - 3.49	.	.	.	.	.	1	30	241	53	6	331
3.50 - 3.99	.	.	.	.	.	.	.	8	63	.	71
4.00 - 4.49	.	.	.	.	.	.	.	.	13	.	13
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	0
TOTAL	783	1593	2235	1583	3443	9950	4846	980	851	437	

AVERAGE HS(M) = 1.06 LARGEST HS(M) = 5.10 ANGLE CLASS % = 26.7

STATION 139 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	467	535	3	.	154	150	3	.	.	.	1312
0.50 - 0.99	.	407	1192	362	159	176	8	.	.	.	2304
1.00 - 1.49	.	.	231	831	593	427	11	3	.	.	2096
1.50 - 1.99	.	.	.	88	335	744	34	.	.	.	1201
2.00 - 2.49	.	.	.	.	58	287	75	.	.	.	420
2.50 - 2.99	.	.	.	.	.	8	47	3	.	.	58
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	467	942	1426	1281	1299	1792	178	6	0	0	

AVERAGE HS(M) = 1.06 LARGEST HS(M) = 2.90 ANGLE CLASS % = 7.4

STATION 139 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

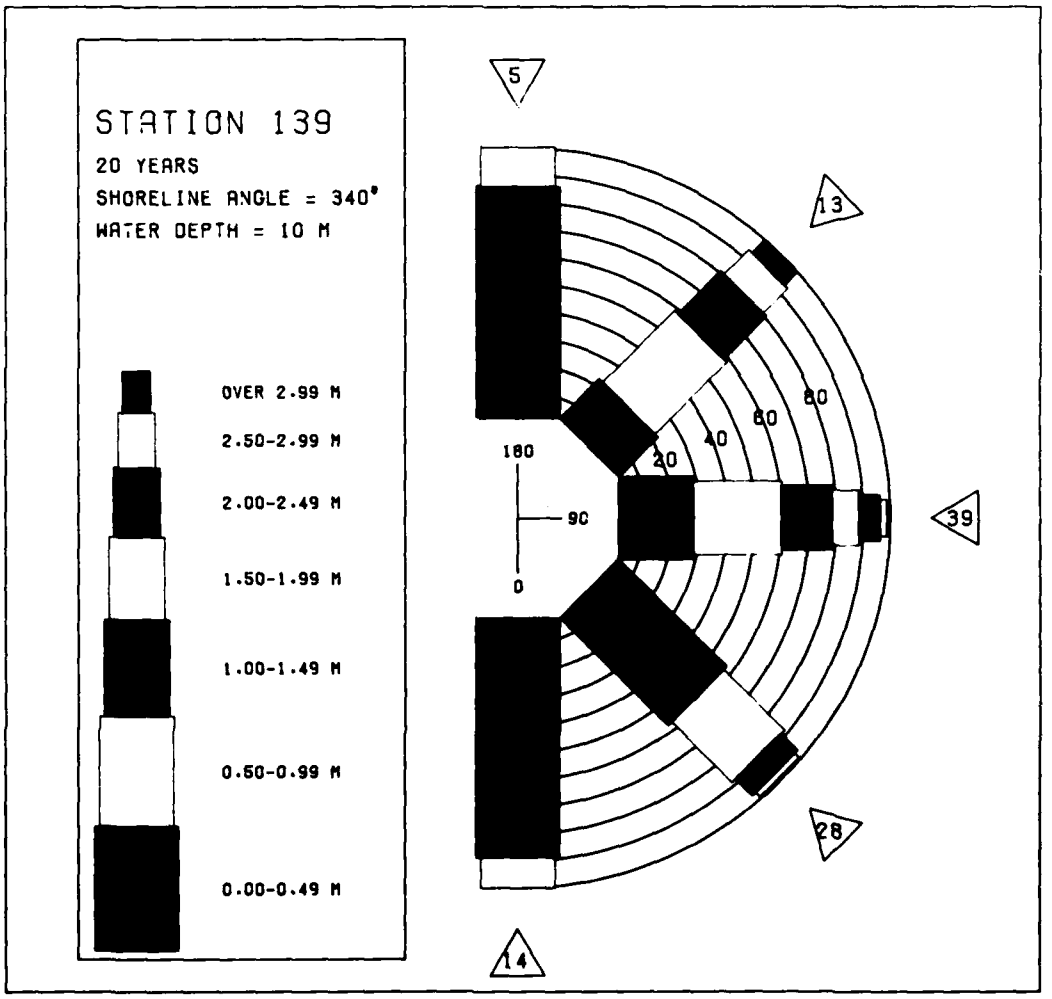
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	805	1090	1050	1432	627	17	.	.	.	.	5021
0.50 - 0.99	.	54	610	1216	405	6	.	.	.	.	2291
1.00 - 1.49	.	.	5	71	30	.	.	.	.	.	106
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	805	1144	1665	2719	1062	23	0	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.38 ANGLE CLASS % = 7.4

STATION 139 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	886	1022	416	312	835	753	312	38	48	53	4675
0.50 - 0.99	.	376	936	305	106	535	310	91	140	54	2853
1.00 - 1.49	.	.	133	418	103	257	139	34	106	76	1266
1.50 - 1.99	.	.	.	61	142	238	91	13	34	34	613
2.00 - 2.49	.	.	.	.	32	237	101	9	10	16	405
2.50 - 2.99	.	.	.	.	.	8	78	19	4	4	113
3.00 - 3.49	.	.	.	.	.	.	3	27	7	1	38
3.50 - 3.99	.	.	.	.	.	.	.	1	7	.	8
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	886	1398	1485	1096	1218	2028	1034	232	357	238	

AVE HS(M) = 0.72 LARGEST HS(M) = 5.10 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 139

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.6	0.5	0.4	0.8	0.3	0.2	0.1	0.7	1.6	1.6	1.0	0.7
1957	0.9	1.0	0.5	0.9	0.6	0.5	0.3	0.5	0.7	1.2	1.2	0.8	0.8
1958	1.1	0.5	0.6	0.7	0.7	0.3	0.4	0.3	0.7	1.3	0.7	1.1	0.7
1959	0.9	1.0	1.1	0.7	0.6	0.4	0.5	0.3	1.2	1.2	1.5	1.3	0.9
1960	0.9	0.9	0.9	0.7	0.5	0.6	0.3	0.5	1.2	1.0	1.1	1.1	0.8
1961	0.9	0.7	0.6	0.6	0.6	0.6	0.4	0.6	0.9	1.4	1.0	0.7	0.7
1962	1.0	0.8	1.3	0.8	0.5	0.5	0.2	0.5	0.6	0.9	1.1	0.9	0.8
1963	0.9	1.3	0.9	0.8	0.7	0.4	0.2	0.2	1.3	1.7	1.0	0.9	0.9
1964	0.7	0.7	0.7	0.7	0.6	0.3	0.5	0.5	1.4	1.6	1.0	1.1	0.8
1965	0.7	1.0	0.6	0.6	0.3	0.6	0.3	0.2	1.6	1.3	1.1	0.9	0.8
1966	1.0	1.1	0.8	0.6	0.7	0.8	0.7	0.5	0.4	0.9	1.2	0.7	0.8
1967	0.7	0.8	0.9	0.8	0.5	0.7	0.4	0.5	1.1	0.9	0.7	0.7	0.7
1968	0.8	0.4	0.4	0.2	0.3	0.6	0.2	0.1	0.3	0.7	0.3	0.5	0.4
1969	1.1	0.9	0.5	0.8	0.9	0.4	0.2	0.6	0.9	1.5	1.1	0.6	0.8
1970	0.9	0.9	0.6	0.6	0.6	0.5	0.3	0.4	0.5	1.5	0.7	0.4	0.7
1971	0.7	0.7	0.5	0.4	0.4	0.2	0.3	0.4	0.8	0.9	1.2	1.5	0.7
1972	0.9	1.0	0.6	0.7	1.0	0.7	0.4	0.3	0.6	1.5	1.0	0.8	0.8
1973	0.9	1.0	0.9	0.6	0.3	0.4	0.1	0.2	0.4	1.2	0.9	0.8	0.6
1974	0.5	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.5	2.0	1.4	0.7	0.6
1975	0.7	0.5	0.5	0.4	0.1	0.1	0.3	0.1	0.5	0.6	0.8	0.8	0.4
MEAN	0.8	0.8	0.7	0.6	0.6	0.5	0.3	0.4	0.8	1.2	1.0	0.9	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 139

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.3	2.9	2.0	1.4	2.7	1.0	0.8	0.6	3.0	3.6	3.2	1.4
1957	2.5	2.9	1.8	2.5	2.2	1.4	1.0	1.8	1.8	2.6	3.6	2.4
1958	3.4	1.7	2.2	2.4	2.1	1.5	1.3	1.2	2.1	3.4	2.1	2.8
1959	2.3	3.0	2.8	1.9	2.0	1.4	1.3	1.1	3.3	2.9	3.0	3.2
1960	2.0	2.7	2.3	2.3	2.1	2.3	0.9	1.8	3.2	2.3	2.3	2.8
1961	2.6	2.4	2.3	2.2	1.6	1.7	0.9	1.7	2.6	2.7	2.7	2.1
1962	3.1	2.5	4.6	2.3	1.6	1.4	0.8	2.2	3.0	2.5	3.0	3.5
1963	2.4	3.7	2.8	2.3	2.6	2.3	0.9	1.0	4.4	5.1	2.9	3.6
1964	2.3	2.0	1.9	2.3	2.7	1.1	1.7	2.6	2.9	3.5	2.8	2.9
1965	2.6	2.4	2.3	2.4	0.9	1.5	1.7	1.0	3.7	4.1	2.5	2.4
1966	2.5	3.2	2.5	1.9	2.4	2.3	2.3	2.1	1.5	2.4	3.1	2.6
1967	2.0	2.7	2.7	2.4	2.1	2.1	1.1	1.1	2.5	2.4	2.5	2.2
1968	2.9	1.6	1.8	1.0	1.5	3.0	0.9	0.8	1.1	2.6	1.3	2.1
1969	2.6	2.3	1.9	2.6	2.4	1.5	0.9	2.0	3.2	3.6	3.9	1.9
1970	3.0	2.3	2.1	1.5	2.1	1.5	0.9	1.3	2.1	3.8	2.7	1.8
1971	2.0	2.1	1.9	1.4	1.0	1.0	1.1	1.3	2.4	3.6	2.9	4.3
1972	3.1	3.4	2.2	2.8	2.7	2.6	1.7	0.7	2.3	3.3	2.5	2.5
1973	2.6	2.6	2.2	1.4	1.4	2.0	0.5	1.1	2.2	3.0	3.3	2.3
1974	2.5	2.1	1.7	1.6	1.1	0.7	0.7	0.6	2.9	4.0	2.8	2.1
1975	2.3	2.5	1.7	1.5	0.7	1.1	1.0	0.7	2.4	2.5	2.6	2.8

LARGEST HS(METRES) FOR STATION 139 = 5.1

STATION 140 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4464	5340	3141	1714	109	1	.	.	.	.	14769
0.50 - 0.99	.	321	1553	1006	22	.	.	.	.	.	2902
1.00 - 1.49	.	.	17	102	6	.	.	.	.	.	125
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4464	5661	4711	2822	137	1	0	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.44 ANGLE CLASS % = 17.8

STATION 140 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1581	1683	.	.	4349	4279	1709	119	10	3	13733
0.50 - 0.99	.	1220	2652	337	162	1541	412	35	167	.	6526
1.00 - 1.49	.	.	308	683	203	248	124	.	126	.	1692
1.50 - 1.99	.	.	.	75	169	155	83	3	27	.	512
2.00 - 2.49	.	.	.	.	17	78	44	11	.	.	150
2.50 - 2.99	.	.	.	.	.	1	3	5	.	.	9
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1581	2903	2960	1395	4900	6302	2375	174	330	3	

AVERAGE HS(M) = 0.52 LARGEST HS(M) = 3.04 ANGLE CLASS % = 22.9

STATION 140 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	780	855	.	.	930	504	545	159	374	463	4610
0.50 - 0.99	.	901	1606	58	121	799	1435	686	1014	460	7080
1.00 - 1.49	.	.	306	951	70	297	552	203	758	655	3792
1.50 - 1.99	.	.	.	179	302	580	164	90	208	558	1481
2.00 - 2.49	.	.	.	.	77	506	191	32	54	111	971
2.50 - 2.99	.	.	.	.	.	15	159	35	50	32	291
3.00 - 3.49	.	.	.	.	.	.	3	39	60	6	68
3.50 - 3.99	.	.	.	.	.	.	.	3	17	1	21
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	1	.	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	780	1756	1912	1188	1500	2401	3049	1237	2467	1987	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 4.56 ANGLE CLASS % = 18.3

STATION 140 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	754	723	1	.	2299	2655	865	106	99	65	7566
0.50 - 0.99	.	816	1753	56	164	2814	1235	195	210	83	7346
1.00 - 1.49	.	.	482	1273	133	1618	687	148	219	114	4674
1.50 - 1.99	.	.	1	265	639	1211	633	39	70	92	2950
2.00 - 2.49	.	.	.	.	177	1574	695	49	49	49	2591
2.50 - 2.99	.	.	.	.	.	66	597	152	27	13	855
3.00 - 3.49	.	.	.	.	.	1	30	244	51	6	332
3.50 - 3.99	.	.	.	.	.	.	.	8	63	.	71
4.00 - 4.49	.	.	.	.	.	.	.	.	13	.	13
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	0
TOTAL	754	1539	2236	1594	3432	9939	4740	941	801	423	

AVERAGE HS(M) = 1.05 LARGEST HS(M) = 5.10 ANGLE CLASS % = 26.4

STATION 140 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	450	537	6	.	133	119	5	.	.	.	1250
0.50 - 0.99	.	417	1137	373	143	138	6	.	.	.	2214
1.00 - 1.49	.	.	205	812	602	381	11	3	.	.	2014
1.50 - 1.99	.	.	.	83	323	727	23	.	.	.	1156
2.00 - 2.49	.	.	.	.	59	275	73	.	.	.	407
2.50 - 2.99	.	.	.	.	.	6	46	1	.	.	53
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	450	954	1348	1268	1260	1646	164	4	0	0	

AVERAGE HS(M) = 1.06 LARGEST HS(M) = 2.99 ANGLE CLASS % = 7.1

STATION 140 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

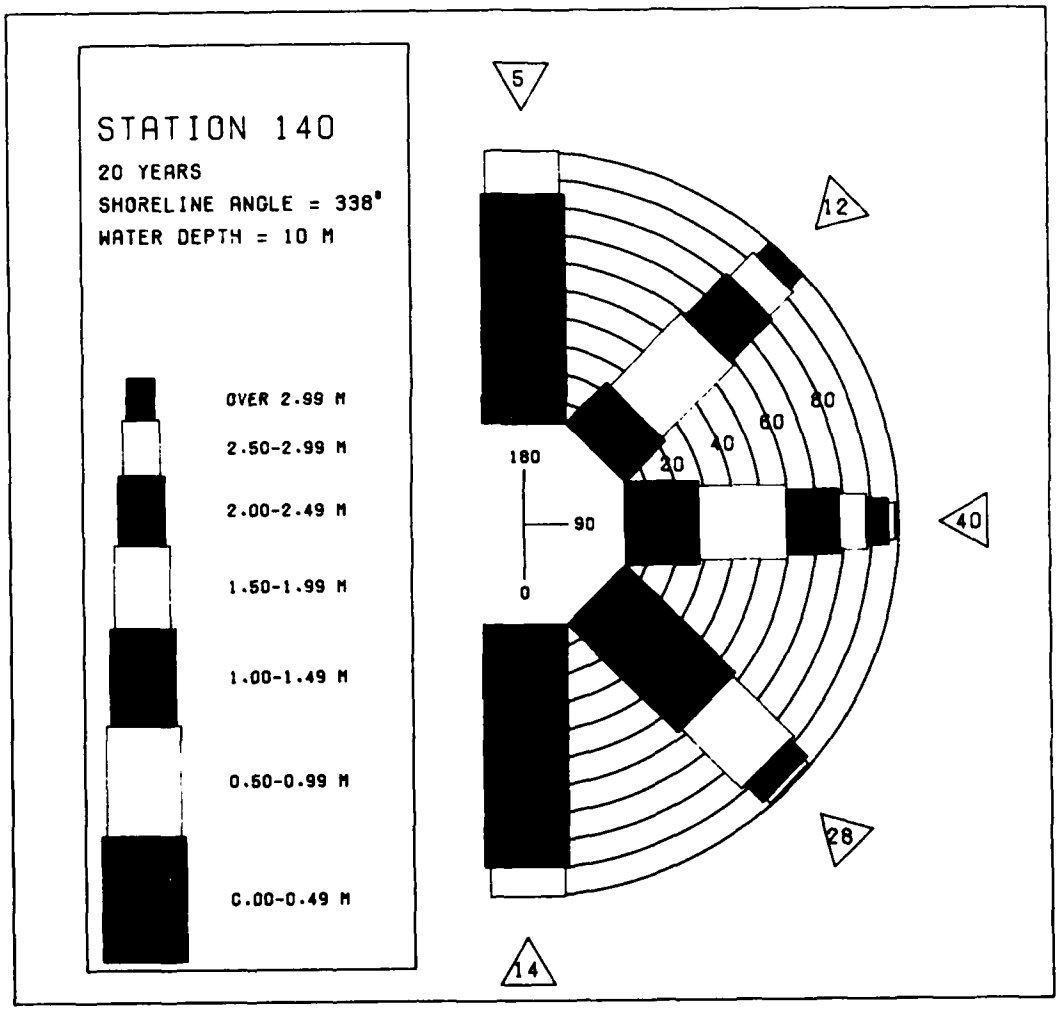
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	797	1071	1043	1387	590	17	.	.	.	.	4905
0.50 - 0.99	.	49	631	1269	436	1	.	.	.	.	2386
1.00 - 1.49	.	.	5	78	34	.	.	.	.	.	117
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	797	1120	1679	2734	1060	18	0	0	0	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.39 ANGLE CLASS % = 7.4

STATION 140 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	882	1021	419	310	841	757	312	38	48	53	4681
0.50 - 0.99	.	372	933	310	107	529	309	91	139	54	2844
1.00 - 1.49	.	.	132	420	105	254	137	35	110	77	1270
1.50 - 1.99	.	.	.	60	143	237	90	13	30	35	608
2.00 - 2.49	.	.	.	.	33	243	100	9	10	16	411
2.50 - 2.99	.	.	.	.	.	9	80	18	4	4	115
3.00 - 3.49	.	.	.	.	.	.	3	28	7	1	39
3.50 - 3.99	.	.	.	.	.	.	.	1	8	.	9
4.00 - 4.49	.	.	.	.	.	.	.	.	1	.	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	882	1393	1484	1100	1229	2029	1031	233	357	240	

AVE HS(M) = 0.72 LARGEST HS(M) = 5.10 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 140

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.6	0.5	0.4	0.8	0.3	0.2	0.1	0.7	1.6	1.6	1.0	0.7
1957	0.9	1.0	0.5	0.9	0.5	0.5	0.3	0.5	0.7	1.2	1.2	0.8	0.8
1958	1.1	0.5	0.6	0.7	0.7	0.3	0.4	0.3	0.7	1.3	0.7	1.1	0.7
1959	0.9	1.0	1.1	0.7	0.6	0.4	0.5	0.3	1.2	1.2	1.5	1.3	0.9
1960	0.9	0.9	0.9	0.7	0.5	0.6	0.3	0.5	1.2	1.0	1.1	1.1	0.8
1961	0.9	0.7	0.6	0.6	0.6	0.6	0.4	0.6	0.9	1.4	1.0	0.7	0.7
1962	1.0	0.8	1.3	0.8	0.5	0.5	0.2	0.5	0.6	0.9	1.1	0.9	0.8
1963	0.9	1.3	0.9	0.8	0.7	0.4	0.2	0.2	1.3	1.7	1.0	0.9	0.9
1964	0.7	0.7	0.7	0.7	0.6	0.3	0.5	0.5	1.4	1.6	1.0	1.1	0.8
1965	0.7	1.0	0.6	0.6	0.3	0.6	0.3	0.2	1.6	1.3	1.1	0.9	0.8
1966	1.0	1.1	0.8	0.6	0.7	0.8	0.7	0.5	0.4	0.9	1.2	0.7	0.8
1967	0.7	0.8	0.9	0.8	0.5	0.7	0.4	0.5	1.1	0.9	0.7	0.7	0.7
1968	0.8	0.4	0.4	0.2	0.3	0.6	0.2	0.1	0.3	0.7	0.3	0.5	0.4
1969	1.1	0.9	0.5	0.8	0.9	0.4	0.2	0.6	0.9	1.5	1.1	0.6	0.8
1970	1.0	0.9	0.6	0.6	0.6	0.5	0.2	0.4	0.5	1.5	0.7	0.4	0.7
1971	0.7	0.7	0.6	0.4	0.4	0.2	0.3	0.4	0.8	0.9	1.2	1.5	0.7
1972	0.9	1.1	0.6	0.7	1.0	0.7	0.4	0.3	0.6	1.5	1.0	0.8	0.8
1973	0.9	1.0	0.9	0.6	0.3	0.4	0.1	0.2	0.4	1.2	0.9	0.8	0.6
1974	0.5	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.5	2.0	1.4	0.7	0.6
1975	0.7	0.5	0.5	0.4	0.1	0.1	0.3	0.1	0.5	0.6	0.8	0.8	0.4
MEAN	0.8	0.8	0.7	0.6	0.6	0.5	0.3	0.4	0.8	1.2	1.0	0.9	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 140

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.3	2.9	2.1	1.4	2.7	1.0	0.8	0.6	3.0	3.6	3.2	1.4
1957	2.5	2.9	1.9	2.5	2.2	1.4	1.0	1.8	1.8	2.6	3.6	2.4
1958	3.4	1.7	2.2	2.4	2.1	1.5	1.3	1.2	2.1	3.4	2.1	2.8
1959	2.3	3.0	2.8	1.9	2.0	1.7	1.3	1.1	3.3	2.9	3.0	3.2
1960	2.0	2.7	2.2	2.3	2.1	2.3	0.9	1.8	3.2	2.3	2.3	2.8
1961	2.6	2.5	2.3	2.2	1.6	1.7	0.9	1.7	2.6	2.7	2.7	2.1
1962	3.1	2.5	4.6	2.3	1.6	1.4	0.8	2.2	3.0	2.6	3.0	3.5
1963	2.4	3.7	2.8	2.3	2.6	2.4	0.9	1.0	4.4	5.1	2.9	3.6
1964	2.3	2.0	1.9	2.3	2.7	1.1	1.7	2.6	2.9	3.6	2.8	2.9
1965	2.6	2.4	2.3	2.4	0.9	1.5	1.7	1.0	3.7	4.1	2.5	2.4
1966	2.5	3.2	2.5	2.0	2.4	2.3	2.3	2.1	1.5	2.4	3.1	2.6
1967	2.0	2.7	2.7	2.4	2.1	2.1	1.1	1.1	2.5	2.4	2.5	2.2
1968	2.9	1.6	1.8	1.0	1.5	3.0	0.9	0.8	1.1	2.5	1.2	2.1
1969	2.6	2.3	1.9	2.6	2.4	1.5	0.9	2.0	3.2	3.6	3.9	1.8
1970	3.0	2.3	2.1	1.5	2.1	1.5	0.9	1.3	2.1	3.8	2.7	1.8
1971	2.1	2.1	1.9	1.5	1.0	1.0	1.1	1.3	2.4	3.6	2.9	4.4
1972	3.2	3.4	2.2	2.8	2.8	2.5	1.7	0.7	2.3	3.3	2.5	2.5
1973	2.6	2.6	2.2	1.4	1.3	2.0	0.5	1.1	2.2	3.0	3.3	2.4
1974	2.5	2.2	1.7	1.6	1.0	0.7	0.7	0.6	2.9	4.0	2.8	2.0
1975	2.3	2.5	1.7	1.6	0.7	1.1	1.0	0.7	2.4	2.5	2.6	2.9

LARGEST HS(METRES) FOR STATION 140 = 5.1

STATION 141 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2980	4305	2879	2056	681	436	.	.	.	.	13337
0.50 - 0.99	.	350	1892	792	340	251	.	.	.	.	3625
1.00 - 1.49	.	.	30	104	39	1	.	.	.	.	174
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2980	4655	4801	2952	1061	688	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.52 ANGLE CLASS % = 17.1

STATION 141 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1192	1558			2931	3074	1353	71	8	.	10187
0.50 - 0.99	.	1225	2712	266	183	1199	246	22	142	.	5995
1.00 - 1.49	.	.	376	1115	246	318	97	1	116	.	2269
1.50 - 1.99	.	.	.	106	167	222	59	1	44	.	599
2.00 - 2.49	.	.	.	.	22	121	30	8	1	.	182
2.50 - 2.99	.	.	.	.	.	3	6	6	.	.	15
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1192	2783	3088	1487	3549	4937	1791	110	311	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 3.03 ANGLE CLASS % = 19.3

STATION 141 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	621	783			821	343	1002	145	78	357	4150
0.50 - 0.99	.	831	1659	65	118	824	1158	633	325	491	6104
1.00 - 1.49	.	.	386	1047	80	311	544	362	568	663	3661
1.50 - 1.99	.	.	.	229	340	253	193	70	217	747	2048
2.00 - 2.49	.	.	.	.	94	554	155	22	35	203	1063
2.50 - 2.99	.	.	.	.	.	15	162	25	15	39	256
3.00 - 3.49	.	.	.	.	.	.	1	41	27	29	98
3.50 - 3.99	.	.	.	.	.	.	.	1	13	3	17
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	621	1614	2045	1341	1453	2300	3215	1299	1278	2533	

AVERAGE HS(M) = 0.99 LARGEST HS(M) = 4.28 ANGLE CLASS % = 17.7

STATION 141 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	539	586	.	.	2087	2910	900	37	68	25	7152
0.50 - 0.99	.	699	1550	80	171	4147	2185	248	184	44	9308
1.00 - 1.49	.	.	475	1242	121	1779	1969	532	441	70	6629
1.50 - 1.99	.	.	.	326	633	1055	1137	266	355	99	3871
2.00 - 2.49	.	.	.	.	198	1428	874	138	220	114	2972
2.50 - 2.99	.	.	.	.	.	49	616	229	87	111	1092
3.00 - 3.49	.	.	.	.	.	1	30	258	107	51	447
3.50 - 3.99	.	.	.	.	.	.	1	6	121	42	170
4.00 - 4.49	.	.	.	.	.	.	.	.	18	13	31
4.50 - 4.99	.	.	.	.	.	.	.	.	.	11	11
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	1
TOTAL	539	1285	2025	1648	3210	11369	7712	1714	1601	581	

AVERAGE HS(M) = 1.13 LARGEST HS(M) = 5.03 ANGLE CLASS % = 31.7

STATION 141 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	273	330	3	.	164	260	5	.	.	.	1035
0.50 - 0.99	.	338	980	266	154	771	32	.	.	.	2541
1.00 - 1.49	.	.	184	728	420	1146	58	10	.	.	2546
1.50 - 1.99	.	.	.	77	265	910	273	18	.	.	1543
2.00 - 2.49	.	.	.	.	39	302	176	41	.	.	558
2.50 - 2.99	.	.	.	.	.	1	32	37	.	.	70
3.00 - 3.49	.	.	.	.	.	.	.	6	1	.	7
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	273	668	1167	1071	1042	3390	576	112	1	0	

AVERAGE HS(M) = 1.15 LARGEST HS(M) = 3.39 ANGLE CLASS % = 8.3

STATION 141 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

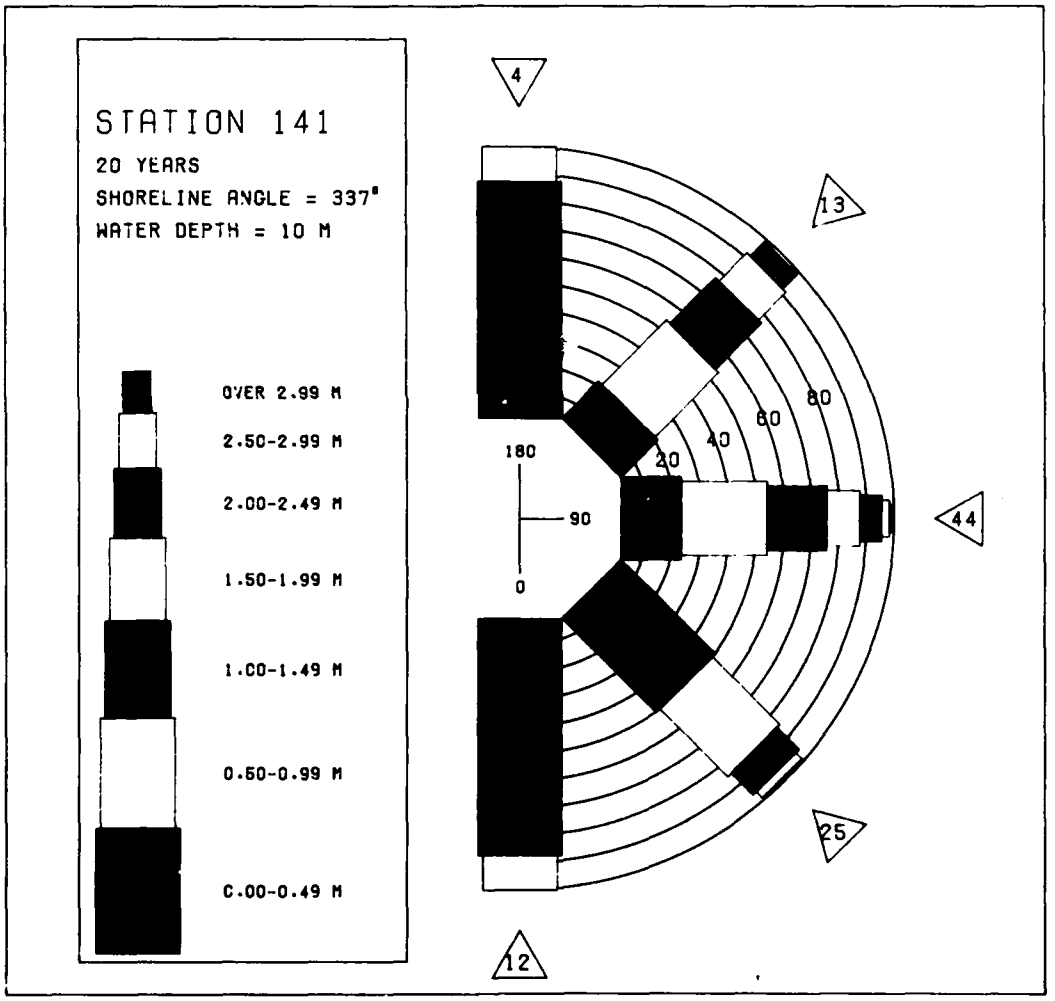
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	610	792	732	1168	694	39	.	.	.	.	4035
0.50 - 0.99	.	35	499	684	396	92	.	.	.	.	1706
1.00 - 1.49	.	.	3	39	42	.	.	.	.	.	84
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	610	827	1234	1891	1132	131	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.45 ANGLE CLASS % = 5.8

STATION 141 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	621	835	361	322	738	706	326	25	15	38	3987
0.50 - 0.99	.	348	929	215	136	728	362	90	65	53	2926
1.00 - 1.49	.	.	145	427	95	355	266	90	112	73	1563
1.50 - 1.99	.	.	.	73	140	244	166	35	61	84	803
2.00 - 2.49	.	.	.	.	35	240	123	21	25	31	475
2.50 - 2.99	.	.	.	.	.	7	81	29	10	15	142
3.00 - 3.49	.	.	.	.	.	.	3	30	13	8	54
3.50 - 3.99	.	.	.	.	.	.	.	.	13	4	17
4.00 - 4.49	.	.	.	.	.	.	.	.	1	1	2
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	621	1183	1435	1037	1144	2280	1327	320	315	308	

AVE HS(M) = 0.82 LARGEST HS(M) = 5.03 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 141

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.7	0.7	0.6	1.0	0.6	0.4	0.4	0.9	1.9	1.9	1.3	0.9
1957	1.1	1.1	0.7	1.1	0.7	0.5	0.3	0.6	0.8	1.4	1.4	1.0	0.9
1958	1.2	0.6	0.7	0.9	0.7	0.4	0.5	0.3	0.7	1.4	0.8	1.2	0.8
1959	1.0	1.1	1.2	0.9	0.7	0.4	0.6	0.4	1.2	1.1	1.6	1.3	1.0
1960	0.9	0.9	1.0	0.7	0.5	0.7	0.3	0.6	1.2	1.1	1.3	1.2	0.9
1961	1.0	0.8	0.7	0.6	0.7	0.6	0.4	0.7	1.1	1.6	1.0	0.8	0.8
1962	1.1	1.1	1.4	0.9	0.6	0.5	0.3	0.5	0.8	1.1	1.2	1.2	0.9
1963	1.0	1.2	0.9	0.9	0.8	0.5	0.2	0.2	1.4	1.6	1.0	0.9	0.9
1964	0.8	0.7	0.8	0.8	0.7	0.3	0.6	0.5	1.5	1.7	1.2	1.2	0.9
1965	0.9	1.1	0.6	0.7	0.4	0.7	0.3	0.2	1.7	1.3	1.1	1.0	0.8
1966	1.1	1.1	0.8	0.7	0.7	1.0	0.7	0.6	0.5	1.1	1.3	0.9	0.9
1967	0.7	0.9	1.0	1.1	0.6	0.7	0.4	0.5	1.2	1.1	0.9	0.8	0.8
1968	1.0	0.6	0.5	0.4	0.4	0.5	0.2	0.1	0.3	0.8	0.4	0.5	0.5
1969	1.3	1.2	0.7	0.8	1.0	0.5	0.3	0.7	1.0	1.7	1.5	0.8	1.0
1970	1.0	1.0	0.7	0.8	0.7	0.5	0.3	0.4	0.6	1.6	0.7	0.5	0.7
1971	0.7	0.7	0.7	0.5	0.4	0.2	0.3	0.4	0.9	1.0	1.3	1.5	0.7
1972	1.0	1.1	0.7	0.8	1.2	0.7	0.5	0.4	0.8	1.6	1.1	0.9	0.9
1973	0.9	1.2	1.0	0.6	0.4	0.5	0.1	0.2	0.4	1.3	1.2	1.0	0.7
1974	0.6	0.7	0.4	0.5	0.4	0.4	0.4	0.4	0.5	2.1	1.7	0.9	0.7
1975	0.9	0.5	0.6	0.6	0.2	0.1	0.6	0.1	0.6	0.6	1.1	1.0	0.6
MEAN	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.9	1.4	1.2	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 141

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.9	2.7	2.5	1.6	2.8	1.1	0.9	0.9	2.9	3.9	3.6	2.1
1957	2.6	2.9	1.9	2.5	2.2	1.6	0.8	2.1	1.9	2.5	3.4	2.5
1958	3.9	1.9	2.4	2.3	2.1	1.4	1.5	1.3	2.1	3.3	2.1	3.0
1959	2.3	2.8	3.1	2.2	2.1	1.3	1.2	1.1	3.2	2.6	3.1	3.2
1960	2.0	2.8	2.2	2.1	2.3	2.2	0.9	1.8	3.2	2.4	2.4	2.8
1961	2.4	2.5	2.2	2.3	1.6	1.8	1.0	1.6	3.2	2.8	2.7	2.0
1962	3.1	2.7	5.0	2.4	2.2	1.5	1.3	2.1	2.8	2.8	3.4	4.9
1963	2.5	3.7	2.9	2.3	2.6	2.4	0.8	1.1	4.3	4.2	2.9	3.3
1964	2.4	2.1	1.8	2.3	3.1	0.9	2.1	2.1	4.1	4.0	2.8	2.9
1965	2.9	2.4	2.3	2.4	1.0	1.7	1.4	0.9	3.8	4.2	2.5	2.8
1966	2.5	3.1	2.5	2.0	2.4	2.1	2.3	2.2	1.4	2.7	3.3	2.6
1967	2.1	2.7	2.7	2.7	2.2	1.8	1.2	1.0	2.8	2.4	2.8	2.3
1968	3.7	1.9	2.0	1.1	1.4	2.7	0.8	0.5	1.0	2.5	1.5	2.2
1969	2.7	3.3	2.3	2.4	2.2	1.6	0.9	2.2	3.3	3.6	3.5	2.2
1970	3.0	2.4	2.3	1.6	2.2	1.6	1.0	1.4	2.1	4.3	2.5	2.0
1971	2.3	2.1	2.1	1.9	1.3	1.1	1.3	1.5	2.5	3.7	2.8	4.6
1972	3.3	3.5	2.3	3.3	3.5	2.3	1.9	0.7	2.4	3.3	2.5	2.6
1973	2.7	4.3	2.9	1.7	1.7	1.9	0.4	0.9	2.1	3.1	3.7	2.5
1974	2.5	2.3	1.9	1.5	1.2	0.9	0.9	1.0	3.0	4.3	2.9	2.0
1975	2.4	2.5	1.8	1.9	0.9	1.0	2.9	0.6	2.1	2.5	2.7	3.1

LARGEST HS(METRES) FOR STATION 141 = 5.0

STATION 142 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2996	4392	2927	2079	716	496	8	.	.	.	13614
0.50 - 0.99	.	355	1971	771	323	254	.	.	.	.	3674
1.00 - 1.49	.	.	34	102	47	5	.	.	.	.	188
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2996	4747	4932	2952	1089	755	8	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.73 ANGLE CLASS % = 17.5

STATION 142 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1211	1514	.	.	3251	3095	1329	73	6	.	10479
0.50 - 0.99	.	1226	2715	297	200	1184	248	20	145	.	6035
1.00 - 1.49	.	.	393	1146	212	277	99	1	114	.	2242
1.50 - 1.99	.	.	.	112	196	236	54	1	58	.	657
2.00 - 2.49	.	.	.	.	22	97	22	10	1	.	152
2.50 - 2.99	.	.	.	.	.	3	8	6	.	.	17
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1211	2740	3108	1555	3881	4892	1760	111	324	0	

AVERAGE HS(M) = 0.58 LARGEST HS(M) = 2.80 ANGLE CLASS % = 19.6

STATION 142 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	598	775	.	.	1050	1066	1423	154	112	374	5552
0.50 - 0.99	.	788	1610	53	97	1197	1651	698	367	508	6969
1.00 - 1.49	.	.	371	1054	90	369	677	441	679	701	4382
1.50 - 1.99	.	.	.	227	350	318	205	104	266	771	2241
2.00 - 2.49	.	.	.	.	100	636	196	32	59	241	1264
2.50 - 2.99	.	.	.	.	.	17	193	34	17	56	317
3.00 - 3.49	.	.	.	.	.	.	3	44	27	42	116
3.50 - 3.99	.	.	.	.	.	.	.	1	17	8	26
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	598	1563	1981	1334	1687	3603	4348	1508	1544	2702	

AVERAGE HS(M) = 0.97 LARGEST HS(M) = 4.28 ANGLE CLASS % = 20.9

STATION 142 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	521	537	.	.	1664	2215	513	32	34	10	5526
0.50 - 0.99	.	655	1425	75	165	3793	1685	177	147	25	8147
1.00 - 1.49	.	.	450	1204	107	1784	1848	443	319	35	6190
1.50 - 1.99	.	.	.	308	621	1014	1119	236	304	68	3670
2.00 - 2.49	.	.	.	.	184	1430	891	124	169	77	2875
2.50 - 2.99	.	.	.	.	.	56	612	225	82	92	1067
3.00 - 3.49	.	.	.	.	.	1	29	261	107	42	440
3.50 - 3.99	.	.	.	.	.	.	1	6	119	35	161
4.00 - 4.49	.	.	.	.	.	.	.	.	20	17	37
4.50 - 4.99	.	.	.	.	.	.	.	.	.	11	11
5.00 - GREATER	.	.	.	.	.	.	.	.	.	1	0
TOTAL	521	1192	1875	1587	2741	10293	6698	1504	1321	413	

AVERAGE HS(M) = 1.18 LARGEST HS(M) = 5.03 ANGLE CLASS % = 28.2

STATION 142 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	268	335	1	.	159	256	15	.	.	.	1034
0.50 - 0.99	.	325	968	261	150	686	35	.	.	.	2425
1.00 - 1.49	.	.	201	715	448	1175	44	8	.	.	2591
1.50 - 1.99	.	.	.	68	273	910	222	10	.	.	1483
2.00 - 2.49	.	.	.	.	41	304	176	47	.	.	568
2.50 - 2.99	.	.	.	.	1	1	39	30	.	.	71
3.00 - 3.49	.	.	.	.	.	.	.	11	3	.	14
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	268	660	1170	1044	1072	3332	531	106	3	0	

AVERAGE HS(M) = 1.15 LARGEST HS(M) = 3.39 ANGLE CLASS % = 8.2

STATION 142 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

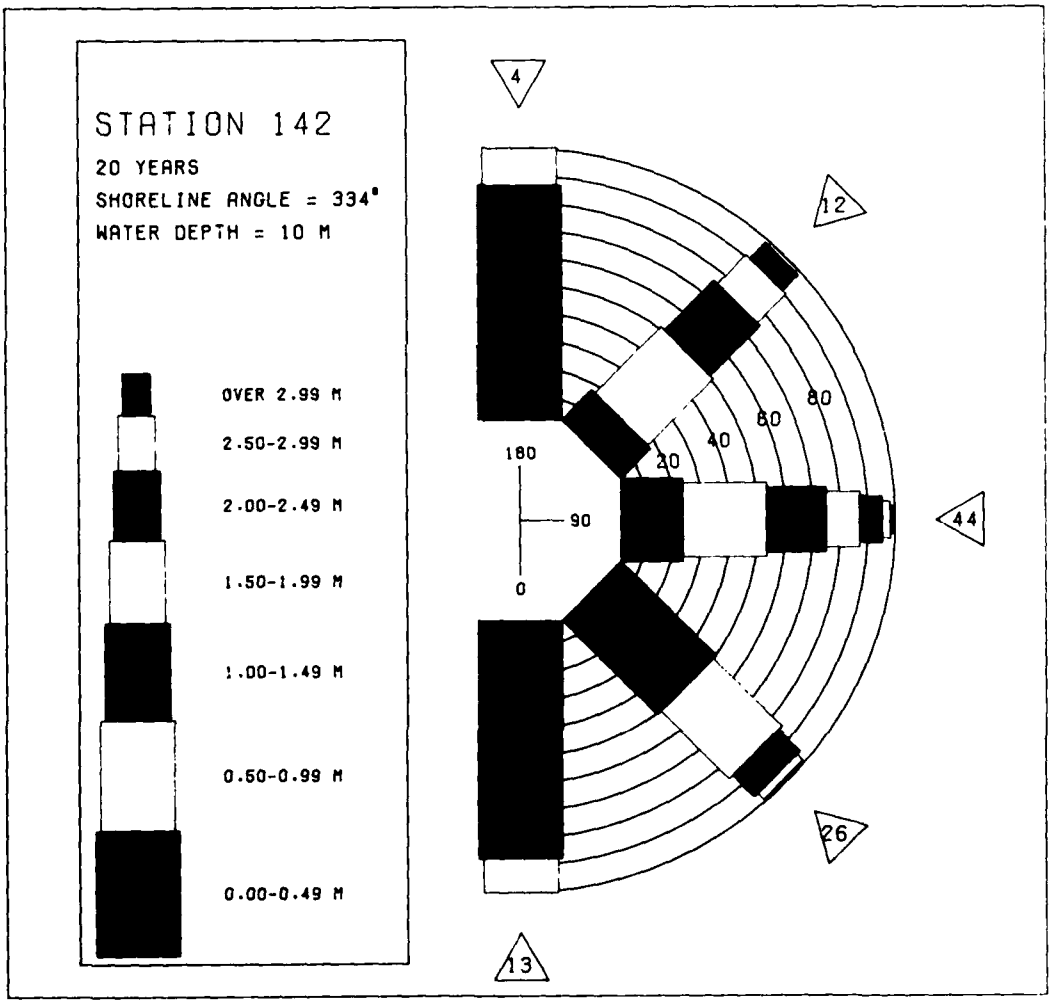
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	581	778	718	1098	605	22	.	.	.	.	3802
0.50 - 0.99	.	37	499	742	386	77	.	.	.	.	1741
1.00 - 1.49	.	.	3	47	39	.	.	.	.	.	89
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	581	815	1220	1887	1030	99	0	0	0	0	

AVERAGE HS(M) = 0.39 LARGEST HS(M) = 1.40 ANGLE CLASS % = 5.6

STATION 142 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	617	833	364	317	744	715	329	26	15	38	3998
0.50 - 0.99	.	338	919	220	132	719	362	89	66	53	2898
1.00 - 1.49	.	.	145	427	94	361	266	89	111	73	1566
1.50 - 1.99	.	.	.	71	144	247	160	35	62	84	803
2.00 - 2.49	.	.	.	.	34	246	128	21	25	31	485
2.50 - 2.99	.	.	.	.	.	7	65	29	9	14	144
3.00 - 3.49	.	.	.	.	.	.	3	31	13	8	55
3.50 - 3.99	.	.	.	.	.	.	.	.	13	4	17
4.00 - 4.49	.	.	.	.	.	.	.	.	2	1	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	617	1171	1428	1035	1148	2295	1333	320	316	307	

AVE HS(M) = 0.82 LARGEST HS(M) = 5.03 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 142

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.7	0.7	0.6	1.0	0.6	0.4	0.4	0.9	1.9	1.9	1.3	0.9
1957	1.1	1.1	0.7	1.1	0.7	0.5	0.3	0.6	0.8	1.4	1.4	1.0	0.9
1958	1.2	0.6	0.7	0.9	0.7	0.4	0.4	0.3	0.7	1.4	0.8	1.2	0.8
1959	1.0	1.1	1.2	0.9	0.7	0.4	0.6	0.4	1.2	1.1	1.6	1.4	1.0
1960	0.9	0.9	1.0	0.7	0.5	0.7	0.3	0.6	1.2	1.1	1.3	1.2	0.9
1961	1.0	0.8	0.7	0.6	0.7	0.6	0.4	0.7	1.1	1.7	1.0	0.8	0.8
1962	1.1	1.1	1.5	0.9	0.6	0.5	0.3	0.5	0.8	1.1	1.2	1.2	0.9
1963	1.1	1.3	0.9	0.9	0.8	0.5	0.2	0.2	1.4	1.6	1.0	0.9	0.9
1964	0.8	0.7	0.8	0.8	0.7	0.3	0.5	0.5	1.5	1.7	1.2	1.2	0.9
1965	1.0	1.1	0.6	0.7	0.4	0.7	0.3	0.2	1.7	1.3	1.1	1.0	0.8
1966	1.2	1.1	0.9	0.7	0.7	1.0	0.7	0.6	0.5	1.1	1.3	0.9	0.9
1967	0.8	0.9	1.0	1.1	0.6	0.7	0.4	0.5	1.2	1.1	0.9	0.8	0.8
1968	1.0	0.7	0.6	0.4	0.4	0.5	0.2	0.1	0.3	0.8	0.4	0.5	0.5
1969	1.3	1.2	0.7	0.8	1.0	0.5	0.3	0.7	1.0	1.7	1.5	0.8	1.0
1970	1.0	1.0	0.7	0.8	0.7	0.5	0.3	0.4	0.6	1.6	0.7	0.5	0.7
1971	0.7	0.7	0.7	0.5	0.4	0.2	0.3	0.4	0.9	1.0	1.3	1.5	0.7
1972	1.0	1.1	0.7	0.8	1.2	0.7	0.5	0.4	0.8	1.6	1.1	0.9	0.9
1973	0.9	1.2	1.0	0.6	0.4	0.5	0.1	0.2	0.4	1.4	1.2	1.0	0.7
1974	0.5	0.7	0.4	0.5	0.4	0.4	0.4	0.4	0.5	2.1	1.7	0.9	0.7
1975	0.9	0.5	0.7	0.6	0.2	0.1	0.6	0.1	0.6	0.6	1.1	1.0	0.6
MEAN	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.9	1.4	1.2	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 142

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.9	2.7	2.5	1.6	2.8	1.1	0.8	0.9	2.9	3.8	3.6	2.1
1957	2.6	2.9	1.9	2.5	2.3	1.6	0.8	2.1	1.9	2.5	3.4	2.5
1958	3.9	1.9	2.4	2.4	2.1	1.4	1.5	1.3	2.1	3.3	2.1	3.0
1959	2.3	2.8	3.1	2.2	2.1	1.3	1.2	1.1	3.2	2.6	3.1	3.2
1960	2.0	2.9	2.2	2.1	2.3	2.3	0.9	1.9	3.2	2.4	2.4	2.8
1961	2.4	2.5	2.1	2.3	1.7	1.9	1.0	1.6	3.2	2.8	2.7	2.0
1962	3.1	2.8	5.0	2.4	2.2	1.5	1.3	2.1	2.8	2.8	3.4	4.9
1963	2.5	3.7	2.9	2.3	2.6	2.4	0.8	1.1	4.3	4.2	2.9	3.3
1964	2.4	2.1	1.8	2.3	3.2	0.9	2.1	2.1	4.3	4.0	2.8	2.9
1965	2.9	2.4	2.3	2.4	1.0	1.7	1.5	0.9	3.8	4.2	2.5	2.9
1966	2.5	3.1	2.5	2.0	2.5	2.1	2.3	2.3	1.4	2.7	3.3	2.6
1967	2.1	2.7	2.7	2.7	2.3	1.8	1.2	1.0	2.8	2.4	2.8	2.4
1968	3.7	1.9	2.0	1.1	1.4	2.7	0.8	0.5	1.0	2.5	1.8	2.2
1969	2.7	3.3	2.3	2.4	2.2	1.6	0.9	2.2	3.3	3.6	3.5	2.2
1970	3.0	2.4	2.3	1.6	2.0	1.6	1.0	1.4	2.1	4.3	2.5	2.0
1971	2.3	2.1	2.1	1.9	1.3	1.1	1.3	1.5	2.6	3.7	2.8	4.7
1972	3.3	3.5	2.4	3.3	3.6	2.3	1.9	0.7	2.4	3.3	2.5	2.6
1973	2.7	4.4	3.0	1.7	1.4	1.8	0.4	0.9	2.1	3.2	3.7	2.5
1974	2.5	2.4	1.9	1.5	1.0	0.9	0.9	1.0	3.0	4.3	2.9	2.0
1975	2.4	2.5	1.9	1.9	0.9	1.0	2.9	0.6	2.1	2.4	2.7	3.1

LARGEST HS(METRES) FOR STATION 142 = 5.0

STATION 143 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 331.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3169	4563	3047	2166	758	537	6	.	1	.	14247
0.50 - 0.99	.	364	1964	763	289	234	.	.	.	.	3614
1.00 - 1.49	.	.	47	111	42	.	.	.	.	.	200
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3169	4927	5058	3040	1089	771	6	0	1	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.43 ANGLE CLASS % = 18.1

STATION 143 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 331.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1151	1531	.	.	3369	3194	1303	75	6	.	10629
0.50 - 0.99	.	1214	2739	316	193	833	217	18	143	.	5673
1.00 - 1.49	.	.	388	1178	229	242	97	1	116	.	2251
1.50 - 1.99	.	.	.	116	217	332	29	1	58	.	653
2.00 - 2.49	.	.	.	.	25	114	30	10	1	.	180
2.50 - 2.99	.	.	.	.	.	3	6	6	.	.	15
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1151	2745	3127	1610	4033	4618	1682	111	324	0	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 2.79 ANGLE CLASS % = 19.4

STATION 143 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 331.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	619	746	.	.	1069	1161	1439	157	112	386	5689
0.50 - 0.99	.	752	1575	61	100	1591	1726	687	359	508	7159
1.00 - 1.49	.	.	385	1028	78	468	744	455	699	703	4560
1.50 - 1.99	.	.	.	224	386	388	242	114	282	770	2406
2.00 - 2.49	.	.	.	.	112	694	207	44	71	242	1370
2.50 - 2.99	.	.	.	.	.	22	227	47	23	59	378
3.00 - 3.49	.	.	.	.	.	.	5	58	27	44	134
3.50 - 3.99	.	.	.	.	.	.	.	1	22	8	31
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	619	1498	1960	1313	1745	4124	4590	1563	1595	2721	

AVERAGE HS(M) = 0.98 LARGEST HS(M) = 4.29 ANGLE CLASS % = 21.8

STATION 143 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 331.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	487	511	.	.	1596	2190	497	30	34	10	5355
0.50 - 0.99	.	593	1332	66	159	3687	1610	172	135	20	7774
1.00 - 1.49	.	.	434	1192	112	1704	1788	395	306	39	5970
1.50 - 1.99	.	.	.	284	574	1009	1090	266	287	66	3576
2.00 - 2.49	.	.	.	.	177	1425	876	111	189	68	2846
2.50 - 2.99	.	.	.	.	.	58	621	219	77	90	1065
3.00 - 3.49	.	.	.	.	.	1	30	253	112	46	442
3.50 - 3.99	.	.	.	.	.	.	1	8	114	34	157
4.00 - 4.49	.	.	.	.	.	.	.	.	20	17	37
4.50 - 4.99	.	.	.	.	.	.	.	.	.	13	13
5.00 - GREATER	.	.	.	.	.	.	.	.	.	3	0
TOTAL	487	1104	1766	1542	2618	10074	6513	1454	1274	406	

AVERAGE HS(M) = 1.19 LARGEST HS(M) = 5.18 ANGLE CLASS % = 27.3

STATION 143 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 331.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	260	323	1	.	131	201	5	.	.	.	921
0.50 - 0.99	.	338	927	280	140	614	34	.	.	.	2333
1.00 - 1.49	.	.	189	682	475	1129	37	3	.	.	2515
1.50 - 1.99	.	.	.	83	275	951	191	10	.	.	1510
2.00 - 2.49	.	.	.	.	41	297	164	42	.	.	564
2.50 - 2.99	.	.	.	.	1	1	37	30	.	.	69
3.00 - 3.49	.	.	.	.	.	.	.	11	.	.	11
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	260	661	1117	1045	1063	3193	488	96	0	0	

AVERAGE HS(M) = 1.17 LARGEST HS(M) = 3.39 ANGLE CLASS % = 7.9

STATION 143 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 331.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

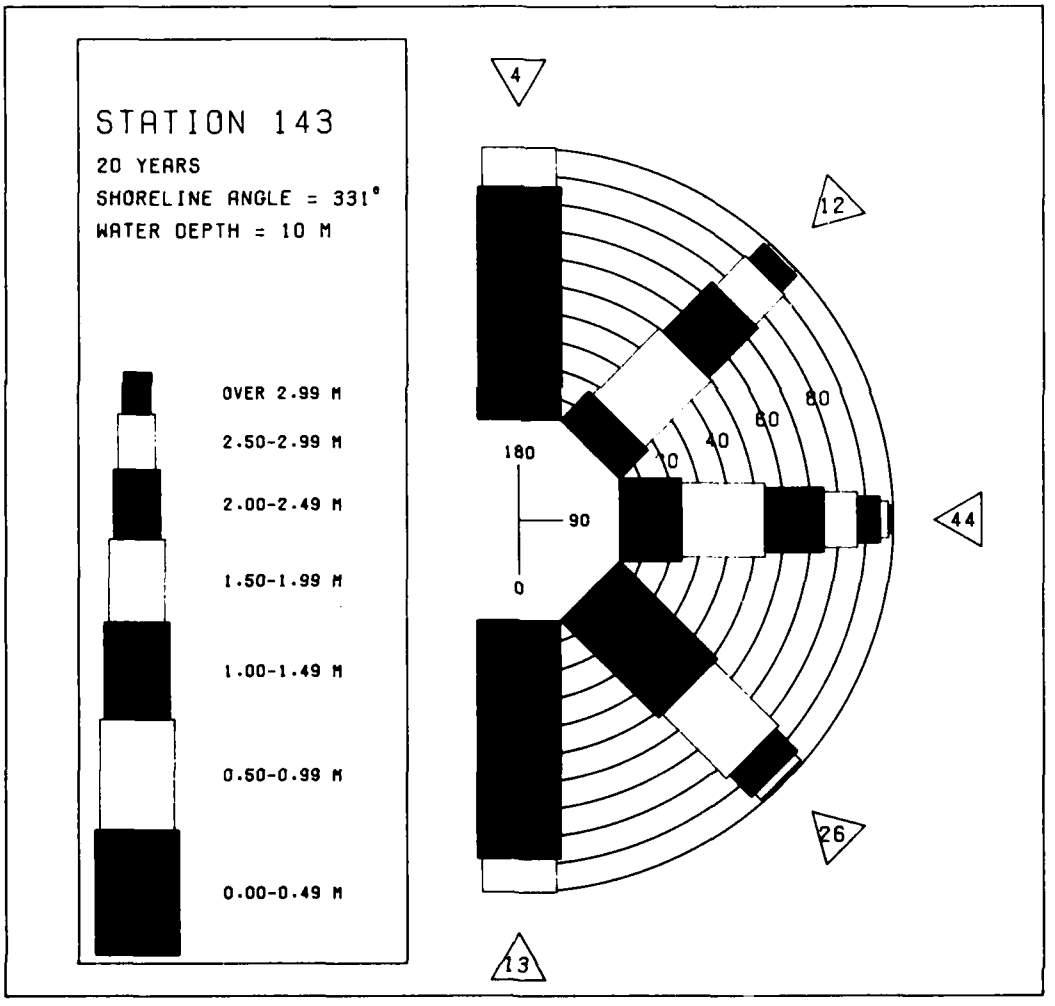
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	583	785	715	1055	503	15	.	.	.	.	3656
0.50 - 0.99	.	41	494	800	396	54	.	.	.	.	1785
1.00 - 1.49	.	.	5	49	46	.	.	.	.	.	100
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	583	826	1214	1904	945	69	0	0	0	0	

AVERAGE HS(M) = 0.41 LARGEST HS(M) = 1.47 ANGLE CLASS % = 5.5

STATION 143 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 331.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	627	846	376	322	742	730	325	26	15	39	4048
0.50 - 0.99	.	330	903	228	127	681	358	87	63	52	2629
1.00 - 1.49	.	.	145	424	98	354	266	85	112	74	1558
1.50 - 1.99	.	.	.	70	145	258	155	39	62	83	812
2.00 - 2.49	.	.	.	.	35	253	129	20	26	31	494
2.50 - 2.99	.	.	.	.	.	8	89	50	10	15	172
3.00 - 3.49	.	.	.	.	.	.	3	32	14	9	58
3.50 - 3.99	.	.	.	.	.	.	.	1	13	4	18
4.00 - 4.49	.	.	.	.	.	.	.	.	2	1	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	1	1
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	627	1176	1424	1044	1147	2284	1325	320	317	309	

AVE HS(M) = 0.82 LARGEST HS(M) = 5.18 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 143

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.7	0.7	0.6	1.0	0.6	0.4	0.4	0.9	1.9	1.9	1.3	0.9
1957	1.1	1.1	0.7	1.0	0.6	0.5	0.3	0.6	0.8	1.4	1.4	1.0	0.9
1958	1.2	0.6	0.8	0.9	0.7	0.4	0.4	0.3	0.7	1.4	0.8	1.3	0.8
1959	1.1	1.1	1.2	0.9	0.7	0.4	0.5	0.4	1.2	1.1	1.6	1.4	1.0
1960	0.9	0.9	1.0	0.7	0.5	0.7	0.2	0.6	1.2	1.1	1.3	1.2	0.9
1961	1.0	0.8	0.7	0.6	0.7	0.6	0.4	0.7	1.1	1.7	1.0	0.8	0.8
1962	1.1	1.1	1.5	0.9	0.6	0.5	0.3	0.5	0.8	1.1	1.3	1.2	0.9
1963	1.1	1.3	0.9	0.9	0.8	0.4	0.2	0.2	1.4	1.6	1.0	0.9	0.9
1964	0.8	0.8	0.8	0.8	0.7	0.3	0.5	0.5	1.5	1.7	1.2	1.2	0.9
1965	1.0	1.1	0.6	0.7	0.4	0.7	0.3	0.2	1.7	1.3	1.1	1.0	0.8
1966	1.2	1.1	0.9	0.7	0.7	0.9	0.7	0.5	0.5	1.1	1.4	0.9	0.9
1967	0.8	0.9	1.0	1.1	0.6	0.7	0.4	0.5	1.2	1.1	0.9	0.8	0.8
1968	1.1	0.7	0.6	0.4	0.4	0.5	0.2	0.1	0.3	0.7	0.4	0.5	0.5
1969	1.3	1.3	0.8	0.8	1.0	0.5	0.3	0.7	1.0	1.7	1.5	0.8	1.0
1970	1.1	1.0	0.7	0.7	0.7	0.5	0.2	0.4	0.6	1.6	0.8	0.5	0.7
1971	0.8	0.7	0.7	0.5	0.4	0.2	0.3	0.4	0.9	1.0	1.3	1.4	0.7
1972	1.0	1.2	0.7	0.8	1.2	0.6	0.5	0.3	0.8	1.6	1.1	0.9	0.9
1973	1.0	1.2	1.0	0.6	0.4	0.5	0.1	0.2	0.4	1.4	1.2	1.0	0.7
1974	0.5	0.7	0.4	0.5	0.3	0.3	0.3	0.3	0.5	2.1	1.7	0.9	0.7
1975	0.9	0.5	0.7	0.6	0.2	0.1	0.6	0.1	0.5	0.6	1.1	1.0	0.6
MEAN	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.9	1.4	1.2	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 143

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.9	2.6	2.7	1.6	2.8	1.1	0.8	0.9	2.9	3.8	3.6	2.1
1957	2.6	2.9	1.9	2.5	2.3	1.7	0.8	2.1	1.9	2.5	3.4	2.5
1958	3.9	1.9	2.4	2.5	2.1	1.4	1.5	1.3	2.2	3.4	2.1	3.0
1959	2.3	2.8	3.0	2.2	2.1	1.3	1.2	1.1	3.2	2.6	3.1	3.2
1960	2.0	2.9	2.2	2.3	2.3	2.3	0.9	1.9	3.2	2.5	2.5	2.8
1961	2.4	2.5	2.1	2.3	1.7	1.9	1.0	1.6	3.3	2.9	2.7	2.0
1962	3.1	2.8	5.2	2.4	2.2	1.5	1.3	2.1	2.8	2.9	3.5	5.0
1963	2.5	3.7	2.9	2.3	2.6	2.4	0.8	1.1	4.3	4.2	2.9	3.3
1964	2.4	2.1	1.8	2.3	3.2	0.9	2.0	2.1	4.3	4.1	2.9	2.9
1965	2.9	2.4	2.3	2.4	1.0	1.7	1.5	0.9	3.8	4.3	2.5	2.9
1966	2.5	3.1	2.5	2.0	2.5	2.1	2.3	2.3	1.4	2.7	3.3	2.6
1967	2.1	2.7	2.7	2.7	2.3	1.8	1.1	1.0	2.8	2.4	2.8	2.4
1968	3.7	1.9	2.0	1.1	1.4	2.7	0.8	0.5	1.0	2.5	1.8	2.3
1969	2.8	3.4	2.3	2.4	2.2	1.6	0.9	2.2	3.3	3.6	3.5	2.1
1970	3.0	2.4	2.3	1.7	2.0	1.6	1.0	1.4	2.1	4.3	2.5	2.0
1971	2.4	2.1	2.1	1.9	1.3	1.1	1.3	1.5	2.6	3.7	2.8	4.7
1972	3.3	3.5	2.4	3.4	3.6	2.2	1.9	0.7	2.4	3.3	2.5	2.6
1973	2.7	4.4	3.0	1.7	1.4	1.8	0.4	0.9	2.1	3.2	3.7	2.5
1974	2.5	2.4	1.9	1.5	1.0	0.9	0.9	1.0	3.0	4.3	2.9	2.0
1975	2.4	2.5	1.9	2.0	0.9	1.0	3.0	0.6	2.1	2.4	2.6	3.1

LARGEST HS(METRES) FOR STATION 143 = 5.2

STATION 144 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 330.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2554	3872	2614	1543	684	494	10	.	.	.	11771
0.50 - 0.99	1	364	1846	781	282	201	.	.	.	.	3475
1.00 - 1.49	.	.	32	114	53	1	.	.	.	.	200
1.50 - 1.99	.	.	.	1	1	.	.	.	.	.	2
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2555	4236	4492	2439	1020	696	10	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.58 ANGLE CLASS % = 15.5

STATION 144 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 330.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1312	1771	.	.	2895	4924	1646	61	13	.	12622
0.50 - 0.99	.	1442	3006	388	150	489	249	.	155	.	5879
1.00 - 1.49	.	.	410	1326	249	172	41	.	92	.	2290
1.50 - 1.99	.	.	.	90	236	203	3	.	47	.	579
2.00 - 2.49	.	.	.	.	23	107	.	5	6	.	141
2.50 - 2.99	.	.	.	.	.	.	10	1	.	.	11
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1312	3213	3416	1804	3553	5895	1949	67	313	0	

AVERAGE HS(M) = 0.53 LARGEST HS(M) = 2.87 ANGLE CLASS % = 21.5

STATION 144 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 330.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	693	857	.	.	1139	1310	1196	189	727	509	6620
0.50 - 0.99	.	829	1791	70	118	1409	2000	910	284	679	8090
1.00 - 1.49	.	.	441	1081	123	410	1078	641	571	1216	5561
1.50 - 1.99	.	.	.	236	455	347	311	119	246	845	2559
2.00 - 2.49	.	.	.	.	135	735	227	46	85	278	1506
2.50 - 2.99	.	.	.	.	.	37	244	54	63	80	478
3.00 - 3.49	.	.	.	.	.	.	6	58	6	23	93
3.50 - 3.99	.	.	.	.	.	.	.	.	3	5	8
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	693	1686	2232	1387	1970	4248	5062	2017	1985	3636	

AVERAGE HS(M) = 0.97 LARGEST HS(M) = 4.00 ANGLE CLASS % = 24.9

STATION 144 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 330.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	492	525			1168	2529	544	70	77	22	5427
0.50 - 0.99	.	735	1444	61	131	3733	1591	340	118	23	8176
1.00 - 1.49	.	.	521	1163	100	1694	1642	326	107	34	5587
1.50 - 1.99	.	.	.	297	614	967	987	116	78	52	3111
2.00 - 2.49	.	.	.	1	195	1425	708	68	34	37	2468
2.50 - 2.99	.	.	.	.	.	77	675	59	29	6	846
3.00 - 3.49	.	.	.	.	.	.	29	155	22	.	206
3.50 - 3.99	.	.	.	.	.	.	.	6	1	.	7
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	492	1260	1965	1522	2208	10445	6176	1140	466	154	

AVERAGE HS(M) = 1.10 LARGEST HS(M) = 3.65 ANGLE CLASS % = 25.9

STATION 144 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 330.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	268	318			174	337	53	1	.	.	1151
0.50 - 0.99	.	306	980	294	88	456	53	6	.	.	2183
1.00 - 1.49	.	.	189	795	438	455	42	3	.	.	1922
1.50 - 1.99	.	.	.	70	275	766	102	.	.	.	1213
2.00 - 2.49	.	.	.	.	37	366	135	.	.	.	538
2.50 - 2.99	.	.	.	.	1	11	44	.	.	.	56
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	268	624	1169	1159	1013	2391	429	10	0	0	

AVERAGE HS(M) = 1.11 LARGEST HS(M) = 2.95 ANGLE CLASS % = 7.1

STATION 144 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 330.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

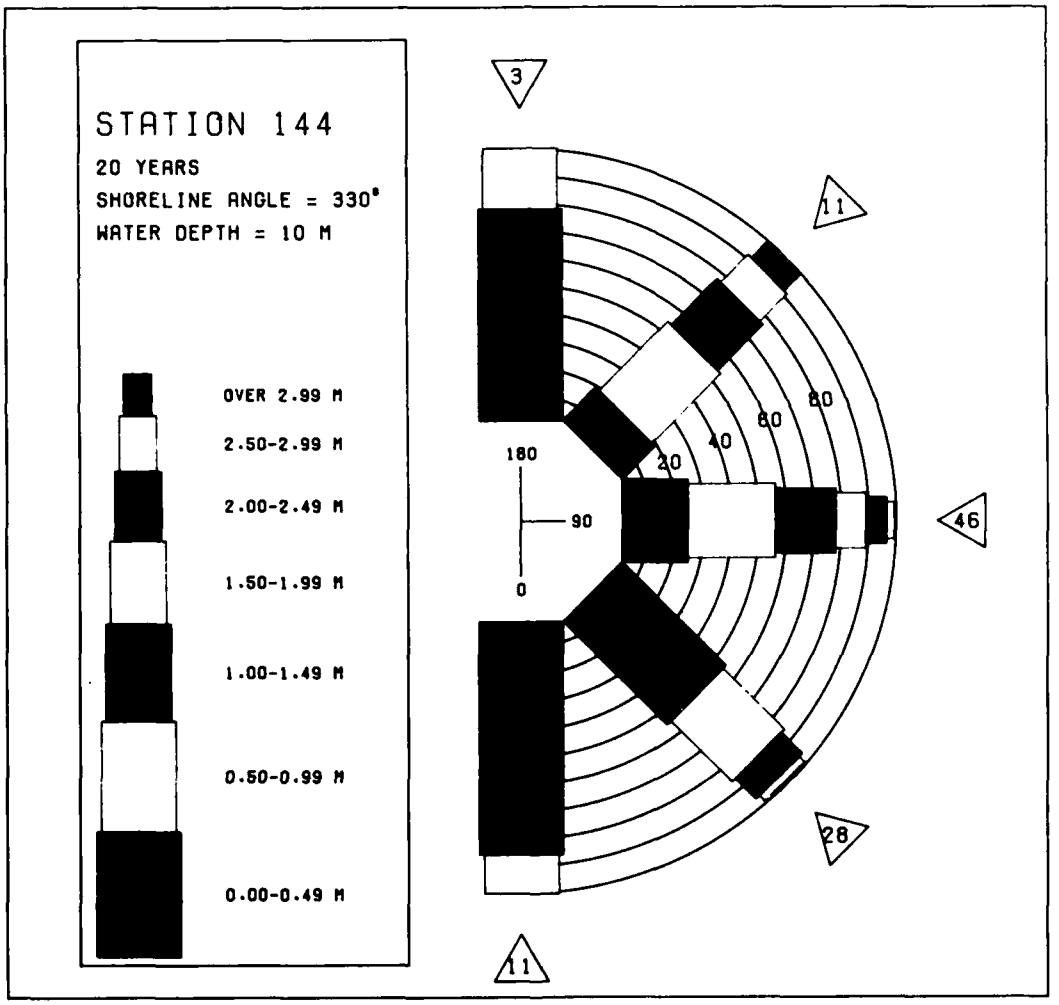
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	367	634	634	836	345	.	.	.	.	.	2816
0.50 - 0.99	.	47	450	1218	337	.	.	.	.	.	2052
1.00 - 1.49	.	.	6	215	37	.	.	.	.	.	258
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	367	681	1090	2269	719	0	0	0	0	0	

AVERAGE HS(M) = 0.49 LARGEST HS(M) = 1.39 ANGLE CLASS % = 5.1

STATION 144 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 330.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	568	797	324	238	640	959	344	32	81	53	4036
0.50 - 0.99	.	372	951	281	110	629	389	125	55	70	2982
1.00 - 1.49	.	.	160	469	100	273	280	97	77	125	1581
1.50 - 1.99	.	.	.	69	158	230	140	23	37	87	744
2.00 - 2.49	.	.	.	.	39	263	107	11	12	31	463
2.50 - 2.99	.	.	.	.	.	12	97	11	9	8	137
3.00 - 3.49	.	.	.	.	.	.	3	21	2	2	28
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	568	1169	1435	1057	1047	2366	1360	320	273	376	

AVE HS(M) = 0.79 LARGEST HS(M) = 4.00 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 144

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.7	0.7	0.6	1.0	0.5	0.3	0.3	0.8	1.[illegible]	1.9	1.4	0.9
1957	1.0	1.1	0.7	1.0	0.6	0.5	0.3	0.5	0.7	1.4	1.4	1.0	0.9
1958	1.2	0.6	0.7	0.8	0.7	0.4	0.5	0.3	0.7	1.4	0.8	1.2	0.8
1959	1.1	1.1	1.2	0.9	0.7	0.4	0.5	0.5	1.1	0.9	1.6	1.3	0.9
1960	0.8	0.9	1.0	0.8	0.5	0.6	0.2	0.6	1.2	1.0	1.2	1.2	0.8
1961	1.0	0.7	0.7	0.7	0.6	0.6	0.4	0.6	1.0	1.5	1.0	0.8	0.8
1962	1.1	1.0	1.3	0.9	0.6	0.5	0.3	0.5	0.8	1.0	1.1	1.1	0.8
1963	1.0	1.2	0.9	1.0	0.9	0.5	0.3	0.3	1.3	1.6	1.0	0.9	0.9
1964	0.8	0.7	0.8	0.8	0.7	0.3	0.5	0.5	1.3	1.7	1.2	1.1	0.9
1965	0.9	1.0	0.6	0.7	0.4	0.7	0.4	0.3	1.7	1.2	1.3	1.0	0.8
1966	1.1	1.1	0.9	0.7	0.7	0.9	0.6	0.5	0.5	1.1	1.4	0.9	0.9
1967	0.7	0.9	1.0	1.0	0.5	0.6	0.3	0.4	1.1	1.1	0.9	0.8	0.8
1968	1.0	0.6	0.6	0.4	0.4	0.5	0.2	0.1	0.3	0.7	0.4	0.6	0.5
1969	1.2	1.1	0.7	0.8	0.9	0.4	0.3	0.6	0.9	1.5	1.4	0.8	0.9
1970	1.0	0.9	0.7	0.7	0.7	0.5	0.3	0.3	0.6	1.6	0.8	0.5	0.7
1971	0.7	0.7	0.6	0.5	0.4	0.3	0.3	0.4	0.8	0.9	1.3	1.4	0.7
1972	0.9	1.1	0.7	0.8	1.1	0.7	0.5	0.3	0.8	1.5	1.1	0.9	0.9
1973	1.0	1.1	0.9	0.7	0.4	0.5	0.1	0.3	0.4	1.3	1.4	1.2	0.8
1974	0.5	0.7	0.4	0.5	0.3	0.3	0.3	0.4	0.5	2.0	1.5	0.9	0.7
1975	0.8	0.5	0.6	0.5	0.2	0.1	0.4	0.1	0.5	0.6	1.0	1.0	0.5
MEAN	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.9	1.3	1.2	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 144

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.7	2.5	2.4	1.6	2.5	1.1	0.9	0.9	2.8	3.4	3.2	2.2
1957	2.6	2.9	1.9	2.4	1.9	1.4	0.8	1.8	1.8	2.6	3.4	2.4
1958	3.7	2.0	1.9	2.3	2.1	1.3	1.4	1.2	1.9	2.9	2.2	3.0
1959	2.4	2.4	3.0	2.1	2.0	1.3	1.3	1.1	2.9	2.5	3.1	3.3
1960	1.9	2.5	2.3	2.3	2.2	2.5	0.8	1.8	3.1	2.4	2.5	2.9
1961	2.5	2.4	1.9	2.3	1.7	1.6	0.9	1.5	2.9	2.6	2.7	1.7
1962	2.8	2.6	3.1	2.3	2.2	1.4	1.1	2.0	2.5	2.7	2.6	4.0
1963	2.5	3.5	2.9	2.4	2.4	2.3	1.0	1.0	3.6	3.4	2.6	3.2
1964	2.5	2.2	1.8	1.9	3.1	0.9	2.0	2.4	3.1	3.3	2.7	2.7
1965	2.7	2.1	2.4	2.3	1.0	1.7	1.3	1.0	3.4	3.1	2.5	2.4
1966	2.4	3.3	2.4	2.0	2.3	2.2	2.3	2.3	1.3	2.8	2.9	2.5
1967	2.0	2.7	2.7	2.7	2.0	1.6	1.3	1.0	2.4	2.3	2.8	2.4
1968	2.8	1.9	2.1	1.0	1.4	2.5	0.6	0.7	1.1	2.5	1.7	2.3
1969	2.7	2.4	2.1	2.3	2.3	1.3	0.9	2.0	2.8	3.3	3.2	2.1
1970	2.9	2.5	1.9	1.9	2.1	2.0	1.0	1.3	2.1	3.3	2.6	2.0
1971	2.5	2.1	2.3	1.7	1.1	1.1	1.2	1.5	2.6	3.1	2.8	3.6
1972	3.1	3.0	2.3	2.8	2.2	2.1	1.7	0.8	2.3	3.3	2.5	2.7
1973	2.8	2.8	2.4	1.7	1.4	1.7	0.5	1.0	2.1	3.0	3.5	2.3
1974	2.5	2.5	2.0	1.7	0.9	0.7	0.8	0.9	2.4	3.9	2.9	1.7
1975	2.4	2.2	1.9	2.1	0.6	0.8	1.6	0.6	1.7	2.5	2.6	2.9

LARGEST HS(METRES) FOR STATION 144 = 4.0

STATION 145 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2631	3976	2660	1591	720	549	1	.	.	.	12128
0.50 - 0.99	1	376	1854	768	236	184	.	.	.	.	3419
1.00 - 1.49	.	.	41	126	56	.	.	.	.	.	223
1.50 - 1.99	.	.	.	1	.	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2632	4352	4555	2486	1012	733	1	0	0	0	

AVERAGE HS(M) = 0.31 LARGEST HS(M) = 1.62 ANGLE CLASS % = 15.8

STATION 145 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1255	1788	.	.	3033	5054	1670	61	10	.	12871
0.50 - 0.99	.	1437	3150	414	109	444	219	.	157	.	5930
1.00 - 1.49	.	.	420	1348	272	148	25	.	85	.	2298
1.50 - 1.99	.	.	.	111	275	203	5	.	49	.	643
2.00 - 2.49	.	.	.	.	23	116	.	5	6	.	150
2.50 - 2.99	.	.	.	.	.	1	6	1	.	.	8
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1255	3225	3570	1873	3712	5966	1925	67	307	0	

AVERAGE HS(M) = 0.53 LARGEST HS(M) = 2.87 ANGLE CLASS % = 21.9

STATION 145 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	689	758	.	.	1285	1478	1249	193	734	518	6904
0.50 - 0.99	.	797	1663	73	135	1762	2067	925	319	687	8428
1.00 - 1.49	.	.	450	1057	106	617	1271	648	556	1281	5986
1.50 - 1.99	.	.	.	253	453	407	426	140	248	800	2727
2.00 - 2.49	.	.	.	.	154	828	289	83	100	268	1722
2.50 - 2.99	.	.	.	.	.	44	308	85	80	87	604
3.00 - 3.49	.	.	.	.	.	.	8	83	22	18	131
3.50 - 3.99	.	.	.	.	.	.	.	.	5	5	10
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	689	1555	2113	1383	2133	5136	5618	2157	2064	3665	

AVERAGE HS(M) = 0.99 LARGEST HS(M) = 4.00 ANGLE CLASS % = 26.5

STATION 145 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	432	499			1076	2416	527	68	77	20	5115
0.50 - 0.99	.	670	1351	51	126	3432	1478	325	121	23	7577
1.00 - 1.49	.	.	465	1113	100	1558	1404	304	94	27	5065
1.50 - 1.99	.	.	.	272	586	994	867	85	65	30	2899
2.00 - 2.49	.	.	.	1	198	1433	674	34	20	5	2365
2.50 - 2.99	.	.	.	.	.	87	643	30	8	.	768
3.00 - 3.49	.	.	.	.	.	.	27	128	8	.	163
3.50 - 3.99	.	.	.	.	.	.	.	6	.	.	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	432	1169	1816	1437	2086	9920	5620	980	393	105	

AVERAGE HS(M) = 1.10 LARGEST HS(M) = 3.65 ANGLE CLASS % = 24.0

STATION 145 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	241	308	3	.	198	309	47	1	.	.	1107
0.50 - 0.99	.	292	900	338	80	412	37	3	.	.	2062
1.00 - 1.49	.	.	196	857	448	436	46	.	.	.	1983
1.50 - 1.99	.	.	.	65	273	633	88	3	.	.	1062
2.00 - 2.49	.	.	.	.	37	381	119	.	.	.	537
2.50 - 2.99	.	.	.	.	1	11	49	.	.	.	61
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	241	600	1099	1260	1037	2182	386	7	0	0	

AVERAGE HS(M) = 1.10 LARGEST HS(M) = 2.97 ANGLE CLASS % = 6.8

STATION 145 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

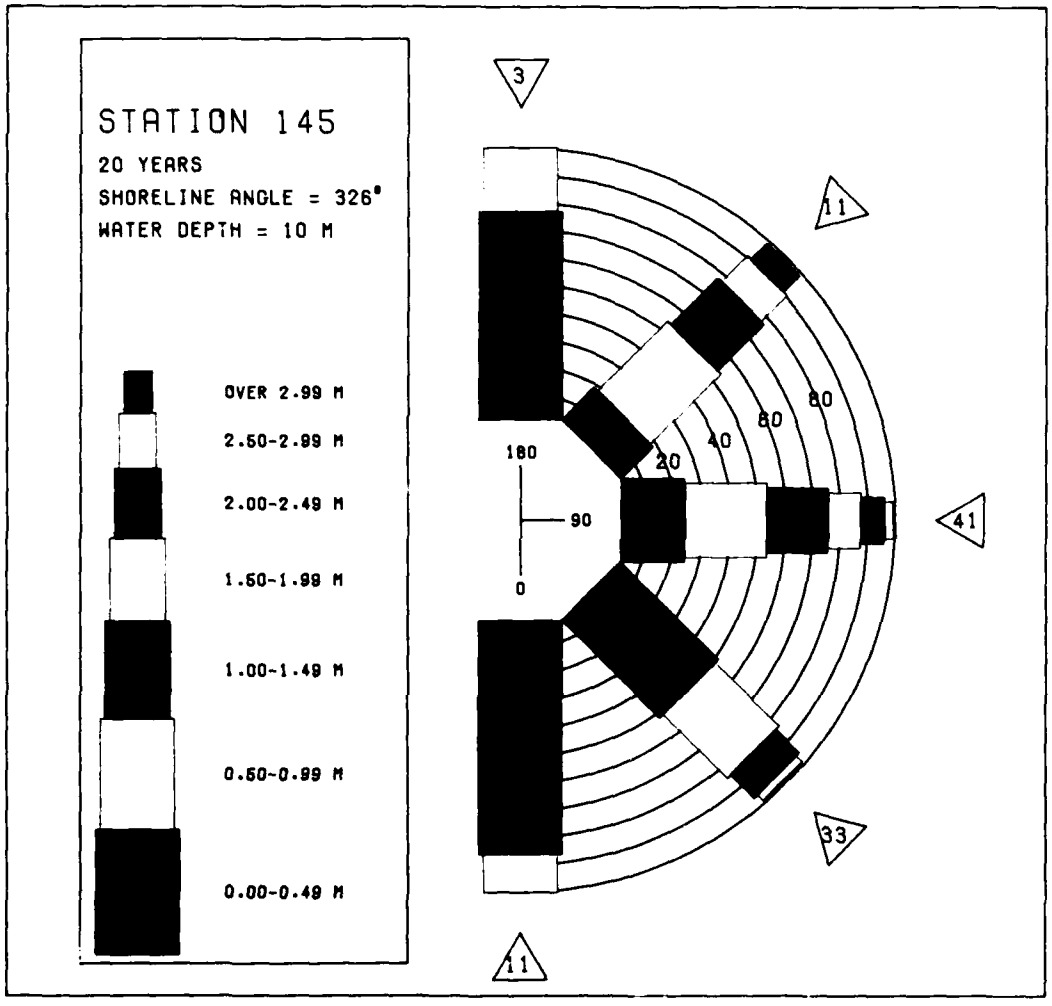
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	362	610	634	754	261	.	.	.	.	.	2621
0.50 - 0.99	.	46	473	1213	347	.	.	.	.	.	2079
1.00 - 1.49	.	.	6	215	32	.	.	.	.	.	253
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	362	656	1113	2182	640	0	0	0	0	0	

AVERAGE HS(M) = 0.51 LARGEST HS(M) = 1.39 ANGLE CLASS % = 5.0

STATION 145 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 326.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	561	794	329	234	657	980	349	32	82	53	4071
0.50 - 0.99	.	362	939	285	103	623	320	125	59	71	2947
1.00 - 1.49	.	.	158	471	101	276	274	55	73	130	1578
1.50 - 1.99	.	.	.	70	158	223	138	22	36	83	730
2.00 - 2.49	.	.	.	.	41	276	108	12	12	27	476
2.50 - 2.99	.	.	.	.	.	14	100	11	8	8	141
3.00 - 3.49	.	.	.	.	.	.	3	21	3	1	28
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	561	1156	1426	1060	1060	2392	1352	318	273	373	

AVE HS(M) = 0.79 LARGEST HS(M) = 4.00 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 145

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.8	0.7	0.7	0.6	1.0	0.5	0.3	0.3	0.8	1.8	1.8	1.3	0.9
1957	1.0	1.1	0.7	1.0	0.6	0.5	0.2	0.5	0.7	1.4	1.4	1.0	0.9
1958	1.2	0.7	0.7	0.8	0.7	0.4	0.5	0.3	0.7	1.4	0.8	1.2	0.8
1959	1.1	1.1	1.2	0.9	0.6	0.4	0.5	0.4	1.1	0.9	1.6	1.4	0.9
1960	0.8	0.9	1.0	0.8	0.5	0.6	0.2	0.6	1.2	1.0	1.2	1.2	0.8
1961	1.0	0.7	0.6	0.7	0.6	0.6	0.4	0.6	1.0	1.5	1.0	0.8	0.8
1962	1.1	1.0	1.3	0.9	0.6	0.5	0.3	0.5	0.8	1.0	1.2	1.1	0.8
1963	1.0	1.2	0.9	1.0	0.9	0.5	0.3	0.3	1.3	1.6	1.0	0.9	0.9
1964	0.8	0.7	0.8	0.8	0.7	0.3	0.5	0.5	1.3	1.7	1.2	1.1	0.9
1965	0.9	1.0	0.6	0.7	0.4	0.7	0.3	0.3	1.7	1.2	1.2	1.0	0.8
1966	1.2	1.1	0.9	0.7	0.7	0.9	0.6	0.5	0.5	1.1	1.4	0.9	0.9
1967	0.8	0.9	1.0	1.0	0.5	0.6	0.3	0.4	1.1	1.1	0.9	0.8	0.8
1968	1.0	0.6	0.6	0.4	0.4	0.5	0.2	0.1	0.3	0.7	0.4	0.6	0.5
1969	1.2	1.1	0.7	0.8	0.9	0.4	0.3	0.6	0.9	1.5	1.4	0.7	0.9
1970	1.1	0.9	0.7	0.7	0.7	0.5	0.2	0.3	0.6	1.6	0.8	0.5	0.7
1971	0.7	0.7	0.7	0.5	0.4	0.3	0.3	0.4	0.8	0.9	1.3	1.4	0.7
1972	0.9	1.1	0.7	0.8	1.1	0.7	0.5	0.3	0.8	1.5	1.1	0.9	0.9
1973	1.0	1.1	0.9	0.7	0.4	0.4	0.1	0.2	0.4	1.4	1.4	1.2	0.8
1974	0.5	0.7	0.4	0.5	0.3	0.3	0.3	0.4	0.5	1.9	1.5	0.9	0.7
1975	0.8	0.5	0.6	0.5	0.2	0.1	0.4	0.1	0.5	0.6	1.0	1.0	0.5
MEAN	0.9	0.9	0.8	0.7	0.6	0.5	0.3	0.4	0.9	1.3	1.2	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 145

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.7	2.5	2.5	1.8	2.5	1.1	0.9	0.9	2.9	3.4	3.2	2.2
1957	2.6	2.9	2.0	2.4	2.0	1.4	0.8	1.8	1.8	2.6	3.4	2.4
1958	3.7	2.0	1.9	2.5	2.1	1.3	1.4	1.2	1.9	2.9	2.2	2.9
1959	2.4	2.4	3.0	2.1	2.0	1.3	1.3	1.1	2.9	2.5	3.1	3.3
1960	2.0	2.4	2.3	2.4	2.2	2.5	0.8	2.0	3.0	2.4	2.5	2.9
1961	2.5	2.4	1.8	2.3	1.8	1.7	0.9	1.5	2.9	2.6	2.7	1.9
1962	2.8	2.7	3.1	2.4	2.2	1.4	1.1	2.1	2.5	2.8	3.0	4.0
1963	2.5	3.5	2.9	2.4	2.4	2.4	1.0	1.0	3.6	3.4	2.6	3.1
1964	2.5	2.2	1.9	1.9	3.1	0.9	2.0	2.4	3.2	3.3	2.7	2.7
1965	2.7	2.1	2.4	2.3	1.0	1.7	1.3	1.0	3.4	3.1	2.5	2.6
1966	2.4	3.2	2.4	2.0	2.3	2.2	2.3	2.4	1.3	2.8	2.9	2.5
1967	2.0	2.7	2.7	2.7	2.0	1.6	1.2	1.0	2.4	2.3	2.9	2.4
1968	2.8	1.9	2.1	1.0	1.4	2.5	0.6	0.7	1.1	2.5	1.9	2.5
1969	2.7	2.5	2.2	2.3	2.2	1.3	0.9	2.1	2.8	3.3	3.2	2.1
1970	2.9	2.5	2.0	1.9	2.1	2.0	1.0	1.3	2.1	3.4	2.6	2.0
1971	2.6	2.1	2.3	1.7	1.2	1.1	1.2	1.4	2.6	3.1	2.8	3.6
1972	3.1	3.0	2.3	2.8	2.3	2.1	1.7	0.8	2.3	3.3	2.5	2.7
1973	2.9	2.8	2.4	1.7	1.4	1.7	0.5	0.9	2.1	3.0	3.5	2.3
1974	2.5	2.6	2.0	1.7	0.8	0.7	0.8	0.9	2.5	3.9	2.9	1.7
1975	2.4	2.2	2.0	2.1	0.6	0.8	1.6	0.6	1.7	2.5	2.6	2.9

LARGEST HS(METRES) FOR STATION 145 = 4.0

STATION 146 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2417	3690	2465	1449	586	398	.	.	.	.	11005
0.50 - 0.99	1	335	1839	793	319	222	.	.	.	.	3509
1.00 - 1.49	.	.	25	109	41	.	.	.	.	.	175
1.50 - 1.99	.	.	.	1	3	.	.	.	.	.	4
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	2418	4025	4329	2352	949	620	0	0	0	0	

AVERAGE HS(M) = 0.33 LARGEST HS(M) = 1.72 ANGLE CLASS % = 14.7

STATION 146 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1232	1676	.	.	2500	4883	1649	65	.	.	12005
0.50 - 0.99	.	1442	2893	354	154	643	301	1	.	.	5988
1.00 - 1.49	.	.	374	1244	272	249	53	.	.	.	2192
1.50 - 1.99	.	.	.	80	220	201	1	.	.	.	502
2.00 - 2.49	.	.	.	.	22	99	.	.	.	.	122
2.50 - 2.99	.	.	.	.	.	.	3	5	.	.	8
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	1232	3118	3267	1678	3168	6275	2007	72	0	0	

AVERAGE HS(M) = 0.54 LARGEST HS(M) = 2.87 ANGLE CLASS % = 20.8

STATION 146 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	742	924	.	.	876	343	819	184	679	479	5046
0.50 - 0.99	.	942	1892	63	94	726	1264	811	385	660	6839
1.00 - 1.49	.	.	439	1124	109	239	754	527	504	1115	4811
1.50 - 1.99	.	.	.	224	381	244	222	61	234	756	2122
2.00 - 2.49	.	.	.	.	107	537	131	10	56	177	1018
2.50 - 2.99	.	.	.	.	.	27	155	32	17	56	287
3.00 - 3.49	.	.	.	.	.	.	1	41	3	15	60
3.50 - 3.99	.	.	.	.	.	.	.	.	1	3	4
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											
TOTAL	742	1866	2331	1411	1567	2118	3346	1666	1879	3261	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 3.95 ANGLE CLASS % = 20.2

STATION 146 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	583	641			1623	3350	917	87	107	46	7354
0.50 - 0.99	.	882	1637	63	165	4252	2373	443	179	46	10040
1.00 - 1.49	.	.	550	1273	118	1719	1928	448	284	138	6458
1.50 - 1.99	.	.	.	338	681	1004	1052	160	145	121	3501
2.00 - 2.49	.	.	.	1	210	1445	734	104	71	123	2688
2.50 - 2.99	.	.	.	.	.	70	727	78	73	39	987
3.00 - 3.49	.	.	.	.	.	.	30	174	29	5	238
3.50 - 3.99	.	.	.	.	.	.	.	6	1	3	10
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	583	1523	2187	1675	2797	11840	7761	1500	889	521	

AVERAGE HS(M) = 1.06 LARGEST HS(M) = 3.97 ANGLE CLASS % = 31.3

STATION 146 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	263	357			215	390	27	.	.	.	1252
0.50 - 0.99	.	326	1062	273	118	443	18	3	.	.	2243
1.00 - 1.49	.	.	232	800	408	580	58	.	.	.	2078
1.50 - 1.99	.	.	.	77	249	886	133	.	.	.	1345
2.00 - 2.49	.	.	.	.	35	326	172	.	.	.	533
2.50 - 2.99	.	.	.	.	1	6	34	.	.	.	41
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	263	683	1294	1150	1026	2631	442	3	0	0	

AVERAGE HS(M) = 1.10 LARGEST HS(M) = 2.95 ANGLE CLASS % = 7.5

STATION 146 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

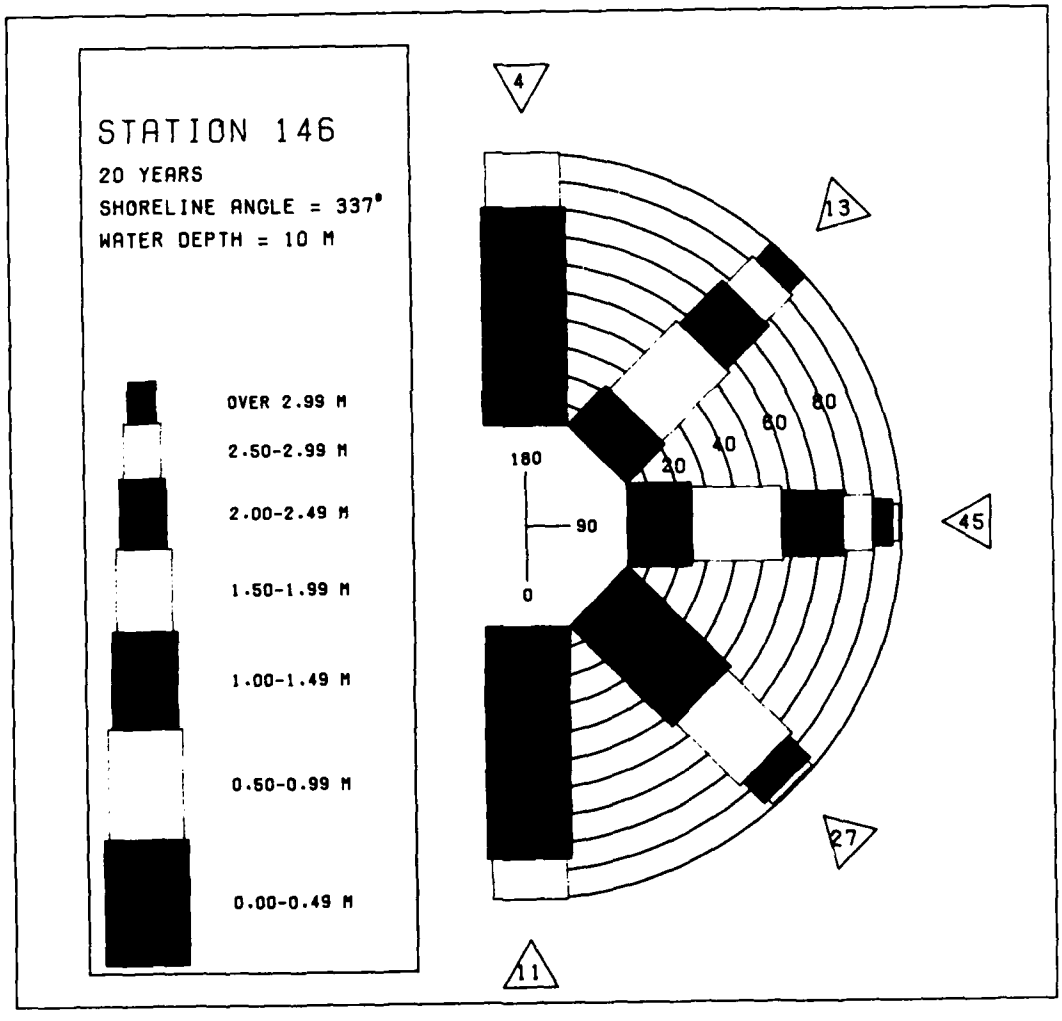
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	381	597	633	1091	588	1	.	.	.	.	3291
0.50 - 0.99	.	35	470	1167	390	3	.	.	.	.	2065
1.00 - 1.49	.	.	3	71	13	.	.	.	.	.	87
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	381	632	1106	2329	991	4	0	0	0	0	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 1.35 ANGLE CLASS % = 5.5

STATION 146 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	562	788	309	254	639	936	341	33	78	52	3992
0.50 - 0.99	.	396	979	271	124	649	335	125	56	70	3065
1.00 - 1.49	.	.	162	462	94	278	279	97	78	125	1577
1.50 - 1.99	.	.	.	72	153	233	140	22	37	87	744
2.00 - 2.49	.	.	.	.	37	240	103	11	12	30	433
2.50 - 2.99	.	.	.	.	.	10	92	11	9	9	131
3.00 - 3.49	.	.	.	.	.	.	3	21	3	2	29
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	562	1184	1450	1059	1049	2346	1353	320	273	375	

AVE HS(M) = 0.79 LARGEST HS(M) = 3.97 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 146

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.7	0.7	0.7	0.6	1.0	0.5	0.3	0.3	0.8	1.8	1.8	1.4	0.9
1957	1.0	1.1	0.6	1.1	0.6	0.5	0.3	0.5	0.8	1.4	1.4	1.0	0.9
1958	1.2	0.6	0.7	0.8	0.7	0.4	0.5	0.3	0.7	1.3	0.8	1.2	0.8
1959	1.0	1.1	1.2	0.9	0.7	0.4	0.5	0.5	1.1	0.9	1.6	1.3	0.9
1960	0.8	0.9	0.9	0.8	0.5	0.7	0.3	0.6	1.2	1.1	1.2	1.2	0.8
1961	1.0	0.7	0.7	0.6	0.7	0.6	0.4	0.6	1.0	1.5	1.0	0.7	0.8
1962	1.1	1.0	1.3	0.9	0.6	0.5	0.3	0.5	0.8	1.0	1.1	1.0	0.8
1963	1.0	1.2	0.9	1.0	0.9	0.6	0.3	0.3	1.2	1.6	0.9	0.8	0.9
1964	0.7	0.7	0.8	0.8	0.7	0.3	0.5	0.5	1.3	1.7	1.2	1.1	0.9
1965	0.9	1.0	0.6	0.7	0.4	0.7	0.4	0.3	1.7	1.2	1.2	1.0	0.8
1966	1.1	1.1	0.9	0.7	0.7	0.9	0.7	0.6	0.5	1.0	1.3	0.8	0.9
1967	0.7	0.9	1.0	1.0	0.6	0.6	0.4	0.4	1.1	1.1	0.9	0.8	0.8
1968	1.0	0.5	0.6	0.4	0.4	0.5	0.2	0.1	0.3	0.7	0.4	0.5	0.5
1969	1.2	1.0	0.7	0.8	1.0	0.4	0.3	0.6	0.9	1.5	1.4	0.7	0.9
1970	1.0	0.9	0.7	0.7	0.7	0.5	0.3	0.4	0.6	1.6	0.7	0.5	0.7
1971	0.7	0.7	0.6	0.5	0.5	0.3	0.4	0.4	0.8	0.9	1.3	1.4	0.7
1972	0.9	1.0	0.7	0.8	1.1	0.7	0.5	0.4	0.8	1.5	1.1	0.9	0.9
1973	0.9	1.0	0.9	0.7	0.4	0.5	0.1	0.3	0.4	1.3	1.4	1.2	0.8
1974	0.5	0.6	0.4	0.5	0.3	0.3	0.4	0.4	0.5	2.0	1.5	0.9	0.7
1975	0.8	0.5	0.6	0.5	0.2	0.1	0.4	0.1	0.5	0.6	1.0	0.9	0.5
MEAN	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.9	1.3	1.2	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 146

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.6	2.5	2.3	1.6	2.5	1.1	0.9	0.8	2.8	3.4	3.2	2.2
1957	2.6	2.9	1.8	2.5	1.9	1.5	0.8	1.8	1.8	2.6	3.4	2.4
1958	3.7	1.9	2.0	2.2	2.1	1.4	1.4	1.2	1.9	2.9	2.2	3.0
1959	2.4	2.4	3.1	2.1	2.0	1.2	1.3	1.1	2.8	2.5	3.1	3.3
1960	1.8	2.5	2.1	2.3	2.1	2.5	0.8	1.7	3.1	2.3	2.5	2.8
1961	2.5	2.4	1.9	2.3	1.7	1.5	0.9	1.5	2.9	2.6	2.7	1.8
1962	2.7	2.6	3.0	2.4	2.2	1.4	1.1	2.0	2.5	2.7	2.6	4.0
1963	2.5	3.5	2.9	2.4	2.4	2.3	1.0	1.0	3.6	3.4	2.6	3.2
1964	2.4	2.1	1.8	1.9	3.0	1.0	2.0	2.4	3.1	3.2	2.7	2.7
1965	2.7	2.2	2.3	2.3	1.0	1.6	1.2	1.0	3.4	3.0	2.5	2.4
1966	2.4	3.3	2.4	2.0	2.2	2.2	2.3	2.2	1.3	2.8	2.9	2.5
1967	2.0	2.5	2.7	2.7	1.9	1.6	1.3	1.0	2.4	2.3	2.8	2.2
1968	2.8	1.9	2.1	1.0	1.4	2.4	0.6	0.7	1.1	2.5	1.7	2.2
1969	2.6	2.4	1.9	2.3	2.3	1.3	0.9	2.0	2.8	3.3	3.3	2.2
1970	2.9	2.5	1.9	1.9	2.3	2.0	1.0	1.3	2.1	3.3	2.4	1.9
1971	2.4	2.1	2.2	1.7	1.2	1.1	1.2	1.5	2.6	3.1	2.8	3.6
1972	3.1	3.0	2.2	2.8	2.2	2.1	1.7	0.8	2.3	3.3	2.5	2.6
1973	2.8	2.8	2.4	1.7	1.6	1.9	0.5	1.0	2.1	3.0	3.5	2.2
1974	2.4	2.3	2.0	1.7	1.0	0.8	0.7	0.8	2.4	4.0	2.9	1.8
1975	2.4	2.2	1.9	1.9	0.7	0.8	1.6	0.6	1.7	2.5	2.6	2.9

LARGEST HS(METRES) FOR STATION 146 = 4.0

STATION 147 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	.	.	.	.	.	.	.	.	.	.	0
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	0	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0. LARGEST HS(M) = 0. ANGLE CLASS % = 0.

STATION 147 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1030	2541	1815	689	254	157	5	.	.	.	6491
0.50 - 0.99	.	155	1276	776	302	268	10	.	.	.	2787
1.00 - 1.49	.	.	10	124	172	181	8	.	.	.	495
1.50 - 1.99	.	.	.	.	23	39	.	.	.	.	62
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1030	2696	3101	1589	751	645	23	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 2.00 ANGLE CLASS % = 9.8

STATION 147 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	912	1312	.	.	1271	4339	581	17	22	.	8454
0.50 - 0.99	.	1042	2214	254	75	999	569	34	13	.	5200
1.00 - 1.49	.	.	237	1006	183	112	65	1	.	.	1604
1.50 - 1.99	.	.	.	77	246	155	18	5	.	.	501
2.00 - 2.49	.	.	.	.	44	142	.	.	.	.	186
2.50 - 2.99	.	.	.	.	.	1	6	.	.	.	7
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	912	2354	2451	1337	1819	5748	1239	57	35	0	

AVERAGE HS(M) = 0.59 LARGEST HS(M) = 2.84 ANGLE CLASS % = 16.0

STATION 147 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	980	1398	.	.	1031	262	1418	77	1302	2298	8786
0.50 - 0.99	.	1875	3270	121	20	527	1810	737	1096	3032	12488
1.00 - 1.49	.	.	552	1685	184	248	720	655	884	2994	7922
1.50 - 1.99	.	.	.	210	539	292	184	179	244	1930	3578
2.00 - 2.49	.	.	.	.	109	566	201	66	49	465	1456
2.50 - 2.99	.	.	.	.	.	22	112	54	17	75	280
3.00 - 3.49	.	.	.	.	.	.	.	29	3	10	42
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	980	3273	3822	2016	1883	1937	4445	1797	3595	10804	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 3.47 ANGLE CLASS % = 34.6

STATION 147 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	662	1074	10	.	1024	4736	2744	470	374	.	11094
0.50 - 0.99	5	1120	3004	747	193	2914	2419	499	22	.	10923
1.00 - 1.49	.	.	319	1546	682	1245	1125	128	22	.	5067
1.50 - 1.99	.	.	.	112	494	939	468	133	6	.	2152
2.00 - 2.49	.	.	.	1	68	366	371	32	15	.	853
2.50 - 2.99	.	.	.	.	.	5	73	47	3	.	128
3.00 - 3.49	.	.	.	.	.	.	.	6	.	.	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	667	2194	3333	2406	2461	10205	7200	1315	442	0	

AVERAGE HS(M) = 0.77 LARGEST HS(M) = 3.24 ANGLE CLASS % = 30.2

STATION 147 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

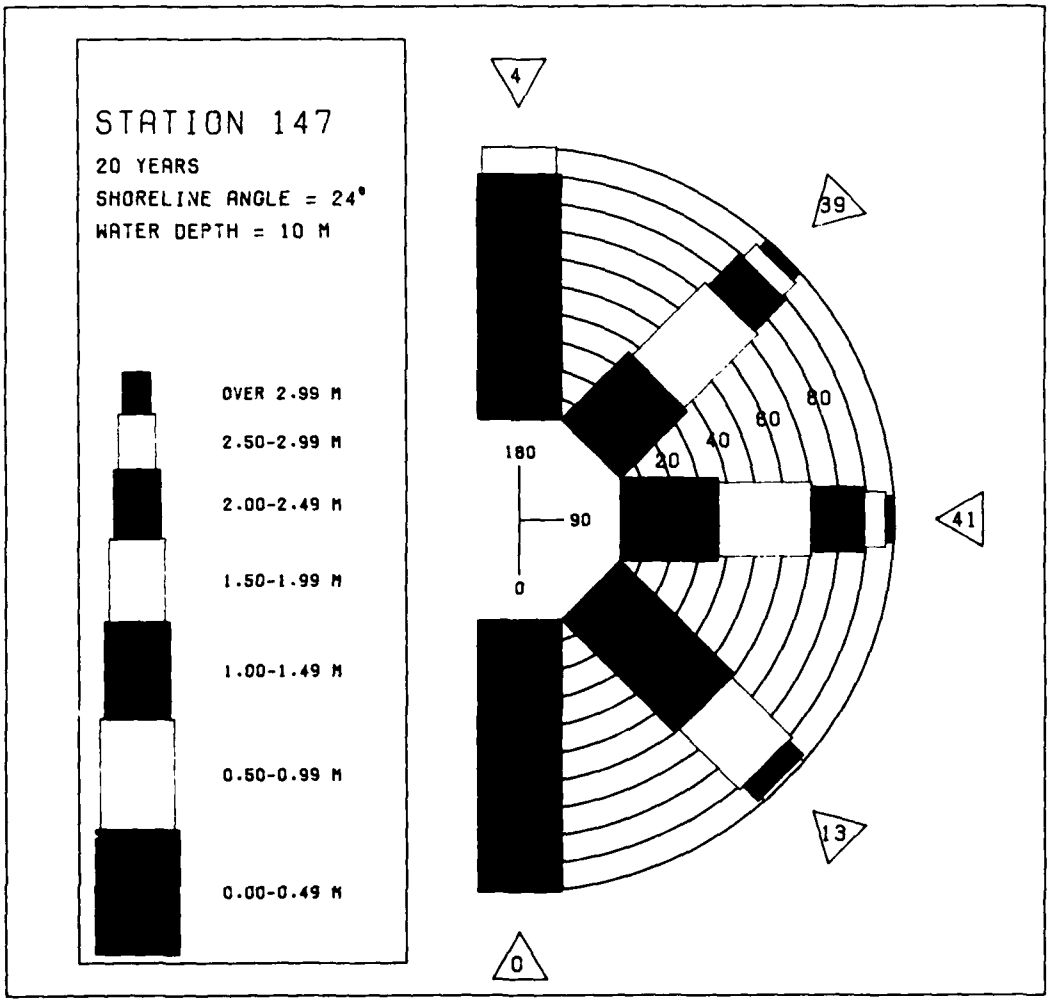
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	434	924	879	1273	751	321	.	.	.	.	4582
0.50 - 0.99	.	109	924	506	224	248	.	.	.	.	2011
1.00 - 1.49	.	.	13	44	27	.	.	.	.	.	84
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	434	1033	1816	1823	1002	569	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.42 ANGLE CLASS % = 6.7

STATION 147 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 24.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	401	725	270	196	433	983	475	56	169	229	3937
0.50 - 0.99	.	430	1068	240	81	495	481	127	113	303	3338
1.00 - 1.49	.	.	113	440	125	178	191	78	90	299	1514
1.50 - 1.99	.	.	.	40	130	142	67	31	25	193	628
2.00 - 2.49	.	.	.	.	22	107	57	9	6	46	247
2.50 - 2.99	.	.	.	.	.	2	19	10	2	7	40
3.00 - 3.49	.	.	.	.	.	.	.	3	.	1	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	401	1155	1451	916	791	1907	1290	314	405	1078	

AVE HS(M) = 0.71 LARGEST HS(M) = 3.47 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 147

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.5	0.6	0.5	0.5	0.9	0.5	0.4	0.3	0.8	1.6	1.5	1.2	0.8
1957	0.8	0.9	0.5	1.1	0.7	0.6	0.3	0.5	0.7	1.0	1.2	1.1	0.8
1958	1.0	0.5	0.8	0.7	0.7	0.4	0.6	0.2	0.6	1.2	0.8	0.9	0.7
1959	0.8	0.8	1.1	1.0	0.7	0.4	0.5	0.5	0.8	0.8	1.1	1.0	0.8
1960	0.5	0.7	0.6	0.7	0.4	0.6	0.3	0.6	1.2	0.8	0.9	0.8	0.7
1961	0.9	0.7	0.6	0.5	0.6	0.5	0.4	0.6	0.7	1.1	0.7	0.6	0.7
1962	0.8	0.7	0.9	0.8	0.4	0.5	0.3	0.4	0.9	0.7	0.6	0.7	0.6
1963	0.7	0.8	0.7	1.1	0.9	0.6	0.5	0.5	1.0	1.1	0.7	0.7	0.8
1964	0.5	0.5	0.6	0.7	0.5	0.3	0.5	0.5	1.0	1.5	1.2	1.0	0.7
1965	0.7	0.9	0.5	0.5	0.4	0.7	0.4	0.3	1.9	1.8	1.8	1.4	0.9
1966	1.4	1.3	1.2	1.1	1.1	1.2	1.1	0.9	0.4	0.9	1.0	0.6	1.0
1967	0.6	0.5	0.9	0.9	0.5	0.5	0.4	0.4	0.8	0.9	0.9	0.8	0.7
1968	0.8	0.3	0.5	0.3	0.4	0.5	0.2	0.1	0.3	0.7	0.3	0.3	0.4
1969	0.9	0.6	0.5	0.8	0.8	0.4	0.3	0.5	0.7	1.3	1.3	0.7	0.7
1970	0.7	0.7	0.7	0.6	0.7	0.5	0.3	0.4	0.6	1.4	0.5	0.4	0.6
1971	0.5	0.7	0.4	0.4	0.5	0.3	0.4	0.4	0.6	0.7	1.0	1.3	0.6
1972	0.9	0.7	0.6	0.7	0.9	0.7	0.6	0.4	0.6	1.3	1.1	1.0	0.8
1973	0.7	0.7	0.8	0.9	0.6	0.5	0.3	0.4	0.5	1.1	1.4	1.3	0.8
1974	0.4	0.5	0.3	0.5	0.4	0.4	0.4	0.4	0.5	1.9	1.6	1.0	0.7
1975	0.6	0.5	0.5	0.4	0.2	0.1	0.4	0.2	0.6	0.6	0.8	0.8	0.5
MEAN	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.8	1.1	1.0	0.9	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 147

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.9	2.3	1.4	1.3	2.3	1.2	1.1	0.7	2.2	3.1	2.8	1.7
1957	2.4	2.2	1.4	2.4	1.6	1.5	1.1	1.4	1.4	2.2	2.9	2.2
1958	2.7	1.2	2.3	1.6	1.8	1.4	1.3	1.2	1.4	2.5	2.0	2.7
1959	2.4	2.3	2.9	1.9	2.1	1.2	1.6	1.1	2.5	2.4	2.5	2.6
1960	1.5	2.4	2.0	1.6	1.5	1.7	1.2	1.5	3.2	1.7	2.1	1.9
1961	2.4	2.3	1.8	1.9	1.5	1.3	1.1	1.4	2.1	2.4	2.2	1.8
1962	2.0	1.5	2.0	2.3	1.5	1.3	0.9	1.6	2.4	1.7	3.3	2.8
1963	1.9	2.4	2.5	2.1	2.1	1.7	1.1	1.0	3.0	3.0	2.5	3.0
1964	1.7	2.4	1.4	1.5	2.0	1.0	2.1	2.2	2.1	2.6	2.4	2.4
1965	2.1	2.3	2.1	1.3	1.3	1.4	1.0	0.9	3.3	2.9	2.6	2.3
1966	2.2	2.7	2.0	2.0	2.1	2.4	2.2	1.7	1.3	2.5	2.1	1.9
1967	2.0	1.6	2.5	2.5	1.4	1.2	1.4	0.9	1.8	2.1	2.2	1.8
1968	2.6	1.5	1.8	0.9	1.5	2.2	0.5	0.8	0.9	2.4	1.0	1.6
1969	2.1	2.1	1.9	2.3	2.0	1.3	1.1	1.4	2.1	3.1	3.1	2.0
1970	2.5	2.1	1.9	1.3	2.4	2.0	1.2	1.3	1.7	2.7	1.6	1.8
1971	1.6	1.9	1.3	1.4	1.5	1.0	0.9	1.4	1.8	2.1	2.3	3.5
1972	2.3	2.5	2.0	2.2	2.1	2.2	1.6	1.0	1.8	2.9	2.2	2.2
1973	2.3	2.2	2.4	2.0	2.1	2.1	0.6	1.2	1.9	2.5	3.1	2.2
1974	1.7	2.4	1.9	1.8	1.2	1.0	0.8	0.8	1.4	3.4	2.6	1.7
1975	2.2	1.7	1.9	1.8	0.8	0.7	1.1	0.7	1.6	2.2	2.5	2.3

LARGEST HS(METRES) FOR STATION 147 = 3.5

STATION 148 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 354.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	441	1148	1108	441	106	.	.	.	.	.	3244
0.50 - 0.99	.	.	71	3	.	.	.	.	.	.	74
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	441	1148	1179	444	106	0	0	0	0	0	

AVERAGE HS(M) = 0.20 LARGEST HS(M) = 0.69 ANGLE CLASS % = 3.3

STATION 148 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 354.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1134	2120	369	87	1663	4970	177	.	.	.	10520
0.50 - 0.99	.	975	2765	659	287	1122	268	.	.	.	6276
1.00 - 1.49	.	.	219	768	248	239	25	1	.	.	1500
1.50 - 1.99	.	.	.	49	140	121	6	.	.	.	316
2.00 - 2.49	.	.	.	.	20	34	1	.	.	.	55
2.50 - 2.99	.	.	.	.	.	.	1	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1134	3095	3353	1763	2358	6486	478	1	0	0	

AVERAGE HS(M) = 0.53 LARGEST HS(M) = 2.52 ANGLE CLASS % = 18.7

STATION 148 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 354.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	648	920	.	.	1074	231	1579	78	877	165	5572
0.50 - 0.99	.	1255	2258	75	22	441	1372	525	951	2332	9231
1.00 - 1.49	.	.	443	1182	75	172	607	504	776	2789	6548
1.50 - 1.99	.	.	.	191	374	133	109	150	188	1957	3102
2.00 - 2.49	.	.	.	.	70	241	44	51	11	621	1038
2.50 - 2.99	.	.	.	.	.	11	35	15	11	77	149
3.00 - 3.49	.	.	.	.	.	.	.	5	3	11	19
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	648	2175	2701	1448	1615	1229	3746	1328	2817	7952	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 3.30 ANGLE CLASS % = 25.7

STATION 148 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 354.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	706	1072	1	231	917	1885	2515	426	835	1952	10308
0.50 - 0.99	5	1372	2960	231	89	3004	2917	710	250	799	12353
1.00 - 1.49	.	.	597	1719	292	1057	1796	439	196	200	6296
1.50 - 1.99	.	.	.	282	780	982	768	164	95	152	3223
2.00 - 2.49	.	.	.	.	251	1226	682	142	58	85	2357
2.50 - 2.99	.	.	.	.	.	66	501	58	41	32	700
3.00 - 3.49	.	.	.	.	.	.	13	109	8	20	150
3.50 - 3.99	.	.	.	.	.	.	.	5	3	5	13
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	711	2444	3557	2232	2339	8263	9064	2053	1492	3245	

AVERAGE HS(M) = 0.94 LARGEST HS(M) = 3.83 ANGLE CLASS % = 35.4

STATION 148 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 354.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	395	835	728	1208	1035	2571	162	1	.	.	6934
0.50 - 0.99	.	162	1151	677	376	1654	333	.	.	.	4354
1.00 - 1.49	.	.	35	311	207	905	292	.	.	.	1750
1.50 - 1.99	.	.	.	6	87	470	183	3	.	.	749
2.00 - 2.49	.	.	.	.	5	20	44	.	.	.	69
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	395	997	1914	2202	1710	5620	1014	4	0	0	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 2.43 ANGLE CLASS % = 13.9

STATION 148 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 354.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

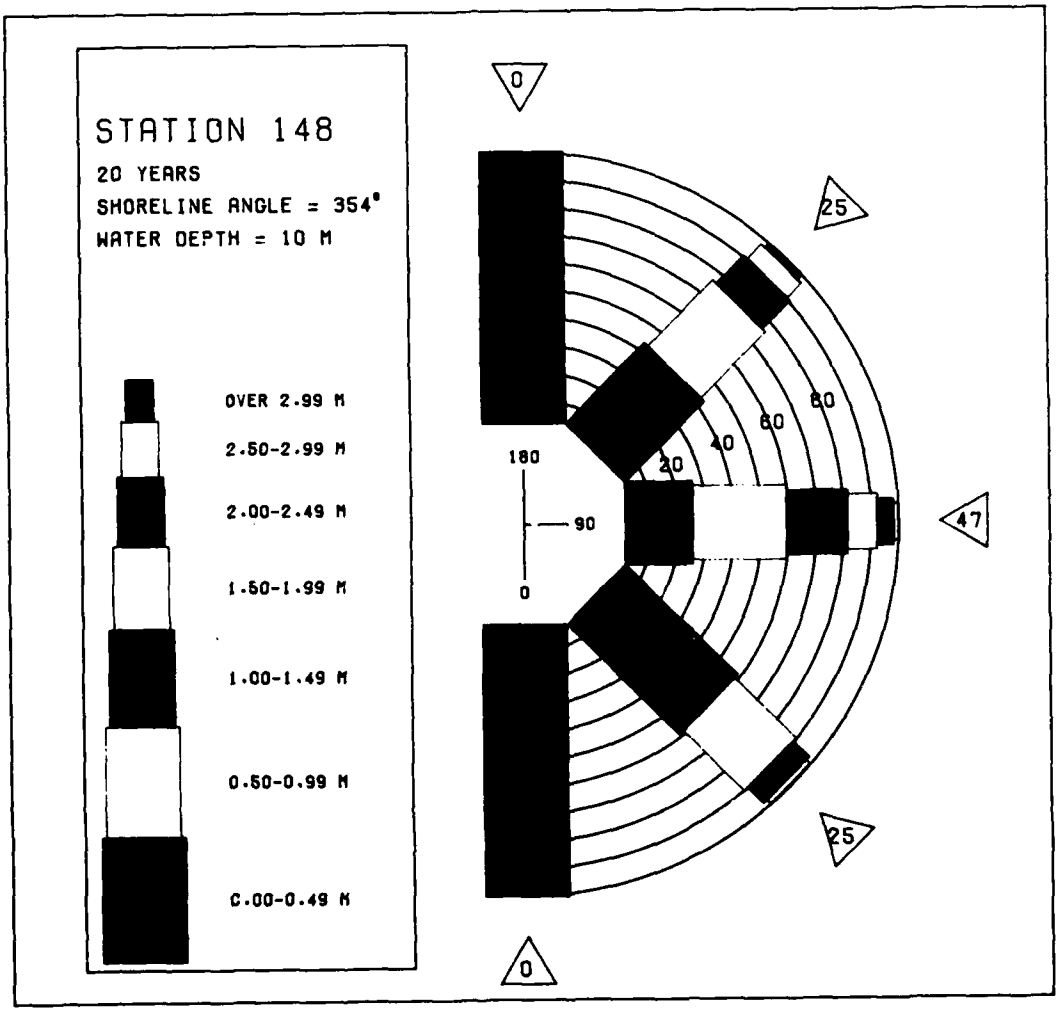
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3	.	.	.	.	.	.	.	.	.	3
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3	0	0	0	0	0	0	0	0	0	

AVERAGE HS(M) = 0.01 LARGEST HS(M) = 0.01 ANGLE CLASS % = 0.0

STATION 148 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 354.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	332	609	220	173	479	965	443	50	171	211	3653
0.50 - 0.99	.	376	920	184	78	622	489	123	120	313	3225
1.00 - 1.49	.	.	129	398	82	237	272	94	97	298	1607
1.50 - 1.99	.	.	.	53	138	170	106	31	28	210	736
2.00 - 2.49	.	.	.	.	34	156	64	19	7	70	350
2.50 - 2.99	.	.	.	.	.	7	54	7	5	10	83
3.00 - 3.49	.	.	.	.	.	.	1	11	1	3	16
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	332	985	1269	808	811	2157	1429	335	429	1115	

AVE HS(M) = 0.77 LARGEST HS(M) = 3.83 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 148

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.6	0.6	0.6	0.9	0.5	0.3	0.3	0.9	1.7	1.7	1.3	0.8
1957	0.9	1.0	0.5	1.1	0.7	0.6	0.3	0.5	0.7	1.1	1.3	1.1	0.8
1958	1.1	0.5	0.8	0.8	0.7	0.4	0.6	0.2	0.6	1.3	0.9	1.0	0.7
1959	0.9	0.9	1.2	1.1	0.7	0.3	0.5	0.5	1.0	0.9	1.3	1.1	0.9
1960	0.6	0.7	0.7	0.8	0.4	0.6	0.3	0.6	1.2	0.9	1.0	0.9	0.7
1961	1.0	0.7	0.6	0.6	0.6	0.5	0.4	0.6	0.8	1.3	0.8	0.7	0.7
1962	0.9	0.8	1.0	0.8	0.5	0.5	0.3	0.4	0.9	0.8	0.7	0.8	0.7
1963	0.8	0.9	0.8	1.2	1.0	0.6	0.5	0.5	1.2	1.3	0.8	0.7	0.8
1964	0.6	0.5	0.7	0.8	0.6	0.3	0.5	0.5	1.1	1.6	1.3	1.1	0.8
1965	0.8	0.9	0.5	0.6	0.4	0.7	0.4	0.3	2.0	1.9	1.9	1.6	1.0
1966	1.5	1.4	1.2	1.1	1.1	1.3	1.1	1.0	0.4	0.9	1.2	0.7	1.1
1967	0.6	0.6	1.0	1.0	0.5	0.6	0.4	0.4	0.9	1.0	1.0	0.8	0.7
1968	1.0	0.4	0.5	0.4	0.4	0.6	0.2	0.1	0.3	0.7	0.3	0.4	0.4
1969	1.1	0.7	0.6	0.8	0.9	0.4	0.3	0.6	0.8	1.5	1.4	0.7	0.8
1970	0.8	0.8	0.7	0.6	0.7	0.5	0.3	0.3	0.6	1.5	0.6	0.4	0.7
1971	0.5	0.6	0.4	0.5	0.4	0.3	0.4	0.4	0.7	0.8	1.1	1.4	0.6
1972	1.0	0.8	0.7	0.8	1.0	0.7	0.6	0.4	0.7	1.5	1.1	1.1	0.9
1973	0.8	0.8	0.9	0.9	0.6	0.7	0.4	0.5	0.6	1.3	1.5	1.4	0.9
1974	0.5	0.5	0.4	0.5	0.3	0.4	0.4	0.4	0.5	2.1	1.7	1.1	0.7
1975	0.7	0.6	0.5	0.5	0.2	0.2	0.4	0.2	0.6	0.6	0.8	0.9	0.5
MEAN	0.8	0.7	0.7	0.8	0.6	0.5	0.4	0.4	0.8	1.2	1.1	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 148

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.2	2.3	1.7	1.4	2.4	1.2	1.1	0.8	2.8	3.3	3.0	1.8
1957	2.5	2.6	1.5	2.5	1.6	1.6	1.0	1.5	1.5	2.5	3.3	2.4
1958	3.3	1.4	2.2	1.6	2.1	1.4	1.3	1.2	1.5	2.8	2.0	2.9
1959	2.6	2.3	3.0	2.0	2.2	1.2	1.6	1.1	2.7	2.5	2.9	3.0
1960	1.6	2.3	2.1	1.8	1.8	2.1	0.8	1.5	3.1	2.0	2.4	2.4
1961	2.5	2.2	1.8	1.9	1.5	1.2	1.1	1.5	2.6	2.5	2.4	1.7
1962	2.6	2.0	2.5	2.4	1.7	1.4	1.0	1.7	2.3	2.5	3.8	3.3
1963	2.2	3.0	2.9	2.3	2.2	2.1	1.1	1.0	3.2	3.7	2.5	2.9
1964	2.0	2.4	1.3	1.6	2.4	1.0	2.0	2.2	2.4	3.0	2.6	2.6
1965	2.4	2.2	2.1	1.7	1.3	1.4	1.0	0.9	3.4	3.1	2.7	2.5
1966	2.4	3.1	2.2	2.0	2.2	2.4	2.2	2.0	1.4	2.7	2.6	2.2
1967	2.1	1.9	2.7	2.8	1.4	1.4	1.4	0.9	2.2	2.1	2.6	1.7
1968	2.9	1.8	2.1	0.9	1.6	2.2	0.6	0.8	1.0	2.4	1.0	1.6
1969	2.3	2.1	2.1	2.4	2.0	1.3	1.1	1.6	2.3	3.3	3.3	1.7
1970	2.6	2.1	1.7	1.4	2.4	2.0	1.2	1.2	2.0	3.0	1.8	1.9
1971	2.0	1.9	1.4	1.5	1.3	1.0	1.1	1.4	2.1	2.6	2.5	3.5
1972	2.5	2.9	2.1	2.6	2.2	2.1	1.6	0.9	2.1	3.1	2.4	2.6
1973	2.3	2.4	2.4	2.1	2.1	1.9	0.6	1.2	1.9	3.0	3.4	2.3
1974	2.1	2.4	2.1	1.9	0.9	0.9	0.8	0.8	1.8	3.8	2.8	1.7
1975	2.2	1.9	1.8	1.7	0.7	0.7	1.4	0.7	1.4	2.4	2.6	2.6

LARGEST HS(METRES) FOR STATION 148 = 3.8

STATION 149 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1777	3620	1966	749	342	258	.	.	.	.	8712
0.50 - 0.99	.	357	1791	809	253	181	.	.	.	.	3391
1.00 - 1.49	.	.	27	121	49	3	.	.	.	.	200
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1777	3977	3784	1679	644	442	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.37 ANGLE CLASS % = 12.3

STATION 149 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1125	1702	.	.	657	2002	431	1	.	.	5918
0.50 - 0.99	.	1404	2953	287	30	133	32	.	.	.	4839
1.00 - 1.49	.	.	482	1273	253	136	3	.	.	.	2147
1.50 - 1.99	.	.	.	100	261	136	.	1	.	.	498
2.00 - 2.49	.	.	.	.	30	56	.	.	.	.	86
2.50 - 2.99	.	.	.	.	.	1	3	.	.	.	4
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1125	3106	3435	1660	1231	2464	469	2	0	0	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 2.81 ANGLE CLASS % = 13.5

STATION 149 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	770	1086	.	.	1242	328	273	68	107	318	4192
0.50 - 0.99	.	1093	2354	100	35	142	359	148	181	143	4555
1.00 - 1.49	.	.	602	1425	119	54	47	174	46	65	2532
1.50 - 1.99	.	.	.	251	573	100	23	51	18	1	1017
2.00 - 2.49	.	.	.	1	155	398	13	17	5	.	589
2.50 - 2.99	.	.	.	.	.	37	47	1	1	.	86
3.00 - 3.49	.	.	.	.	.	.	3	.	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	770	2179	2956	1777	2124	1059	765	459	358	527	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.06 ANGLE CLASS % = 13.0

STATION 149 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	472	799			1319	4105	3086	345	663	1071	11860
0.50 - 0.99	.	882	2241	143	99	3543	3468	607	4190	2823	17996
1.00 - 1.49	.	.	604	1456	145	1093	1663	268	1783	5119	10131
1.50 - 1.99	.	.	.	345	763	766	732	80	381	840	3907
2.00 - 2.49	.	.	.	.	258	1338	528	47	174	297	2642
2.50 - 2.99	.	.	.	.	.	102	501	51	73	82	809
3.00 - 3.49	.	.	.	.	.	.	17	104	10	22	153
3.50 - 3.99	.	.	.	.	.	.	.	10	3	25	38
4.00 - 4.49	.	.	.	.	.	.	.	.	.	8	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	472	1681	2845	1944	2584	10947	9995	1512	7277	8287	

AVERAGE HS(M) = 0.94 LARGEST HS(M) = 4.42 ANGLE CLASS % = 47.6

STATION 149 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	407	752	282	521	610	460	41	.	.	.	3073
0.50 - 0.99	.	258	1271	862	400	651	97	.	.	.	3539
1.00 - 1.49	.	.	88	444	277	781	114	.	.	.	1704
1.50 - 1.99	.	.	.	27	133	814	165	8	.	.	1147
2.00 - 2.49	.	.	.	.	15	143	157	6	.	.	321
2.50 - 2.99	.	.	.	.	.	.	3	.	.	.	3
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	407	1010	1641	1854	1435	2849	577	14	0	0	

AVERAGE HS(M) = 0.85 LARGEST HS(M) = 2.53 ANGLE CLASS % = 9.8

STATION 149 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

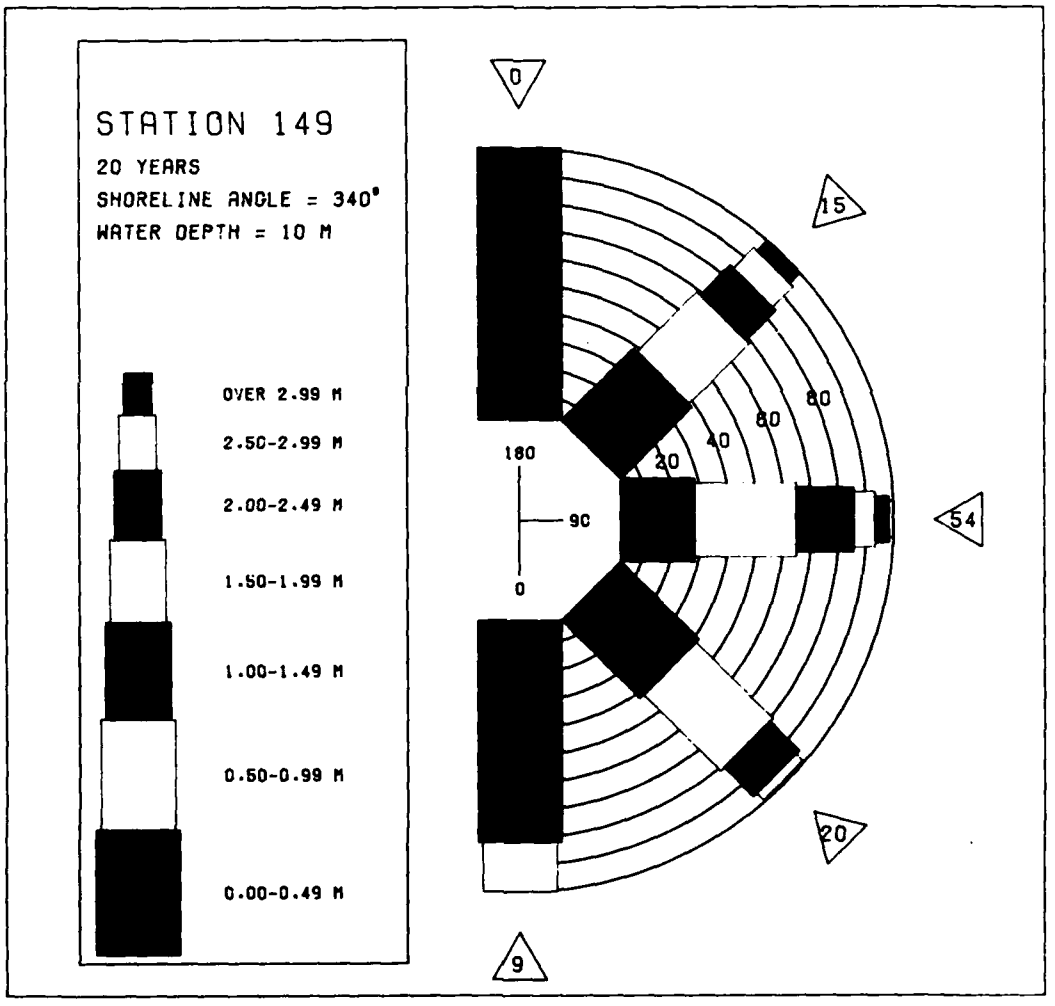
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	142	289	463	936	130	.	.	.	.	.	1960
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	142	289	463	936	130	0	0	0	0	0	

AVERAGE HS(M) = 0.12 LARGEST HS(M) = 0.45 ANGLE CLASS % = 2.0

STATION 149 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 340.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	469	825	271	220	430	715	383	41	77	138	3569
0.50 - 0.99	.	399	1061	220	81	465	395	75	437	296	3429
1.00 - 1.49	.	.	180	472	84	207	182	44	182	318	1669
1.50 - 1.99	.	.	.	72	173	181	92	14	40	84	656
2.00 - 2.49	.	.	.	.	46	193	69	7	17	29	361
2.50 - 2.99	.	.	.	.	.	14	55	5	7	8	89
3.00 - 3.49	.	.	.	.	.	.	2	10	1	2	15
3.50 - 3.99	.	.	.	.	.	.	.	1	.	2	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	469	1224	1512	984	814	1775	1178	197	761	877	

AVE HS(M) = 0.78 LARGEST HS(M) = 4.42 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 149

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.0	0.7	0.8	0.9	0.8	0.5	0.3	0.3	1.1	1.5	1.3	0.7	0.8
1957	0.9	1.0	0.5	0.9	0.6	0.6	0.3	0.5	0.7	1.1	0.9	1.0	0.8
1958	0.9	0.4	0.6	1.4	0.7	0.4	0.6	0.3	0.7	1.1	0.7	1.0	0.7
1959	0.9	0.9	1.1	0.9	0.7	0.3	0.5	0.7	1.1	0.9	1.4	1.2	0.9
1960	0.6	0.7	0.9	0.9	0.5	0.7	0.3	0.6	1.1	0.9	1.1	1.1	0.8
1961	0.8	0.8	0.7	0.8	0.7	0.5	0.4	0.6	0.9	1.4	1.1	1.2	0.8
1962	0.9	1.0	1.4	0.9	0.6	0.6	0.3	0.4	0.8	0.9	1.2	1.0	0.8
1963	0.9	1.0	0.8	0.7	0.8	0.4	0.3	0.2	1.1	1.6	1.0	0.8	0.8
1964	0.7	0.6	0.8	0.8	0.7	0.3	0.5	0.5	1.2	1.3	1.0	1.1	0.8
1965	0.8	0.9	0.5	0.6	0.5	0.7	0.4	0.3	1.3	1.0	0.9	0.9	0.7
1966	0.9	1.0	0.8	0.7	0.7	0.9	0.6	0.5	0.4	1.0	1.3	1.0	0.8
1967	0.7	0.7	0.9	1.1	0.5	0.6	0.4	0.4	1.0	1.1	1.6	1.5	0.9
1968	0.9	0.4	0.6	0.5	0.5	0.6	0.3	0.2	0.4	0.8	0.4	0.5	0.5
1969	1.2	1.0	1.0	1.1	0.9	0.4	0.3	0.6	0.8	1.5	1.0	0.5	0.9
1970	0.9	0.9	0.8	0.6	0.9	0.5	0.3	0.3	0.6	1.4	0.7	0.5	0.7
1971	0.6	0.7	0.5	0.6	0.4	0.3	0.4	0.4	0.8	0.8	1.2	1.4	0.7
1972	0.9	0.9	0.8	1.1	1.1	0.9	0.7	0.6	0.7	1.1	0.7	0.9	0.9
1973	0.9	1.3	1.2	1.4	1.1	1.2	1.0	1.0	1.1	1.6	0.9	0.6	1.1
1974	0.5	0.6	0.4	0.5	0.3	0.3	0.3	0.4	0.5	1.2	0.9	0.8	0.5
1975	0.9	0.7	0.6	0.8	0.2	0.2	0.4	0.2	0.9	0.9	1.0	1.1	0.7
MEAN	0.8	0.8	0.8	0.9	0.7	0.5	0.4	0.4	0.9	1.2	1.0	0.9	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 149

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.5	2.4	2.3	1.4	2.4	1.1	1.0	0.6	3.1	3.4	3.3	1.4
1957	2.6	2.7	1.4	2.4	1.8	1.5	1.0	1.4	1.5	2.6	3.4	2.4
1958	3.8	1.7	2.0	2.3	2.3	1.3	1.4	1.2	1.5	3.3	2.1	2.7
1959	2.7	2.1	3.0	2.2	2.1	1.1	1.5	1.3	2.7	2.4	2.9	2.9
1960	1.6	2.2	2.0	2.2	1.8	2.2	0.9	1.7	2.7	2.0	2.5	2.8
1961	2.4	2.1	1.7	2.1	1.6	1.5	1.0	1.5	2.9	2.5	2.3	2.3
1962	2.5	2.4	2.8	2.3	1.9	1.3	0.8	1.7	2.2	2.7	4.4	3.6
1963	2.3	3.0	2.9	2.4	2.1	2.3	1.0	0.9	3.2	4.2	2.4	2.8
1964	2.3	2.1	1.8	1.7	2.9	1.0	2.0	2.1	2.4	3.0	2.5	2.5
1965	2.5	2.3	2.2	1.7	1.4	1.4	0.9	1.0	3.4	2.5	2.5	2.4
1966	2.2	3.1	2.4	2.3	2.1	2.4	2.1	2.1	1.5	2.8	2.9	2.5
1967	2.1	2.4	2.5	2.7	1.4	1.4	1.2	1.0	2.2	2.1	3.0	2.4
1968	2.8	1.2	2.2	1.0	1.7	2.3	0.6	0.8	1.0	2.2	1.0	2.1
1969	2.4	2.6	1.7	2.4	1.9	1.2	1.0	1.5	2.2	3.1	2.5	1.7
1970	2.6	2.3	2.0	1.5	2.2	1.8	1.3	1.4	2.0	3.1	2.6	1.9
1971	2.4	1.9	2.1	1.7	1.3	1.0	0.9	1.4	2.3	2.6	2.6	3.6
1972	3.0	3.1	2.3	2.7	2.2	2.2	1.9	1.0	1.9	3.0	2.3	2.8
1973	2.6	3.3	2.5	2.4	2.0	2.0	1.1	1.5	2.0	3.2	3.5	1.9
1974	1.9	2.4	1.8	1.9	0.9	0.8	0.7	0.7	1.9	3.8	2.7	1.5
1975	2.4	1.8	1.8	1.9	0.7	0.6	1.6	0.7	1.4	2.4	2.5	2.8

LARGEST HS(METRES) FOR STATION 149 = 4.4

STATION 150 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1796	3615	1978	716	415	321	.	.	.	.	8841
0.50 - 0.99	.	367	1798	766	181	167	.	.	.	.	3276
1.00 - 1.49	.	.	27	119	54	.	.	.	.	.	200
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1796	3982	3803	1601	653	488	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.59 ANGLE CLASS % = 12.3

STATION 150 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1112	1798	.	.	713	2099	25	1	.	.	5748
0.50 - 0.99	.	1435	3080	330	34	124	34	.	.	.	5037
1.00 - 1.49	.	.	561	1404	272	124	3	.	.	.	2364
1.50 - 1.99	.	.	.	112	306	131	.	1	.	.	550
2.00 - 2.49	.	.	.	.	30	66	.	.	.	.	96
2.50 - 2.99	.	.	.	.	.	3	1	.	.	.	4
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1112	3233	3641	1846	1355	2547	63	2	0	0	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 2.86 ANGLE CLASS % = 13.8

STATION 150 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	706	961	.	.	1805	1250	994	78	154	325	6273
0.50 - 0.99	.	994	2270	90	66	802	1054	261	328	160	6025
1.00 - 1.49	.	.	600	1394	118	164	352	232	191	128	3179
1.50 - 1.99	.	.	.	244	602	171	65	47	130	15	1274
2.00 - 2.49	.	.	.	1	219	523	15	17	44	15	834
2.50 - 2.99	.	.	.	.	.	58	87	1	11	20	177
3.00 - 3.49	.	.	.	.	.	.	5	1	1	.	7
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	706	1955	2870	1729	2810	2968	2572	637	859	663	

AVERAGE HS(M) = 0.82 LARGEST HS(M) = 3.34 ANGLE CLASS % = 17.8

STATION 150 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	390	653			912	3550	2890	338	626	1071	10430
0.50 - 0.99	.	800	1935	97	90	3317	2876	520	4062	2787	16484
1.00 - 1.49	.	.	511	1329	114	1170	1435	200	1627	3097	9483
1.50 - 1.99	.	.	.	336	687	840	691	78	272	876	3779
2.00 - 2.49	.	.	.	1	224	1360	588	53	128	284	2638
2.50 - 2.99	.	.	.	.	.	85	516	47	68	75	791
3.00 - 3.49	.	.	.	.	.	.	22	111	13	22	168
3.50 - 3.99	.	.	.	.	.	.	.	11	3	27	41
4.00 - 4.49	.	.	.	.	.	.	.	.	.	8	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	390	1453	2446	1762	2027	10322	9018	1358	6799	8247	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 4.50 ANGLE CLASS % = 43.8

STATION 150 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	369	651	289	528	612	195	11	.	.	.	2655
0.50 - 0.99	.	232	1131	944	306	408	34	.	.	.	3055
1.00 - 1.49	.	.	116	395	304	643	63	.	.	.	1521
1.50 - 1.99	.	.	.	41	119	752	162	5	.	.	1079
2.00 - 2.49	.	.	.	.	11	191	131	3	1	.	337
2.50 - 2.99	.	.	.	.	.	.	10	.	.	.	10
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	369	883	1536	1908	1352	2189	411	8	1	0	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 2.77 ANGLE CLASS % = 8.7

STATION 150 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

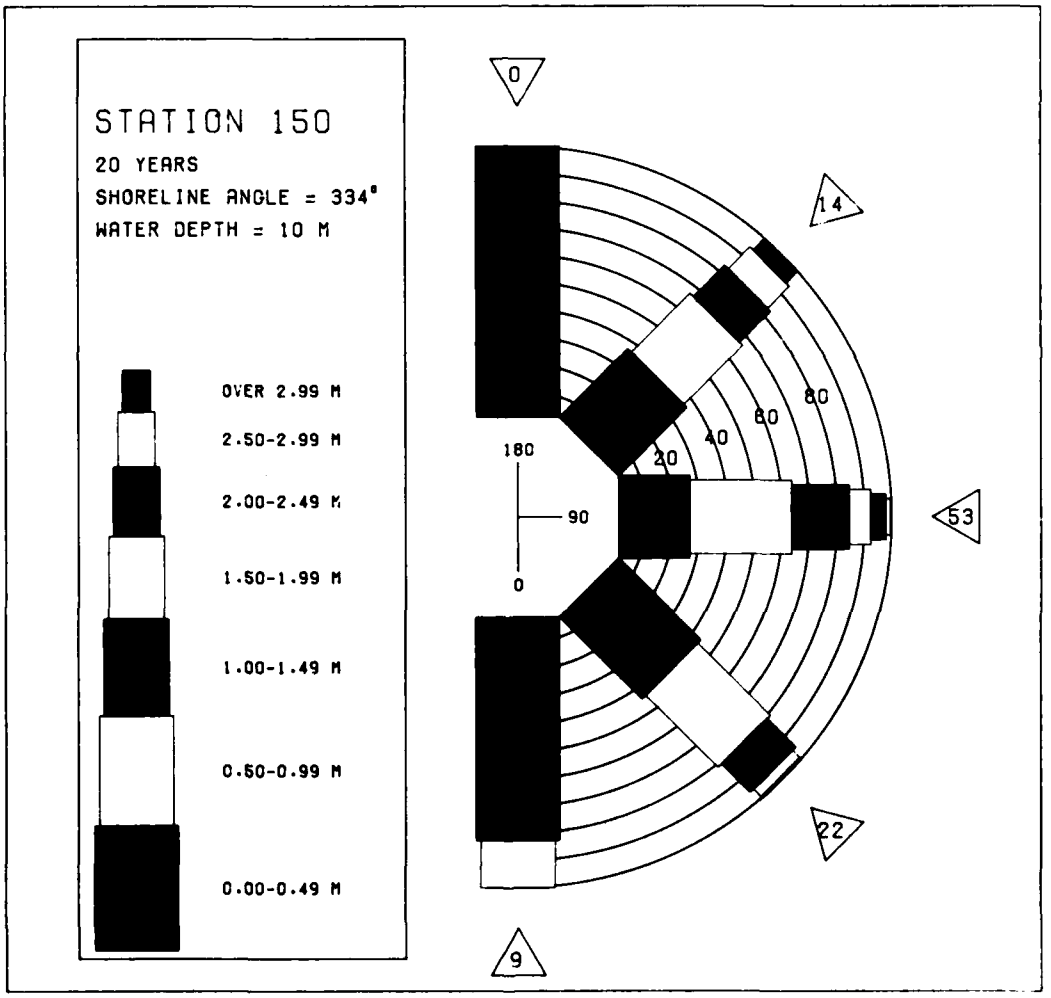
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	172	299	369	790	68	.	.	.	.	.	1698
0.50 - 0.99	.	.	.	.	.	.	.	.	.	.	0
1.00 - 1.49	.	.	.	.	.	.	.	.	.	.	0
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	172	299	369	790	68	0	0	0	0	0	

AVERAGE HS(M) = 0.12 LARGEST HS(M) = 0.47 ANGLE CLASS % = 1.7

STATION 150 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 334.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	454	798	263	203	452	741	392	41	78	139	3561
0.50 - 0.99	.	383	1021	222	67	462	399	78	439	294	3365
1.00 - 1.49	.	.	181	464	66	210	185	43	181	322	1672
1.50 - 1.99	.	.	.	73	171	169	91	13	40	89	666
2.00 - 2.49	.	.	.	.	48	214	73	7	17	29	388
2.50 - 2.99	.	.	.	.	.	14	61	4	8	9	96
3.00 - 3.49	.	.	.	.	.	.	2	11	1	2	16
3.50 - 3.99	.	.	.	.	.	.	.	1	.	2	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	454	1181	1465	962	824	1850	1203	198	764	886	

AVE HS(M) = 0.78 LARGEST HS(M) = 4.50 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 150

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YEAR													MEAN
1956	1.0	0.7	0.8	0.9	0.8	0.5	0.3	0.3	1.1	1.5	1.3	0.7	0.8
1957	0.9	1.0	0.5	0.9	0.6	0.6	0.3	0.5	0.7	1.1	0.9	1.0	0.8
1958	0.9	0.5	0.6	1.4	0.7	0.4	0.6	0.3	0.7	1.2	0.7	1.1	0.7
1959	0.9	0.9	1.1	0.9	0.7	0.3	0.5	0.7	1.2	0.9	1.4	1.2	0.9
1960	0.6	0.8	0.9	0.9	0.5	0.7	0.3	0.6	1.1	0.9	1.1	1.1	0.8
1961	0.9	0.8	0.7	0.8	0.7	0.5	0.4	0.6	0.9	1.5	1.2	1.2	0.8
1962	0.9	1.0	1.5	0.9	0.7	0.6	0.3	0.4	0.8	1.0	1.2	1.1	0.9
1963	0.9	1.0	0.8	0.7	0.8	0.4	0.3	0.2	1.1	1.6	1.0	0.9	0.8
1964	0.7	0.6	0.8	0.8	0.7	0.3	0.5	0.5	1.2	1.3	1.0	1.1	0.8
1965	0.8	0.9	0.5	0.6	0.5	0.7	0.4	0.3	1.4	1.0	0.9	0.9	0.7
1966	0.9	1.0	0.8	0.7	0.7	0.9	0.5	0.5	0.4	1.0	1.3	1.0	0.8
1967	0.7	0.8	0.9	1.1	0.5	0.6	0.4	0.4	1.0	1.1	1.6	1.5	0.9
1968	0.9	0.4	0.6	0.5	0.5	0.6	0.3	0.2	0.4	0.8	0.4	0.5	0.5
1969	1.2	1.1	1.0	1.1	0.9	0.4	0.3	0.6	0.8	1.5	1.1	0.5	0.9
1970	0.9	0.9	0.8	0.6	0.9	0.5	0.3	0.3	0.6	1.4	0.8	0.5	0.7
1971	0.7	0.7	0.5	0.6	0.4	0.3	0.3	0.4	0.8	0.8	1.2	1.4	0.7
1972	0.9	0.9	0.8	1.1	1.1	0.9	0.7	0.6	0.7	1.1	0.8	1.0	0.9
1973	0.9	1.3	1.2	1.4	1.2	1.2	1.0	1.0	1.1	1.6	0.9	0.6	1.1
1974	0.5	0.6	0.4	0.5	0.3	0.2	0.3	0.4	0.5	1.3	0.9	0.8	0.5
1975	0.9	0.7	0.6	0.8	0.2	0.2	0.4	0.2	0.9	0.9	1.1	1.1	0.7
MEAN	0.9	0.8	0.8	0.9	0.7	0.5	0.4	0.4	0.9	1.2	1.0	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 150

MONTH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
YEAR												
1956	2.5	2.4	2.5	1.4	2.4	1.1	1.0	0.6	3.1	3.4	3.4	1.3
1957	2.6	2.9	1.4	2.4	1.7	1.5	0.9	1.4	1.6	2.6	3.4	2.4
1958	3.8	1.9	1.9	2.3	2.3	1.3	1.4	1.2	1.5	3.3	2.1	2.7
1959	2.7	2.1	3.0	2.4	2.1	1.1	1.5	1.3	2.7	2.4	3.0	2.9
1960	1.6	2.2	2.1	2.3	1.8	2.2	0.8	1.7	2.6	2.1	2.5	2.8
1961	2.4	2.1	1.7	2.1	1.6	1.5	1.0	1.4	3.0	2.5	2.3	2.3
1962	2.5	2.5	2.8	2.3	2.0	1.3	0.8	1.7	2.2	2.8	4.5	3.6
1963	2.3	3.1	2.9	2.4	2.1	2.3	1.0	0.9	3.2	4.2	2.4	2.7
1964	2.4	2.1	2.1	1.7	3.0	1.0	2.0	2.1	2.4	3.0	2.5	2.6
1965	2.5	2.3	2.2	1.8	1.4	1.4	0.9	1.0	3.4	2.5	2.5	2.5
1966	2.3	3.1	2.4	2.3	2.1	2.4	2.1	2.1	1.5	2.8	2.9	2.5
1967	2.1	2.4	2.5	2.7	1.4	1.4	1.2	0.9	2.2	2.1	3.0	2.5
1968	2.8	1.2	2.2	1.0	1.7	2.3	0.6	0.8	1.0	2.2	1.4	2.2
1969	2.4	2.6	1.8	2.4	1.9	1.2	1.0	1.6	2.2	3.0	2.5	1.8
1970	2.6	2.4	1.9	1.5	2.0	1.8	1.3	1.4	2.0	3.1	2.7	2.0
1971	2.4	1.9	2.1	1.6	1.3	1.0	0.9	1.4	2.4	2.6	2.6	3.6
1972	3.1	3.1	2.3	2.7	2.2	2.2	1.9	1.0	1.9	3.1	2.3	2.9
1973	2.7	3.3	2.6	2.4	2.0	2.0	1.1	1.6	2.0	3.2	3.5	1.7
1974	1.9	2.7	1.9	1.9	0.9	0.8	0.7	0.7	1.9	3.8	2.8	1.5
1975	2.3	1.8	1.7	1.9	0.7	0.6	1.7	0.7	1.4	2.4	2.5	2.8

LARGEST HS(METRES) FOR STATION 150 = 4.5

STATION 151 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2207	3814	2265	1225	475	319	.	.	.	.	10305
0.50 - 0.99	.	369	1822	781	224	172	.	.	.	.	3368
1.00 - 1.49	.	.	30	100	47	1	.	.	.	.	178
1.50 - 1.99	.	.	.	.	6	.	.	.	.	.	6
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2207	4183	4117	2106	752	492	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.63 ANGLE CLASS % = 13.9

STATION 151 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1096	1724	.	.	641	1974	511	1	.	.	5947
0.50 - 0.99	.	1425	3015	321	25	130	248	.	.	.	5164
1.00 - 1.49	.	.	542	1331	261	126	11	.	.	.	2271
1.50 - 1.99	.	.	.	116	287	135	.	.	.	.	538
2.00 - 2.49	.	.	.	.	29	65	.	.	.	.	94
2.50 - 2.99	.	.	.	.	.	3	3	.	.	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1096	3149	3557	1768	1243	2433	773	1	0	0	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 2.67 ANGLE CLASS % = 14.0

STATION 151 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	742	1026	.	.	1178	333	165	66	95	278	3883
0.50 - 0.99	.	1047	2327	88	46	205	145	140	176	148	4322
1.00 - 1.49	.	.	586	1447	121	87	54	174	46	63	2580
1.50 - 1.99	.	.	.	248	569	126	25	47	18	1	1034
2.00 - 2.49	.	.	.	1	177	453	13	17	6	.	667
2.50 - 2.99	.	.	.	.	.	46	68	1	1	.	116
3.00 - 3.49	.	.	.	.	.	.	5	.	.	.	5
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	742	2073	2915	1784	2091	1250	475	445	342	490	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.08 ANGLE CLASS % = 12.6

STATION 151 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	417	691	.	.	1255	4062	2960	304	605	987	11281
0.50 - 0.99	.	836	1964	70	90	3612	3490	600	4115	2777	17554
1.00 - 1.49	.	.	550	1355	109	1139	1716	275	1805	3121	10070
1.50 - 1.99	.	.	.	350	728	732	727	78	395	881	3891
2.00 - 2.49	.	.	.	1	254	1358	539	46	169	308	2675
2.50 - 2.99	.	.	.	.	.	100	506	53	77	85	821
3.00 - 3.49	.	.	.	.	.	.	18	107	15	23	163
3.50 - 3.99	.	.	.	.	.	.	.	11	3	25	39
4.00 - 4.49	.	.	.	.	.	.	.	.	.	8	8
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	417	1527	2514	1776	2436	11003	9956	1474	7184	8215	

AVERAGE HS(M) = 0.95 LARGEST HS(M) = 4.45 ANGLE CLASS % = 46.5

STATION 151 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	284	340	.	.	265	506	37	1	.	.	1433
0.50 - 0.99	.	400	1043	301	73	718	66	1	.	.	2602
1.00 - 1.49	.	.	246	694	415	627	70	.	.	.	2052
1.50 - 1.99	.	.	.	87	219	941	169	.	.	.	1416
2.00 - 2.49	.	.	.	.	30	328	215	10	1	.	584
2.50 - 2.99	.	.	.	.	.	.	35	5	.	.	40
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - .49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	284	740	1289	1082	1002	3120	592	17	1	0	

AVERAGE HS(M) = 1.08 LARGEST HS(M) = 2.78 ANGLE CLASS % = 8.1

STATION 151 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

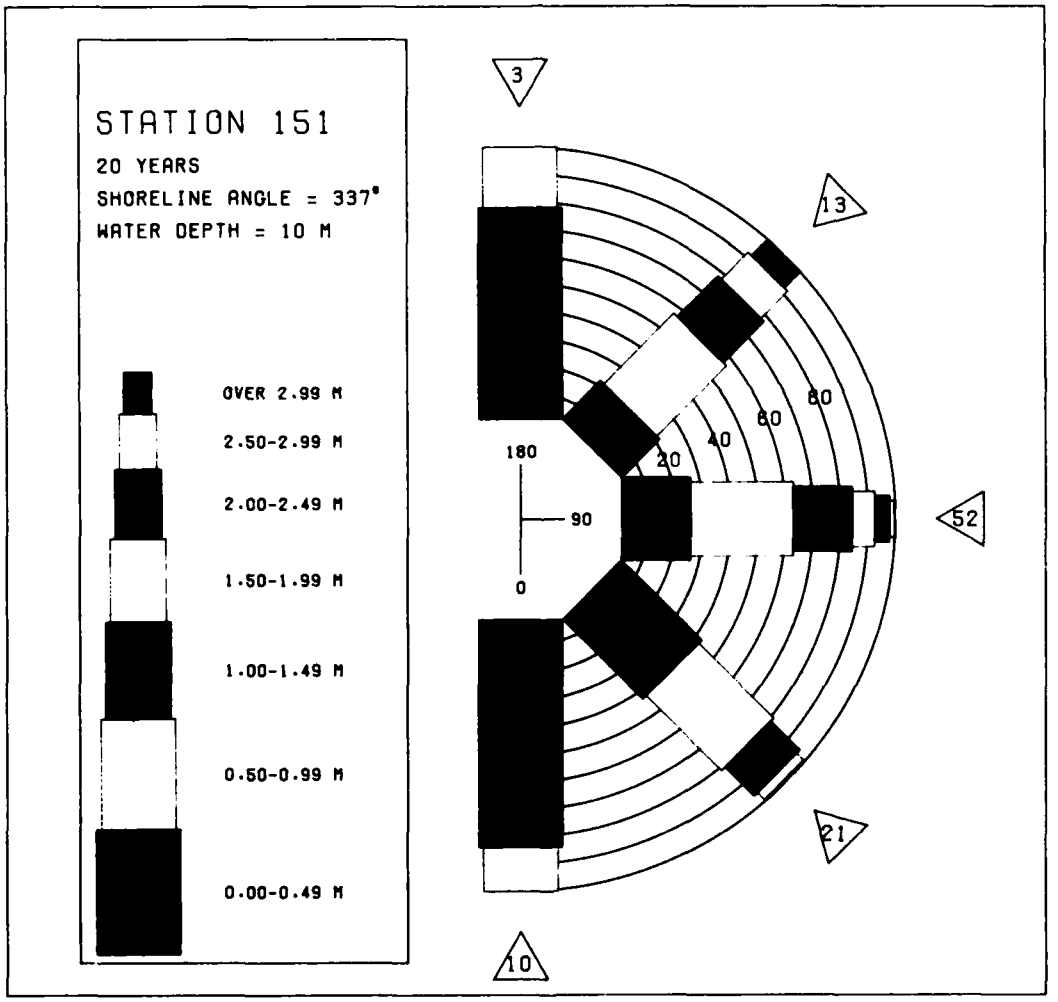
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	412	742	605	855	229	5	.	.	.	.	2848
0.50 - 0.99	.	53	540	1023	229	1	.	.	.	.	1846
1.00 - 1.49	.	.	6	71	22	.	.	.	.	.	99
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	412	795	1151	1949	480	6	0	0	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 1.39 ANGLE CLASS % = 4.8

STATION 151 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	516	834	287	208	404	720	367	37	70	126	3569
0.50 - 0.99	.	413	1071	258	68	484	395	74	429	292	3484
1.00 - 1.49	.	.	196	500	97	198	185	45	185	318	1724
1.50 - 1.99	.	.	.	80	181	193	92	12	41	88	687
2.00 - 2.49	.	.	.	.	49	220	76	7	17	30	399
2.50 - 2.99	.	.	.	.	.	15	61	5	7	8	96
3.00 - 3.49	.	.	.	.	.	.	2	10	1	2	15
3.50 - 3.99	.	.	.	.	.	.	.	1	.	2	3
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	516	1247	1554	1046	799	1830	1178	191	750	866	

AVE HS(M) = 0.80 LARGEST HS(M) = 4.45 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 151

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	1.1	0.7	0.9	0.9	0.9	0.5	0.3	0.3	1.1	1.5	1.3	0.7	0.9
1957	1.0	1.0	0.5	0.9	0.6	0.6	0.3	0.5	0.8	1.2	1.0	1.0	0.8
1958	1.0	0.6	0.6	1.4	0.8	0.4	0.6	0.3	0.7	1.2	0.8	1.1	0.8
1959	0.9	0.9	1.1	0.9	0.7	0.4	0.5	0.7	1.2	0.9	1.4	1.2	0.9
1960	0.7	0.8	1.0	1.0	0.5	0.7	0.3	0.6	1.1	0.9	1.1	1.1	0.8
1961	0.9	0.8	0.7	0.8	0.7	0.5	0.4	0.6	0.9	1.5	1.2	1.3	0.9
1962	1.0	1.0	1.5	0.9	0.7	0.6	0.3	0.4	0.8	1.0	1.3	1.1	0.9
1963	0.9	1.0	0.8	0.7	0.8	0.4	0.3	0.2	1.1	1.7	1.0	0.9	0.8
1964	0.7	0.7	0.8	0.8	0.7	0.3	0.5	0.5	1.2	1.3	1.0	1.1	0.8
1965	0.8	1.0	0.5	0.6	0.5	0.7	0.4	0.3	1.4	1.0	0.9	0.9	0.8
1966	1.0	1.0	0.8	0.7	0.7	0.9	0.6	0.5	0.4	1.1	1.3	1.0	0.8
1967	0.8	0.8	1.0	1.1	0.5	0.6	0.4	0.4	1.0	1.1	1.6	1.5	0.9
1968	0.9	0.5	0.6	0.5	0.5	0.6	0.3	0.2	0.4	0.8	0.4	0.6	0.5
1969	1.2	1.1	1.0	1.1	0.9	0.4	0.3	0.6	0.9	1.5	1.1	0.6	0.9
1970	1.0	0.9	0.9	0.6	0.9	0.5	0.3	0.3	0.6	1.4	0.8	0.6	0.7
1971	0.7	0.7	0.6	0.7	0.4	0.3	0.4	0.4	0.8	0.8	1.2	1.4	0.7
1972	0.9	1.0	0.8	1.1	1.1	0.9	0.7	0.6	0.7	1.1	0.8	1.0	0.9
1973	1.0	1.4	1.2	1.4	1.1	1.2	1.0	1.0	1.1	1.6	1.0	0.7	1.1
1974	0.5	0.6	0.4	0.5	0.3	0.2	0.3	0.4	0.5	1.3	0.9	0.8	0.6
1975	0.9	0.8	0.6	0.8	0.2	0.2	0.4	0.2	0.9	0.9	1.1	1.1	0.7
MEAN	0.9	0.9	0.8	0.9	0.7	0.5	0.4	0.5	0.9	1.2	1.1	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 151

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.5	2.4	2.5	1.7	2.4	1.1	1.0	0.6	3.1	3.4	3.3	1.4
1957	2.6	2.9	1.5	2.4	1.8	1.5	1.0	1.4	1.5	2.6	3.4	2.5
1958	3.8	1.8	2.0	2.4	2.3	1.3	1.4	1.2	1.5	3.4	2.1	2.7
1959	2.7	2.1	3.0	2.5	2.1	1.1	1.5	1.3	2.7	2.4	3.0	2.9
1960	1.8	2.2	2.1	2.4	1.9	2.2	0.8	1.7	2.6	2.1	2.5	2.9
1961	2.4	2.1	1.7	2.1	1.6	1.5	1.0	1.5	2.9	2.5	2.3	2.3
1962	2.5	2.5	2.8	2.4	2.0	1.3	0.8	1.7	2.2	2.9	4.4	3.6
1963	2.3	3.1	2.9	2.4	2.1	2.3	1.0	0.9	3.2	4.3	2.4	2.8
1964	2.4	2.1	2.0	1.7	3.0	1.0	2.0	2.1	2.4	3.0	2.5	2.5
1965	2.5	2.3	2.3	1.8	1.4	1.4	0.9	1.0	3.4	2.5	2.5	2.5
1966	2.2	3.1	2.4	2.3	2.1	2.4	2.1	2.1	1.5	2.8	2.9	2.5
1967	2.1	2.4	2.5	2.7	1.5	1.4	1.2	0.9	2.2	2.1	3.0	2.5
1968	2.8	1.4	2.2	1.0	1.7	2.2	0.6	0.8	1.0	2.2	1.3	2.1
1969	2.4	2.6	1.8	2.4	1.9	1.2	1.0	1.7	2.2	3.0	2.5	1.8
1970	2.6	2.4	2.0	1.5	2.2	1.8	1.3	1.4	2.0	3.1	2.8	2.0
1971	2.5	2.0	2.1	1.6	1.3	1.0	0.9	1.4	2.4	2.6	2.6	3.6
1972	3.2	3.1	2.4	2.7	2.2	2.2	1.9	1.0	1.9	3.1	2.3	2.8
1973	2.6	3.3	2.5	2.3	2.0	2.0	1.1	1.6	2.0	3.2	3.5	1.7
1974	1.9	2.6	1.9	1.9	0.9	0.8	0.7	0.7	1.9	3.8	2.8	1.5
1975	2.3	1.8	1.8	1.9	0.7	0.6	1.7	0.7	1.4	2.4	2.5	2.8

LARGEST HS(METRES) FOR STATION 151 = 4.4

STATION 152 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2758	3838	1834	953	367	287	.	.	.	.	10037
0.50 - 0.99	.	472	2051	889	207	150	.	.	.	.	3769
1.00 - 1.49	.	.	54	109	54	.	.	.	.	.	217
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2758	4310	3939	1951	629	437	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.69 ANGLE CLASS % = 14.0

STATION 152 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1492	2121	.	.	17	20	22	.	.	.	3672
0.50 - 0.99	.	1897	3552	343	15	63	10	.	.	.	5880
1.00 - 1.49	.	.	528	1495	234	119	.	.	.	.	2376
1.50 - 1.99	.	.	.	106	337	119	1	.	.	.	563
2.00 - 2.49	.	.	.	.	37	47	1	.	.	.	85
2.50 - 2.99	.	.	.	.	.	6	.	.	.	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1492	4018	4080	1944	640	374	34	0	0	0	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 2.68 ANGLE CLASS % = 12.6

STATION 152 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	807	1156	.	.	1486	1084	944	1724	1165	1750	10116
0.50 - 0.99	1	1338	2464	85	53	1478	2390	4082	2808	4322	19021
1.00 - 1.49	.	.	720	1728	160	436	956	941	542	2628	8111
1.50 - 1.99	.	.	.	302	666	261	219	246	90	809	2623
2.00 - 2.49	.	.	.	.	213	586	107	65	51	162	1184
2.50 - 2.99	.	.	.	.	.	65	39	10	.	68	182
3.00 - 3.49	.	.	.	.	.	1	3	.	.	30	34
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	808	2494	3184	2115	2608	3911	4658	7068	4656	9770	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.61 ANGLE CLASS % = 41.3

STATION 152 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	533	710			773	2571	2080	47	10		6724
0.50 - 0.99	.	1036	1995	71	51	1380	1021	121	10	1	5686
1.00 - 1.49	.	.	720	1563	133	552	438	92	5	5	3506
1.50 - 1.99	.	.	.	345	802	422	253	35	13	1	1871
2.00 - 2.49	.	.	.	.	306	1209	167	22	8	6	1718
2.50 - 2.99	.	.	.	.	.	155	201	10	.	.	366
3.00 - 3.49	.	.	.	.	.	1	58	3	1	.	63
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	533	1746	2715	1979	2065	6290	4218	330	47	11	

AVERAGE HS(M) = 0.93 LARGEST HS(M) = 3.49 ANGLE CLASS % = 20.0

STATION 152 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	304	352			160	273	78	1			1168
0.50 - 0.99	.	444	1019	289	61	629	88	6	1	.	2537
1.00 - 1.49	.	.	266	835	424	663	142	6	.	.	2336
1.50 - 1.99	.	.	.	123	254	706	179	.	10	.	1272
2.00 - 2.49	.	.	.	.	29	231	181	1	.	.	442
2.50 - 2.99	.	.	.	.	.	5	13	1	.	.	19
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	304	796	1285	1247	928	2507	681	15	11	0	

AVERAGE HS(M) = 1.07 LARGEST HS(M) = 2.66 ANGLE CLASS % = 7.8

STATION 152 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

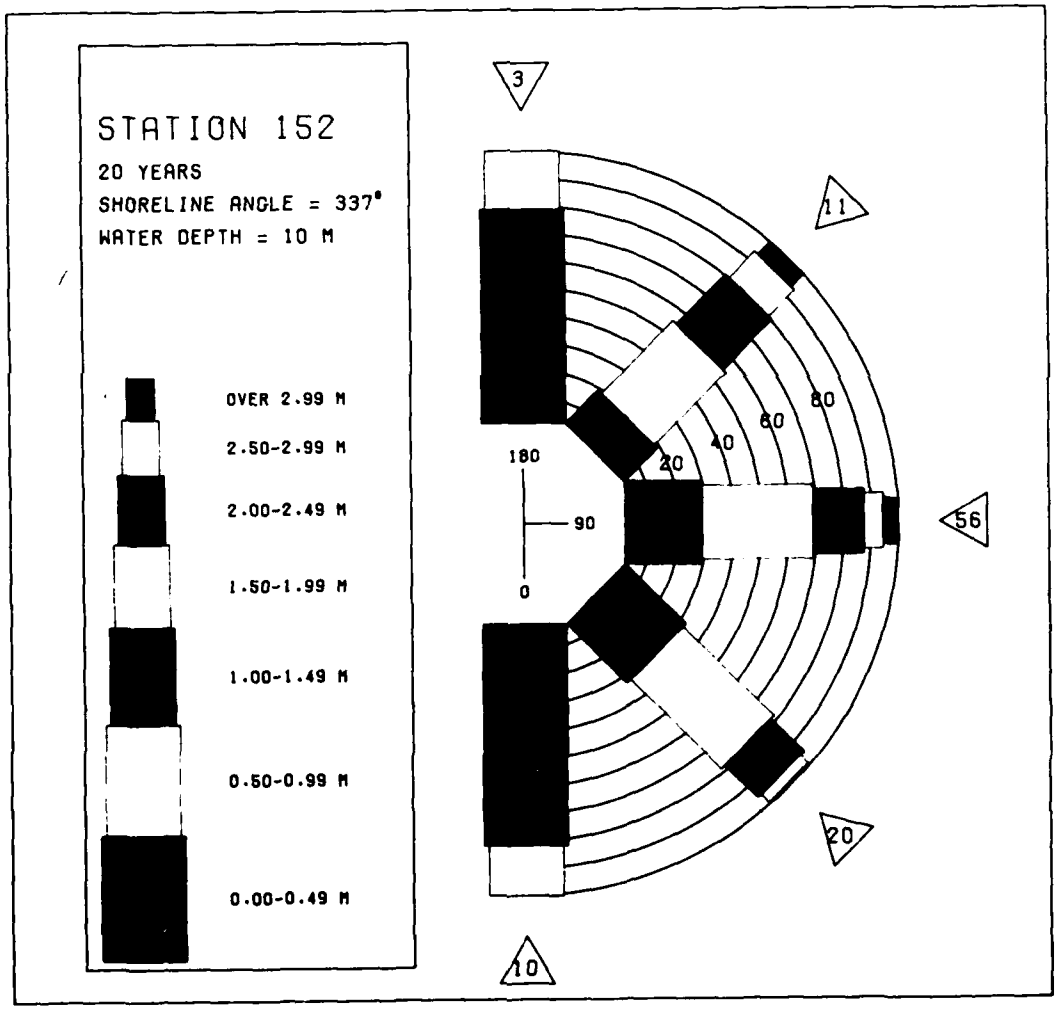
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	525	829	550	527	111		.	.	.	.	2542
0.50 - 0.99	.	82	527	867	162	1	.	.	.	.	1639
1.00 - 1.49	.	.	10	106	25	.	.	.	.	.	141
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	525	911	1087	1500	298	1	0	0	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 1.40 ANGLE CLASS % = 4.3

STATION 152 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 337.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERI D FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	642	900	238	148	291	423	312	177	117	175	3423
0.50 - 0.99	.	527	1161	254	55	370	351	421	281	432	3852
1.00 - 1.49	.	.	230	583	103	177	153	104	54	263	1667
1.50 - 1.99	.	.	.	87	209	151	65	28	11	81	632
2.00 - 2.49	.	.	.	.	58	207	45	8	5	16	339
2.50 - 2.99	.	.	.	.	.	23	25	2	.	6	56
3.00 - 3.49	.	.	.	.	.	.	6	.	.	3	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	642	1427	1629	1072	716	1351	957	740	468	976	

AVE HS(M) = 0.78 LARGEST HS(M) = 3.61 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 152

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.8	0.8	0.8	0.8	0.5	0.3	0.3	1.0	1.3	1.8	1.3	0.9
1957	1.0	1.0	0.6	1.0	0.7	0.6	0.3	0.5	0.8	1.1	1.0	1.1	0.8
1958	1.7	1.4	1.2	1.3	0.8	0.5	0.6	0.3	0.7	1.1	0.7	1.1	0.9
1959	1.1	0.9	1.1	0.9	0.7	0.4	0.5	0.6	1.1	0.8	1.4	1.2	0.9
1960	0.7	0.8	0.8	0.9	0.5	0.7	0.4	0.6	1.0	0.7	1.1	1.3	0.8
1961	0.9	0.8	0.7	0.7	0.6	0.5	0.4	0.6	0.8	1.4	1.0	1.0	0.8
1962	0.9	0.8	1.2	0.9	0.6	0.5	0.3	0.4	0.6	0.9	1.1	0.9	0.8
1963	0.9	0.9	0.8	0.7	0.7	0.4	0.3	0.3	1.0	1.5	1.0	0.9	0.8
1964	0.7	0.7	0.8	0.8	0.7	0.4	0.5	0.5	1.0	1.2	1.0	1.1	0.8
1965	0.9	0.9	0.5	0.6	0.5	0.6	0.4	0.3	1.4	0.9	0.9	1.2	0.8
1966	1.1	1.1	0.9	0.7	0.7	0.9	0.5	0.5	0.4	1.0	1.4	1.2	0.9
1967	1.0	1.0	1.1	1.0	0.5	0.6	0.4	0.4	0.9	1.0	1.3	1.1	0.9
1968	0.8	0.4	0.6	0.5	0.4	0.5	0.3	0.2	0.3	0.7	0.4	0.6	0.5
1969	1.2	1.1	0.8	0.9	0.9	0.4	0.3	0.5	0.8	1.4	1.1	0.6	0.8
1970	1.0	1.1	0.8	0.6	0.8	0.5	0.4	0.4	0.6	1.4	0.8	0.8	0.8
1971	0.8	0.8	0.7	0.6	0.4	0.2	0.4	0.4	0.8	0.7	1.2	1.3	0.7
1972	1.1	1.1	1.0	1.0	1.0	0.8	0.7	0.5	0.7	1.0	0.7	1.1	0.9
1973	0.9	1.2	1.1	1.1	0.8	0.9	0.7	0.8	0.8	1.5	1.2	0.8	1.0
1974	0.5	0.6	0.8	0.8	0.3	0.2	0.2	0.3	0.4	1.2	0.8	0.6	0.5
1975	0.7	0.6	0.5	0.6	0.2	0.2	0.4	0.2	0.7	0.7	1.1	1.1	0.6
MEAN	0.9	0.9	0.8	0.8	0.6	0.5	0.4	0.4	0.8	1.1	1.1	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 152

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.4	2.4	1.4	2.2	1.1	1.3	0.7	2.8	3.0	3.2	1.8
1957	2.5	2.7	1.4	2.2	1.6	1.4	1.0	1.3	1.7	2.4	3.2	2.5
1958	3.5	2.5	2.0	2.4	2.2	1.4	1.4	1.1	1.5	2.7	2.0	2.6
1959	2.6	2.2	2.9	2.3	2.2	1.1	1.6	1.3	2.5	2.2	2.9	2.6
1960	1.7	2.1	2.0	2.3	1.5	2.5	0.8	1.8	2.7	1.8	2.4	2.7
1961	2.2	2.2	1.7	2.0	2.0	1.7	1.0	1.4	2.5	2.5	2.2	2.2
1962	2.4	2.3	2.1	2.4	2.0	1.1	0.9	1.7	1.9	2.4	3.3	2.9
1963	2.2	2.2	2.6	2.3	2.1	1.6	1.1	0.9	3.0	3.1	2.2	2.6
1964	2.3	2.3	2.0	1.8	2.5	1.0	2.0	1.9	2.2	2.7	2.3	2.3
1965	2.4	2.1	2.2	1.5	1.4	1.5	0.8	1.0	3.2	2.2	2.4	2.5
1966	2.3	3.1	2.1	2.3	2.1	2.3	2.1	2.1	1.5	2.8	2.8	2.4
1967	2.1	2.4	2.5	2.5	1.3	1.5	1.0	0.9	2.1	2.1	2.7	2.3
1968	2.6	1.4	2.4	1.0	1.8	2.1	0.8	0.8	1.0	2.1	1.3	2.2
1969	2.6	2.1	1.7	2.1	1.8	1.0	0.9	1.3	2.1	2.8	2.4	2.0
1970	2.6	2.4	1.8	1.5	2.1	2.0	1.3	1.5	1.6	2.8	2.9	2.2
1971	2.4	2.1	2.0	1.7	1.4	1.0	1.1	1.5	2.2	2.3	2.5	3.4
1972	3.0	3.0	2.4	2.5	2.4	2.2	1.7	1.0	1.6	2.7	2.3	2.8
1973	2.4	2.5	2.4	2.2	1.7	1.8	0.9	1.3	1.7	3.0	3.2	1.9
1974	1.5	2.6	1.7	2.0	0.9	0.8	0.6	0.8	1.3	3.6	2.5	1.6
1975	2.0	1.4	1.8	1.8	0.7	0.5	1.0	0.8	1.3	2.1	2.4	2.7

LARGEST HS(METRES) FOR STATION 152 = 3.6

STATION 153 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2677	3745	1796	942	352	270	.	.	.	.	9782
0.50 - 0.99	.	468	2039	658	208	155	.	.	.	.	3768
1.00 - 1.49	.	.	44	109	56	1	.	.	.	.	210
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2677	4213	3879	1949	616	426	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.44 ANGLE CLASS % = 13.8

STATION 153 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1522	2118			10	20	22	.	.	.	3692
0.50 - 0.99	.	1899	3456	352	20	53	5	.	.	.	5788
1.00 - 1.49	.	.	494	1403	242	133	.	.	.	.	2272
1.50 - 1.99	.	.	.	109	311	104	1	.	.	.	525
2.00 - 2.49	.	.	.	.	30	53	1	.	.	.	84
2.50 - 2.99	.	.	.	.	.	5	.	.	.	.	5
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1522	4017	3953	1864	613	368	29	0	0	0	

AVERAGE HS(M) = 0.74 LARGEST HS(M) = 2.68 ANGLE CLASS % = 12.4

STATION 153 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	829	1235			1377	920	547	121	1151	1733	7913
0.50 - 0.99	1	1372	2544	73	39	1145	1771	903	2808	4317	14974
1.00 - 1.49	.	.	735	1784	147	301	817	544	540	2631	7499
1.50 - 1.99	.	.	.	280	674	220	174	212	88	604	2452
2.00 - 2.49	.	.	.	.	201	511	90	54	47	157	1060
2.50 - 2.99	.	.	.	.	.	51	34	8	.	68	161
3.00 - 3.49	.	.	.	.	.	1	3	.	.	29	33
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	830	2607	3279	2137	2438	3150	3436	1842	4634	9740	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.61 ANGLE CLASS % = 34.1

STATION 153 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	557	740			845	2669	2467	1664	11		8953
0.50 - 0.99	.	1108	2091	77	63	1709	1637	3266	13	5	9969
1.00 - 1.49	.	.	740	1606	154	681	578	480	5	10	4254
1.50 - 1.99	.	.	.	350	824	462	294	71	15	3	2019
2.00 - 2.49	.	.	.	.	330	1259	174	30	13	6	1812
2.50 - 2.99	.	.	.	.	.	165	203	11	.	.	379
3.00 - 3.49	.	.	.	.	.	1	58	3	1	1	64
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	557	1848	2831	2033	2216	6946	5411	5525	58	25	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.49 ANGLE CLASS % = 27.5

STATION 153 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	306	366	5		201	285	75	5	.	.	1243
0.50 - 0.99	.	426	1050	278	70	627	83	1	1	.	2536
1.00 - 1.49	.	.	278	650	410	626	142	6	8	.	2320
1.50 - 1.99	.	.	.	119	248	715	172	.	1	.	1255
2.00 - 2.49	.	.	.	.	32	212	183	1	.	.	428
2.50 - 2.99	.	.	.	.	.	6	10	1	.	.	17
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	306	792	1333	1247	961	2471	665	14	10	0	

AVERAGE HS(M) = 1.06 LARGEST HS(M) = 2.89 ANGLE CLASS % = 7.8

STATION 153 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

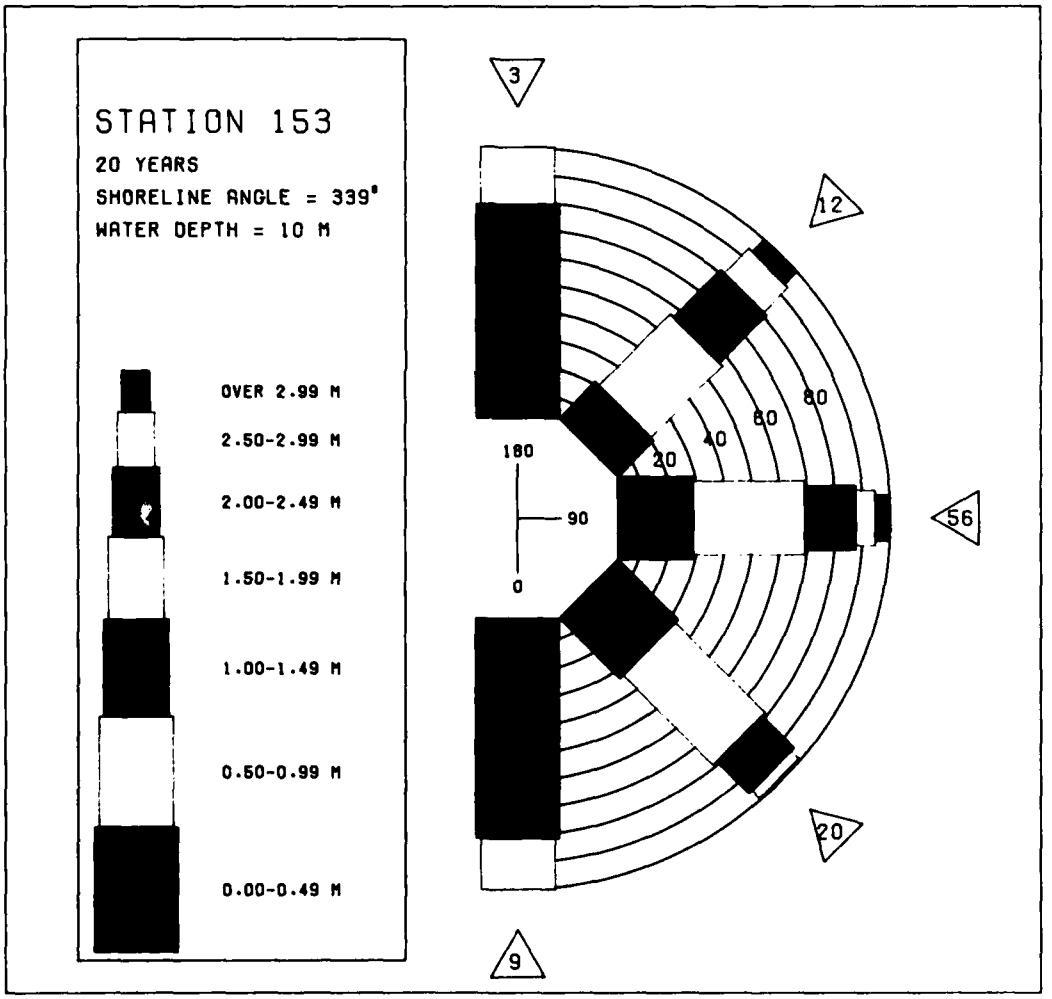
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	554	840	544	556	114		.	.	.	.	2608
0.50 - 0.99	.	83	532	809	193	1	.	.	.	.	1698
1.00 - 1.49	.	.	10	95	29	.	.	.	.	.	134
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	554	923	1086	1540	336	1	0	0	0	0	

AVERAGE HS(M) = 0.44 LARGEST HS(M) = 1.49 ANGLE CLASS % = 4.4

STATION 153 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 339.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	644	904	234	149	290	416	311	179	116	173	3416
0.50 - 0.99	.	535	1171	257	59	359	349	417	282	432	3871
1.00 - 1.49	.	.	230	585	104	174	153	103	55	264	1668
1.50 - 1.99	.	.	.	86	205	150	64	28	10	80	623
2.00 - 2.49	.	.	.	.	59	203	45	8	6	16	337
2.50 - 2.99	.	.	.	.	.	22	24	2	.	6	54
3.00 - 3.49	.	.	.	.	.	.	6	.	.	3	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	644	1439	1635	1077	717	1334	952	737	469	974	

AVE HS(M) = 0.78 LARGEST HS(M) = 3.61 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 153

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.8	0.8	0.8	0.8	0.5	0.4	0.3	1.0	1.3	1.8	1.3	0.9
1957	1.0	1.0	0.6	1.0	0.7	0.6	0.3	0.5	0.8	1.1	1.0	1.1	0.8
1958	1.7	1.4	1.2	1.3	0.8	0.5	0.6	0.3	0.7	1.1	0.7	1.1	0.9
1959	1.0	0.9	1.1	0.9	0.7	0.4	0.5	0.6	1.1	0.8	1.4	1.2	0.9
1960	0.7	0.8	0.8	0.9	0.5	0.7	0.4	0.6	1.0	0.7	1.1	1.3	0.8
1961	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.6	0.8	1.4	1.0	1.0	0.8
1962	0.9	0.8	1.2	0.9	0.6	0.5	0.3	0.4	0.6	0.9	1.1	0.9	0.8
1963	0.9	0.9	0.8	0.7	0.7	0.4	0.3	0.3	1.0	1.5	1.0	0.9	0.8
1964	0.7	0.7	0.8	0.8	0.7	0.4	0.5	0.5	1.0	1.2	1.0	1.1	0.8
1965	0.9	0.9	0.5	0.6	0.5	0.6	0.4	0.4	1.4	0.9	0.9	1.2	0.8
1966	1.1	1.1	0.9	0.7	0.7	0.9	0.5	0.5	0.4	1.0	1.4	1.2	0.9
1967	1.0	1.0	1.1	1.0	0.5	0.6	0.4	0.4	0.9	1.0	1.3	1.1	0.9
1968	0.8	0.4	0.6	0.5	0.4	0.5	0.3	0.2	0.3	0.7	0.4	0.6	0.5
1969	1.2	1.1	0.8	0.9	0.9	0.4	0.3	0.5	0.8	1.4	1.1	0.6	0.8
1970	1.0	1.1	0.8	0.6	0.8	0.5	0.4	0.4	0.6	1.4	0.8	0.8	0.8
1971	0.8	0.8	0.7	0.6	0.4	0.2	0.4	0.4	0.8	0.7	1.2	1.3	0.7
1972	1.1	1.1	1.0	1.0	1.0	0.8	0.7	0.5	0.7	1.0	0.7	1.1	0.9
1973	0.9	1.2	1.1	1.1	0.8	0.9	0.7	0.8	0.8	1.5	1.2	0.8	1.0
1974	0.5	0.6	0.8	0.8	0.3	0.2	0.2	0.3	0.4	1.2	0.8	0.6	0.5
1975	0.7	0.6	0.5	0.6	0.2	0.2	0.4	0.2	0.7	0.7	1.1	1.1	0.6
MEAN	0.9	0.9	0.8	0.8	0.6	0.5	0.4	0.4	0.8	1.1	1.0	1.0	

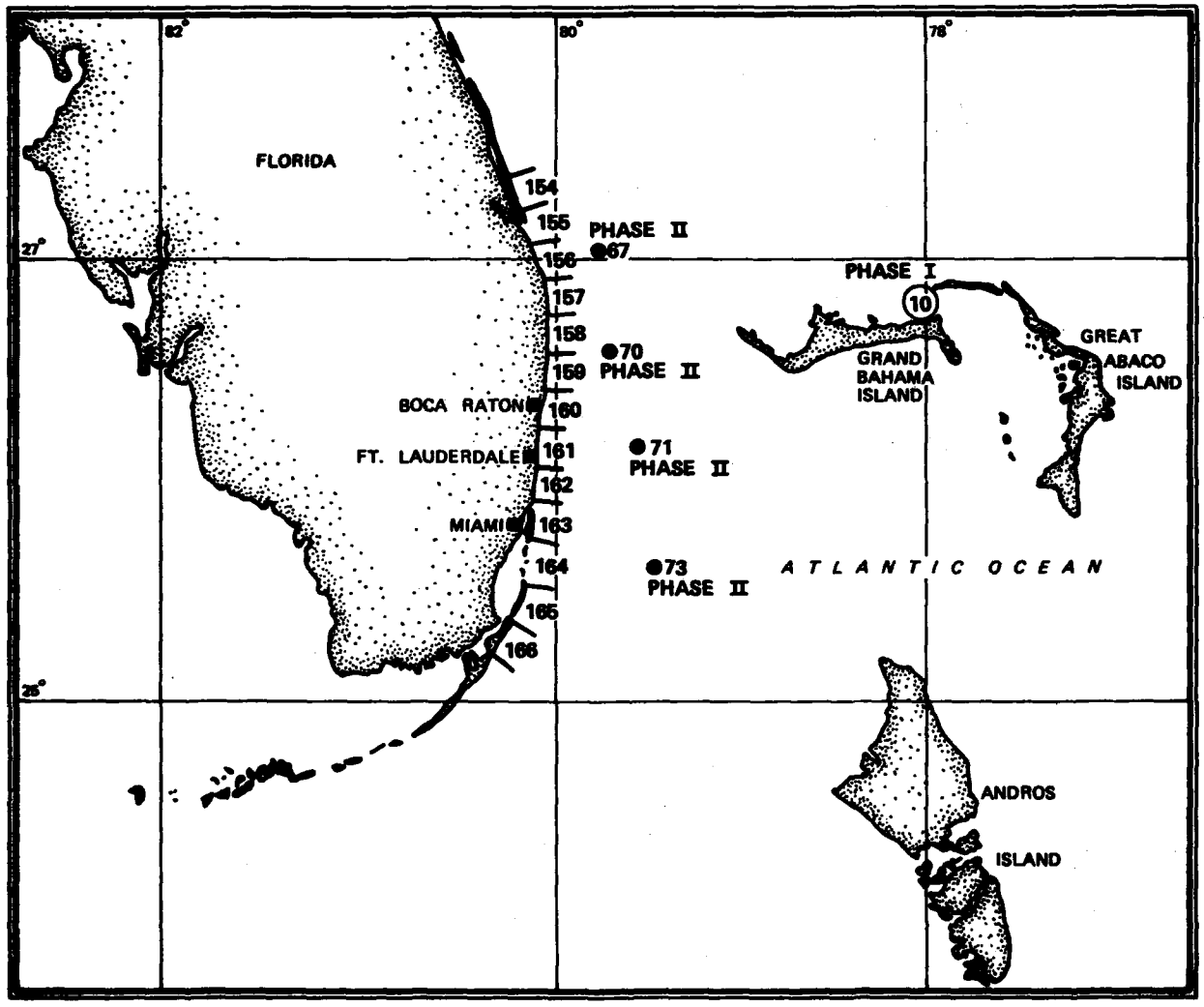
LARGEST HS(METRES) BY MONTH AND YEAR

STATION 153

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.4	2.4	1.4	2.2	1.1	1.3	0.7	2.8	3.0	3.2	1.8
1957	2.5	2.7	1.4	2.3	1.6	1.5	1.0	1.3	1.7	2.4	3.2	2.4
1958	3.5	2.5	2.0	2.4	2.2	1.4	1.4	1.1	1.5	2.7	2.0	2.6
1959	2.6	2.2	2.9	2.3	2.2	1.1	1.6	1.3	2.5	2.2	2.9	2.6
1960	1.7	2.1	2.0	2.3	1.5	2.4	0.9	1.8	2.7	1.7	2.4	2.7
1961	2.2	2.2	1.8	2.0	2.0	1.7	1.0	1.4	2.5	2.5	2.2	2.2
1962	2.4	2.3	2.1	2.4	2.0	1.1	0.9	1.7	1.9	2.4	3.2	2.9
1963	2.2	2.2	2.6	2.3	2.1	1.6	1.1	0.9	3.0	3.1	2.2	2.6
1964	2.3	2.2	2.0	1.8	2.3	1.0	2.0	1.9	2.2	2.7	2.3	2.3
1965	2.4	2.1	2.2	1.5	1.4	1.5	0.8	1.0	3.2	2.2	2.4	2.5
1966	2.3	3.1	2.1	2.3	2.1	2.3	2.1	2.1	1.5	2.8	2.8	2.4
1967	2.1	2.4	2.5	2.5	1.3	1.5	1.0	0.9	2.0	2.1	2.7	2.3
1968	2.6	1.4	2.4	1.0	1.8	2.1	0.8	0.8	1.0	2.1	1.3	2.2
1969	2.6	2.1	1.7	2.1	1.8	1.0	0.9	1.3	2.1	2.8	2.4	2.0
1970	2.6	2.4	1.8	1.5	2.1	2.0	1.3	1.5	1.6	2.8	2.9	2.0
1971	2.4	2.1	2.0	2.0	1.4	1.0	1.1	1.5	2.2	2.3	2.5	3.4
1972	3.0	3.0	2.4	2.5	2.4	2.2	1.7	1.0	1.6	2.7	2.3	2.8
1973	2.4	2.5	2.4	2.2	1.7	1.8	0.9	1.3	1.7	3.0	3.2	1.9
1974	1.5	2.6	1.7	2.0	0.9	0.8	0.6	0.8	1.3	3.6	2.5	1.6
1975	2.0	1.4	1.8	1.8	0.8	0.5	1.0	0.8	1.3	2.1	2.4	2.7

LARGEST HS(METRES) FOR STATION 153 = 3.6


82°
80°
78°
27°
25°
FLORIDA
154
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PHASE II
67
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PHASE II
71
PHASE II
73
PHASE II
BOCA RATON
FT. LAUDERDALE
MIAMI
PHASE I
10
GRAND
BAHAMA
ISLAND
GREAT
ABACO
ISLAND
ATLANTIC OCEAN
ANDROS
ISLAND

STATION 154 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2707	3788	1815	953	361	280	.	.	.	.	9904
0.50 - 0.99	.	465	2051	881	201	152	.	.	.	.	3750
1.00 - 1.49	.	.	47	124	58	1	.	.	.	.	230
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2707	4253	3913	1958	620	433	0	0	0	0	

AVERAGE HS(M) = 0.36 LARGEST HS(M) = 1.44 ANGLE CLASS % = 13.9

STATION 154 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1505	2118	.	.	17	20	22	.	.	.	3682
0.50 - 0.99	.	1906	3482	343	18	56	6	.	.	.	5811
1.00 - 1.49	.	.	506	1456	232	126	.	.	.	.	2320
1.50 - 1.99	.	.	.	104	325	111	1	.	.	.	541
2.00 - 2.49	.	.	.	.	39	44	1	.	.	.	84
2.50 - 2.99	.	.	.	.	.	6	.	.	.	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1505	4024	3988	1903	631	363	30	0	0	0	

AVERAGE HS(M) = 0.75 LARGEST HS(M) = 2.68 ANGLE CLASS % = 12.5

STATION 154 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	828	1194	.	.	1440	1009	602	1687	1160	1728	9648
0.50 - 0.99	1	1346	2511	82	47	1321	1913	3945	2811	4325	18302
1.00 - 1.49	.	.	734	1750	160	383	870	893	540	2624	7554
1.50 - 1.99	.	.	.	292	694	239	196	239	92	812	2564
2.00 - 2.49	.	.	.	.	207	550	95	63	49	157	1121
2.50 - 2.99	.	.	.	.	.	51	39	10	.	68	168
3.00 - 3.49	.	.	.	.	.	1	3	.	.	30	34
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	829	2540	3245	2124	2548	3554	3718	6837	4652	9745	

AVERAGE HS(M) = 0.84 LARGEST HS(M) = 3.61 ANGLE CLASS % = 39.8

STATION 154 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	544	722			807	2618	2419	73	11		7194
0.50 - 0.99	.	1083	2055	70	54	1550	1483	266	8	3	6572
1.00 - 1.49	.	.	742	1582	143	605	530	140	5	8	3755
1.50 - 1.99	.	.	.	345	804	439	272	42	15	1	1918
2.00 - 2.49	.	.	.	.	316	1245	177	22	10	6	1776
2.50 - 2.99	.	.	.	.	.	167	200	10	.	.	377
3.00 - 3.49	.	.	.	.	.	1	58	3	1	.	63
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	544	1805	2797	1997	2124	6625	5139	556	50	18	

AVERAGE HS(M) = 0.92 LARGEST HS(M) = 3.49 ANGLE CLASS % = 21.7

STATION 154 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	296	364	3		172	273	75	3	1	.	1186
0.50 - 0.99	.	424	1023	292	70	624	94	2	1	.	2531
1.00 - 1.49	.	.	261	843	408	648	142	6	2	.	2311
1.50 - 1.99	.	.	.	121	254	718	176	.	6	.	1275
2.00 - 2.49	.	.	.	.	30	210	174	1	.	.	415
2.50 - 2.99	.	.	.	.	.	5	15	1	.	.	21
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	296	788	1287	1256	934	2478	676	14	10	0	

AVERAGE HS(M) = 1.07 LARGEST HS(M) = 2.77 ANGLE CLASS % = 7.8

STATION 154 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

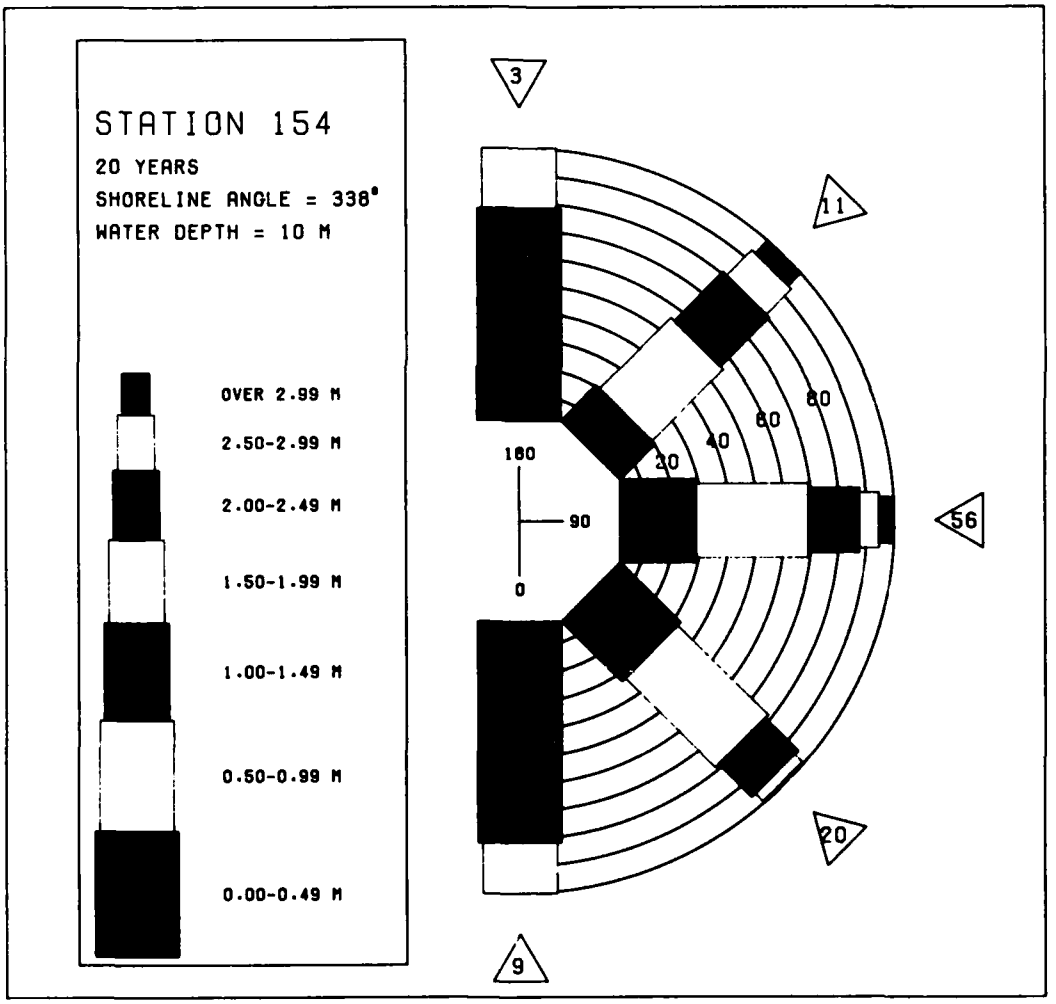
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	545	836	552	540	112	.	.	.	.	.	2585
0.50 - 0.99	.	92	525	870	179	1	.	.	.	.	1667
1.00 - 1.49	.	.	13	100	29	.	.	.	.	.	142
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	545	928	1090	1510	320	1	0	0	0	0	

AVERAGE HS(M) = 0.45 LARGEST HS(M) = 1.49 ANGLE CLASS % = 4.4

STATION 154 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	642	902	237	149	291	420	311	176	117	172	3417
0.50 - 0.99	.	531	1164	254	57	370	349	421	282	432	3860
1.00 - 1.49	.	.	230	585	103	176	154	104	54	263	1669
1.50 - 1.99	.	.	.	86	207	150	64	28	11	81	627
2.00 - 2.49	.	.	.	.	59	205	45	8	5	16	338
2.50 - 2.99	.	.	.	.	.	23	25	2	.	6	56
3.00 - 3.49	.	.	.	.	.	.	6	.	.	3	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	642	1433	1631	1074	717	1344	954	739	469	973	

AVE HS(M) = 0.78 LARGEST HS(M) = 3.61 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 154

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.9	0.8	0.8	0.8	0.8	0.5	0.3	0.3	1.0	1.3	1.8	1.3	0.9
1957	1.0	1.0	0.6	1.0	0.7	0.6	0.3	0.5	0.8	1.1	1.0	1.1	0.8
1958	1.7	1.4	1.2	1.3	0.8	0.5	0.6	0.3	0.7	1.1	0.7	1.1	0.9
1959	1.0	0.9	1.1	0.9	0.7	0.4	0.5	0.6	1.1	0.8	1.4	1.2	0.9
1960	0.7	0.8	0.8	0.9	0.5	0.7	0.4	0.6	1.0	0.7	1.1	1.3	0.8
1961	0.9	0.8	0.7	0.7	0.6	0.5	0.4	0.6	0.8	1.4	1.0	1.0	0.8
1962	0.9	0.8	1.2	0.9	0.6	0.5	0.3	0.4	0.6	0.9	1.1	0.9	0.8
1963	0.9	0.9	0.8	0.7	0.7	0.4	0.3	0.3	1.0	1.5	1.0	0.9	0.8
1964	0.7	0.7	0.8	0.8	0.7	0.4	0.5	0.5	1.0	1.2	1.0	1.1	0.8
1965	0.9	0.9	0.5	0.6	0.5	0.6	0.4	0.4	1.4	0.9	0.9	1.2	0.8
1966	1.1	1.1	0.9	0.7	0.7	0.9	0.5	0.5	0.4	1.0	1.4	1.2	0.9
1967	1.0	1.0	1.1	1.0	0.5	0.6	0.4	0.4	0.9	1.0	1.3	1.2	0.9
1968	0.8	0.4	0.6	0.5	0.4	0.5	0.3	0.2	0.3	0.7	0.4	0.6	0.5
1969	1.2	1.1	0.8	0.9	0.9	0.4	0.3	0.5	0.8	1.4	1.1	0.6	0.8
1970	1.0	1.1	0.8	0.6	0.8	0.5	0.4	0.4	0.6	1.4	0.8	0.8	0.8
1971	0.8	0.8	0.7	0.6	0.4	0.2	0.4	0.4	0.8	0.7	1.2	1.3	0.7
1972	1.1	1.1	1.0	1.0	1.0	0.8	0.7	0.5	0.7	1.0	0.7	1.1	0.9
1973	0.9	1.2	1.1	1.1	0.8	0.9	0.7	0.8	0.8	1.5	1.2	0.8	1.0
1974	0.5	0.6	0.8	0.8	0.3	0.2	0.2	0.3	0.4	1.2	0.8	0.6	0.5
1975	0.7	0.6	0.5	0.6	0.2	0.2	0.4	0.2	0.7	0.7	1.1	1.1	0.6
MEAN	0.9	0.9	0.8	0.8	0.6	0.5	0.4	0.4	0.8	1.1	1.0	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 154

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	2.0	2.4	2.4	1.4	2.2	1.1	1.3	0.7	2.8	3.0	3.2	1.8
1957	2.5	2.7	1.4	2.2	1.6	1.5	1.0	1.3	1.7	2.4	3.2	2.4
1958	3.5	2.5	2.0	2.4	2.2	1.4	1.4	1.1	1.5	2.7	2.0	2.6
1959	2.6	2.2	2.9	2.3	2.2	1.1	1.6	1.3	2.5	2.2	2.9	2.6
1960	1.7	2.1	2.0	2.3	1.5	2.5	0.8	1.8	2.7	1.7	2.4	2.7
1961	2.2	2.2	1.7	2.0	2.0	1.7	1.0	1.4	2.5	2.5	2.2	2.2
1962	2.4	2.3	2.1	2.4	2.0	1.1	0.9	1.7	1.9	2.4	3.3	2.9
1963	2.2	2.2	2.6	2.3	2.1	1.6	1.1	0.9	3.0	3.1	2.2	2.6
1964	2.3	2.2	2.0	1.8	2.3	1.0	2.0	1.9	2.2	2.7	2.3	2.3
1965	2.4	2.1	2.2	1.5	1.4	1.5	0.8	1.0	3.2	2.2	2.4	2.5
1966	2.3	3.1	2.1	2.3	2.1	2.3	2.1	2.1	1.5	2.8	2.8	2.4
1967	2.1	2.4	2.5	2.5	1.3	1.5	1.0	0.9	2.1	2.1	2.7	2.3
1968	2.6	1.4	2.4	1.0	1.8	2.1	0.8	0.8	1.0	2.1	1.3	2.2
1969	2.6	2.1	1.7	2.1	1.8	1.0	0.9	1.3	2.1	2.8	2.4	2.0
1970	2.6	2.4	1.8	1.5	2.1	2.0	1.3	1.5	1.6	2.8	2.9	2.0
1971	2.4	2.1	2.0	2.0	1.4	1.0	1.1	1.5	2.2	2.3	2.5	3.4
1972	3.0	3.0	2.4	2.5	2.4	2.2	1.7	1.0	1.6	2.7	2.3	2.8
1973	2.4	2.5	2.4	2.2	1.7	1.8	0.9	1.3	1.7	3.0	3.2	1.9
1974	1.5	2.6	1.7	2.0	0.9	0.8	0.6	0.8	1.3	3.6	2.5	1.6
1975	2.0	1.4	1.8	1.8	0.8	0.5	1.0	0.8	1.3	2.1	2.4	2.7

LARGEST HS(METRES) FOR STATION 154 = 3.6

STATION 155 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2280	2794	1321	795	319	200	.	.	.	.	7709
0.50 - 0.99	.	414	1706	711	229	123	.	.	.	.	3183
1.00 - 1.49	.	.	46	118	39	6	.	.	.	.	209
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2280	3208	3073	1624	588	329	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.58 ANGLE CLASS % = 11.1

STATION 155 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2056	2549	.	.	1	3	1	.	.	.	4610
0.50 - 0.99	.	2130	3730	359	25	44	1	.	.	.	6289
1.00 - 1.49	.	.	518	1372	145	53	.	.	.	.	2088
1.50 - 1.99	.	.	.	107	263	68	3	.	.	.	441
2.00 - 2.49	.	.	.	.	29	39	.	.	.	.	68
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2056	4679	4248	1838	463	208	5	0	0	0	

AVERAGE HS(M) = 0.70 LARGEST HS(M) = 2.56 ANGLE CLASS % = 13.5

STATION 155 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1173	1618	.	.	2183	203	400	106	260	88	6031
0.50 - 0.99	.	1632	2879	99	53	325	617	337	104	162	6208
1.00 - 1.49	.	.	626	1728	165	109	155	154	78	152	3167
1.50 - 1.99	.	.	.	309	663	143	42	25	34	68	1284
2.00 - 2.49	.	.	.	.	220	393	11	.	15	30	669
2.50 - 2.99	.	.	.	.	.	35	17	5	.	34	91
3.00 - 3.49	.	.	.	.	.	.	1	1	.	5	7
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1173	3250	3505	2136	3284	1208	1243	628	491	539	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.47 ANGLE CLASS % = 17.5

STATION 155 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	840	951			1471	2970	1107	164	2739	961	11203
0.50 - 0.99	.	1237	2104	68	68	1689	2751	1664	2436	1861	14078
1.00 - 1.49	.	.	641	1380	143	467	2159	2411	2301	732	10234
1.50 - 1.99	.	.	.	374	790	337	704	770	876	1398	5249
2.00 - 2.49	.	.	.	.	292	1245	395	241	100	862	3135
2.50 - 2.99	.	.	.	.	.	157	306	88	5	207	763
3.00 - 3.49	.	.	.	.	.	.	32	54	6	46	138
3.50 - 3.99	.	.	.	.	.	.	.	5	5	10	20
4.00 - 4.49	.	.	.	.	.	.	.	.	.	3	3
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	840	2188	2745	1822	2764	7065	7454	5397	8468	6080	

AVERAGE HS(M) = 1.00 LARGEST HS(M) = 4.13 ANGLE CLASS % = 44.8

STATION 155 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	402	468			290	874	136	.	.	.	2170
0.50 - 0.99	.	396	1033	207	53	1030	313	3	.	.	3035
1.00 - 1.49	.	.	278	687	366	780	265	3	1	.	2380
1.50 - 1.99	.	.	.	90	249	735	253	.	5	.	1332
2.00 - 2.49	.	.	.	.	35	239	212	5	1	.	492
2.50 - 2.99	.	.	.	.	.	5	18	6	.	.	29
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	402	864	1311	984	993	3663	1197	17	7	0	

AVERAGE HS(M) = 0.98 LARGEST HS(M) = 2.88 ANGLE CLASS % = 9.5

STATION 155 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

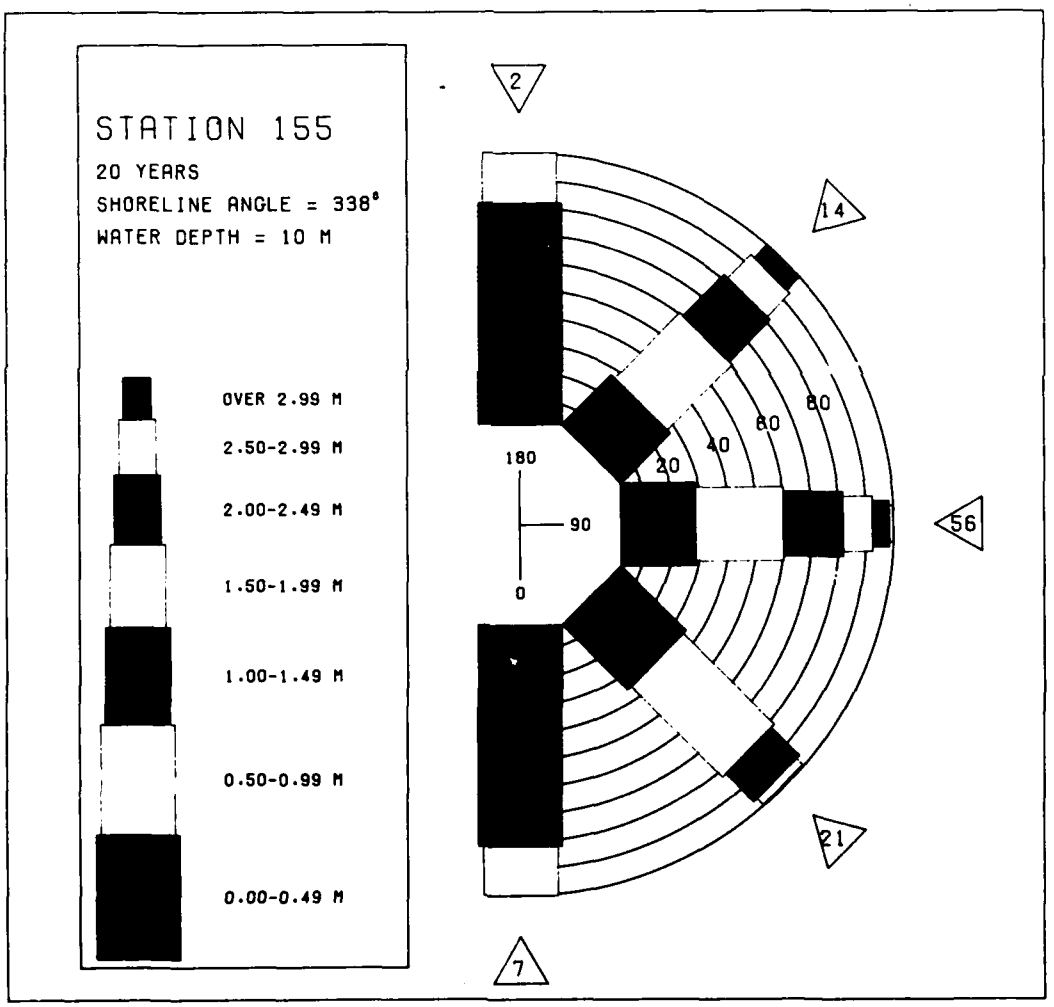
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	439	727	527	458	82	.	.	.	.	.	2233
0.50 - 0.99	.	82	390	662	128	1	.	.	.	.	1283
1.00 - 1.49	.	.	3	68	10	.	.	.	.	.	81
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	439	809	920	1208	221	1	0	0	0	0	

AVERAGE HS(M) = 0.43 LARGEST HS(M) = 1.74 ANGLE CLASS % = 3.6

STATION 155 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 338.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	719	911	184	125	434	425	164	27	299	105	3393
0.50 - 0.99	.	589	1184	212	55	341	358	200	254	202	3405
1.00 - 1.49	.	.	211	535	87	141	258	256	238	88	1814
1.50 - 1.99	.	.	.	88	197	126	100	79	91	146	829
2.00 - 2.49	.	.	.	.	57	191	61	24	11	89	433
2.50 - 2.99	.	.	.	.	.	20	34	10	.	24	88
3.00 - 3.49	.	.	.	.	.	.	3	5	.	5	13
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	719	1500	1579	960	830	1246	988	601	893	660	

AVE HS(M) = 0.83 LARGEST HS(M) = 4.13 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 155

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.7	0.8	1.0	1.1	0.8	0.5	0.4	0.3	1.1	1.1	2.3	1.8	1.0
1957	1.2	1.3	0.9	1.2	0.8	0.7	0.5	0.6	0.8	1.1	1.2	1.4	1.0
1958	2.4	2.1	1.9	1.8	0.8	0.5	0.6	0.3	0.6	1.0	0.7	1.2	1.2
1959	1.4	1.1	1.1	1.1	0.7	0.4	0.5	0.5	1.0	0.8	1.4	1.3	0.9
1960	0.8	0.7	0.8	1.0	0.5	0.6	0.3	0.6	0.9	0.7	1.2	1.8	0.8
1961	0.8	0.7	0.6	0.7	0.6	0.5	0.4	0.6	0.8	1.4	1.0	0.9	0.8
1962	1.0	0.8	0.9	0.9	0.6	0.5	0.3	0.4	0.5	0.9	1.0	0.9	0.7
1963	0.8	0.8	0.8	0.7	0.7	0.5	0.3	0.3	0.8	1.5	1.0	0.9	0.8
1964	0.8	0.7	1.0	0.9	0.7	0.4	0.5	0.4	0.9	1.2	0.9	1.1	0.8
1965	1.0	0.9	0.5	0.5	0.6	0.6	0.4	0.4	1.6	0.9	0.9	1.7	0.8
1966	1.4	1.2	1.0	0.8	0.7	0.5	0.6	0.6	0.4	1.1	1.7	1.5	1.0
1967	1.3	1.2	1.3	1.1	0.5	0.5	0.5	0.4	0.7	1.0	1.3	1.0	0.9
1968	0.8	0.4	0.7	0.5	0.4	0.5	0.3	0.3	0.3	0.7	0.5	0.6	0.5
1969	1.4	1.1	0.7	0.8	0.8	0.4	0.3	0.5	0.7	1.2	1.1	0.8	0.8
1970	1.0	1.5	1.0	0.7	0.9	0.6	0.5	0.6	0.8	1.4	0.9	1.3	0.9
1971	0.9	1.0	0.8	0.6	0.4	0.2	0.4	0.4	0.8	0.7	1.3	1.3	0.7
1972	1.3	1.5	1.4	1.2	1.1	0.8	0.8	0.6	0.6	1.0	0.7	1.4	1.0
1973	0.8	1.1	1.2	0.9	0.5	0.5	0.3	0.4	0.4	1.4	1.7	1.2	0.9
1974	0.4	0.7	1.4	1.2	0.3	0.2	0.2	0.3	0.4	1.2	0.6	0.5	0.6
1975	0.6	0.4	0.5	0.5	0.2	0.1	0.3	0.2	0.4	0.5	1.2	1.3	0.5
MEAN	1.0	1.0	1.0	0.9	0.6	0.5	0.4	0.4	0.7	1.0	1.1	1.2	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 155

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.7	2.0	2.6	1.8	2.2	1.2	1.4	0.8	2.8	3.1	3.7	2.2
1957	2.8	2.6	1.6	2.2	1.7	1.5	0.9	1.3	1.8	2.4	2.8	2.4
1958	4.1	2.8	2.4	3.3	2.0	1.7	1.4	1.0	1.5	2.5	2.0	2.5
1959	2.8	2.2	2.8	2.5	2.1	1.0	1.3	1.2	2.5	2.3	2.9	2.7
1960	1.8	1.6	2.0	2.3	1.3	2.2	0.8	2.0	2.4	1.5	2.4	3.1
1961	2.1	2.1	1.7	2.1	2.0	1.8	1.0	1.3	2.5	2.5	2.4	2.4
1962	2.5	2.2	1.9	2.4	2.0	1.1	0.9	1.8	1.8	2.4	3.1	2.7
1963	2.2	2.1	2.6	2.3	2.2	1.6	1.1	0.8	2.9	2.8	2.2	2.6
1964	2.2	2.4	1.9	2.1	2.6	1.1	2.0	1.4	2.0	2.6	2.3	2.5
1965	2.7	2.1	2.2	1.8	1.4	1.7	0.9	1.0	3.7	2.2	2.4	2.6
1966	2.5	3.0	2.1	2.4	1.9	2.3	1.9	2.0	1.7	2.9	3.0	2.3
1967	2.1	2.5	2.4	2.6	1.3	1.4	1.0	1.0	2.0	2.4	2.9	2.5
1968	2.6	1.4	2.2	1.1	2.0	2.2	1.0	1.0	0.9	2.1	1.4	2.2
1969	2.5	2.3	1.7	2.1	1.9	1.0	0.9	1.1	2.1	2.7	2.6	1.7
1970	2.5	2.5	1.7	1.7	2.0	2.4	1.4	1.6	1.5	2.8	3.0	2.3
1971	2.4	2.4	2.1	1.7	1.6	1.0	1.3	1.5	2.1	2.0	2.6	3.3
1972	3.1	3.2	2.5	2.2	2.2	2.2	1.6	1.2	1.7	2.6	2.0	3.1
1973	2.2	2.5	2.5	2.2	1.4	1.6	0.8	1.3	1.3	3.0	3.6	2.3
1974	1.2	2.7	2.0	2.1	1.0	1.0	0.5	0.9	1.1	3.3	2.3	1.6
1975	1.9	1.2	1.7	2.1	0.7	0.5	0.9	0.9	1.3	2.3	2.3	2.8

LARGEST HS(METRES) FOR STATION 155 = 4.1

STATION 156 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2200	2720	1283	771	278	167	.	.	.	.	7419
0.50 - 0.99	.	385	1584	694	263	138	.	.	.	.	3064
1.00 - 1.49	.	.	47	154	27	6	.	.	.	.	234
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2200	3105	2914	1619	571	311	0	0	0	0	

AVERAGE HS(M) = 0.37 LARGEST HS(M) = 1.67 ANGLE CLASS % = 10.7

STATION 156 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2020	2315	.	.	23	5	1	.	.	.	4341
0.50 - 0.99	.	2075	3622	355	23	46	1	.	.	.	6122
1.00 - 1.49	.	.	480	1264	155	59	.	.	.	.	1958
1.50 - 1.99	.	.	.	88	205	61	1	.	.	.	355
2.00 - 2.49	.	.	.	.	25	32	.	.	.	.	57
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2020	4390	4102	1707	408	204	3	0	0	0	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 2.56 ANGLE CLASS % = 12.8

STATION 156 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1242	1764	.	.	2072	159	142	102	256	83	5820
0.50 - 0.99	.	1728	2926	104	29	236	227	343	102	167	5862
1.00 - 1.49	.	.	629	1726	155	42	97	150	78	148	3025
1.50 - 1.99	.	.	.	292	621	87	22	25	34	68	1149
2.00 - 2.49	.	.	.	.	186	316	8	.	15	30	555
2.50 - 2.99	.	.	.	.	.	32	13	5	.	34	84
3.00 - 3.49	.	.	.	.	.	.	1	.	.	5	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	1242	3492	3555	2122	3063	872	510	625	485	535	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.27 ANGLE CLASS % = 16.5

STATION 156 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	941	1103			1421	2797	1454	183	2744	999	11642
0.50 - 0.99	.	1408	2390	82	87	1870	3290	1495	2390	1620	15032
1.00 - 1.49	.	.	682	1575	174	492	2135	2393	2250	677	10378
1.50 - 1.99	.	.	1	343	870	395	686	711	795	1478	5279
2.00 - 2.49	.	.	.	.	347	1247	354	220	71	836	3075
2.50 - 2.99	.	.	.	.	.	159	230	87	1	143	670
3.00 - 3.49	.	.	.	.	.	.	27	49	6	30	112
3.50 - 3.99	.	.	.	.	.	.	.	3	5	10	18
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	941	2511	3073	1997	2899	6960	8226	5341	8262	5994	

AVERAGE HS(M) = 0.99 LARGEST HS(M) = 4.02 ANGLE CLASS % = 46.2

STATION 156 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	422	475			371	1115	66	.	.	.	2449
0.50 - 0.99	.	431	1122	210	77	1107	219	5	.	.	3171
1.00 - 1.49	.	.	313	752	366	742	261	3	3	.	2440
1.50 - 1.99	.	.	.	114	246	689	270	3	8	.	1330
2.00 - 2.49	.	.	.	.	27	213	191	6	1	.	438
2.50 - 2.99	.	.	.	.	.	5	20	10	.	.	35
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	422	906	1435	1076	1087	3871	1027	27	12	0	

AVERAGE HS(M) = 0.96 LARGEST HS(M) = 2.88 ANGLE CLASS % = 9.9

STATION 156 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

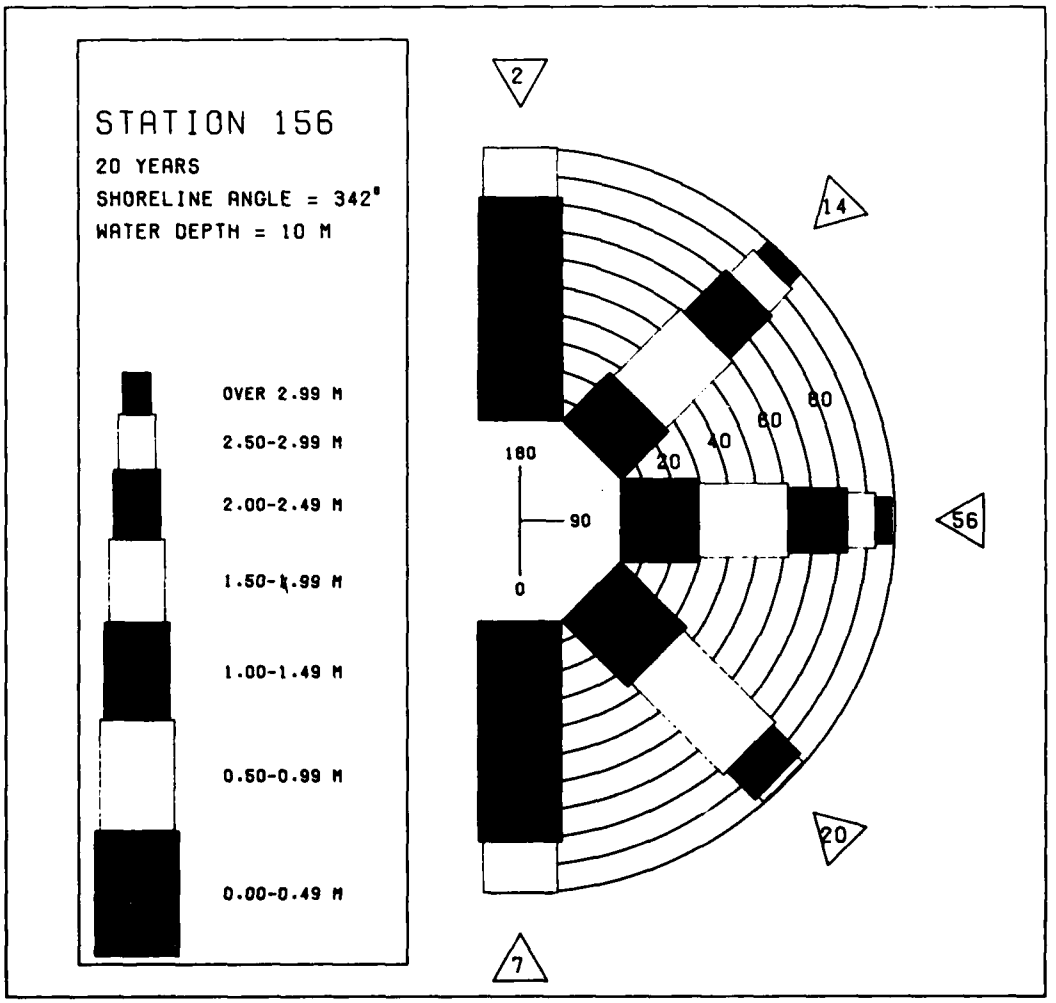
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	463	797	532	506	97	.	.	.	.	.	2395
0.50 - 0.99	.	71	432	663	140	.	.	.	.	.	1306
1.00 - 1.49	.	.	8	58	15	.	.	.	.	.	81
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	463	868	972	1227	255	0	0	0	0	0	

AVERAGE HS(M) = 0.42 LARGEST HS(M) = 1.74 ANGLE CLASS % = 3.8

STATION 156 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 342.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	729	917	181	127	424	424	166	28	300	108	3404
0.50 - 0.99	.	610	1207	211	62	339	373	204	249	198	3453
1.00 - 1.49	.	.	216	552	89	134	249	254	233	82	1609
1.50 - 1.99	.	.	.	84	145	123	98	74	83	154	811
2.00 - 2.49	.	.	.	.	58	181	55	22	8	86	410
2.50 - 2.99	.	.	.	.	.	19	31	10	.	17	77
3.00 - 3.49	.	.	.	.	.	.	2	4	.	3	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	729	1527	1604	974	828	1220	974	596	873	649	

AVE HS(M) = 0.82 LARGEST HS(M) = 4.02 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 156

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.8	1.0	1.1	0.8	0.5	0.4	0.3	1.1	1.1	2.2	1.7	1.0
1957	1.2	1.3	0.9	1.2	0.8	0.7	0.5	0.6	0.8	1.1	1.2	1.4	1.0
1958	2.3	2.0	1.8	1.8	0.8	0.5	0.6	0.3	0.6	1.0	0.7	1.2	1.1
1959	1.3	1.1	1.1	1.1	0.7	0.4	0.5	0.5	0.9	0.8	1.4	1.3	0.9
1960	0.8	0.7	0.7	1.0	0.5	0.6	0.4	0.6	0.9	0.7	1.2	1.8	0.8
1961	0.8	0.7	0.6	0.6	0.6	0.5	0.4	0.6	0.8	1.4	1.0	0.9	0.8
1962	1.0	0.8	0.9	0.9	0.6	0.5	0.3	0.4	0.5	0.9	1.0	0.9	0.7
1963	0.8	0.8	0.8	0.7	0.7	0.5	0.3	0.3	0.8	1.5	1.0	0.9	0.8
1964	0.7	0.7	1.0	0.9	0.7	0.4	0.5	0.4	0.9	1.2	0.9	1.1	0.8
1965	1.0	0.8	0.5	0.5	0.6	0.6	0.4	0.4	1.5	0.9	0.9	1.6	0.8
1966	1.4	1.1	1.0	0.8	0.7	0.9	0.6	0.6	0.4	1.1	1.7	1.5	1.0
1967	1.3	1.2	1.3	1.0	0.5	0.5	0.5	0.4	0.7	1.0	1.3	1.0	0.9
1968	0.8	0.3	0.7	0.5	0.4	0.5	0.3	0.3	0.3	0.7	0.5	0.6	0.5
1969	1.3	1.1	0.6	0.8	0.8	0.4	0.3	0.5	0.7	1.2	1.1	0.8	0.8
1970	1.0	1.5	1.0	0.7	0.9	0.6	0.5	0.6	0.8	1.4	0.9	1.3	0.9
1971	0.9	1.0	0.8	0.6	0.4	0.3	0.4	0.4	0.7	0.7	1.3	1.3	0.7
1972	1.3	1.5	1.4	1.2	1.1	0.8	0.8	0.6	0.6	1.0	0.7	1.4	1.0
1973	0.8	1.1	1.1	0.9	0.5	0.5	0.3	0.4	0.4	1.4	1.7	1.2	0.9
1974	0.4	0.7	1.3	1.2	0.3	0.2	0.2	0.3	0.4	1.2	0.6	0.4	0.6
1975	0.6	0.4	0.5	0.5	0.2	0.1	0.3	0.2	0.4	0.5	1.2	1.2	0.5
MEAN	1.0	1.0	1.0	0.9	0.6	0.5	0.4	0.4	0.7	1.0	1.1	1.2	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 156

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.7	2.0	2.4	1.7	2.2	1.3	1.4	0.8	2.8	3.1	3.6	2.1
1957	2.6	2.6	1.6	2.2	1.6	1.5	0.9	1.3	1.8	2.4	2.8	2.4
1958	4.0	2.7	2.4	3.2	2.0	1.6	1.4	1.0	1.5	2.4	2.0	2.5
1959	2.8	2.2	2.9	2.5	2.1	1.0	1.3	1.2	2.4	2.3	2.9	2.7
1960	1.7	1.6	1.9	2.3	1.3	2.2	0.9	2.0	2.4	1.5	2.4	3.0
1961	2.2	2.1	1.7	2.1	2.0	1.8	1.0	1.3	2.5	2.5	2.3	2.4
1962	2.5	2.2	1.7	2.4	2.0	1.1	0.9	1.8	1.8	2.4	3.1	2.7
1963	2.2	2.1	2.6	2.3	2.2	1.5	1.1	0.8	2.9	2.8	2.2	2.6
1964	2.1	2.2	1.9	2.1	2.6	1.1	2.1	1.6	1.9	2.6	2.3	2.5
1965	2.7	2.1	2.2	1.8	1.4	1.7	0.9	1.0	3.7	2.2	2.4	2.6
1966	2.5	3.0	2.1	2.4	1.9	2.3	1.9	2.0	1.7	2.9	3.0	2.3
1967	2.1	2.3	2.4	2.6	1.3	1.4	1.0	1.0	1.9	2.3	2.8	2.4
1968	2.6	1.0	2.2	1.1	2.0	2.2	1.0	1.0	0.9	2.1	1.4	2.2
1969	2.4	2.2	1.6	2.1	1.9	1.0	0.9	1.1	2.1	2.7	2.6	1.7
1970	2.5	2.5	1.7	1.7	2.0	2.4	1.4	1.7	1.5	2.8	2.8	2.3
1971	2.4	2.4	2.1	1.7	1.6	1.0	1.3	1.5	2.1	1.9	2.5	3.3
1972	3.1	3.2	2.5	2.2	2.2	2.2	1.6	1.2	1.7	2.6	2.0	3.0
1973	2.2	2.4	2.4	2.2	1.5	1.6	0.8	1.3	1.3	3.0	3.5	2.2
1974	1.2	2.7	2.0	2.1	1.0	1.0	0.5	0.9	1.1	3.3	2.3	1.6
1975	1.9	1.2	1.7	2.1	0.7	0.5	0.9	0.9	1.4	2.3	2.3	2.8

LARGEST HS(METRES) FOR STATION 156 = 4.0

STATION 157 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 347.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2046	2511	1218	747	239	138	.	.	.	.	6899
0.50 - 0.99	.	362	1507	662	256	121	.	.	.	.	2908
1.00 - 1.49	.	.	41	131	58	5	.	.	.	.	235
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2046	2873	2766	1540	556	264	0	0	0	0	

AVERAGE HS(M) = 0.38 LARGEST HS(M) = 1.72 ANGLE CLASS % = 10.1

STATION 157 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 347.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1950	2125				5	1	.	.	.	4081
0.50 - 0.99	.	1870	3331	376	34	58	1	.	.	.	5670
1.00 - 1.49	.	.	444	1226	136	88	.	.	.	.	1894
1.50 - 1.99	.	.	.	75	167	49	1	.	.	.	292
2.00 - 2.49	.	.	.	.	30	22	.	.	.	.	52
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1950	3995	3775	1677	367	222	3	0	0	0	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 2.49 ANGLE CLASS % = 12.0

STATION 157 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 347.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1351	1841			1976	150	130	107	254	88	5897
0.50 - 0.99	.	1863	3044	99	18	205	222	342	102	171	6066
1.00 - 1.49	.	.	609	1605	152	34	71	152	78	138	2839
1.50 - 1.99	.	.	.	263	545	75	17	22	34	71	1027
2.00 - 2.49	.	.	.	.	160	239	5	.	15	30	449
2.50 - 2.99	.	.	.	.	.	23	5	5	.	34	67
3.00 - 3.49	.	.	.	.	.	.	1	.	.	5	6
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1351	3704	3653	1967	2851	726	451	628	483	537	

AVERAGE HS(M) = 0.76 LARGEST HS(M) = 3.29 ANGLE CLASS % = 16.4

STATION 157 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 347.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1079	1338	.	.	1090	2720	1386	189	2677	987	11466
0.50 - 0.99	.	1596	2659	87	68	1866	3246	1724	2385	1806	15457
1.00 - 1.49	.	.	734	1753	219	494	2130	2313	2251	674	10568
1.50 - 1.99	.	.	.	376	913	427	682	689	773	1497	5357
2.00 - 2.49	.	.	.	.	350	1213	321	222	70	823	2999
2.50 - 2.99	.	.	.	.	.	164	253	83	.	143	643
3.00 - 3.49	.	.	.	.	.	.	27	41	6	29	103
3.50 - 3.99	.	.	.	.	.	.	.	.	5	10	15
4.00 - 4.49	.	.	.	.	.	.	.	.	.	1	1
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1079	2934	3393	2216	2660	6884	8045	5261	8167	5970	

AVERAGE HS(M) = 0.98 LARGEST HS(M) = 4.02 ANGLE CLASS % = 46.6

STATION 157 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 347.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	467	566	3	.	730	1255	147	13	.	.	3181
0.50 - 0.99	.	509	1326	241	94	1036	308	20	.	.	3534
1.00 - 1.49	.	.	337	882	420	677	290	15	10	.	2631
1.50 - 1.99	.	.	1	94	231	614	258	10	8	.	1216
2.00 - 2.49	.	.	.	.	47	224	159	6	.	.	436
2.50 - 2.99	.	.	.	.	.	5	22	13	.	.	40
3.00 - 3.49	.	.	.	.	.	.	.	3	.	.	3
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	467	1075	1667	1217	1522	3811	1184	80	18	0	

AVERAGE HS(M) = 0.90 LARGEST HS(M) = 3.37 ANGLE CLASS % = 11.1

STATION 157 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 347.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

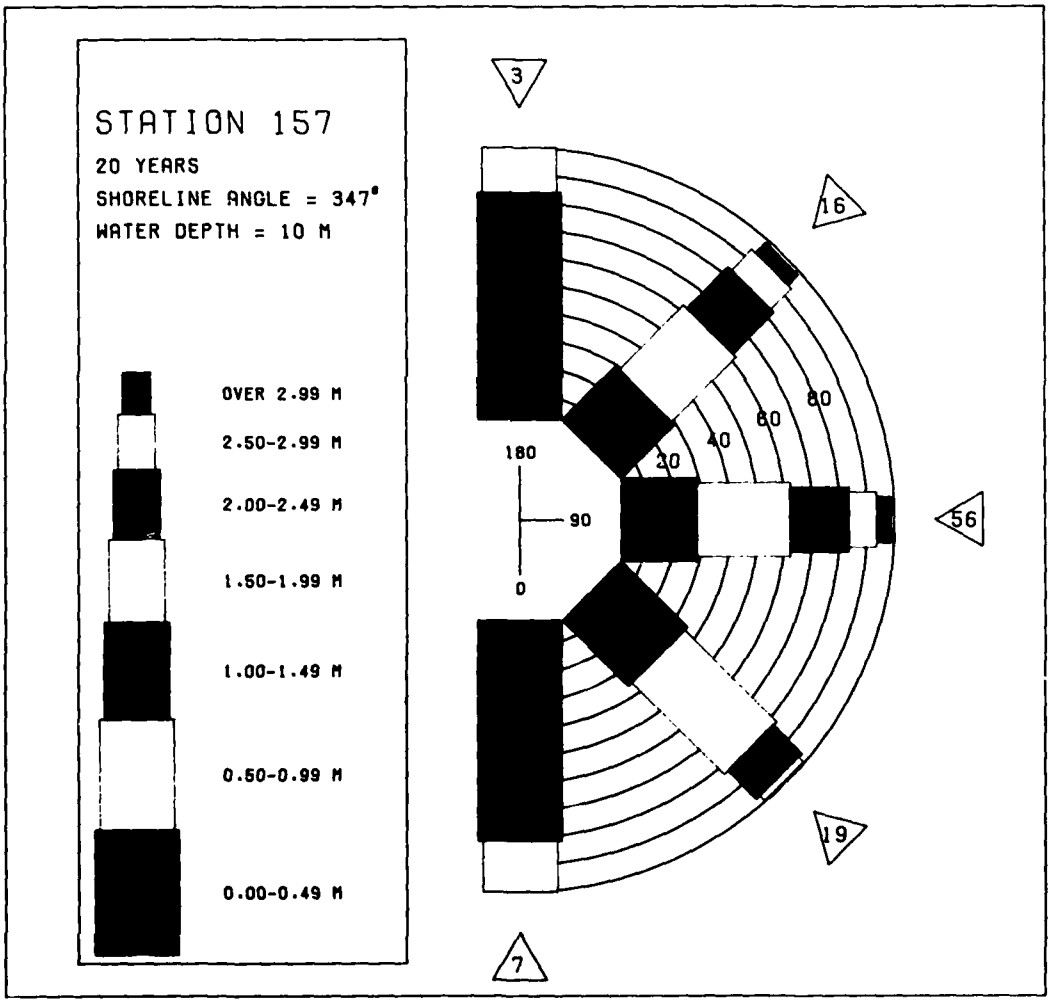
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	508	821	562	561	121	1	.	.	.	.	2574
0.50 - 0.99	.	65	429	602	133	5	.	.	.	.	1234
1.00 - 1.49	.	.	6	46	18	.	.	.	.	.	70
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	508	886	997	1209	273	6	0	0	0	0	

AVERAGE HS(M) = 0.40 LARGEST HS(M) = 1.62 ANGLE CLASS % = 3.9

STATION 157 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 347.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	740	920	178	130	415	427	166	31	293	107	3407
0.50 - 0.99	.	626	1229	206	62	329	377	208	548	197	3482
1.00 - 1.49	.	.	217	564	100	130	249	248	234	81	1823
1.50 - 1.99	.	.	.	80	186	116	95	72	81	156	786
2.00 - 2.49	.	.	.	.	59	169	48	22	8	85	391
2.50 - 2.99	.	.	.	.	.	19	28	10	.	17	74
3.00 - 3.49	.	.	.	.	.	.	2	4	.	3	9
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	740	1546	1624	980	822	1190	965	595	864	647	

AVE HS(M) = 0.82 LARGEST HS(M) = 4.02 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 157

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.6	0.8	1.0	1.1	0.8	0.5	0.4	0.3	1.1	1.1	2.2	1.7	1.0
1957	1.1	1.3	0.9	1.2	0.8	0.7	0.5	0.6	0.8	1.1	1.2	1.4	1.0
1958	2.3	2.0	1.9	1.8	0.8	0.5	0.7	0.3	0.6	1.0	0.7	1.1	1.1
1959	1.3	1.0	1.1	1.1	0.7	0.4	0.5	0.5	0.9	0.8	1.4	1.3	0.9
1960	0.8	0.7	0.7	1.0	0.5	0.7	0.4	0.6	1.0	0.7	1.2	1.8	0.8
1961	0.8	0.7	0.6	0.6	0.6	0.5	0.4	0.6	0.8	1.4	1.0	0.9	0.7
1962	1.0	0.8	0.8	0.9	0.6	0.5	0.3	0.4	0.5	0.8	1.0	0.9	0.7
1963	0.8	0.8	0.8	0.7	0.7	0.5	0.3	0.3	0.8	1.4	1.0	0.9	0.7
1964	0.7	0.7	1.0	0.9	0.7	0.4	0.6	0.4	0.9	1.1	0.9	1.1	0.8
1965	1.0	0.8	0.5	0.5	0.6	0.6	0.4	0.4	1.5	0.9	0.9	1.6	0.8
1966	1.4	1.1	1.0	0.8	0.7	0.9	0.6	0.6	0.4	1.1	1.7	1.5	1.0
1967	1.3	1.2	1.3	1.0	0.5	0.5	0.5	0.4	0.7	1.0	1.3	0.9	0.9
1968	0.8	0.3	0.7	0.5	0.4	0.5	0.3	0.3	0.3	0.7	0.5	0.6	0.5
1969	1.3	1.0	0.6	0.8	0.8	0.4	0.3	0.5	0.7	1.1	1.1	0.8	0.8
1970	0.9	1.5	1.0	0.7	0.9	0.6	0.5	0.6	0.8	1.4	0.9	1.2	0.9
1971	0.9	1.0	0.8	0.6	0.4	0.3	0.4	0.4	0.7	0.7	1.3	1.3	0.7
1972	1.3	1.5	1.4	1.2	1.1	0.8	0.8	0.6	0.6	1.0	0.6	1.3	1.0
1973	0.8	1.1	1.1	0.9	0.5	0.5	0.3	0.4	0.4	1.4	1.6	1.2	0.8
1974	0.4	0.7	1.3	1.2	0.3	0.2	0.2	0.3	0.4	1.2	0.6	0.4	0.6
1975	0.6	0.4	0.5	0.5	0.2	0.1	0.3	0.2	0.4	0.5	1.2	1.2	0.5
MEAN	1.0	1.0	0.9	0.9	0.6	0.5	0.4	0.4	0.7	1.0	1.1	1.2	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 157

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.7	2.0	2.4	1.7	2.2	1.3	1.4	0.8	2.7	3.0	3.6	2.1
1957	2.6	2.5	1.6	2.2	1.6	1.5	0.9	1.3	1.8	2.3	2.8	2.4
1958	4.0	2.7	2.4	3.2	2.0	1.6	1.4	1.0	1.5	2.4	2.0	2.5
1959	2.8	2.2	2.9	2.4	2.1	1.0	1.3	1.2	2.4	2.4	2.8	2.7
1960	1.5	1.6	1.8	2.3	1.3	2.2	1.0	2.0	2.4	1.5	2.4	3.0
1961	2.2	2.1	1.7	2.1	2.0	1.8	1.0	1.3	2.4	2.5	2.3	2..
1962	2.5	2.1	1.7	2.4	2.0	1.1	0.9	1.9	1.8	2.4	3.1	2.7
1963	2.1	2.1	2.5	2.3	2.2	1.5	1.1	0.8	2.9	2.8	2.2	2.6
1964	2.1	2.2	1.7	2.1	2.3	1.1	2.1	1.6	1.9	2.6	2.3	2.5
1965	2.7	2.1	2.3	1.6	1.4	1.7	0.9	1.0	3.7	2.2	2.4	2.5
1966	2.4	3.0	2.1	2.4	1.9	2.3	1.9	1.9	1.7	2.9	2.9	2.3
1967	2.1	2.2	2.4	2.5	1.3	1.4	1.0	1.0	1.9	2.3	2.7	2.3
1968	2.6	1.0	2.2	1.1	2.0	2.2	1.0	1.0	0.9	2.1	1.4	2.1
1969	2.4	2.2	1.6	2.1	1.8	1.0	1.0	1.0	2.0	2.7	2.6	1.7
1970	2.4	2.5	1.7	1.6	2.0	2.4	1.4	1.7	1.5	2.8	2.8	2.3
1971	2.4	2.4	1.9	1.7	1.6	1.0	1.3	1.5	2.0	1.9	2.5	3.3
1972	3.1	3.1	2.5	2.2	2.2	2.2	1.6	1.2	1.7	2.6	2.0	3.0
1973	2.1	2.4	2.4	2.2	1.5	1.6	0.8	1.3	1.3	2.9	3.5	2.2
1974	1.2	2.5	2.0	2.2	1.1	1.3	0.5	0.9	1.0	3.3	2.3	1.6
1975	1.9	1.2	1.8	2.1	0.7	0.5	0.9	0.9	1.4	2.3	2.4	2.8

LARGEST HS(METRES) FOR STATION 157 = 4.0

STATION 158 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2553	2469	1194	549	106	58	3	.	.	.	6932
0.50 - 0.99	.	241	1156	586	217	100	3	.	.	.	2303
1.00 - 1.49	.	.	15	66	82	5	.	.	.	.	168
1.50 - 1.99	.	.	.	.	10	.	.	.	.	.	10
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2553	2710	2365	1201	415	163	6	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.77 ANGLE CLASS % = 9.4

STATION 158 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1815	1581	.	.	30	11	8	.	.	.	3445
0.50 - 0.99	.	1350	2547	314	11	42	1	.	.	.	4265
1.00 - 1.49	.	.	241	942	282	130	3	.	.	.	1598
1.50 - 1.99	.	.	.	87	112	97	1	.	.	.	297
2.00 - 2.49	.	.	.	.	30	15	.	.	.	.	45
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1815	2931	2788	1343	465	296	13	0	0	0	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.54 ANGLE CLASS % = 9.7

STATION 158 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1935	2029	.	.	.	.	.	.	.	.	3964
0.50 - 0.99	.	1777	3066	176	.	.	.	.	.	.	5019
1.00 - 1.49	.	.	393	1707	11	.	.	.	.	.	2111
1.50 - 1.99	.	.	.	232	22	.	1	.	.	.	255
2.00 - 2.49	.	.	.	3	10	.	.	.	.	.	13
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1935	3806	3459	2118	43	0	1	0	0	0	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.22 ANGLE CLASS % = 11.4

STATION 158 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2551	2855			639	1480	1214	241	2811	1093	12884
0.50 - 0.99	.	2618	4731	342	.	263	1427	1759	2330	1863	15333
1.00 - 1.49	.	.	756	3598	124	3	853	1640	2320	627	9921
1.50 - 1.99	.	.	.	936	260	88	373	414	612	1480	4163
2.00 - 2.49	.	.	.	27	65	254	207	94	68	734	1449
2.50 - 2.99	.	.	.	.	.	23	80	35	5	106	249
3.00 - 3.49	.	.	.	.	.	.	5	23	1	23	52
3.50 - 3.99	.	.	.	.	.	.	.	.	.	6	6
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2551	5473	5487	4903	1088	2111	4159	4206	8147	5932	

AVERAGE HS(M) = 0.87 LARGEST HS(M) = 3.86 ANGLE CLASS % = 44.1

STATION 158 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1093	1213	6		1632	1731	646	22	42	.	6385
0.50 - 0.99	.	814	2233	562	174	886	1421	6	56	.	6152
1.00 - 1.49	.	.	261	1122	444	612	747	13	6	.	3205
1.50 - 1.99	.	.	.	118	273	585	328	32	1	.	1337
2.00 - 2.49	.	.	.	.	54	318	225	32	1	.	630
2.50 - 2.99	.	.	.	.	.	5	39	39	1	.	84
3.00 - 3.49	.	.	.	.	.	.	.	.	1	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1093	2027	2500	1802	2577	4137	3406	144	108	0	

AVERAGE HS(M) = 0.79 LARGEST HS(M) = 3.08 ANGLE CLASS % = 17.8

STATION 158 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

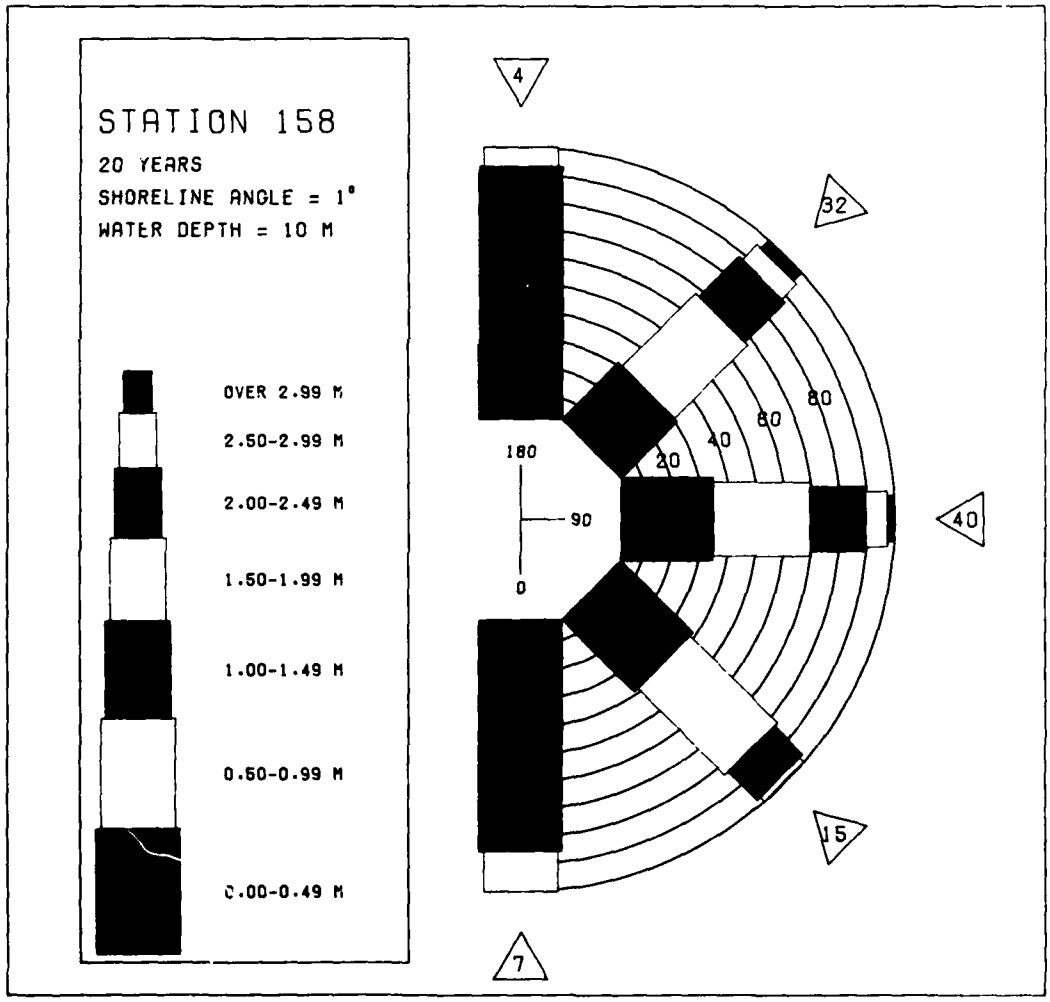
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	918	1406	1004	1226	302	11	.	.	.	.	4867
0.50 - 0.99	.	78	597	494	213	27	.	.	.	.	1409
1.00 - 1.49	.	.	8	13	25	.	.	.	.	.	46
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	918	1484	1609	1733	541	38	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.51 ANGLE CLASS % = 6.3

STATION 158 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 1.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1086	1155	220	177	271	329	187	26	285	109	3845
0.50 - 0.99	.	688	1433	247	61	132	285	176	238	186	3446
1.00 - 1.49	.	.	167	745	97	75	160	165	232	62	1703
1.50 - 1.99	.	.	.	137	68	77	70	44	61	148	605
2.00 - 2.49	.	.	.	3	16	58	43	12	7	73	212
2.50 - 2.99	.	.	.	.	.	3	11	7	.	10	31
3.00 - 3.49	.	.	.	.	.	.	.	2	.	2	4
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1086	1843	1820	1309	513	674	756	432	823	590	

AVE HS(M) = 0.72 LARGEST HS(M) = 3.86 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 158

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.7	0.9	1.1	0.7	0.4	0.4	0.2	1.0	0.9	2.0	1.6	0.9
1957	1.0	1.2	0.9	1.1	0.8	0.6	0.5	0.5	0.7	0.8	1.0	1.2	0.9
1958	2.2	2.0	1.8	1.7	0.7	0.5	0.6	0.2	0.5	0.7	0.6	1.0	1.1
1959	1.2	0.9	1.0	1.0	0.6	0.3	0.5	0.5	0.8	0.6	1.2	1.1	0.8
1960	0.7	0.6	0.6	0.9	0.4	0.6	0.4	0.6	0.8	0.5	1.0	1.6	0.7
1961	0.6	0.7	0.6	0.6	0.5	0.5	0.4	0.5	0.7	1.1	0.9	0.7	0.7
1962	0.8	0.7	0.6	0.7	0.6	0.5	0.3	0.4	0.4	0.6	0.6	0.5	0.6
1963	0.7	0.5	0.7	0.6	0.5	0.4	0.4	0.3	0.5	1.0	0.8	0.7	0.6
1964	0.6	0.5	0.9	0.8	0.5	0.4	0.5	0.4	0.6	0.9	0.7	1.0	0.7
1965	0.9	0.7	0.4	0.4	0.5	0.6	0.4	0.4	1.3	0.6	0.7	1.5	0.7
1966	1.2	1.0	0.9	0.7	0.7	0.8	0.5	0.6	0.3	0.9	1.5	1.4	0.9
1967	1.2	1.1	1.1	0.9	0.5	0.4	0.5	0.4	0.5	0.9	1.1	0.9	0.8
1968	0.6	0.2	0.6	0.4	0.3	0.3	0.3	0.2	0.2	0.6	0.5	0.5	0.4
1969	1.1	0.7	0.6	0.7	0.7	0.4	0.3	0.4	0.6	0.9	0.9	0.7	0.7
1970	0.8	1.5	1.0	0.8	0.9	0.6	0.6	0.6	0.7	1.1	0.8	1.2	0.9
1971	0.8	1.0	0.7	0.5	0.4	0.2	0.4	0.4	0.6	0.5	1.2	1.1	0.6
1972	1.2	1.3	1.3	1.1	0.9	0.8	0.7	0.6	0.6	0.8	0.6	1.3	0.9
1973	0.7	0.9	1.0	0.8	0.4	0.5	0.2	0.4	0.4	1.1	1.5	1.1	0.8
1974	0.4	0.6	1.2	1.1	0.3	0.3	0.2	0.3	0.3	1.0	0.6	0.4	0.5
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.4	0.5	1.0	1.1	0.4
MEAN	0.9	0.9	0.9	0.8	0.6	0.5	0.4	0.4	0.6	0.8	1.0	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 158

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.2	1.6	2.2	1.6	1.8	1.1	1.2	0.8	2.3	2.7	3.2	1.9
1957	2.6	2.4	1.4	2.3	1.5	1.3	0.8	1.2	1.4	2.2	2.5	2.1
1958	3.9	2.4	2.2	2.6	1.5	1.3	1.3	1.1	1.4	2.1	2.0	2.2
1959	2.6	1.8	2.6	2.4	1.6	1.1	1.2	1.1	2.5	1.6	2.6	2.5
1960	1.4	1.5	1.5	2.2	1.2	2.0	1.2	1.4	2.5	1.4	2.2	2.8
1961	2.0	1.7	1.4	2.0	1.5	1.7	1.0	1.2	1.9	2.4	2.2	2.4
1962	2.3	1.8	1.4	1.8	1.6	1.1	0.8	1.5	1.5	2.2	2.2	1.7
1963	1.9	2.1	2.3	2.1	2.1	1.3	1.0	1.2	2.1	2.8	2.3	2.4
1964	1.9	1.9	1.5	1.5	1.3	1.0	1.6	1.5	1.4	2.5	2.2	2.1
1965	2.3	1.9	1.9	1.2	1.2	1.3	1.0	1.0	3.7	2.4	2.3	2.3
1966	2.4	2.5	1.8	1.6	1.5	2.2	1.5	1.3	1.4	2.8	2.6	2.4
1967	2.1	2.1	2.4	2.4	1.3	1.3	1.0	1.0	1.4	1.9	2.5	2.2
1968	2.5	0.9	1.9	1.1	1.5	1.8	1.0	1.0	0.9	2.0	1.5	2.0
1969	2.4	1.9	1.5	1.5	1.5	1.0	1.0	1.2	1.9	2.3	2.3	1.8
1970	2.4	2.4	2.2	1.6	1.9	1.6	1.2	1.3	1.3	2.6	2.5	1.8
1971	1.8	2.0	1.5	1.5	1.3	1.1	1.2	1.5	1.8	1.3	2.2	3.3
1972	3.1	2.6	2.4	2.1	2.1	2.1	1.3	1.1	1.5	2.6	1.5	3.0
1973	2.1	2.0	2.1	1.7	1.3	1.7	0.8	1.3	1.3	2.8	3.3	2.3
1974	1.1	2.3	1.8	1.8	1.1	1.5	0.6	0.9	0.8	3.0	1.9	1.3
1975	2.0	1.2	1.4	1.5	0.7	0.6	1.0	0.9	1.3	1.6	1.9	2.8

LARGEST HS(METRES) FOR STATION 158 = 3.9

AD-A129 642 ATLANTIC COAST HINDCAST SHALLOW-WATER SIGNIFICANT WAVE INFORMATION(U) ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS HYDRAULICS LAB R E JENSEN JAN 83 WIS-9 F/G 12/1 NL

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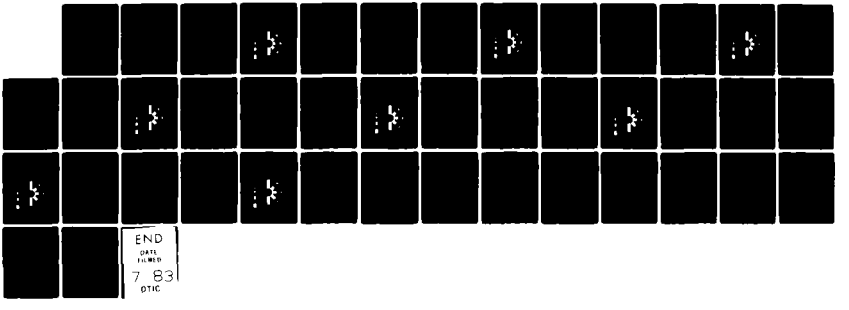

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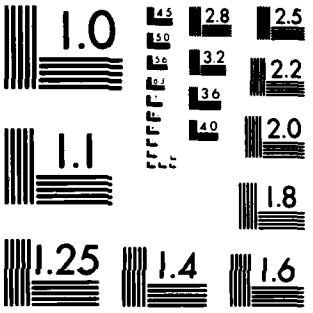


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

STATION 159 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2443	2496	1216	629	70	17	.	.	.	.	6871
0.50 - 0.99	.	191	1137	585	161	51	.	.	.	.	2145
1.00 - 1.49	.	.	23	97	66	8	.	.	.	.	194
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2443	2687	2376	1311	320	76	0	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.59 ANGLE CLASS % = 9.2

STATION 159 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1659	1445	.	.	30	17	10	.	.	.	3161
0.50 - 0.99	.	977	2049	275	23	66	10	.	.	.	3402
1.00 - 1.49	.	.	219	807	335	150	1	.	.	.	1512
1.50 - 1.99	.	.	.	32	142	126	1	.	.	.	301
2.00 - 2.49	.	.	.	.	30	27	.	.	.	.	57
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1659	2422	2268	1114	560	388	22	0	0	0	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 2.48 ANGLE CLASS % = 8.4

STATION 159 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1842	1599	.	.	1	.	.	.	.	.	3442
0.50 - 0.99	.	1492	2553	150	.	.	.	.	.	.	4195
1.00 - 1.49	.	.	306	1238	32	.	4	.	.	.	1580
1.50 - 1.99	.	.	.	143	55	6	1	.	.	.	205
2.00 - 2.49	.	.	.	.	13	6	.	.	.	.	19
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1842	3091	2859	1531	99	13	4	0	0	0	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 2.54 ANGLE CLASS % = 9.4

STATION 159 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2977	3420			479	1396	573	268	2700	1303	13116
0.50 - 0.99	.	3035	5345	429	.	143	39	1507	2469	1504	14471
1.00 - 1.49	.	.	740	3886	41	1	.	710	1952	804	8134
1.50 - 1.99	.	.	.	746	130	35	.	176	284	1558	2929
2.00 - 2.49	.	.	.	23	39	54	13	42	25	302	498
2.50 - 2.99	.	.	.	.	.	.	15	10	.	30	55
3.00 - 3.49	.	.	.	.	.	.	1	3	.	18	22
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2977	6455	6085	5084	689	1629	641	2716	7430	5520	

AVERAGE HS(M) = 0.78 LARGEST HS(M) = 3.52 ANGLE CLASS % = 39.2

STATION 159 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1552	1846	20	.	1449	1439	1423	85	65	10	7889
0.50 - 0.99	.	1211	3116	716	164	927	2739	503	17	6	9399
1.00 - 1.49	.	.	314	1752	549	492	1300	516	1	1	4925
1.50 - 1.99	.	.	.	201	321	639	595	123	5	.	1884
2.00 - 2.49	.	.	.	1	41	302	246	65	3	.	658
2.50 - 2.99	.	.	.	.	.	5	34	32	6	.	77
3.00 - 3.49	.	.	.	.	.	.	.	1	.	.	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1552	3057	3450	2670	2524	3804	6337	1325	97	17	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.08 ANGLE CLASS % = 24.9

STATION 159 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

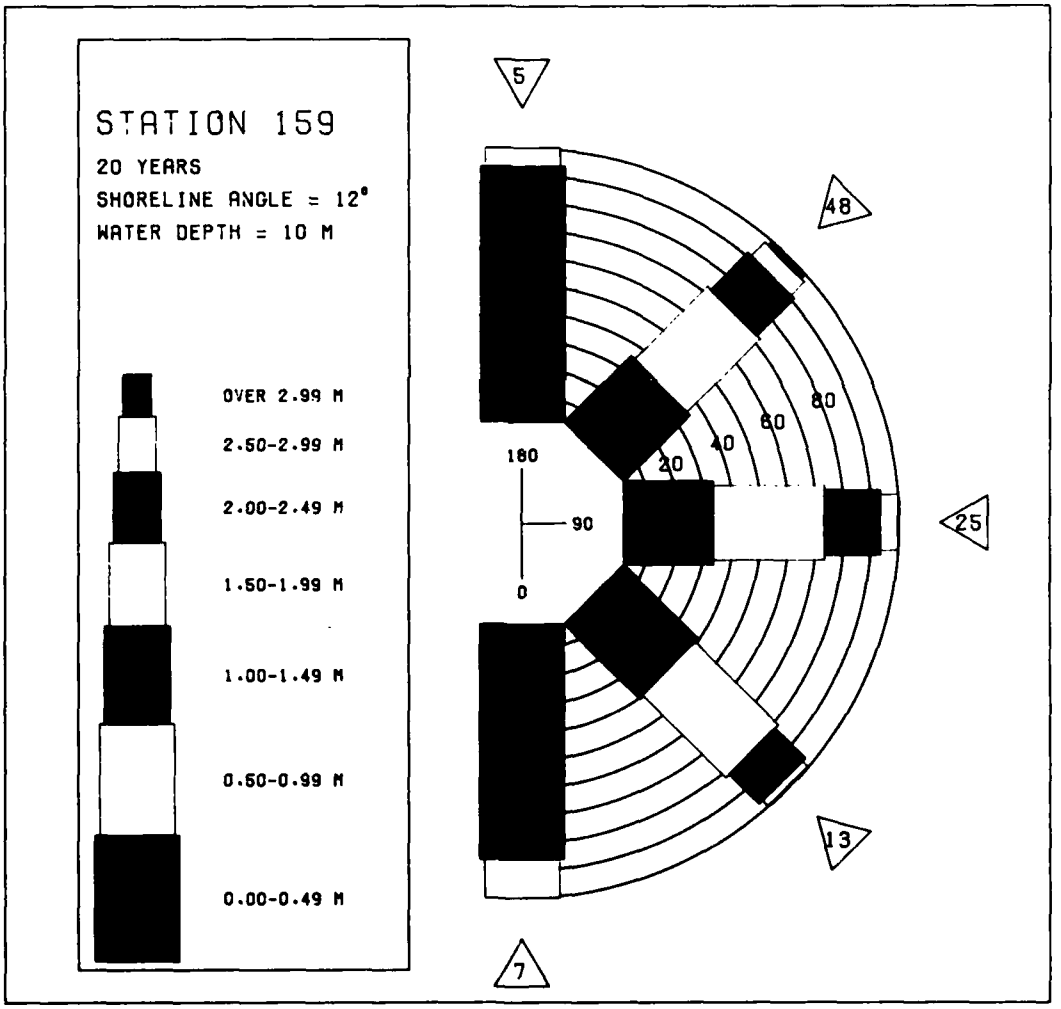
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1096	1706	1213	1274	405	56	.	.	.	.	5750
0.50 - 0.99	.	66	732	513	215	95	.	.	.	.	1621
1.00 - 1.49	.	.	5	15	27	.	.	.	.	.	47
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1096	1772	1950	1802	648	151	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.52 ANGLE CLASS % = 7.4

STATION 159 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 12.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1157	1251	245	190	243	292	200	35	276	131	4020
0.50 - 0.99	.	697	1493	267	58	128	278	201	248	151	3521
1.00 - 1.49	.	.	161	779	105	65	130	122	195	80	1637
1.50 - 1.99	.	.	.	112	65	80	59	29	28	155	528
2.00 - 2.49	.	.	.	2	12	39	26	10	2	30	121
2.50 - 2.99	.	.	.	.	.	.	4	4	.	3	11
3.00 - 3.49	.	.	.	.	.	.	.	.	.	1	1
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1157	1948	1899	1350	483	604	697	401	749	551	

AVE HS(M) = 0.68 LARGEST HS(M) = 3.52 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 159

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.7	0.9	1.0	0.7	0.4	0.4	0.2	0.9	0.8	1.8	1.5	0.8
1957	0.9	1.1	0.8	1.0	0.7	0.6	0.5	0.5	0.7	0.8	1.0	1.1	0.8
1958	2.0	1.8	1.6	1.6	0.7	0.5	0.6	0.2	0.5	0.6	0.6	0.9	1.0
1959	1.1	0.9	1.0	1.0	0.6	0.3	0.5	0.5	0.7	0.6	1.1	1.0	0.8
1960	0.6	0.6	0.6	0.9	0.4	0.6	0.4	0.6	0.8	0.5	0.9	1.5	0.7
1961	0.6	0.7	0.6	0.6	0.5	0.5	0.4	0.5	0.6	1.0	0.8	0.7	0.6
1962	0.8	0.6	0.5	0.7	0.5	0.5	0.3	0.4	0.4	0.6	0.5	0.5	0.5
1963	0.6	0.5	0.7	0.6	0.5	0.4	0.4	0.3	0.5	0.9	0.8	0.6	0.6
1964	0.6	0.5	0.9	0.8	0.5	0.4	0.5	0.5	0.6	0.8	0.7	0.9	0.6
1965	0.8	0.7	0.4	0.4	0.5	0.6	0.4	0.4	1.2	0.6	0.7	1.4	0.7
1966	1.1	1.0	0.8	0.7	0.6	0.8	0.5	0.5	0.3	0.8	1.3	1.3	0.8
1967	1.1	1.9	1.0	0.8	0.5	0.4	0.5	0.4	0.5	0.8	1.1	0.9	0.8
1968	0.6	0.2	0.6	0.4	0.3	0.3	0.3	0.2	0.2	0.6	0.5	0.5	0.4
1969	1.0	0.7	0.5	0.7	0.7	0.4	0.3	0.4	0.6	0.9	0.8	0.7	0.6
1970	0.7	1.4	1.0	0.7	0.9	0.5	0.5	0.6	0.7	1.0	0.7	1.1	0.8
1971	0.7	1.0	0.7	0.5	0.4	0.3	0.4	0.4	0.5	0.5	1.1	1.0	0.6
1972	1.1	1.2	1.2	1.0	0.9	0.7	0.7	0.6	0.5	0.7	0.5	1.2	0.9
1973	0.6	0.8	1.0	0.8	0.4	0.5	0.2	0.4	0.4	1.0	1.4	1.0	0.7
1974	0.4	0.6	1.1	1.0	0.3	0.3	0.2	0.3	0.3	0.9	0.6	0.4	0.5
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.4	0.5	1.0	1.0	0.4
MEAN	0.8	0.8	0.8	0.8	0.5	0.5	0.4	0.4	0.6	0.8	0.9	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 159

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.2	1.4	1.8	1.8	1.7	1.1	1.2	0.8	2.1	2.4	2.8	1.8
1957	2.4	2.3	1.4	2.3	1.4	1.3	0.9	1.1	1.4	2.0	2.3	2.0
1958	3.5	2.2	2.1	2.3	1.5	1.3	1.3	1.1	1.3	2.0	1.9	2.0
1959	2.5	1.6	2.5	2.2	1.6	1.1	1.1	1.1	2.3	1.5	2.4	2.4
1960	1.3	1.7	1.4	2.0	1.2	1.9	1.5	1.4	2.3	1.4	2.1	2.5
1961	1.9	2.1	1.4	1.8	1.6	1.6	1.0	1.2	1.6	2.2	2.0	2.2
1962	2.1	1.5	1.3	1.7	1.4	1.1	0.8	1.6	1.4	2.2	2.0	1.5
1963	1.8	2.0	2.1	2.1	2.0	1.4	1.0	1.2	2.1	2.6	2.2	2.3
1964	1.7	1.7	1.5	1.5	1.2	1.0	1.6	1.6	1.4	2.3	2.2	1.9
1965	2.2	2.0	1.8	1.2	1.2	1.3	1.0	1.0	3.4	2.3	2.2	2.1
1966	2.4	2.5	1.7	1.6	1.4	2.3	1.8	1.0	1.4	2.6	2.3	2.2
1967	2.1	1.9	2.3	2.3	1.3	1.4	1.1	1.0	1.5	1.9	2.4	1.9
1968	2.4	0.8	1.9	1.0	1.4	2.0	1.0	1.0	0.9	2.0	1.4	1.9
1969	2.2	2.1	1.7	1.4	1.4	1.0	1.0	1.3	1.9	2.2	2.3	2.0
1970	2.3	2.2	2.2	1.6	1.8	1.6	1.2	1.3	1.3	2.4	2.2	1.7
1971	1.6	2.0	1.4	1.8	1.3	1.0	1.2	1.5	1.6	1.6	2.1	3.1
1972	2.7	2.3	2.2	2.0	2.0	2.1	1.3	1.1	1.4	2.5	1.5	2.8
1973	2.1	1.8	2.1	1.8	1.3	1.8	0.8	1.3	1.3	2.7	3.1	2.2
1974	1.1	2.1	1.7	1.7	1.1	1.7	0.6	0.9	0.8	2.8	1.9	1.3
1975	1.9	1.1	1.4	1.5	0.7	0.6	1.0	0.9	1.4	1.6	1.8	2.6

LARGEST HS(METRES) FOR STATION 159 = 3.5

STATION 160 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2503	2462	1187	610	78	20	1	.	.	.	6861
0.50 - 0.99	.	196	1184	588	186	63	.	.	.	.	2217
1.00 - 1.49	.	.	23	90	71	6	.	.	.	.	190
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2503	2658	2394	1288	340	89	1	0	0	0	

AVERAGE HS(M) = 0.34 LARGEST HS(M) = 1.83 ANGLE CLASS % = 9.3

STATION 160 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1783	1529	.	.	39	23	8	.	.	.	3382
0.50 - 0.99	.	1167	229	313	23	66	6	.	.	.	3804
1.00 - 1.49	.	.	231	826	340	145	.	.	.	.	1542
1.50 - 1.99	.	.	.	42	124	118	1	.	.	.	285
2.00 - 2.49	.	.	.	.	35	15	.	.	.	.	50
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1783	2696	2522	1181	561	368	15	0	0	0	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.54 ANGLE CLASS % = 9.1

STATION 160 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1914	1870	.	.	1	.	.	.	.	.	3785
0.50 - 0.99	.	1666	279	157	.	1	.	.	.	.	4627
1.00 - 1.49	.	.	337	1476	15	3	.	.	.	.	1831
1.50 - 1.99	.	.	.	165	34	6	1	.	.	.	206
2.00 - 2.49	.	.	.	1	6	3	.	.	.	.	10
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1914	3536	3133	1799	56	10	4	0	0	0	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 2.48 ANGLE CLASS % = 10.5

STATION 160 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2778	3189			65	1449	824	44	2744	1321	12414
0.50 - 0.99	.	2876	5128	424		195	172	22	2462	1509	12790
1.00 - 1.49	.	.	783	3930	92	1	29	5	1925	819	7504
1.50 - 1.99	.	.	.	869	161	44	1	1	287	1558	2941
2.00 - 2.49	.	.	.	27	46	126	37	.	30	302	574
2.50 - 2.99	.	.	.	.	.	13	32	11	1	30	87
3.00 - 3.49	.	.	.	.	.	.	1	10	1	18	30
3.50 - 3.99	.	.	.	.	.	.	.	.	.	1	1
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2778	6065	5911	5250	384	1830	1096	92	7450	5549	

AVERAGE HS(M) = 0.80 LARGEST HS(M) = 3.52 ANGLE CLASS % = 36.4

STATION 160 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1341	1569	8		1967	1582	1206	292	53	10	8028
0.50 - 0.99	.	1079	2796	645	179	869	2643	2010	44	5	10270
1.00 - 1.49	.	.	285	1420	475	539	1249	1223	3	1	5195
1.50 - 1.99	.	.	.	152	330	234	597	287	5	.	2005
2.00 - 2.49	.	.	.	.	53	328	272	104	3	.	760
2.50 - 2.99	.	.	.	.	.	1	44	44	3	.	92
3.00 - 3.49	.	.	.	.	.	.	.	1	1	.	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1341	2648	3089	2217	3004	3953	6011	3961	112	16	

AVERAGE HS(M) = 0.81 LARGEST HS(M) = 3.13 ANGLE CLASS % = 26.4

STATION 160 20 YEARS HAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

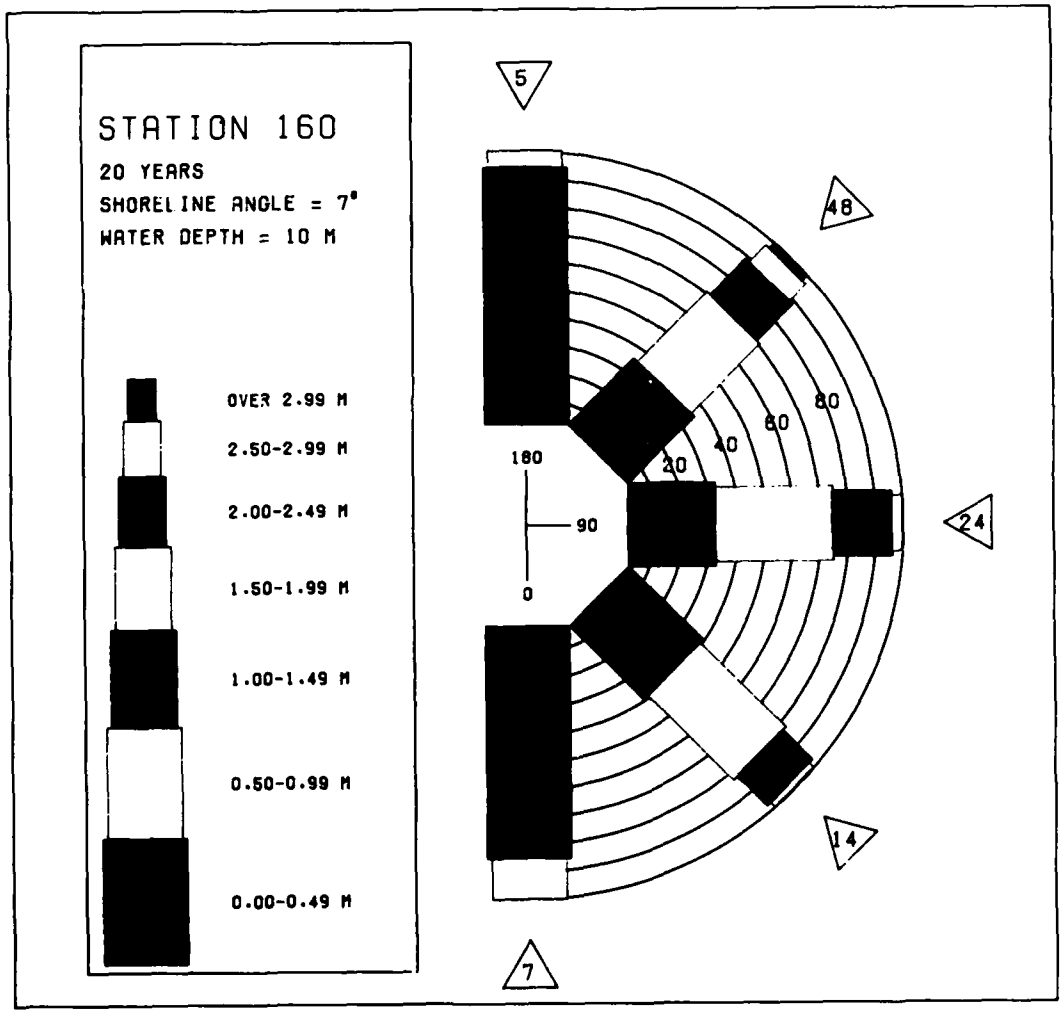
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1016	1552	1136	1249	355	32	.	.	.	.	5340
0.50 - 0.99	.	71	660	472	217	77	.	.	.	.	1497
1.00 - 1.49	.	.	8	15	20	.	.	.	.	.	43
1.50 - 1.99	.	.	.	.	5	.	.	.	.	.	5
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1016	1623	1804	1736	597	109	0	0	0	0	

AVERAGE HS(M) = 0.32 LARGEST HS(M) = 1.67 ANGLE CLASS % = 6.9

STATION 160 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1133	1217	233	186	250	310	204	33	279	133	3978
0.50 - 0.99	.	705	1485	260	60	127	282	203	250	150	3522
1.00 - 1.49	.	.	167	776	101	69	128	122	192	82	1637
1.50 - 1.99	.	.	.	123	68	80	60	28	29	155	543
2.00 - 2.49	.	.	.	2	14	47	30	10	3	30	136
2.50 - 2.99	.	.	.	.	.	1	7	5	.	3	16
3.00 - 3.49	.	.	.	.	.	.	.	1	.	1	2
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1133	1922	1885	1347	493	634	711	402	753	554	

AVE HS(M) = 0.69 LARGEST HS(M) = 3.52 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 160

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.7	0.9	1.0	0.7	0.4	0.4	0.2	0.9	0.8	1.8	1.5	0.8
1957	1.0	1.1	0.8	1.0	0.7	0.6	0.5	0.5	0.7	0.8	1.0	1.2	0.8
1958	2.0	1.8	1.6	1.6	0.7	0.5	0.6	0.2	0.5	0.6	0.6	0.9	1.0
1959	1.1	0.9	1.0	1.0	0.6	0.3	0.5	0.5	0.7	0.6	1.1	1.0	0.8
1960	0.6	0.6	0.6	0.9	0.4	0.6	0.4	0.6	0.8	0.5	1.0	1.5	0.7
1961	0.6	0.7	0.6	0.6	0.5	0.5	0.4	0.5	0.7	1.1	0.8	0.7	0.6
1962	0.8	0.7	0.5	0.7	0.5	0.5	0.3	0.4	0.4	0.6	0.6	0.5	0.5
1963	0.6	0.5	0.7	0.6	0.5	0.4	0.4	0.3	0.5	1.0	0.8	0.6	0.6
1964	0.6	0.5	0.9	0.8	0.5	0.4	0.5	0.4	0.6	0.8	0.7	0.9	0.6
1965	0.8	0.7	0.4	0.4	0.5	0.6	0.4	0.4	1.2	0.6	0.7	1.4	0.7
1966	1.1	1.0	0.8	0.7	0.6	0.8	0.5	0.5	0.3	0.8	1.4	1.3	0.8
1967	1.1	1.0	1.0	0.8	0.5	0.4	0.5	0.4	0.5	0.9	1.1	0.9	0.8
1968	0.6	0.2	0.6	0.4	0.3	0.3	0.3	0.2	0.2	0.6	0.5	0.5	0.4
1969	1.1	0.7	0.6	0.7	0.7	0.4	0.3	0.4	0.6	0.9	0.9	0.7	0.7
1970	0.7	1.4	1.0	0.7	0.9	0.5	0.5	0.6	0.7	1.0	0.7	1.1	0.8
1971	0.7	1.0	0.7	0.5	0.4	0.3	0.4	0.4	0.5	0.5	1.1	1.0	0.6
1972	1.2	1.2	1.2	1.0	0.9	0.7	0.7	0.6	0.5	0.7	0.5	1.2	0.9
1973	0.6	0.8	1.0	0.8	0.4	0.5	0.2	0.4	0.4	1.1	1.4	1.0	0.7
1974	0.4	0.6	1.1	1.0	0.3	0.3	0.2	0.3	0.3	1.0	0.6	0.4	0.5
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.4	0.5	1.0	1.0	0.4
MEAN	0.8	0.8	0.8	0.8	0.6	0.5	0.4	0.4	0.6	0.8	0.9	1.0	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 160

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.2	1.5	2.0	1.8	1.8	1.1	1.2	0.8	2.2	2.7	2.8	1.7
1957	2.6	2.4	1.4	2.3	1.4	1.3	0.8	1.1	1.4	2.1	2.4	2.1
1958	3.5	2.2	2.1	2.3	1.5	1.3	1.3	1.1	1.4	2.1	1.9	2.1
1959	2.6	1.8	2.5	2.2	1.6	1.1	1.2	1.1	2.3	1.5	2.4	2.4
1960	1.4	1.5	1.3	2.0	1.2	2.0	1.5	1.4	2.4	1.4	2.2	2.5
1961	1.9	1.8	1.4	2.0	1.6	1.6	1.0	1.1	1.9	2.2	2.1	2.2
1962	2.1	1.7	1.3	1.7	1.5	1.1	0.8	1.6	1.5	2.2	2.1	1.5
1963	1.9	2.1	2.1	2.1	2.1	1.3	1.0	1.2	2.1	2.6	2.2	2.4
1964	1.8	1.9	1.5	1.5	1.3	1.0	1.6	1.6	1.4	2.5	2.2	1.9
1965	2.2	1.9	1.9	1.2	1.2	1.3	1.0	1.0	3.4	2.3	2.2	2.1
1966	2.4	2.5	1.7	1.6	1.5	2.3	1.8	1.2	1.4	2.8	2.4	2.3
1967	2.1	2.0	2.4	2.4	1.3	1.4	1.1	1.0	1.3	1.9	2.5	2.0
1968	2.4	0.9	1.9	1.0	1.4	2.0	1.0	1.0	0.9	1.9	1.4	1.9
1969	2.4	2.1	1.6	1.4	1.5	1.0	1.0	1.3	1.9	2.2	2.3	1.9
1970	2.3	2.2	2.2	1.6	1.8	1.6	1.2	1.3	1.3	2.6	2.3	1.7
1971	1.7	2.0	1.4	1.5	1.3	1.0	1.2	1.5	1.7	1.6	2.2	3.1
1972	2.8	2.6	2.4	2.0	2.0	2.1	1.3	1.1	1.5	2.6	1.5	2.8
1973	2.1	1.8	2.0	1.8	1.3	1.8	0.8	1.3	1.3	2.7	3.2	2.3
1974	1.1	2.2	1.7	1.7	1.1	1.7	0.6	0.9	0.8	2.9	1.9	1.3
1975	1.9	1.2	1.4	1.5	0.7	0.6	1.0	0.9	1.4	1.6	1.9	2.6

LARGEST HS(METRES) FOR STATION 160 = 3.5

STATION 161 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4099	3685	1765	973	87	20	.	.	.	.	10629
0.50 - 0.99	.	116	1180	651	217	35	.	.	.	.	2199
1.00 - 1.49	.	.	.	32	41	.	.	.	.	.	73
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4099	3801	2945	1656	346	55	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.58 ANGLE CLASS % = 12.9

STATION 161 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2808	2176	.	.	10	5	.	.	.	.	4999
0.50 - 0.99	.	1043	2465	432	37	30	1	.	.	.	4008
1.00 - 1.49	.	.	17	701	277	102	3	.	.	.	1100
1.50 - 1.99	.	.	.	18	66	35	3	.	.	.	122
2.00 - 2.49	.	.	.	.	10	3	1	.	.	.	14
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2808	3219	2482	1151	400	175	8	0	0	0	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 2.30 ANGLE CLASS % = 10.3

STATION 161 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2903	2731	.	.	10	6	.	.	.	.	5650
0.50 - 0.99	.	1601	3359	266	5	5	.	.	.	.	5231
1.00 - 1.49	.	.	51	968	155	5	.	.	.	.	1179
1.50 - 1.99	.	.	.	20	174	30	.	.	.	.	224
2.00 - 2.49	.	.	.	.	63	68	1	.	.	.	132
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2903	4332	3410	1254	402	114	1	0	0	0	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 2.46 ANGLE CLASS % = 12.4

STATION 161 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4474	5053			6	1081	1206	540	1541	956	14857
0.50 - 0.99	.	3085	7140	817	.	10	10	3	5	11	11081
1.00 - 1.49	.	.	121	3195	862	8	.	.	.	.	4184
1.50 - 1.99	.	.	.	68	915	234	.	.	.	.	1215
2.00 - 2.49	.	.	.	.	306	371	1	.	.	.	678
2.50 - 2.99	.	.	.	.	.	17	.	1	.	.	18
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4474	8138	7261	4078	2087	1721	1217	544	1546	967	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 2.80 ANGLE CLASS % = 32.0

STATION 161 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2388	2879	11		593	1161	359	11	61	10	7473
0.50 - 0.99	.	1113	3935	1307	215	263	34	1	8	3	6879
1.00 - 1.49	.	.	35	2103	489	386	104	5	.	.	3122
1.50 - 1.99	.	.	.	34	116	294	94	18	1	.	557
2.00 - 2.49	.	.	.	.	27	49	37	18	.	.	131
2.50 - 2.99	.	.	.	.	5	6	6	3	.	.	20
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2388	3992	3981	3444	1445	2159	634	56	70	13	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 2.74 ANGLE CLASS % = 18.2

STATION 161 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

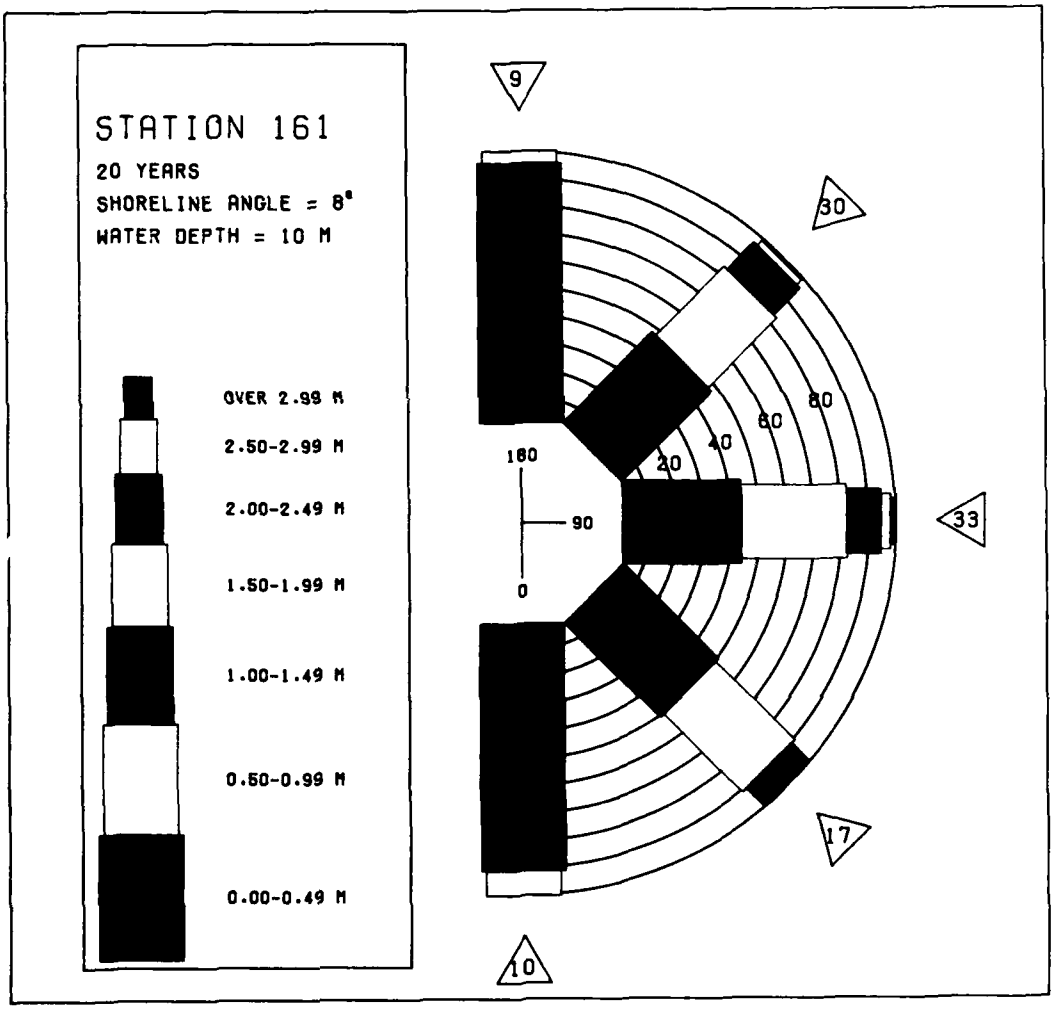
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2219	3095	2150	1995	566	42	.	.	.	.	10067
0.50 - 0.99	.	65	889	730	278	46	.	.	.	.	2008
1.00 - 1.49	.	.	.	.	22	.	.	.	.	.	22
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2219	3160	3039	2725	867	88	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.55 ANGLE CLASS % = 12.1

STATION 161 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 8.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1889	1962	392	296	127	231	156	55	160	96	5364
0.50 - 0.99	.	702	1897	420	74	19	4	.	1	1	3138
1.00 - 1.49	.	.	22	699	184	50	10	.	.	.	965
1.50 - 1.99	.	.	.	14	127	59	9	1	.	.	210
2.00 - 2.49	.	.	.	.	40	49	4	1	.	.	94
2.50 - 2.99	.	.	.	.	.	2	.	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1889	2664	2311	1429	552	430	183	57	161	97	

AVE HS(M) = 0.53 LARGEST HS(M) = 2.80 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 161

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.6	0.6	0.5	0.7	0.4	0.4	0.2	0.6	0.6	0.8	0.6	0.5
1957	0.6	0.7	0.4	0.9	0.5	0.5	0.3	0.4	0.6	0.7	0.8	0.8	0.6
1958	0.7	0.5	0.5	0.6	0.7	0.5	0.6	0.2	0.5	0.6	0.6	0.7	0.6
1959	0.7	0.6	0.7	0.7	0.7	0.3	0.5	0.5	0.5	0.5	0.8	0.7	0.6
1960	0.5	0.5	0.5	0.8	0.4	0.6	0.4	0.6	0.7	0.5	0.7	0.8	0.6
1961	0.6	0.7	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.8	0.6	0.7	0.6
1962	0.6	0.4	0.5	0.6	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.4	0.4
1963	0.6	0.4	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.7	0.8	0.6	0.5
1964	0.6	0.5	0.6	0.7	0.4	0.3	0.5	0.4	0.6	0.7	0.6	0.8	0.6
1965	0.5	0.7	0.4	0.4	0.6	0.6	0.3	0.4	0.8	0.5	0.6	0.7	0.5
1966	0.7	0.8	0.6	0.6	0.5	0.8	0.4	0.4	0.3	0.7	0.8	0.6	0.6
1967	0.7	0.6	0.6	0.6	0.4	0.4	0.5	0.5	0.4	0.7	0.7	0.7	0.6
1968	0.6	0.2	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.4
1969	0.7	0.5	0.6	0.7	0.7	0.4	0.3	0.4	0.5	0.8	0.7	0.4	0.6
1970	0.6	0.7	0.6	0.5	0.8	0.4	0.4	0.5	0.6	0.8	0.6	0.5	0.6
1971	0.5	0.8	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.8	0.8	0.5
1972	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.5	0.7	0.5	0.9	0.6
1973	0.6	0.7	0.7	0.8	0.4	0.5	0.2	0.4	0.3	0.7	0.6	0.6	0.5
1974	0.4	0.4	0.4	0.6	0.3	0.3	0.2	0.3	0.3	0.8	0.6	0.4	0.4
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.4	0.5	0.9	0.7	0.4
MEAN	0.6	0.6	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.6	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 161

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	1.8	1.8	1.6	2.2	1.6	1.4	0.9	2.0	2.1	2.5	1.3
1957	2.2	2.2	1.6	2.2	1.5	1.3	0.9	1.3	1.5	2.2	2.4	2.3
1958	2.7	1.4	1.6	1.4	2.2	1.7	1.5	1.3	1.5	2.4	1.6	2.4
1959	2.5	2.1	2.5	1.9	2.2	1.0	1.2	1.4	2.0	2.1	2.2	2.3
1960	1.3	1.5	1.3	2.1	1.3	1.8	1.6	1.6	2.4	1.3	2.1	2.1
1961	2.4	2.4	1.8	2.4	2.0	1.4	1.0	1.1	1.3	2.3	1.5	2.0
1962	1.8	1.6	1.4	2.0	1.6	1.0	0.9	1.6	1.8	2.3	1.9	1.5
1963	2.3	2.3	2.0	2.1	2.3	1.2	1.1	1.4	1.6	2.6	2.4	2.5
1964	1.4	1.8	1.3	2.0	1.4	1.0	1.9	1.7	1.9	2.3	2.2	2.2
1965	1.5	2.1	2.0	1.3	1.4	1.4	1.0	1.0	2.8	2.2	2.6	2.2
1966	2.1	2.4	2.0	2.2	1.8	2.4	1.5	1.0	1.9	2.5	2.0	1.5
1967	2.0	1.9	2.2	2.3	1.2	1.8	1.1	1.1	1.2	1.9	2.2	1.9
1968	2.4	0.8	2.2	0.9	1.9	2.3	1.0	1.0	0.9	2.2	1.8	1.9
1969	2.3	2.0	1.5	1.9	1.7	1.0	1.1	1.1	1.4	2.4	2.3	1.8
1970	2.3	2.4	2.1	1.3	2.0	2.4	1.3	2.1	1.3	2.4	2.2	1.5
1971	1.6	2.4	1.4	1.8	1.4	1.0	1.2	2.2	1.6	1.4	2.3	2.7
1972	2.7	2.1	2.0	2.1	2.0	2.5	1.3	1.1	1.4	2.6	2.0	2.7
1973	1.6	2.3	2.1	2.3	1.6	1.4	0.9	1.5	1.6	2.3	2.5	1.7
1974	1.1	1.9	1.1	2.2	1.2	1.8	0.6	0.9	0.9	2.7	1.6	1.7
1975	2.2	1.1	1.8	2.1	0.7	0.6	1.0	0.9	1.5	1.9	2.5	2.3

LARGEST HS(METRES) FOR STATION 161 = 2.8

STATION 162 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4134	3694	1783	970	88	22	.	.	.	.	10691
0.50 - 0.99	.	131	1190	645	219	44	.	.	.	.	2229
1.00 - 1.49	.	.	.	27	39	3	.	.	.	.	69
1.50 - 1.99	.	.	.	.	3	.	.	.	.	.	3
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	4134	3825	2973	1642	349	69	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.77 ANGLE CLASS % = 13.0

STATION 162 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2826	2239			6	3		.	.	.	5074
0.50 - 0.99	.	1054	2541	451	46	22	1	.	.	.	4115
1.00 - 1.49	.	.	18	701	273	99	3	.	.	.	1094
1.50 - 1.99	.	.	.	22	66	35	3	.	.	.	126
2.00 - 2.49	.	.	.	.	10	3	1	.	.	.	14
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2826	3293	2559	1174	401	162	8	0	0	0	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 2.30 ANGLE CLASS % = 10.4

STATION 162 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2950	2789			13	6	.	.	.	.	5758
0.50 - 0.99	.	1656	3405	263		3	.	.	.	.	5327
1.00 - 1.49	.	.	51	1018	164	3	.	.	.	.	1236
1.50 - 1.99	.	.	.	18	176	29	.	.	.	.	223
2.00 - 2.49	.	.	.	.	66	68	1	.	.	.	135
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER											0
TOTAL	2950	4445	3456	1299	419	109	1	0	0	0	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 2.46 ANGLE CLASS % = 12.7

STATION 162 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4419	4998	.	.	13	1084	1201	549	1540	954	14758
0.50 - 0.99	.	3059	7150	816	.	10	10	3	6	13	11067
1.00 - 1.49	.	.	124	3240	862	8	.	.	.	.	4234
1.50 - 1.99	.	.	.	73	944	227	.	.	.	.	1244
2.00 - 2.49	.	.	.	.	301	379	1	.	.	.	681
2.50 - 2.99	.	.	.	.	1	17	.	1	.	.	19
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4419	8057	7274	4129	2121	1725	1212	553	1546	967	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 2.81 ANGLE CLASS % = 32.0

STATION 162 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2345	2778	10	.	604	1196	362	11	61	10	7377
0.50 - 0.99	.	1095	3798	1278	210	237	32	1	8	3	6662
1.00 - 1.49	.	.	37	2044	462	391	94	3	.	.	3031
1.50 - 1.99	.	.	.	35	100	313	104	18	.	.	570
2.00 - 2.49	.	.	.	.	34	46	41	20	1	.	142
2.50 - 2.99	.	.	.	.	3	6	6	3	.	.	18
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2345	3873	3845	3357	1413	2189	639	56	70	13	

AVERAGE HS(M) = 0.66 LARGEST HS(M) = 2.74 ANGLE CLASS % = 17.8

STATION 162 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

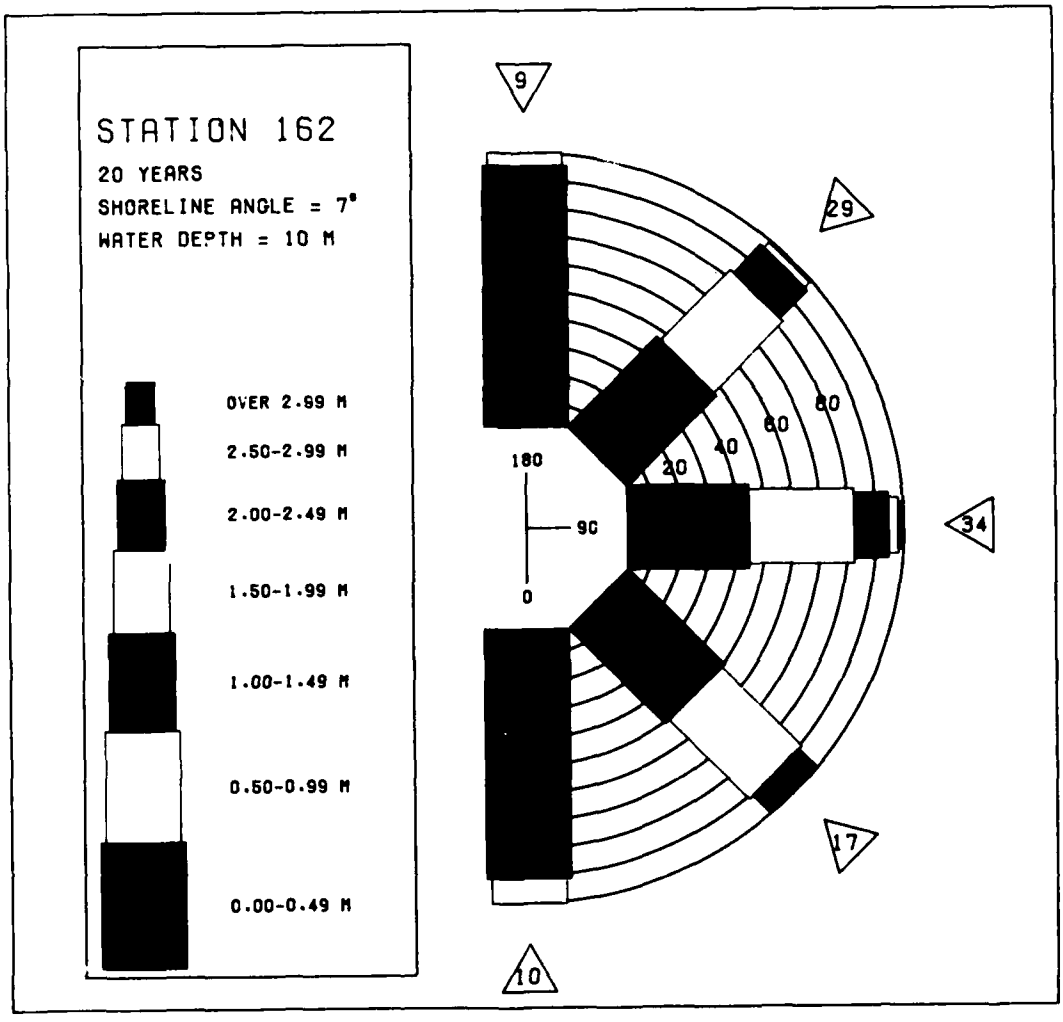
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2190	3066	2114	2000	540	35	.	.	.	.	9945
0.50 - 0.99	.	66	893	728	297	58	.	.	.	.	2042
1.00 - 1.49	.	.	.	.	20	.	.	.	.	.	20
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2190	3132	3007	2728	858	93	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.55 ANGLE CLASS % = 12.0

STATION 162 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 7.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1886	1956	390	297	126	234	156	56	160	96	5357
0.50 - 0.99	.	706	1898	418	77	37	4	.	1	1	3142
1.00 - 1.49	.	.	23	703	182	50	9	.	.	.	967
1.50 - 1.99	.	.	.	15	129	60	10	1	.	.	215
2.00 - 2.49	.	.	.	.	41	49	4	2	.	.	96
2.50 - 2.99	.	.	.	.	.	2	.	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1886	2662	2311	1433	555	432	183	59	161	97	

AVE HS(M) = 0.53 LARGEST HS(M) = 2.81 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 162

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.6	0.6	0.5	0.7	0.4	0.4	0.2	0.6	0.6	0.8	0.6	0.5
1957	0.6	0.7	0.4	0.9	0.5	0.5	0.3	0.3	0.6	0.7	0.8	0.8	0.6
1958	0.8	0.5	0.5	0.6	0.7	0.5	0.6	0.2	0.5	0.6	0.6	0.7	0.6
1959	0.7	0.6	0.7	0.7	0.7	0.3	0.5	0.5	0.5	0.5	0.8	0.7	0.6
1960	0.5	0.5	0.6	0.8	0.4	0.6	0.4	0.6	0.7	0.5	0.8	0.8	0.6
1961	0.6	0.7	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.8	0.6	0.7	0.6
1962	0.6	0.4	0.5	0.6	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.4	0.4
1963	0.6	0.4	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.7	0.8	0.6	0.5
1964	0.6	0.5	0.6	0.7	0.4	0.3	0.5	0.4	0.6	0.7	0.6	0.8	0.6
1965	0.5	0.7	0.4	0.4	0.6	0.6	0.3	0.4	0.8	0.5	0.6	0.7	0.5
1966	0.7	0.8	0.6	0.6	0.5	0.8	0.4	0.4	0.3	0.7	0.8	0.6	0.6
1967	0.7	0.6	0.6	0.6	0.4	0.4	0.5	0.5	0.4	0.7	0.7	0.7	0.6
1968	0.6	0.2	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.4
1969	0.7	0.5	0.6	0.7	0.7	0.4	0.3	0.4	0.5	0.8	0.7	0.4	0.6
1970	0.6	0.7	0.6	0.5	0.8	0.4	0.4	0.5	0.6	0.8	0.6	0.5	0.6
1971	0.5	0.8	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.8	0.8	0.5
1972	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.5	0.7	0.5	0.9	0.6
1973	0.6	0.7	0.7	0.8	0.4	0.4	0.2	0.4	0.3	0.7	0.6	0.6	0.5
1974	0.4	0.4	0.4	0.6	0.3	0.3	0.2	0.3	0.3	0.8	0.6	0.4	0.4
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.4	0.5	0.9	0.7	0.4
MEAN	0.6	0.6	0.5	0.6	0.5	0.4	0.4	0.4	0.5	0.6	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 162

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	1.8	1.8	1.4	2.2	1.6	1.4	0.9	2.0	2.1	2.5	1.3
1957	2.2	2.2	1.6	2.2	1.5	1.3	0.9	1.3	1.5	2.2	2.4	2.3
1958	2.7	1.4	1.6	1.4	2.2	1.7	1.5	1.3	1.5	2.4	1.6	2.4
1959	2.5	2.1	2.5	1.9	2.2	0.9	1.2	1.4	2.0	2.1	2.2	2.3
1960	1.3	1.5	1.3	2.1	1.3	1.8	1.6	1.7	2.4	1.3	2.1	2.1
1961	2.4	2.4	1.8	2.4	2.0	1.4	1.0	1.1	1.3	2.3	1.5	2.0
1962	1.8	1.6	1.4	2.0	1.6	1.0	0.9	1.6	1.8	2.3	1.9	1.5
1963	2.3	2.3	2.1	2.1	2.3	1.2	1.1	1.4	1.6	2.6	2.4	2.5
1964	1.4	1.8	1.3	2.0	1.4	1.0	1.9	1.7	1.9	2.3	2.2	2.2
1965	1.5	2.1	2.0	1.3	1.4	1.4	1.0	1.0	2.8	2.2	2.6	2.2
1966	2.1	2.4	2.0	2.2	1.8	2.4	1.5	1.0	1.9	2.5	2.2	1.5
1967	2.0	1.9	2.2	2.3	1.2	1.8	1.1	1.1	1.2	1.9	2.2	2.0
1968	2.4	0.8	2.2	1.0	1.9	2.3	1.0	1.0	0.9	2.2	1.8	1.9
1969	2.3	2.0	1.5	1.9	1.7	1.0	1.1	1.1	1.4	2.4	2.3	1.8
1970	2.3	2.4	2.1	1.3	2.0	2.4	1.3	2.1	1.3	2.4	2.2	1.5
1971	1.6	2.4	1.4	1.8	1.4	1.0	1.2	2.2	1.6	1.1	2.3	2.7
1972	2.7	2.1	2.0	2.1	2.0	2.5	1.3	1.1	1.4	2.6	2.0	2.7
1973	1.6	2.3	2.1	2.3	1.6	1.4	0.9	1.5	1.6	2.3	2.5	1.7
1974	1.1	2.0	1.1	2.2	1.2	1.8	0.6	0.9	0.9	2.7	1.6	1.7
1975	2.2	1.1	1.8	2.1	0.7	0.6	1.0	0.9	1.5	1.9	2.5	2.3

LARGEST HS(METRES) FOR STATION 162 = 2.8

STATION 163 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 6.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4146	3716	1801	970	100	25	.	.	.	.	10758
0.50 - 0.99	.	143	1197	641	207	42	.	.	.	.	2230
1.00 - 1.49	.	.	.	41	47	3	.	.	.	.	91
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4146	3859	2998	1652	355	70	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.75 ANGLE CLASS % = 13.1

STATION 163 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 6.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2879	2292	.	.	5	8	.	.	.	.	5184
0.50 - 0.99	.	1069	2583	456	49	23	1	.	.	.	4181
1.00 - 1.49	.	.	17	711	266	94	5	.	.	.	1093
1.50 - 1.99	.	.	.	23	66	34	1	.	.	.	124
2.00 - 2.49	.	.	.	.	11	5	1	.	.	.	17
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2879	3361	2600	1190	397	164	8	0	0	0	

AVERAGE HS(M) = 0.56 LARGEST HS(M) = 2.30 ANGLE CLASS % = 10.6

STATION 163 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 6.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2985	2873	.	.	17	3	.	.	.	.	5878
0.50 - 0.99	.	1654	3494	273	.	3	.	.	.	.	5424
1.00 - 1.49	.	.	53	1054	171	3	.	.	.	.	1281
1.50 - 1.99	.	.	.	17	184	32	.	.	.	.	334
2.00 - 2.49	.	.	.	.	65	73	1	.	.	.	139
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2985	4527	3547	1344	437	114	1	0	0	0	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 2.46 ANGLE CLASS % = 13.0

STATION 163 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 6.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4341	4892			299	1090	1197	550	1540	965	14874
0.50 - 0.99	.	3066	7111	814	.	8	10	3	6	11	11029
1.00 - 1.49	.	.	133	3293	850	10	.	.	.	.	4286
1.50 - 1.99	.	.	.	82	951	222	.	.	.	.	1255
2.00 - 2.49	.	.	.	.	321	374	1	.	.	.	696
2.50 - 2.99	.	.	.	.	1	17	.	1	.	.	19
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4341	7958	7244	4189	2422	1721	1208	554	1546	976	

AVERAGE HS(M) = 0.64 LARGEST HS(M) = 2.81 ANGLE CLASS % = 32.2

STATION 163 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 6.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2286	2760	11	.	319	1254	367	11	61	10	7079
0.50 - 0.99	.	1071	3713	1208	201	220	34	1	8	3	6459
1.00 - 1.49	.	.	30	1979	465	398	88	3	.	.	2963
1.50 - 1.99	.	.	.	44	102	321	104	18	.	.	589
2.00 - 2.49	.	.	.	.	17	47	46	20	1	.	131
2.50 - 2.99	.	.	.	.	3	8	8	3	.	.	22
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2286	3831	3754	3231	1107	2248	647	56	70	13	

AVERAGE HS(M) = 0.67 LARGEST HS(M) = 2.91 ANGLE CLASS % = 17.3

STATION 163 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 6.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

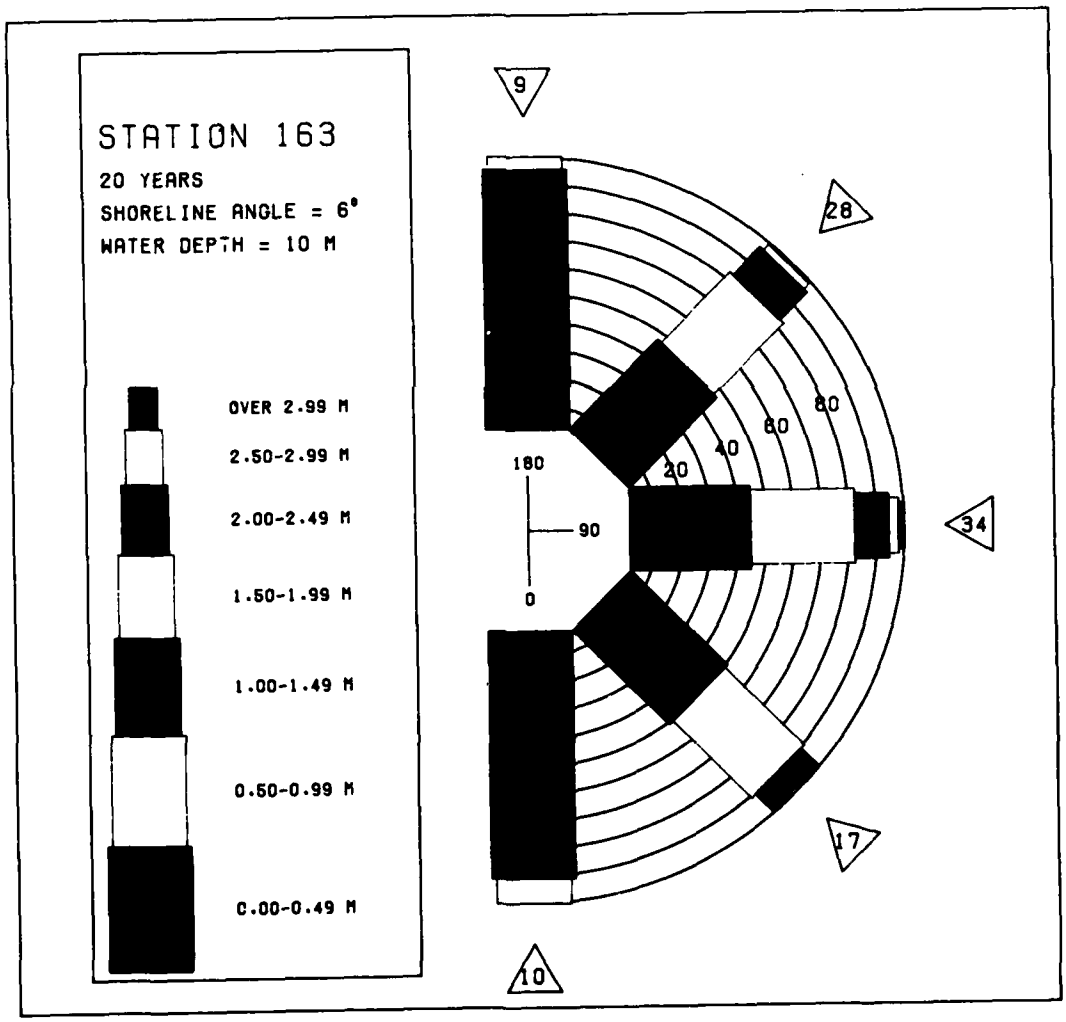
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2198	3003	2072	1974	537	32	.	.	.	.	9816
0.50 - 0.99	.	59	881	746	256	59	.	.	.	.	2041
1.00 - 1.49	.	.	.	.	23	.	.	.	.	.	23
1.50 - 1.99	.	.	.	.	1	.	.	.	.	.	1
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2198	3062	2953	2720	857	91	0	0	0	0	

AVERAGE HS(M) = 0.29 LARGEST HS(M) = 1.55 ANGLE CLASS % = 11.9

STATION 163 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 6.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	1883	1953	388	294	127	241	156	56	160	97	5355
0.50 - 0.99	.	706	1898	414	75	35	4	.	1	1	3134
1.00 - 1.49	.	.	23	708	182	50	9	.	.	.	972
1.50 - 1.99	.	.	.	16	130	61	10	1	.	.	218
2.00 - 2.49	.	.	.	.	41	50	5	2	.	.	98
2.50 - 2.99	.	.	.	.	.	2	.	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	1883	2659	2309	1432	555	439	184	59	161	98	

AVE HS(M) = 0.53 LARGEST HS(M) = 2.91 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 163

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.7	0.6	0.5	0.7	0.4	0.4	0.2	0.6	0.6	0.8	0.6	0.5
1957	0.6	0.7	0.4	0.9	0.5	0.5	0.3	0.3	0.6	0.7	0.8	0.8	0.6
1958	0.8	0.5	0.5	0.6	0.7	0.5	0.6	0.2	0.5	0.6	0.6	0.8	0.6
1959	0.7	0.6	0.7	0.7	0.7	0.3	0.5	0.5	0.5	0.5	0.8	0.8	0.6
1960	0.5	0.5	0.6	0.8	0.4	0.6	0.4	0.6	0.7	0.5	0.8	0.8	0.6
1961	0.6	0.7	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.8	0.6	0.7	0.6
1962	0.6	0.4	0.5	0.6	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.4	0.4
1963	0.6	0.4	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.7	0.8	0.6	0.5
1964	0.6	0.5	0.6	0.7	0.4	0.3	0.5	0.4	0.6	0.7	0.6	0.8	0.6
1965	0.5	0.7	0.4	0.4	0.6	0.6	0.3	0.4	0.8	0.5	0.6	0.7	0.5
1966	0.7	0.8	0.6	0.6	0.5	0.8	0.4	0.4	0.3	0.7	0.8	0.6	0.6
1967	0.7	0.6	0.6	0.6	0.4	0.4	0.5	0.5	0.4	0.7	0.7	0.7	0.6
1968	0.6	0.2	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.4
1969	0.7	0.5	0.6	0.7	0.7	0.4	0.3	0.4	0.5	0.8	0.7	0.4	0.6
1970	0.6	0.7	0.6	0.5	0.8	0.4	0.4	0.5	0.6	0.8	0.6	0.5	0.6
1971	0.5	0.8	0.5	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.8	0.8	0.5
1972	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.5	0.7	0.5	0.9	0.6
1973	0.6	0.7	0.7	0.8	0.4	0.4	0.2	0.4	0.3	0.7	0.6	0.6	0.5
1974	0.4	0.4	0.4	0.6	0.3	0.3	0.2	0.3	0.3	0.8	0.6	0.4	0.4
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.2	0.3	0.4	0.5	0.9	0.7	0.4
MEAN	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.4	0.5	0.6	0.7	0.7	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 163

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.3	1.8	1.8	1.4	2.2	1.6	1.4	0.9	2.0	2.1	2.5	1.3
1957	2.2	2.2	1.6	2.2	1.5	1.3	0.9	1.3	1.5	2.2	2.4	2.3
1958	2.9	1.3	1.6	1.4	2.2	1.7	1.5	1.3	1.5	2.4	1.6	2.4
1959	2.5	2.1	2.5	1.9	2.2	0.9	1.2	1.4	2.0	2.1	2.2	2.3
1960	1.3	1.5	1.3	2.1	1.3	1.8	1.3	1.7	2.4	1.3	2.1	2.1
1961	2.4	2.4	1.8	2.4	2.0	1.4	1.0	1.1	1.3	2.3	1.5	2.0
1962	1.8	1.6	1.4	2.0	1.6	1.0	0.9	1.6	1.8	2.3	1.9	1.5
1963	2.3	2.3	2.1	2.1	2.3	1.2	1.1	1.4	1.6	2.6	2.4	2.5
1964	1.4	1.9	1.3	2.0	1.4	1.0	1.9	1.7	1.9	2.3	2.2	2.2
1965	1.5	2.1	2.0	1.3	1.4	1.4	1.0	1.0	2.9	2.2	2.6	2.2
1966	2.1	2.5	2.0	2.2	1.8	2.4	1.5	1.0	1.9	2.5	2.2	1.5
1967	2.0	1.9	2.2	2.3	1.2	1.8	1.1	1.1	1.2	2.0	2.3	2.0
1968	2.4	0.8	2.2	1.0	1.9	2.3	1.0	1.0	0.9	2.2	1.8	1.9
1969	2.3	2.0	1.5	1.9	1.7	1.0	1.1	1.1	1.4	2.4	2.3	1.8
1970	2.3	2.4	2.1	1.3	2.0	2.4	1.3	2.1	1.3	2.4	2.2	1.5
1971	1.6	2.4	1.4	1.8	1.4	1.0	1.2	2.2	1.6	1.1	2.3	2.7
1972	2.7	2.2	2.0	2.1	2.0	2.5	1.3	1.1	1.4	2.6	2.0	2.7
1973	1.6	2.3	2.1	2.3	1.6	1.4	0.9	1.5	1.6	2.3	2.5	1.7
1974	1.1	2.0	1.1	2.2	1.2	1.8	0.6	0.9	0.9	2.7	1.6	1.7
1975	2.2	1.1	1.8	2.1	0.7	0.6	1.0	0.9	1.5	1.9	2.5	2.3

LARGEST HS(METRES) FOR STATION 163 = 2.9

STATION 164 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)											TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER		
0. - 0.49	4394	3622	1615	870	30	.	.	.	.	.		10531
0.50 - 0.99	.	77	869	686	25	.	.	.	.	.		1657
1.00 - 1.49	.	.	.	56	11	.	.	.	.	.		67
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.		0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.		0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.		0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.		0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.		0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.		0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.		0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.		0
TOTAL	4394	3699	2484	1612	66	0	0	0	0	0		

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.19 ANGLE CLASS % = 12.3

STATION 164 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)											TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER		
0. - 0.49	3439	2162	.	.	.	.	.	.	.	.		5601
0.50 - 0.99	.	799	2072	574	1	.	.	.	.	.		3446
1.00 - 1.49	.	.	15	646	56	.	.	.	.	.		717
1.50 - 1.99	.	.	.	8	11	.	.	.	.	.		19
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.		0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.		0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.		0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.		0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.		0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.		0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.		0
TOTAL	3439	2961	2087	1228	68	0	0	0	0	0		

AVERAGE HS(M) = 0.49 LARGEST HS(M) = 1.81 ANGLE CLASS % = 9.8

STATION 164 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)											TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER		
0. - 0.49	3328	2686	.	.	.	.	.	.	.	.		6014
0.50 - 0.99	.	1430	2973	408	.	1	.	.	.	.		4812
1.00 - 1.49	.	.	23	1030	5	.	.	.	.	.		1058
1.50 - 1.99	.	.	.	30	35	.	.	.	.	.		65
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.		0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.		0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.		0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.		0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.		0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.		0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.		0
TOTAL	3328	4116	2996	1468	40	1	0	0	0	0		

AVERAGE HS(M) = 0.54 LARGEST HS(M) = 1.82 ANGLE CLASS % = 12.0

STATION 164 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	5499	5682			58	325	302	152	742	456	13216
0.50 - 0.99	.	3299	7588	1303		1	.	.	5	.	12196
1.00 - 1.49	.	.	66	4592	135		.	.	.	.	4793
1.50 - 1.99	.	.	.	169	116	39	.	.	.	.	344
2.00 - 2.49	.	.	.	.	15	59	.	.	.	.	74
2.50 - 2.99	.	.	.	.	.	3	3	.	.	.	6
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5499	8981	7654	6084	324	427	305	152	747	456	

AVERAGE HS(M) = 0.61 LARGEST HS(M) = 2.66 ANGLE CLASS % = 30.6

STATION 164 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3134	3547	15		335	850	208	11	25	10	8135
0.50 - 0.99	.	1086	4317	1247	191	178	29	1	.	.	7049
1.00 - 1.49	.	.	32	1789	809	347	99	8	.	.	3084
1.50 - 1.99	.	.	.	25	242	581	97	41	3	.	989
2.00 - 2.49	.	.	.	.	47	162	30	11	.	.	250
2.50 - 2.99	.	.	.	.	.	8	6	.	.	.	14
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3134	4633	4364	3061	1624	2146	469	72	28	10	

AVERAGE HS(M) = 0.68 LARGEST HS(M) = 2.65 ANGLE CLASS % = 19.6

STATION 164 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

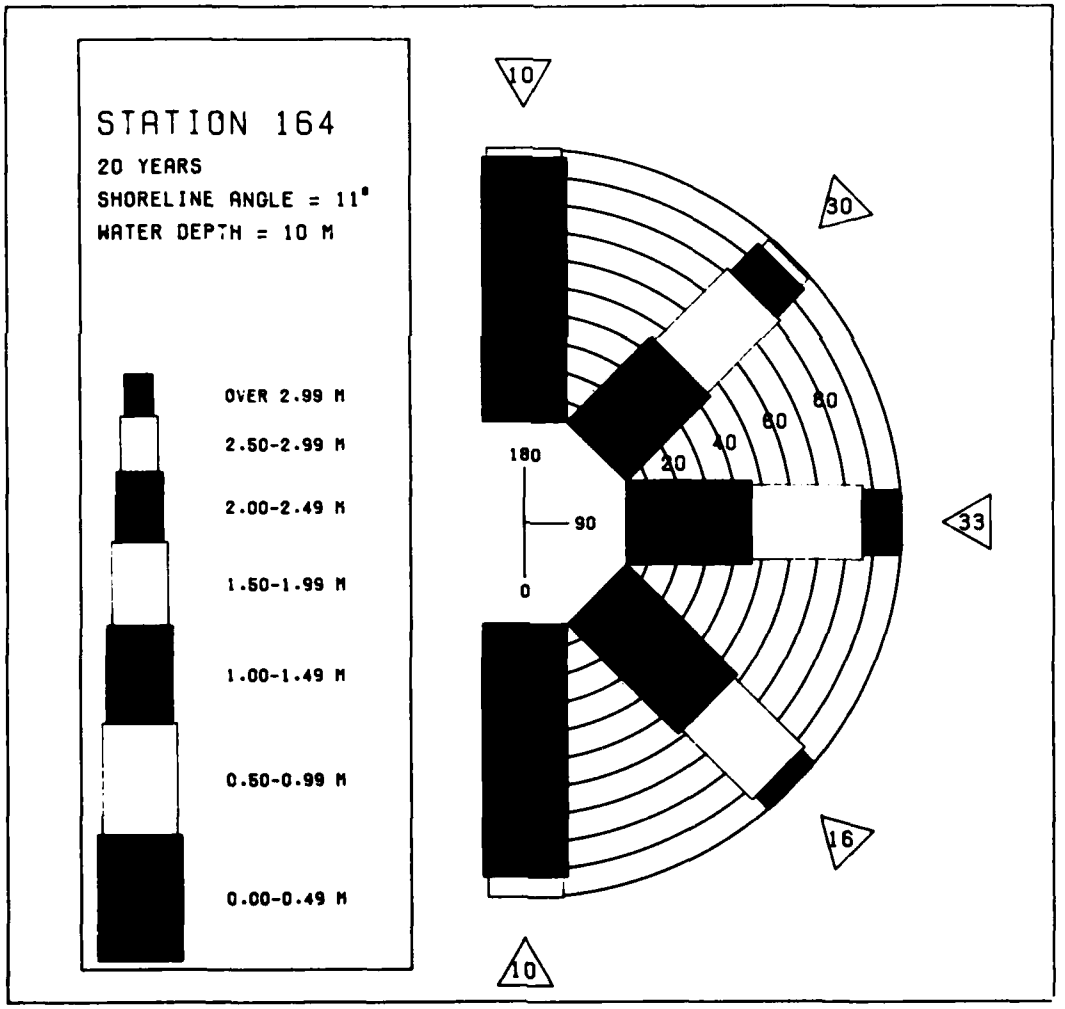
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3384	3769	2198	1825	451	44	.	.	.	.	11671
0.50 - 0.99	.	34	852	619	232	49	.	.	.	.	1786
1.00 - 1.49	.	.	.	1	13	.	.	.	.	.	14
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3384	3803	3050	2445	696	93	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.23 ANGLE CLASS % = 13.5

STATION 164 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 11.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2318	2147	382	269	87	122	51	16	76	46	5514
0.50 - 0.99	.	672	1867	484	45	25	2	.	.	.	3095
1.00 - 1.49	.	.	13	811	103	34	9	.	.	.	970
1.50 - 1.99	.	.	.	25	40	62	9	4	.	.	140
2.00 - 2.49	.	.	.	.	6	22	3	1	.	.	32
2.50 - 2.99	.	.	.	.	.	1	1	.	.	.	2
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2318	2819	2262	1589	281	266	75	21	76	46	

AVE HS(M) = 0.50 LARGEST HS(M) = 2.66 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 164

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.4	0.6	0.5	0.5	0.7	0.4	0.4	0.2	0.5	0.6	0.7	0.6	0.5
1957	0.5	0.6	0.3	0.8	0.5	0.5	0.3	0.3	0.6	0.6	0.7	0.8	0.5
1958	0.7	0.4	0.5	0.6	0.6	0.5	0.6	0.2	0.4	0.6	0.6	0.6	0.5
1959	0.6	0.6	0.6	0.6	0.6	0.3	0.4	0.5	0.5	0.4	0.7	0.7	0.6
1960	0.5	0.5	0.5	0.7	0.3	0.5	0.4	0.5	0.6	0.4	0.7	0.8	0.5
1961	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.7	0.5	0.7	0.5
1962	0.6	0.4	0.5	0.6	0.4	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.4
1963	0.6	0.4	0.6	0.5	0.5	0.3	0.4	0.3	0.3	0.7	0.7	0.5	0.5
1964	0.6	0.5	0.6	0.7	0.4	0.4	0.5	0.5	0.5	0.7	0.5	0.8	0.5
1965	0.5	0.6	0.5	0.4	0.6	0.5	0.3	0.4	0.7	0.4	0.5	0.7	0.5
1966	0.7	0.7	0.6	0.5	0.5	0.7	0.3	0.4	0.3	0.6	0.8	0.6	0.6
1967	0.7	0.5	0.6	0.6	0.4	0.3	0.5	0.4	0.4	0.7	0.7	0.6	0.5
1968	0.6	0.2	0.5	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.4
1969	0.7	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.5	0.7	0.6	0.4	0.5
1970	0.5	0.7	0.6	0.4	0.7	0.3	0.4	0.4	0.6	0.7	0.5	0.5	0.5
1971	0.5	0.7	0.5	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.7	0.7	0.5
1972	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.3	0.5	0.6	0.5	0.8	0.5
1973	0.6	0.6	0.6	0.7	0.4	0.4	0.2	0.4	0.3	0.7	0.6	0.5	0.5
1974	0.4	0.4	0.4	0.6	0.3	0.3	0.2	0.3	0.3	0.8	0.6	0.4	0.4
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.3	0.3	0.4	0.5	0.8	0.7	0.4
MEAN	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.6	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 164

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.2	1.3	2.0	1.2	1.6	1.5	1.2	1.0	1.6	2.4	2.2	1.1
1957	2.1	2.1	1.2	2.0	1.2	1.1	0.9	1.1	1.2	1.9	1.9	1.8
1958	2.4	1.2	1.4	1.4	1.5	1.2	1.3	1.0	1.2	2.2	1.8	2.1
1959	2.0	1.5	2.3	2.0	1.6	1.1	1.1	1.3	2.0	1.5	2.2	2.0
1960	1.2	1.5	1.2	2.2	1.2	1.9	1.0	1.2	2.2	1.2	2.1	2.1
1961	2.3	1.7	1.3	1.5	1.4	1.6	1.0	1.1	1.2	2.2	1.2	2.4
1962	2.1	1.6	1.4	2.3	1.4	1.0	0.9	1.4	1.3	2.3	2.1	1.3
1963	1.9	1.5	2.1	1.9	1.7	1.1	1.2	1.3	0.9	2.7	2.0	1.7
1964	1.9	2.1	1.2	1.4	1.1	1.0	1.3	1.5	1.4	2.2	1.5	2.1
1965	1.4	1.4	2.1	1.3	1.2	1.2	1.0	0.9	1.9	2.0	2.3	2.1
1966	2.1	1.5	1.9	1.5	1.2	1.8	1.2	1.0	1.4	2.4	2.1	1.4
1967	1.8	1.8	2.2	2.2	1.3	1.3	1.1	1.1	1.2	1.9	2.2	1.7
1968	2.2	0.8	1.8	1.0	1.3	1.7	1.0	1.0	0.8	1.6	1.5	1.9
1969	2.1	1.7	1.7	1.4	1.4	1.0	1.0	1.1	1.1	1.9	2.1	1.4
1970	2.2	2.2	1.6	1.4	1.4	1.5	1.2	1.5	1.3	1.7	2.0	1.3
1971	1.4	1.9	1.3	1.3	1.3	1.1	1.0	1.4	1.4	0.9	2.0	2.6
1972	2.5	2.2	2.2	1.5	1.4	1.6	1.1	1.1	1.1	2.4	1.2	2.5
1973	2.0	1.8	2.1	1.6	1.2	1.2	0.9	1.4	1.5	2.4	2.7	1.9
1974	1.1	2.0	1.1	1.5	1.1	1.1	0.6	0.9	1.0	2.6	1.4	1.3
1975	1.9	1.0	1.4	1.5	0.8	0.7	1.0	1.1	1.2	1.5	1.7	2.5

LARGEST HS(METRES) FOR STATION 164 = 2.7

STATION 165 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4382	3504	1603	893	39	.	.	.	.	.	10421
0.50 - 0.99	.	95	800	667	20	.	.	.	.	.	1582
1.00 - 1.49	.	.	.	54	1	.	.	.	.	.	55
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4382	3599	2403	1614	60	0	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.20 ANGLE CLASS % = 12.1

STATION 165 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3158	1858	.	.	.	.	.	.	.	.	5016
0.50 - 0.99	.	619	1825	527	1	.	.	.	.	.	2972
1.00 - 1.49	.	.	17	677	65	.	.	.	.	.	759
1.50 - 1.99	.	.	.	15	17	.	.	.	.	.	32
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3158	2477	1842	1219	83	0	0	0	0	0	

AVERAGE HS(M) = 0.50 LARGEST HS(M) = 1.92 ANGLE CLASS % = 8.8

STATION 165 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3119	2310	.	.	.	.	.	.	.	.	5429
0.50 - 0.99	.	1226	2484	316	.	.	.	.	.	.	4026
1.00 - 1.49	.	.	18	804	3	.	.	.	.	.	825
1.50 - 1.99	.	.	.	27	29	.	.	.	.	.	56
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3119	3536	2502	1147	32	0	0	0	0	0	

AVERAGE HS(M) = 0.52 LARGEST HS(M) = 1.82 ANGLE CLASS % = 10.3

STATION 165 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	5675	5681			.	.	.	140	715	420	12631
0.50 - 0.99	.	3179	7337	1290	.	.	.	.	1	.	11807
1.00 - 1.49	.	.	53	4065	49	.	.	.	.	.	4167
1.50 - 1.99	.	.	.	107	59	15	.	.	.	.	181
2.00 - 2.49	.	.	.	.	6	20	1	.	.	.	27
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5675	8860	7390	5462	114	36	1	140	716	420	

AVERAGE HS(M) = 0.60 LARGEST HS(M) = 2.54 ANGLE CLASS % = 28.8

STATION 165 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3668	4315	25		65	318	296	.	.	.	8687
0.50 - 0.99	.	1360	5136	1507	195	292	59	6	.	.	8555
1.00 - 1.49	.	.	42	2419	862	325	107	17	.	.	3772
1.50 - 1.99	.	.	.	34	260	561	65	30	3	.	953
2.00 - 2.49	.	.	.	.	29	118	29	8	.	.	184
2.50 - 2.99	.	.	.	.	.	1	.	.	.	.	1
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3668	5675	5203	3960	1411	1615	556	61	3	0	

AVERAGE HS(M) = 0.69 LARGEST HS(M) = 2.60 ANGLE CLASS % = 22.2

STATION 165 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

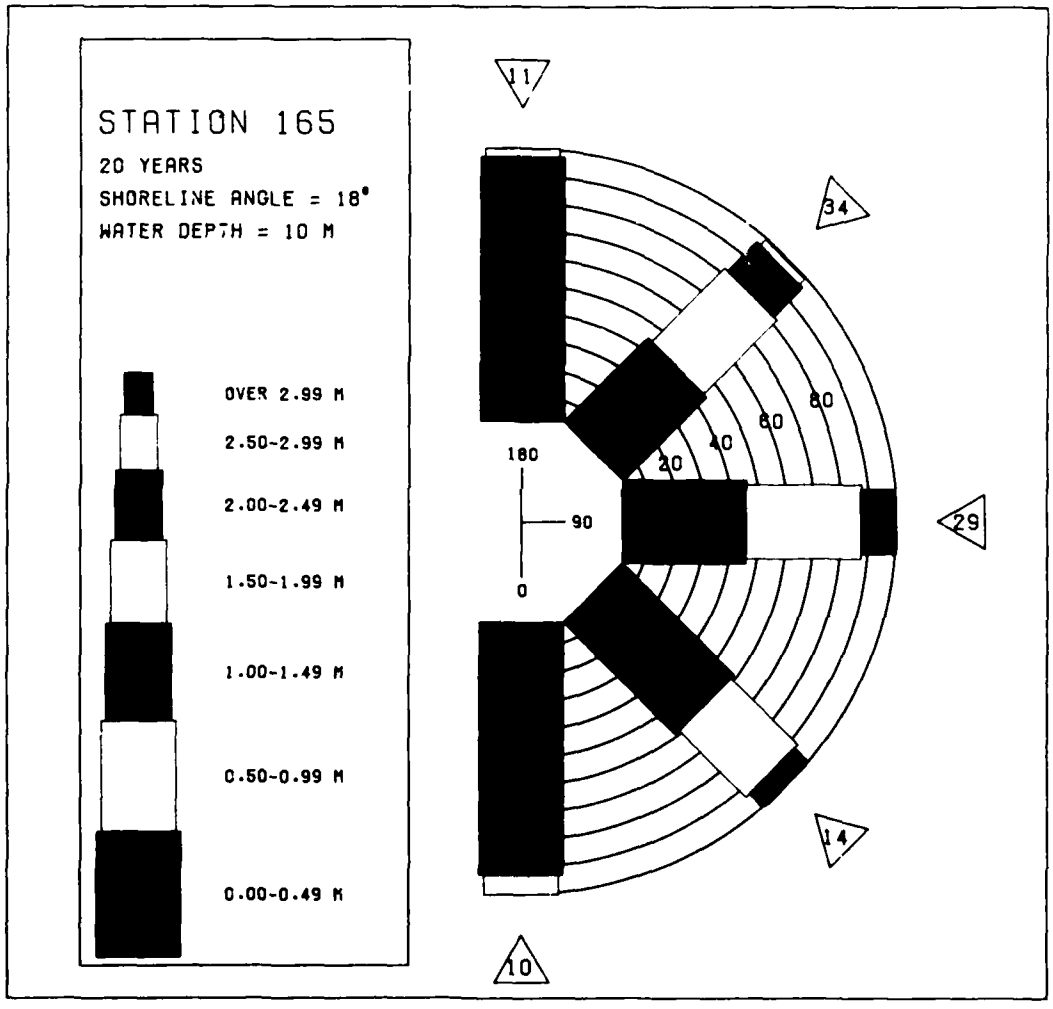
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3805	4182	2520	1916	537	95	.	.	.	.	13055
0.50 - 0.99	.	25	901	658	244	63	.	.	.	.	1891
1.00 - 1.49	.	.	.	3	11	.	.	.	.	.	14
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3805	4207	3421	2577	792	158	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.35 ANGLE CLASS % = 15.0

STATION 165 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 18.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. ~ 0.49	2381	2185	414	280	64	41	29	14	71	42	5521
0.50 ~ 0.99	.	650	1848	496	46	35	5	.	.	.	3080
1.00 ~ 1.49	.	.	13	802	99	32	10	1	.	.	957
1.50 ~ 1.99	.	.	.	18	36	57	6	3	.	.	120
2.00 ~ 2.49	.	.	.	.	3	13	3	.	.	.	19
2.50 ~ 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 ~ 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 ~ 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 ~ 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 ~ 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 ~ GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2381	2835	2275	1596	248	178	53	18	71	42	

AVE HS(M) = 0.49 LARGEST HS(M) = 2.60 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 165

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.6	0.5	0.5	0.7	0.4	0.4	0.2	0.5	0.6	0.7	0.6	0.5
1957	0.5	0.6	0.3	0.8	0.5	0.5	0.3	0.3	0.6	0.6	0.7	0.7	0.5
1958	0.6	0.4	0.5	0.5	0.6	0.5	0.6	0.2	0.4	0.5	0.6	0.6	0.5
1959	0.6	0.6	0.6	0.6	0.6	0.3	0.4	0.5	0.5	0.5	0.7	0.7	0.5
1960	0.4	0.5	0.5	0.7	0.3	0.5	0.4	0.5	0.6	0.4	0.7	0.8	0.5
1961	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.7	0.5	0.6	0.5
1962	0.5	0.4	0.4	0.5	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.4
1963	0.5	0.4	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.7	0.7	0.4	0.5
1964	0.5	0.5	0.6	0.7	0.4	0.4	0.5	0.5	0.5	0.7	0.5	0.8	0.5
1965	0.5	0.6	0.5	0.4	0.6	0.5	0.3	0.4	0.7	0.4	0.5	0.7	0.5
1966	0.6	0.7	0.6	0.5	0.5	0.7	0.3	0.4	0.3	0.6	0.7	0.6	0.5
1967	0.7	0.5	0.6	0.5	0.4	0.3	0.5	0.4	0.4	0.6	0.6	0.6	0.5
1968	0.5	0.2	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.3
1969	0.7	0.4	0.5	0.6	0.6	0.4	0.3	0.4	0.5	0.6	0.6	0.4	0.5
1970	0.5	0.6	0.6	0.4	0.7	0.3	0.4	0.5	0.6	0.6	0.5	0.5	0.5
1971	0.5	0.7	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.7	0.7	0.5
1972	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.8	0.5
1973	0.5	0.6	0.6	0.7	0.4	0.4	0.2	0.4	0.3	0.6	0.6	0.5	0.5
1974	0.4	0.4	0.4	0.6	0.3	0.3	0.2	0.3	0.3	0.8	0.5	0.4	0.4
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.3	0.3	0.4	0.5	0.8	0.7	0.4
MEAN	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.6	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 165

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.1	1.3	2.0	1.2	1.5	1.5	1.2	1.0	1.4	2.2	2.1	1.1
1957	2.1	2.1	1.2	1.9	1.2	1.1	0.9	1.1	1.2	1.7	1.9	1.8
1958	2.3	1.3	1.4	1.3	1.4	1.2	1.3	1.0	1.2	2.1	1.8	1.9
1959	1.9	1.4	2.2	1.8	1.5	1.1	1.1	1.3	2.0	1.5	2.2	2.0
1960	1.2	1.5	1.2	2.0	1.1	1.8	1.1	1.2	2.2	1.2	2.1	2.1
1961	2.2	1.7	1.3	1.5	1.4	1.5	1.0	1.1	1.2	2.2	1.2	2.4
1962	2.1	1.3	1.2	2.1	1.3	1.0	0.9	1.4	1.3	2.2	1.9	1.3
1963	1.9	1.5	1.9	1.9	1.7	1.1	1.2	1.3	0.9	2.5	1.9	1.6
1964	1.9	2.1	1.2	1.4	1.1	1.0	1.3	1.5	1.4	2.0	1.4	2.1
1965	1.4	1.4	1.9	1.3	1.2	1.2	1.0	0.9	1.9	1.9	2.1	1.9
1966	1.9	1.5	1.8	1.5	1.2	1.9	1.2	1.0	1.4	2.2	2.0	1.4
1967	1.7	1.6	2.2	2.2	1.3	1.3	1.1	1.1	1.2	1.9	2.0	1.7
1968	2.2	0.8	1.7	1.0	1.3	1.7	1.0	1.0	0.8	1.6	1.5	1.8
1969	2.1	1.6	1.6	1.4	1.4	1.0	1.0	1.1	1.1	1.8	2.0	1.4
1970	2.1	2.1	1.6	1.4	1.4	1.5	1.2	1.5	1.2	1.7	1.9	1.3
1971	1.3	1.9	1.3	1.3	1.3	1.0	1.0	1.4	1.2	1.0	1.8	2.5
1972	2.4	2.0	2.0	1.4	1.4	1.6	1.1	1.1	1.1	2.3	1.2	2.4
1973	2.0	1.8	2.1	1.5	1.2	1.1	0.9	1.4	1.4	2.4	2.6	1.8
1974	1.1	1.8	1.1	1.5	1.1	1.2	0.6	0.9	1.0	2.4	1.4	1.3
1975	1.9	1.0	1.5	1.5	0.8	0.7	1.0	1.1	1.2	1.5	1.7	2.5

LARGEST HS(METRES) FOR STATION 165 = 2.6

STATION 166 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 0. - 29.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	3985	3252	1582	908	61	.	.	.	.	.	9788
0.50 - 0.99	.	77	730	638	22	.	.	.	.	.	1467
1.00 - 1.49	.	.	.	63	8	.	.	.	.	.	71
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	3985	3329	2312	1609	91	0	0	0	0	0	

AVERAGE HS(M) = 0.25 LARGEST HS(M) = 1.30 ANGLE CLASS % = 11.3

STATION 166 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 30.0 - 59.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2732	1620	.	.	.	.	.	.	.	.	4352
0.50 - 0.99	.	556	1505	451	.	.	.	.	.	.	2512
1.00 - 1.49	.	.	15	674	58	.	.	.	.	.	747
1.50 - 1.99	.	.	.	15	17	.	.	.	.	.	32
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2732	2176	1520	1140	76	0	0	0	0	0	

AVERAGE HS(M) = 0.50 LARGEST HS(M) = 2.00 ANGLE CLASS % = 7.6

STATION 166 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 60.0 - 89.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2719	1688	.	.	.	.	.	.	.	.	4407
0.50 - 0.99	.	835	1774	212	.	.	.	.	.	.	2821
1.00 - 1.49	.	.	17	631	3	.	.	.	.	.	651
1.50 - 1.99	.	.	.	18	25	.	.	.	.	.	43
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2719	2523	1791	861	28	0	0	0	0	0	

AVERAGE HS(M) = 0.50 LARGEST HS(M) = 1.71 ANGLE CLASS % = 7.9

STATION 166 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 90.0 - 119.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	5467	4919	.	.	.	.	.	.	.	378	10764
0.50 - 0.99	.	2746	6050	1042	.	.	.	.	.	.	9838
1.00 - 1.49	.	.	39	2717	18	.	.	.	.	.	2774
1.50 - 1.99	.	.	.	59	35	.	.	.	.	.	94
2.00 - 2.49	.	.	.	.	1	.	.	.	.	.	1
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	5467	7665	6089	3818	54	0	0	0	0	378	

AVERAGE HS(M) = 0.57 LARGEST HS(M) = 2.07 ANGLE CLASS % = 23.5

STATION 166 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 120.0 - 149.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4546	5889	37	.	59	308	304	114	672	.	11929
0.50 - 0.99	.	1654	6812	2511	302	242	102	15	.	.	11638
1.00 - 1.49	.	.	32	3271	785	414	92	34	3	.	4629
1.50 - 1.99	.	.	.	30	174	414	32	11	.	.	661
2.00 - 2.49	.	.	.	.	8	44	10	.	.	.	62
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4546	7543	6881	5812	1326	1422	540	174	675	0	

AVERAGE HS(M) = 0.65 LARGEST HS(M) = 2.38 ANGLE CLASS % = 28.9

STATION 166 20 YEARS WAVE APPROACH ANGLE(DEGREES)= 150.0 - 179.9
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X1000) OF HEIGHT AND PERIOD BY DIRECTION

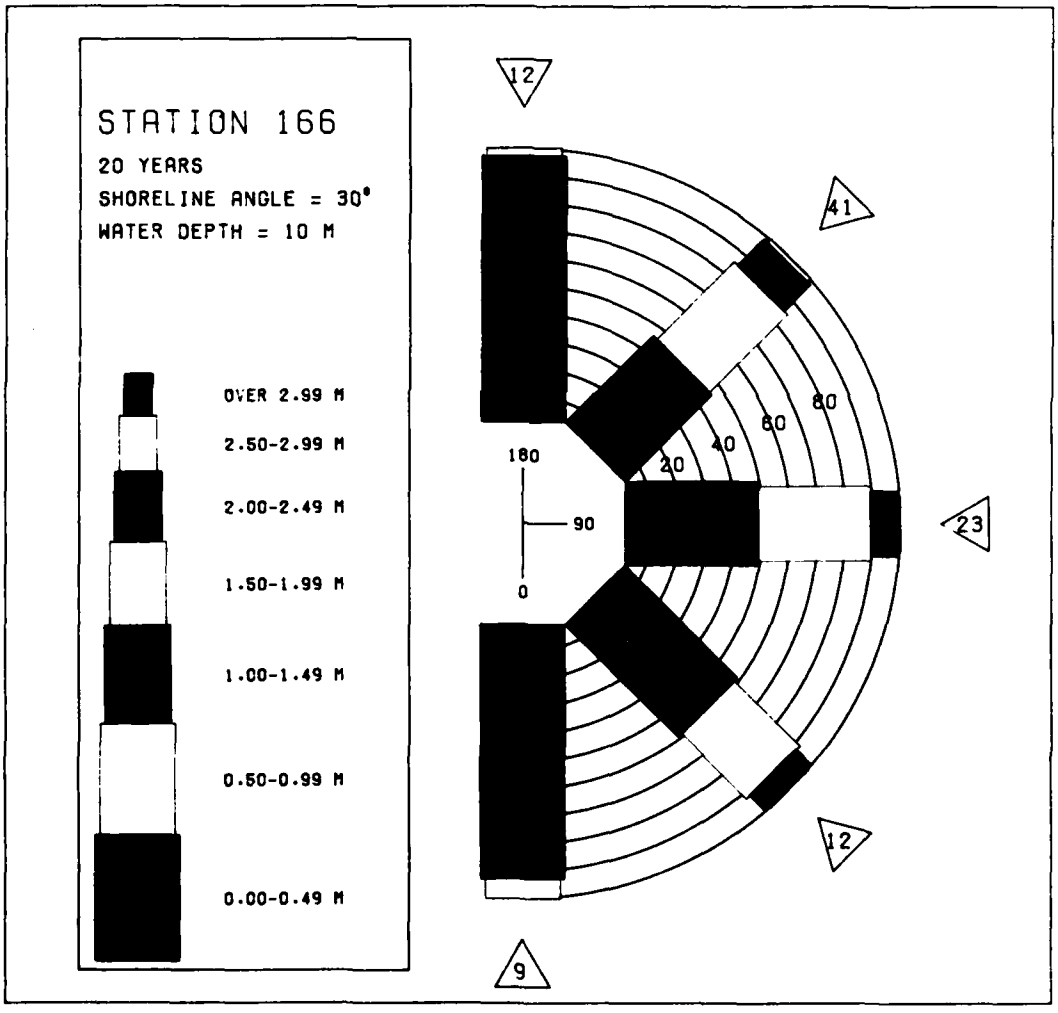
HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	4418	5023	3006	1866	626	229	.	.	.	.	15168
0.50 - 0.99	.	80	1146	756	233	143	.	.	.	.	2357
1.00 - 1.49	.	.	.	.	15	.	.	.	.	.	15
1.50 - 1.99	.	.	.	.	.	.	.	.	.	.	0
2.00 - 2.49	.	.	.	.	.	.	.	.	.	.	0
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	4418	5103	4152	2622	873	372	0	0	0	0	

AVERAGE HS(M) = 0.26 LARGEST HS(M) = 1.31 ANGLE CLASS % = 17.5

STATION 166 20 YEARS FOR ALL DIRECTIONS
SHORELINE ANGLE = 30.0 DEGREES AZIMUTH
WATER DEPTH = 10.00 METRES
PERCENT OCCURRENCE(X100) OF HEIGHT AND PERIOD FOR ALL DIRECTIONS

HEIGHT(METRES)	PERIOD(SECONDS)										TOTAL
	0.0-2.9	3.0-3.9	4.0-4.9	5.0-5.9	6.0-6.9	7.0-7.9	8.0-8.9	9.0-9.9	10.0-10.9	11.0-LONGER	
0. - 0.49	2386	2239	462	277	74	53	30	11	67	37	5636
0.50 - 0.99	.	594	1802	561	55	38	10	1	.	.	3061
1.00 - 1.49	.	.	10	735	88	41	9	3	.	.	886
1.50 - 1.99	.	.	.	12	25	41	3	1	.	.	82
2.00 - 2.49	.	.	.	.	1	4	1	.	.	.	6
2.50 - 2.99	.	.	.	.	.	.	.	.	.	.	0
3.00 - 3.49	.	.	.	.	.	.	.	.	.	.	0
3.50 - 3.99	.	.	.	.	.	.	.	.	.	.	0
4.00 - 4.49	.	.	.	.	.	.	.	.	.	.	0
4.50 - 4.99	.	.	.	.	.	.	.	.	.	.	0
5.00 - GREATER	.	.	.	.	.	.	.	.	.	.	0
TOTAL	2386	2833	2274	1585	243	177	53	16	67	37	

AVE HS(M) = 0.47 LARGEST HS(M) = 2.38 TOTAL CASES = 58440



MEAN HS(METRES) BY MONTH AND YEAR

STATION 166

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1956	0.3	0.6	0.5	0.5	0.6	0.4	0.4	0.2	0.5	0.5	0.5	0.5	0.5
1957	0.5	0.6	0.3	0.8	0.5	0.5	0.3	0.3	0.5	0.5	0.6	0.7	0.5
1958	0.6	0.4	0.5	0.5	0.6	0.5	0.6	0.3	0.4	0.5	0.6	0.6	0.5
1959	0.6	0.6	0.6	0.6	0.6	0.3	0.4	0.5	0.4	0.5	0.6	0.6	0.5
1960	0.4	0.5	0.5	0.7	0.3	0.5	0.4	0.5	0.6	0.4	0.6	0.7	0.5
1961	0.5	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.6	0.4	0.6	0.5
1962	0.5	0.4	0.4	0.5	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.3	0.4
1963	0.5	0.4	0.6	0.5	0.4	0.4	0.4	0.3	0.3	0.6	0.7	0.4	0.5
1964	0.5	0.5	0.6	0.7	0.4	0.4	0.5	0.5	0.5	0.7	0.5	0.7	0.5
1965	0.5	0.6	0.5	0.4	0.6	0.5	0.3	0.4	0.6	0.4	0.5	0.6	0.5
1966	0.6	0.7	0.5	0.5	0.5	0.7	0.3	0.4	0.3	0.5	0.6	0.5	0.5
1967	0.6	0.5	0.5	0.5	0.4	0.3	0.5	0.4	0.4	0.6	0.6	0.6	0.5
1968	0.5	0.1	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.4	0.3
1969	0.6	0.4	0.5	0.6	0.6	0.4	0.3	0.4	0.5	0.6	0.6	0.4	0.5
1970	0.5	0.6	0.6	0.4	0.7	0.4	0.4	0.5	0.6	0.6	0.5	0.4	0.5
1971	0.4	0.7	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.6	0.7	0.5
1972	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.8	0.5
1973	0.5	0.5	0.6	0.7	0.4	0.4	0.2	0.4	0.3	0.6	0.6	0.5	0.5
1974	0.4	0.4	0.4	0.5	0.3	0.3	0.2	0.3	0.3	0.7	0.5	0.4	0.4
1975	0.5	0.3	0.4	0.4	0.2	0.1	0.3	0.3	0.4	0.5	0.8	0.6	0.4
MEAN	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.6	0.6	

LARGEST HS(METRES) BY MONTH AND YEAR

STATION 166

MONTH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1956	1.2	1.3	1.8	1.2	1.4	1.4	1.2	0.9	1.3	1.9	1.9	1.1
1957	1.7	2.0	1.2	1.9	1.2	1.1	1.0	1.0	1.2	1.5	1.6	1.6
1958	2.0	1.3	1.3	1.3	1.4	1.2	1.2	1.0	1.2	2.0	1.6	1.6
1959	1.7	1.3	2.0	1.5	1.5	1.2	1.0	1.2	1.7	1.5	1.9	1.9
1960	1.1	1.5	1.2	1.8	1.1	1.6	1.3	1.2	1.9	1.2	1.9	1.7
1961	2.1	1.6	1.3	1.5	1.4	1.4	1.0	1.0	1.2	2.0	1.2	2.0
1962	2.0	1.2	1.1	2.0	1.3	1.0	0.9	1.4	1.3	2.0	1.7	1.2
1963	1.8	1.5	1.7	1.7	1.6	1.2	1.1	1.3	1.0	2.4	1.8	1.5
1964	1.5	2.0	1.2	1.3	1.1	1.0	1.3	1.6	1.4	1.9	1.3	1.9
1965	1.3	1.4	1.8	1.3	1.2	1.2	1.1	0.9	1.7	1.8	1.9	1.7
1966	1.8	1.5	1.6	1.5	1.2	2.0	1.2	1.0	1.3	2.0	1.8	1.3
1967	1.6	1.5	2.0	2.0	1.3	1.3	1.1	1.1	1.2	1.5	1.8	1.4
1968	2.0	0.8	1.6	0.9	1.3	1.7	0.9	1.0	0.7	1.5	1.3	1.6
1969	2.1	1.6	1.5	1.3	1.3	1.0	1.0	1.1	1.1	1.7	1.9	1.4
1970	1.9	2.0	1.6	1.3	1.4	1.5	1.2	1.5	1.1	1.6	1.4	1.2
1971	1.2	1.7	1.3	1.5	1.3	1.0	1.0	1.4	1.2	1.2	1.7	2.3
1972	2.0	1.9	1.8	1.4	1.4	1.6	1.0	1.1	1.1	2.1	1.2	2.3
1973	1.9	1.5	2.1	1.5	1.2	1.1	0.9	1.4	1.4	2.0	2.2	1.6
1974	1.1	1.6	1.0	1.5	1.1	1.3	0.6	0.9	1.0	2.1	1.3	1.2
1975	1.7	1.0	1.5	1.4	0.8	0.7	1.0	1.0	1.2	1.5	1.6	2.1

LARGEST HS(METRES) FOR STATION 166 = 2.4

APPENDIX H

RETURN PERIOD AND MEAN WAVE PARAMETER DATA

Return Period and Mean Wave Parameter Data

Station No.	H_s, m, for Return Period, years						$\bar{H}_s$ m	σ_{H_s} m	$\bar{T}_p$ sec	$\bar{\psi}$ deg*	Station No.	H_s, m, for Return Period, years						$\bar{H}_s$ m	σ_{H_s} m	$\bar{T}_p$ sec	$\bar{\psi}$ deg*
	21	10	7	5	3	1						21	10	7	5	3	1				
1	4.4	4.0	3.8	3.5	3.5	2.9	0.44	0.46	5.5	40	41	4.1	4.0	3.7	3.7	3.4	2.9	0.35	0.44	5.4	44
2	4.5	4.1	3.9	3.8	3.5	3.0	0.48	0.48	5.5	45	42	4.2	4.2	4.1	4.0	3.7	3.5	0.68	0.50	5.9	75
3	4.5	4.2	3.9	3.9	3.8	3.2	0.52	0.51	5.4	50	43	4.2	4.2	4.1	4.1	3.7	3.4	0.68	0.50	5.9	74
4	5.0	4.2	4.0	4.0	3.9	3.2	0.55	0.52	5.4	54	44	4.2	4.2	4.1	4.0	3.7	3.4	0.68	0.50	5.9	75
5	4.5	4.2	3.9	3.9	3.7	3.1	0.58	0.51	5.9	58	45	4.2	4.1	4.0	4.0	3.7	3.4	0.68	0.50	5.9	74
6	4.4	4.0	3.9	3.9	3.6	3.1	0.57	0.50	5.9	56	46	4.2	4.2	4.1	4.0	3.7	3.4	0.68	0.50	5.9	75
7	4.2	3.8	3.7	3.6	3.5	3.1	0.53	0.51	5.4	66	47	4.1	4.1	3.9	3.8	3.6	3.3	0.67	0.50	5.7	73
8	4.4	4.0	4.0	3.9	3.6	3.2	0.61	0.52	5.5	67	48	4.1	4.1	3.9	3.7	3.6	3.3	0.67	0.50	5.7	73
9	4.4	4.0	3.9	3.7	3.6	3.1	0.57	0.52	5.5	65	49	4.2	4.0	3.9	3.7	3.6	3.3	0.63	0.50	6.1	88
10	4.2	4.0	3.9	3.8	3.6	3.3	0.61	0.50	5.5	73	50	4.2	4.0	3.9	3.7	3.6	3.2	0.60	0.49	6.1	91
11	4.2	4.0	3.9	3.8	3.5	3.2	0.60	0.50	5.5	72	51	4.2	4.0	3.8	3.7	3.6	3.2	0.57	0.49	5.9	97
12	4.8	4.2	4.0	4.9	3.8	3.2	0.47	0.49	5.6	93	52	4.2	3.7	3.7	3.6	3.4	2.9	0.48	0.45	5.7	100
13	4.4	4.2	3.9	3.8	3.7	3.1	0.41	0.46	5.8	100	53	3.7	3.5	3.4	3.3	3.2	2.8	0.47	0.43	6.1	56
14	4.0	4.0	3.7	3.7	3.6	3.3	0.44	0.49	5.5	55	54	3.7	3.7	3.6	3.5	3.2	2.8	0.42	0.44	5.8	55
15	4.4	4.2	4.0	3.8	3.7	3.2	0.47	0.50	5.6	78	55	3.7	3.6	3.6	3.5	3.3	2.9	0.47	0.45	5.9	57
16	3.9	3.8	3.7	3.7	3.6	3.1	0.39	0.48	5.2	99	56	3.9	3.7	3.6	3.6	3.3	2.9	0.46	0.46	5.8	60
17	4.2	4.1	3.9	3.9	3.5	3.3	0.38	0.50	5.4	78	57	4.0	3.9	3.9	3.8	3.6	3.1	0.51	0.50	5.9	67
18	3.9	3.9	3.9	3.8	3.5	3.3	0.39	0.49	5.3	98	58	4.0	3.9	3.9	3.8	3.6	3.1	0.55	0.51	5.7	78
19	3.9	3.9	3.8	3.8	3.4	3.3	0.34	0.48	5.5	93	59	3.8	3.7	3.6	3.6	3.4	3.1	0.61	0.49	6.0	74
20	4.3	4.1	3.9	3.9	3.6	3.2	0.35	0.49	5.4	72	60	4.5	3.9	3.9	3.9	3.7	3.2	0.64	0.51	6.1	75
21	3.9	3.6	3.4	3.4	3.2	2.9	0.20	0.40	4.3	49	61	4.1	3.7	3.7	3.6	3.6	3.1	0.65	0.49	6.0	78
22	3.7	3.7	3.6	3.6	3.3	2.9	0.25	0.43	5.1	126	62	4.5	4.3	3.9	3.9	3.7	3.2	0.64	0.51	6.1	75
23	3.9	3.9	3.7	3.5	3.2	2.8	0.25	0.44	5.0	129	63	4.5	3.9	3.9	3.8	3.6	3.2	0.63	0.51	6.1	75
24	4.3	4.2	4.0	3.9	3.7	3.1	0.26	0.48	5.0	80	64	4.1	3.7	3.6	3.6	3.5	3.1	0.55	0.49	6.2	91
25	4.3	4.2	4.1	4.0	3.9	3.2	0.29	0.51	4.9	89	65	5.0	4.7	4.4	4.1	3.8	3.4	0.46	0.54	5.9	62
26	4.3	4.1	4.1	4.0	3.8	3.2	0.28	0.50	4.8	112	66	5.1	4.7	4.4	4.3	3.8	3.3	0.50	0.52	6.1	68
27	3.8	3.4	3.3	3.2	3.1	2.8	0.25	0.45	4.2	53	67	5.0	4.6	4.3	4.1	3.8	3.2	0.59	0.50	6.2	74
28	4.3	4.2	4.1	4.0	3.8	3.4	0.42	0.57	4.6	77	68	4.7	4.3	4.0	4.0	3.6	3.1	0.64	0.49	6.2	79
29	4.5	4.4	4.3	4.2	4.0	3.4	0.49	0.60	4.6	85	69	4.9	4.3	4.1	4.0	3.6	3.1	0.64	0.49	6.2	79
30	4.5	4.2	4.1	4.1	3.7	3.3	0.49	0.57	5.1	84	70	4.7	4.3	4.0	3.9	3.6	3.0	0.64	0.48	6.2	80
31	4.5	4.2	4.0	4.0	3.6	3.4	0.56	0.57	5.7	76	71	4.1	3.9	3.7	3.7	3.6	3.0	0.58	0.47	6.3	89
32	4.6	4.5	4.2	4.1	4.0	3.6	0.56	0.64	5.0	73	72	4.9	4.5	4.0	4.0	3.8	3.1	0.57	0.48	6.3	70
33	5.2	4.4	4.4	4.2	4.1	3.8	0.80	0.60	5.9	78	73	4.9	4.5	4.3	4.0	3.8	3.1	0.60	0.49	6.2	73
34	5.2	4.5	4.4	4.3	4.2	3.9	0.81	0.62	5.8	81	74	5.2	4.4	4.1	3.8	3.7	3.2	0.62	0.52	6.2	93
35	5.1	4.5	4.2	4.1	4.1	3.6	0.72	0.57	5.8	71	75	5.2	4.4	4.1	3.8	3.4	3.1	0.52	0.52	5.7	103
36	5.1	4.3	4.1	4.0	3.7	3.3	0.66	0.54	6.1	68	76	5.2	4.4	4.1	3.8	3.4	3.1	0.52	0.53	5.7	103
37	5.1	4.4	4.2	4.1	3.9	3.7	0.59	0.55	5.9	113	77	5.3	5.0	4.8	4.8	3.8	3.2	0.55	0.57	5.7	73
38	5.1	4.2	4.1	4.1	4.0	3.7	0.75	0.57	5.6	79	78	5.3	5.0	4.8	4.8	3.8	3.4	0.57	0.59	5.7	77
39	5.1	4.1	4.0	3.9	3.9	3.4	0.56	0.53	6.0	87	79	5.1	5.1	4.7	4.5	3.9	3.4	0.57	0.60	5.2	83
40	4.1	4.1	3.8	3.7	3.6	3.1	0.40	0.48	5.6	66	80	5.2	5.1	4.7	4.5	3.9	3.4	0.62	0.61	5.1	82

(Continued)

* Relative to the shoreline.

Station No.	H_s, m, for Return Period, years						$\bar{H}_s$ m	σ_{H_s} m	$\bar{T}_p$ sec	$\bar{\psi}$ deg*
	21	10	7	5	3	1				
81	5.3	5.1	4.7	4.5	4.0	3.5	0.62	0.62	5.1	81
82	5.9	5.1	4.7	4.7	4.3	3.6	0.71	0.66	5.6	77
83	5.9	5.1	4.7	4.7	4.3	3.6	0.71	0.65	5.6	78
84	5.9	5.1	4.7	4.7	4.3	3.6	0.71	0.64	5.6	79
85	5.3	4.9	4.7	4.1	3.9	3.4	0.67	0.58	5.6	87
86	4.9	4.7	4.7	3.9	3.7	3.2	0.66	0.55	5.6	87
87	5.1	4.6	4.4	4.2	3.6	3.1	0.68	0.57	5.6	85
88	3.9	3.7	3.7	3.6	3.6	3.1	0.74	0.58	5.4	83
89	3.9	3.7	3.6	3.6	3.3	3.0	0.68	0.55	5.5	95
90	3.8	3.7	3.5	3.4	3.3	2.9	0.71	0.54	5.5	80
91	3.8	3.7	3.4	3.4	3.2	2.9	0.67	0.54	5.5	74
92	3.8	3.7	3.5	3.4	3.2	2.9	0.66	0.53	5.5	74
93	3.8	3.7	3.5	3.3	3.2	2.8	0.65	0.53	5.5	73
94	3.8	3.8	3.7	3.4	3.2	2.8	0.60	0.52	5.4	70
95	4.1	4.0	4.0	3.9	3.5	3.3	0.63	0.60	5.5	109
96	3.9	3.8	3.7	3.7	3.6	3.2	0.67	0.60	5.2	79
97	3.7	3.7	3.7	3.6	3.5	3.1	0.60	0.55	5.3	84
98	3.7	3.7	3.7	3.6	3.4	3.1	0.58	0.53	5.3	76
99	3.8	3.7	3.7	3.6	3.4	3.0	0.55	0.52	5.2	77
100	3.8	3.7	3.7	3.6	3.4	3.0	0.55	0.51	5.2	77
101	3.8	3.3	3.3	3.3	3.2	2.9	0.58	0.49	5.8	80
102	4.0	3.3	3.2	3.2	3.1	2.9	0.53	0.47	5.8	70
103	4.0	3.5	3.3	3.2	3.1	2.8	0.57	0.48	5.7	69
104	4.0	3.5	3.3	3.2	3.1	2.8	0.56	0.48	5.7	69
105	3.7	3.6	3.5	3.5	3.3	3.1	0.48	0.51	5.1	116
106	3.7	3.6	3.5	3.5	3.4	3.2	0.53	0.53	5.2	95
107	3.5	3.5	3.5	3.5	3.4	3.2	0.55	0.52	5.1	89
108	3.6	3.5	3.5	3.5	3.4	3.1	0.54	0.52	5.1	88
109	3.5	3.4	3.4	3.3	3.2	3.0	0.52	0.48	5.4	84
110	3.5	3.5	3.5	3.3	3.1	2.9	0.53	0.48	5.7	80
111	3.5	3.5	3.5	3.4	3.3	2.9	0.57	0.49	5.7	83
112	3.6	3.5	3.5	3.5	3.3	2.9	0.58	0.49	5.7	71
113	3.8	3.7	3.4	3.4	3.3	3.0	0.64	0.54	5.8	77
114	4.6	4.1	3.7	3.6	3.4	3.1	0.74	0.55	5.8	86
115	3.8	3.6	3.5	3.4	3.3	3.1	0.70	0.52	5.6	93
116	4.2	4.0	3.5	3.4	3.3	3.1	0.74	0.53	5.7	88
117	3.9	3.8	3.5	3.4	3.3	3.1	0.73	0.52	5.7	88
118	5.3	3.7	3.7	3.4	3.3	3.0	0.68	0.51	5.6	88
119	4.9	3.5	3.4	3.4	3.3	3.0	0.61	0.49	5.4	103
120	4.7	3.4	3.2	3.2	3.0	2.8	0.62	0.46	5.4	90
121	4.7	3.4	3.2	3.2	3.1	2.8	0.58	0.46	5.5	93
122	4.7	3.4	3.2	3.2	3.0	2.8	0.60	0.46	5.4	92
123	4.0	3.7	3.5	3.3	3.2	2.9	0.67	0.52	5.8	85

Station No.	H_s, m, for Return Period, years						$\bar{H}_s$ m	σ_{H_s} m	$\bar{T}_p$ sec	$\bar{\psi}$ deg*
	21	10	7	5	3	1				
124	4.0	3.6	3.5	3.3	3.2	2.9	0.67	0.52	5.8	90
125	4.0	3.6	3.4	3.4	3.2	2.8	0.66	0.51	5.8	98
126	4.0	3.7	3.6	3.4	3.4	2.9	0.67	0.54	5.9	79
127	4.4	4.1	3.6	3.5	3.4	3.0	0.66	0.53	5.7	86
128	4.6	4.1	3.7	3.7	3.5	3.1	0.68	0.54	5.7	87
129	4.4	4.1	3.7	3.6	3.4	3.0	0.65	0.54	5.8	93
130	4.6	4.3	3.8	3.7	3.6	3.1	0.63	0.55	5.9	87
131	3.8	3.5	3.5	3.2	3.0	2.7	0.55	0.50	5.6	85
132	3.8	3.5	3.5	3.2	3.0	2.7	0.55	0.50	5.7	77
133	3.8	3.5	3.5	3.2	2.9	2.7	0.56	0.50	5.5	73
134	3.8	3.5	3.5	3.2	3.0	2.7	0.57	0.51	5.4	74
135	4.6	4.6	4.1	3.9	3.7	3.2	0.69	0.58	5.8	78
136	4.6	4.6	4.1	4.0	3.7	3.2	0.69	0.58	5.8	79
137	4.7	4.6	4.1	4.0	3.8	3.2	0.69	0.59	5.7	75
138	5.0	4.6	4.3	4.3	3.9	3.3	0.72	0.62	5.6	77
139	5.1	4.6	4.4	4.3	3.9	3.4	0.72	0.63	5.6	75
140	5.1	4.6	4.4	4.4	3.9	3.4	0.72	0.63	5.6	74
141	5.0	4.9	4.6	4.3	4.3	3.6	0.82	0.67	5.9	77
142	5.0	4.9	4.7	4.4	4.3	3.6	0.82	0.67	5.9	76
143	5.2	5.0	4.7	4.4	4.3	3.6	0.82	0.68	5.9	74
144	4.0	3.9	3.7	3.6	3.5	3.2	0.79	0.63	5.9	74
145	4.0	3.9	3.7	3.6	3.5	3.2	0.79	0.64	6.0	72
146	4.0	4.0	3.7	3.6	3.5	3.2	0.79	0.62	5.9	77
147	3.5	3.4	3.3	3.3	3.1	2.8	0.71	0.53	6.4	107
148	3.8	3.8	3.7	3.5	3.3	3.0	0.77	0.58	6.7	88
149	4.4	4.2	3.8	3.8	3.5	3.0	0.78	0.53	6.4	107
150	4.5	4.2	3.8	3.8	3.5	3.1	0.78	0.58	6.7	88
151	4.4	4.3	3.8	3.8	3.5	3.1	0.80	0.52	6.3	83
152	3.6	3.5	3.4	3.3	3.2	2.8	0.78	0.54	6.2	79
153	3.6	3.5	3.4	3.2	3.2	2.8	0.78	0.54	6.2	80
154	3.6	3.5	3.4	3.3	3.2	2.8	0.78	0.54	6.2	79
155	4.1	3.7	3.7	3.6	3.3	2.9	0.83	0.58	6.1	83
156	4.0	3.7	3.6	3.5	3.2	2.9	0.82	0.57	6.0	86
157	4.0	3.7	3.6	3.5	3.2	2.8	0.82	0.57	6.0	88
158	3.9	3.7	3.3	3.3	3.0	2.6	0.72	0.51	5.5	96
159	3.5	3.4	3.1	3.1	2.8	2.4	0.68	0.48	5.3	101
160	3.5	3.4	3.2	3.1	2.8	2.5	0.69	0.49	5.4	100
161	2.8	2.7	2.7	2.7	2.6	2.4	0.53	0.43	4.0	95
162	2.8	2.7	2.7	2.7	2.6	2.4	0.53	0.43	4.0	95
163	2.9	2.9	2.7	2.7	2.6	2.4	0.53	0.43	4.0	94
164	2.7	2.7	2.6	2.6	2.5	2.2	0.50	0.39	3.6	97
165	2.6	2.5	2.5	2.5	2.4	2.2	0.49	0.38	3.5	100
166	2.4	2.3	2.3	2.2	2.1	2.0	0.47	0.36	3.5	106

APPENDIX I

DURATION OF WAVES OVER A SPECIFIED WAVE HEIGHT

Duration, hr, of Waves with H_s over a Specified Wave Height

Station No.	Duration	H_s, m 0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
1	Mean	25*	18	14	9	6	7	5	9	--	--	--
	Max	531	222	138	60	33	24	9	9	--	--	--
2	Mean	28	20	16	10	7	6	6	5	--	--	--
	Max	534	240	144	69	39	27	21	9	--	--	--
3	Mean	30	21	18	11	8	6	7	5	3	--	--
	Max	534	243	144	69	42	36	24	9	3	--	--
4	Mean	31	21	19	12	9	6	6	6	3	3	--
	Max	534	243	150	75	42	36	24	21	3	3	--
5	Mean	35	23	18	12	9	7	6	5	--	--	--
	Max	3,567	294	153	69	42	36	21	12	--	--	--
6	Mean	34	22	17	11	9	7	5	8	--	--	--
	Max	3,564	294	153	69	39	36	18	12	--	--	--
7	Mean	26	19	16	12	10	8	6	6	--	--	--
	Max	834	360	123	84	57	24	12	6	--	--	--
8	Mean	30	19	16	12	9	8	6	8	--	--	--
	Max	606	357	126	63	51	30	15	12	--	--	--
9	Mean	28	19	16	12	10	9	6	9	--	--	--
	Max	606	360	135	63	48	27	15	9	--	--	--
10	Mean	32	21	18	13	9	7	5	3	--	--	--
	Max	594	192	105	63	42	24	15	3	--	--	--
11	Mean	32	21	18	12	9	7	6	3	--	--	--
	Max	597	192	105	63	45	24	15	3	--	--	--
12	Mean	25	18	15	11	8	8	6	5	3	--	--
	Max	594	231	66	45	33	24	18	9	3	--	--
13	Mean	23	17	14	10	8	7	6	6	--	--	--
	Max	594	228	66	45	33	21	15	9	--	--	--
14	Mean	24	19	15	12	11	8	7	3	--	--	--
	Max	429	213	96	57	45	30	18	3	--	--	--
15	Mean	25	19	16	12	10	8	6	5	--	--	--
	Max	786	228	96	54	42	36	18	6	--	--	--
16	Mean	27	21	15	11	9	7	6	--	--	--	--
	Max	861	825	153	69	33	21	12	--	--	--	--
17	Mean	29	22	17	13	10	8	7	5	--	--	--
	Max	864	477	156	105	60	30	15	6	--	--	--
18	Mean	29	22	18	12	10	9	6	--	--	--	--
	Max	864	477	168	102	60	27	15	--	--	--	--
19	Mean	30	23	17	12	9	8	6	--	--	--	--
	Max	696	474	159	69	60	27	15	--	--	--	--
20	Mean	29	22	18	15	11	8	7	5	--	--	--
	Max	633	360	153	108	60	33	15	6	--	--	--
21	Mean	19	18	17	11	10	8	11	--	--	--	--
	Max	282	132	114	102	63	18	12	--	--	--	--
22	Mean	23	19	14	10	8	5	4	--	--	--	--
	Max	735	324	102	84	39	21	9	--	--	--	--
23	Mean	22	19	16	12	9	10	8	--	--	--	--
	Max	735	456	114	96	69	30	15	--	--	--	--
24	Mean	23	20	17	13	13	12	9	6	--	--	--
	Max	633	456	168	111	96	66	36	9	--	--	--
25	Mean	25	22	18	14	14	12	14	7	--	--	--
	Max	798	456	153	123	102	69	39	9	--	--	--
26	Mean	23	21	17	13	14	12	16	7	--	--	--
	Max	798	456	186	120	99	69	39	9	--	--	--
27	Mean	16	15	15	11	10	6	6	--	--	--	--
	Max	246	243	117	96	45	18	6	--	--	--	--
28	Mean	26	22	20	15	15	14	13	7	--	--	--
	Max	1,265	795	360	186	108	72	39	9	--	--	--
29	Mean	26	22	21	17	14	13	13	8	3	--	--
	Max	603	492	270	147	102	69	39	18	3	--	--
30	Mean	25	21	19	16	14	11	12	7	3	--	--
	Max	585	492	240	129	99	69	39	15	3	--	--
31	Mean	29	22	20	15	12	9	9	7	--	--	--
	Max	1,431	405	186	120	72	45	30	12	--	--	--
32	Mean	32	24	22	18	16	16	12	8	6	--	--
	Max	621	618	528	186	117	63	48	18	6	--	--
33	Mean	48	26	19	15	12	9	8	6	8	3	--
	Max	2,775	435	189	132	60	30	27	18	12	3	--
34	Mean	49	28	20	15	12	10	8	7	8	3	--
	Max	2,775	567	195	132	60	33	27	21	12	3	--
35	Mean	42	23	17	14	11	9	7	6	12	6	--
	Max	1,971	231	186	108	60	30	27	21	12	6	--
36	Mean	37	22	18	13	10	9	10	6	9	3	--
	Max	894	537	309	222	129	42	24	15	9	3	--
37	Mean	33	19	15	12	9	7	6	6	12	6	--
	Max	597	189	129	63	45	24	24	12	12	6	--
38	Mean	43	23	17	14	11	9	7	5	9	3	--
	Max	1,665	432	183	66	54	30	27	12	9	3	--

(Continued)

* Duration is shown in hours for H_s readings "greater than" 0.5, 1.0, etc.

Station No.	Duration	H_s, m 0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
39	Mean	33	21	16	12	9	7	7	5	6	3	--
	Max	990	372	186	66	42	27	21	9	6	3	--
40	Mean	25	17	14	10	7	7	5	5	--	--	--
	Max	897	348	126	54	27	21	15	6	--	--	--
41	Mean	22	15	13	10	7	7	4	6	--	--	--
	Max	543	180	111	54	24	18	9	6	--	--	--
42	Mean	42	23	19	12	9	6	5	3	--	--	--
	Max	1,287	258	147	57	39	27	15	3	--	--	--
43	Mean	41	23	19	12	9	6	5	3	--	--	--
	Max	1,287	258	147	54	30	24	15	3	--	--	--
44	Mean	41	23	19	12	9	6	5	3	--	--	--
	Max	1,287	258	147	57	30	24	15	3	--	--	--
45	Mean	41	23	18	12	9	6	5	3	--	--	--
	Max	1,287	258	144	54	30	24	15	3	--	--	--
46	Mean	42	23	19	12	9	6	5	3	--	--	--
	Max	1,287	258	147	57	30	24	15	3	--	--	--
47	Mean	34	19	16	12	9	8	6	5	--	--	--
	Max	1,029	237	126	66	36	27	12	6	--	--	--
48	Mean	34	19	16	12	9	8	6	5	--	--	--
	Max	1,035	291	129	66	36	27	12	6	--	--	--
49	Mean	35	19	16	11	9	6	5	6	--	--	--
	Max	2,466	339	285	66	27	21	12	6	--	--	--
50	Mean	35	20	16	11	8	6	6	6	--	--	--
	Max	2,481	339	285	63	33	21	12	6	--	--	--
51	Mean	31	19	15	10	8	6	6	6	--	--	--
	Max	1,569	303	279	63	24	18	12	6	--	--	--
52	Mean	27	17	14	10	7	6	3	3	--	--	--
	Max	942	306	75	51	24	15	3	3	--	--	--
53	Mean	27	18	13	9	7	6	3	--	--	--	--
	Max	948	210	111	75	30	15	3	--	--	--	--
54	Mean	26	18	15	11	7	6	5	--	--	--	--
	Max	678	210	117	81	33	18	9	--	--	--	--
55	Mean	27	19	15	11	7	7	5	--	--	--	--
	Max	1,353	213	120	81	30	18	9	--	--	--	--
56	Mean	27	19	17	12	9	8	5	--	--	--	--
	Max	735	231	174	87	42	21	9	--	--	--	--
57	Mean	27	19	16	12	10	8	5	--	--	--	--
	Max	783	261	171	90	45	21	9	--	--	--	--
58	Mean	28	20	17	13	10	9	6	3	--	--	--
	Max	786	297	171	114	66	24	12	3	--	--	--
59	Mean	32	20	16	11	9	7	6	--	--	--	--
	Max	1,578	411	174	84	36	18	9	--	--	--	--
60	Mean	35	23	19	13	9	8	7	12	--	--	--
	Max	3,117	1,869	387	126	51	27	27	12	--	--	--
61	Mean	35	22	16	10	8	7	5	3	--	--	--
	Max	2,952	1,572	168	54	30	24	9	3	--	--	--
62	Mean	34	23	19	13	9	9	8	7	3	--	--
	Max	3,162	1,869	387	144	57	30	27	12	3	--	--
63	Mean	35	24	19	13	9	8	8	12	--	--	--
	Max	3,117	1,869	387	126	51	27	21	12	--	--	--
64	Mean	32	22	15	10	8	8	5	3	--	--	--
	Max	2,955	1,572	204	72	42	24	9	3	--	--	--
65	Mean	28	25	24	16	11	10	9	10	8	--	--
	Max	1,782	1,773	597	192	66	42	27	21	9	--	--
66	Mean	28	18	17	15	11	11	9	11	12	6	--
	Max	1,323	342	336	180	81	69	54	21	21	6	--
67	Mean	30	18	16	14	10	10	10	13	12	6	--
	Max	1,806	342	336	195	81	69	54	21	21	6	--
68	Mean	33	19	15	12	10	15	8	9	--	--	--
	Max	2,841	342	186	75	60	51	21	9	--	--	--
69	Mean	34	19	15	12	10	10	14	10	15	--	--
	Max	2,841	342	333	189	75	60	51	21	15	--	--
70	Mean	35	18	14	11	9	9	10	12	6	--	--
	Max	2,292	513	324	177	66	54	21	21	6	--	--
71	Mean	31	17	13	9	8	8	6	3	--	--	--
	Max	2,208	324	285	114	39	21	18	3	--	--	--
72	Mean	30	17	14	12	10	9	11	7	12	--	--
	Max	2,211	342	324	186	69	54	42	21	12	--	--
73	Mean	31	18	15	13	10	9	10	13	8	--	--
	Max	2,292	347	327	186	69	60	48	21	12	--	--
74	Mean	36	21	16	13	11	11	13	7	8	6	--
	Max	1,347	459	339	318	183	99	42	15	12	6	--
75	Mean	31	20	17	14	11	12	13	7	8	3	--
	Max	1,347	429	339	315	183	102	39	15	12	3	--
76	Mean	31	20	18	15	12	11	15	7	8	6	--
	Max	1,347	429	339	318	183	99	42	15	12	6	--

(Continued)

Station No.	Duration	Hs, m 0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
77	Mean	33	22	20	17	14	13	9	13	6	3	--
	Max	1,347	426	345	294	108	87	48	39	12	3	--
78	Mean	34	23	22	17	14	12	9	12	6	3	--
	Max	1,851	429	345	231	114	93	48	39	12	3	--
79	Mean	30	23	21	17	15	12	11	13	6	3	--
	Max	873	510	348	222	159	93	48	42	12	3	--
80	Mean	32	24	21	17	15	11	12	14	6	3	--
	Max	1,473	750	390	222	159	93	48	42	12	3	--
81	Mean	33	25	22	17	15	12	11	15	6	3	--
	Max	1,473	753	477	222	159	93	48	42	12	3	--
82	Mean	42	28	24	19	16	12	11	12	5	6	3
	Max	2,121	1,056	375	312	165	102	72	42	9	9	3
83	Mean	42	27	23	18	16	12	11	13	5	5	3
	Max	2,127	1,056	375	309	165	102	72	42	9	6	3
84	Mean	42	26	23	18	15	13	11	13	6	5	3
	Max	2,127	1,059	375	309	165	102	72	42	9	6	3
85	Mean	33	23	20	15	14	14	12	14	5	3	--
	Max	846	405	372	267	168	102	90	39	9	3	--
86	Mean	32	22	18	15	12	12	15	14	6	--	--
	Max	846	387	366	264	168	96	78	39	9	--	--
87	Mean	36	25	22	18	14	13	15	12	8	3	--
	Max	831	789	570	300	207	159	87	39	15	3	--
88	Mean	41	23	17	12	9	7	6	--	--	--	--
	Max	1,365	285	183	63	39	27	12	--	--	--	--
89	Mean	37	21	15	11	9	8	5	--	--	--	--
	Max	1,314	282	186	69	36	21	9	--	--	--	--
90	Mean	40	22	16	12	11	8	6	--	--	--	--
	Max	1,311	1,005	186	69	48	21	9	--	--	--	--
91	Mean	38	21	16	11	11	8	6	--	--	--	--
	Max	1,308	429	183	69	36	18	9	--	--	--	--
92	Mean	38	20	15	12	10	8	5	--	--	--	--
	Max	1,308	429	183	69	48	18	9	--	--	--	--
93	Mean	37	20	16	12	9	8	5	--	--	--	--
	Max	1,305	579	180	69	54	21	9	--	--	--	--
94	Mean	33	20	16	12	10	8	11	--	--	--	--
	Max	1,209	522	180	171	51	27	21	--	--	--	--
95	Mean	36	21	16	11	9	8	6	3	--	--	--
	Max	951	189	93	57	36	27	9	3	--	--	--
96	Mean	38	22	18	12	10	9	5	--	--	--	--
	Max	948	384	246	90	39	27	12	--	--	--	--
97	Mean	32	19	14	11	10	7	5	--	--	--	--
	Max	942	336	246	90	36	27	6	--	--	--	--
98	Mean	31	19	14	11	10	7	6	--	--	--	--
	Max	942	336	264	87	36	18	9	--	--	--	--
99	Mean	30	19	15	11	10	7	6	--	--	--	--
	Max	819	336	258	87	33	27	15	--	--	--	--
100	Mean	29	18	15	11	10	7	6	--	--	--	--
	Max	819	336	258	84	36	27	18	--	--	--	--
101	Mean	34	18	14	10	9	8	8	--	--	--	--
	Max	885	411	156	57	48	24	12	--	--	--	--
102	Mean	30	18	13	10	9	10	8	--	--	--	--
	Max	825	411	129	54	48	24	12	--	--	--	--
103	Mean	32	19	16	11	9	11	8	--	--	--	--
	Max	825	429	141	72	51	36	12	--	--	--	--
104	Mean	31	19	16	11	9	11	8	--	--	--	--
	Max	825	429	141	72	51	36	12	--	--	--	--
105	Mean	25	16	14	10	8	6	6	--	--	--	--
	Max	558	174	84	42	30	18	9	--	--	--	--
106	Mean	27	17	15	12	9	7	5	--	--	--	--
	Max	567	255	96	48	30	18	9	--	--	--	--
107	Mean	26	18	15	11	9	7	4	--	--	--	--
	Max	621	330	114	42	27	18	6	--	--	--	--
108	Mean	26	18	15	11	10	8	4	--	--	--	--
	Max	591	333	117	42	27	21	6	--	--	--	--
109	Mean	30	18	17	11	8	7	3	--	--	--	--
	Max	1,425	216	99	45	33	21	3	--	--	--	--
110	Mean	32	19	15	10	8	6	6	--	--	--	--
	Max	2,154	216	105	60	39	21	6	--	--	--	--
111	Mean	35	21	16	11	9	8	5	--	--	--	--
	Max	2,322	234	108	60	39	24	6	--	--	--	--
112	Mean	35	21	17	12	8	8	3	--	--	--	--
	Max	2,619	225	123	66	42	27	3	--	--	--	--
113	Mean	36	22	19	13	11	7	9	--	--	--	--
	Max	1,113	432	204	93	57	36	15	--	--	--	--
114	Mean	45	27	21	15	12	9	11	6	3	--	--
	Max	2,706	525	447	180	78	48	30	15	3	--	--

(Continued)

Station No.	Duration	H_s, m 0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
115	Mean	39	21	18	12	11	7	5	18	9	--	--
	Max	2,679	399	336	135	90	21	9	45	9	--	--
116	Mean	42	24	19	14	12	8	8	6	--	--	--
	Max	2,694	456	396	174	78	36	18	6	--	--	--
117	Mean	42	23	18	13	11	9	8	18	--	--	--
	Max	2,694	456	393	156	78	36	18	18	--	--	--
118	Mean	38	23	20	13	10	7	5	3	3	3	--
	Max	2,694	531	231	126	48	21	12	3	3	3	--
119	Mean	29	19	16	11	10	8	3	3	3	9	--
	Max	2,391	507	177	108	33	21	3	3	3	9	--
120	Mean	36	22	19	12	8	5	6	3	3	27	--
	Max	1,635	309	114	102	30	9	6	3	3	27	--
121	Mean	35	23	18	11	8	4	6	3	3	--	--
	Max	1,632	306	114	102	24	9	6	3	3	--	--
122	Mean	36	22	19	11	8	5	6	3	3	--	--
	Max	1,635	309	114	102	30	9	6	3	3	--	--
123	Mean	42	25	19	13	11	7	9	3	9	--	--
	Max	3,018	486	288	96	51	30	12	3	9	--	--
124	Mean	42	25	19	13	10	7	6	3	27	--	--
	Max	3,018	489	285	99	51	30	12	3	27	--	--
125	Mean	41	24	19	12	11	7	6	3	81	--	--
	Max	3,018	486	288	99	51	27	12	3	81	--	--
126	Mean	42	26	20	14	12	8	8	3	--	--	--
	Max	2,904	912	252	99	60	30	15	3	--	--	--
127	Mean	41	27	23	15	12	7	4	3	--	--	--
	Max	2,469	1,593	441	99	60	21	6	3	--	--	--
128	Mean	42	28	24	17	12	6	4	3	3	--	--
	Max	2,421	1,593	441	99	60	21	6	3	3	--	--
129	Mean	42	27	23	16	12	7	4	3	9	--	--
	Max	2,124	1,593	441	99	60	21	6	3	9	--	--
130	Mean	42	29	24	17	12	7	4	3	3	--	--
	Max	2,124	1,593	447	93	63	24	6	3	3	--	--
131	Mean	34	23	22	16	7	8	3	--	--	--	--
	Max	2,256	303	150	102	39	15	3	--	--	--	--
132	Mean	34	24	22	17	8	9	3	--	--	--	--
	Max	2,259	303	150	102	45	18	3	--	--	--	--
133	Mean	34	23	22	18	8	9	3	--	--	--	--
	Max	2,193	303	153	123	45	18	3	--	--	--	--
134	Mean	34	24	23	18	8	10	3	--	--	--	--
	Max	2,193	300	153	126	45	21	3	--	--	--	--
135	Mean	44	28	27	20	12	8	5	4	3	--	--
	Max	1,755	723	324	186	75	33	9	6	3	--	--
136	Mean	44	28	27	20	12	8	5	4	3	--	--
	Max	1,755	723	324	186	75	33	9	6	3	--	--
137	Mean	43	29	27	20	13	8	5	4	3	--	--
	Max	1,755	723	300	186	75	33	9	6	3	--	--
138	Mean	48	35	32	22	16	13	8	5	3	3	--
	Max	1,902	1,221	567	237	111	51	27	9	3	3	--
139	Mean	49	35	31	23	16	14	8	5	3	3	--
	Max	1,902	1,221	567	237	111	57	27	9	3	3	--
140	Mean	49	35	32	24	16	14	8	5	3	3	--
	Max	1,902	1,221	567	237	111	57	27	9	3	3	--
141	Mean	55	39	32	25	18	16	12	7	6	3	--
	Max	1,797	1,197	1,035	303	114	81	60	18	9	3	--
142	Mean	56	39	33	25	17	17	12	7	6	3	--
	Max	1,797	1,197	1,035	303	114	81	60	21	9	3	--
143	Mean	55	40	33	25	17	17	12	8	8	3	--
	Max	1,797	1,197	1,035	303	114	81	60	21	12	3	--
144	Mean	53	38	33	23	15	10	5	3	23	9	--
	Max	1,803	1,791	711	240	114	60	9	3	36	9	--
145	Mean	54	38	33	23	15	10	5	3	68	27	--
	Max	1,803	1,791	750	237	129	60	9	3	108	27	--
146	Mean	52	37	32	22	15	10	5	--	--	--	--
	Max	1,803	1,791	708	240	111	60	9	--	--	--	--
147	Mean	48	30	26	17	12	7	15	--	--	--	--
	Max	2,175	1,668	738	186	51	24	27	--	--	--	--
148	Mean	55	34	31	21	15	11	6	--	--	--	--
	Max	2,439	1,704	1,083	330	114	57	9	--	--	--	--
149	Mean	56	33	28	19	16	12	9	8	--	--	--
	Max	4,587	1,416	279	144	105	45	18	9	--	--	--
150	Mean	57	35	29	20	15	12	10	8	--	--	--
	Max	4,587	1,431	279	147	105	45	18	9	--	--	--
151	Mean	59	35	29	20	15	12	10	8	--	--	--
	Max	4,587	1,416	279	144	105	45	18	9	--	--	--
152	Mean	58	32	24	17	13	8	3	23	--	--	--
	Max	4,503	1,497	216	147	72	18	3	27	--	--	--

(Continued)

Station No.	Duration	Hs, m 0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
153	Mean	58	31	24	17	13	8	3	68	--	--	--
	Max	4,503	1,485	213	147	72	18	3	81	--	--	--
154	Mean	58	32	24	17	13	8	3	203	--	--	--
	Max	4,503	1,485	213	147	72	18	3	243	--	--	--
155	Mean	58	41	32	20	14	11	6	6	--	--	--
	Max	2,259	1,560	816	252	78	39	9	6	--	--	--
156	Mean	57	38	31	20	14	10	5	3	--	--	--
	Max	2,259	1,560	798	252	78	39	9	3	--	--	--
157	Mean	57	37	30	19	14	9	5	3	--	--	--
	Max	2,259	1,551	798	252	78	21	9	3	--	--	--
158	Mean	44	29	27	18	13	8	6	9	--	--	--
	Max	3,600	1,026	585	225	84	33	9	9	--	--	--
159	Mean	42	26	23	12	12	12	3	27	--	--	--
	Max	3,450	999	537	156	57	33	3	27	--	--	--
160	Mean	42	26	23	14	11	11	3	81	--	--	--
	Max	3,450	816	576	156	60	33	3	81	--	--	--
161	Mean	26	17	13	8	5	--	--	--	--	--	--
	Max	348	147	90	39	18	--	--	--	--	--	--
162	Mean	26	17	13	9	5	--	--	--	--	--	--
	Max	348	204	90	42	18	--	--	--	--	--	--
163	Mean	26	17	13	9	6	--	--	--	--	--	--
	Max	348	204	90	42	21	--	--	--	--	--	--
164	Mean	25	16	12	6	6	--	--	--	--	--	--
	Max	366	162	87	42	9	--	--	--	--	--	--
165	Mean	24	15	10	5	3	--	--	--	--	--	--
	Max	366	201	87	27	3	--	--	--	--	--	--
166	Mean	23	14	7	5	9	--	--	--	--	--	--
	Max	363	201	45	15	9	--	--	--	--	--	--

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Bibliography: p. 19.

1. Atlantic Coast (United States). 2. Numerical analysis. 3. Ocean waves. I. United States. Army. Corps of Engineers. Office of the Chief of Engineers. II. Wave Information Studies of U.S. Coastlines.

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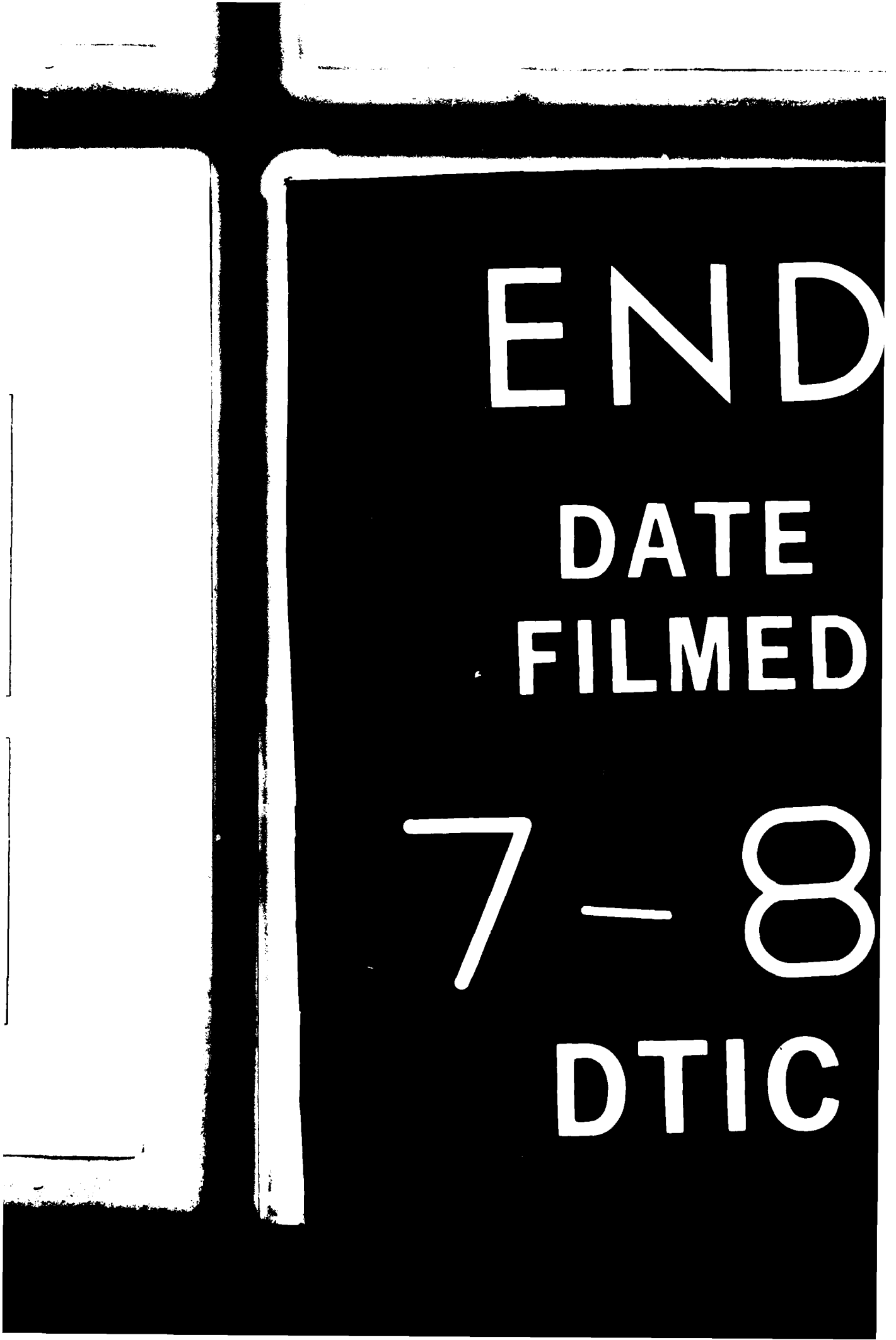
Atlantic coast hindcast, shallow-water, significant : ... 1983. (Card 2)

III. U.S. Army Engineer Waterways Experiment Station. Hydraulics Laboratory. IV. Title V. Series: WIS report (U.S. Army Engineer Waterways Experiment Station) ; 9.
TA7 W349 no.9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