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RELATIVE MOTION BETWEEN LCU AND MARINER MODELS IN A SEAWAY, (U)
OCT 76 M A ABKOWITZ

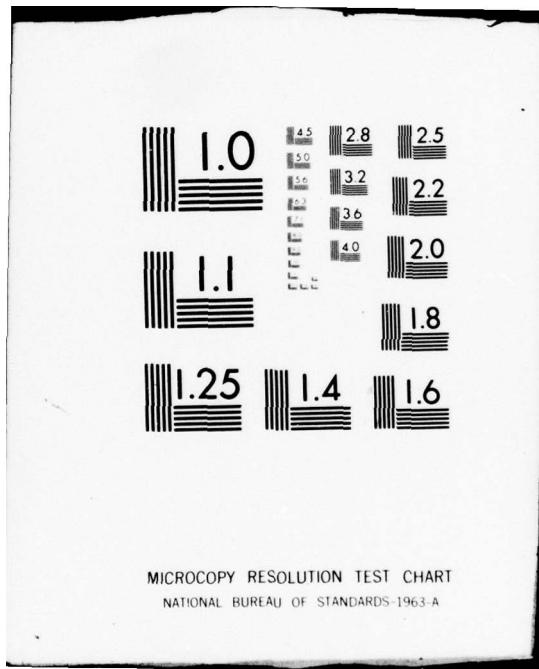
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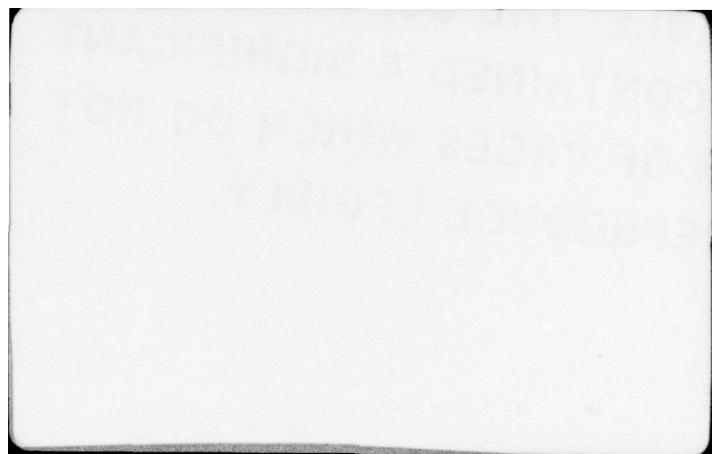
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MICROCOPY RESOLUTION TEST CHART
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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Ocean Engineering

SHIP MODEL TOWING TANK

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October 1976

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52 p.

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RELATIVE MOTION BETWEEN LCU AND MARINER MODELS
IN A SEAWAY

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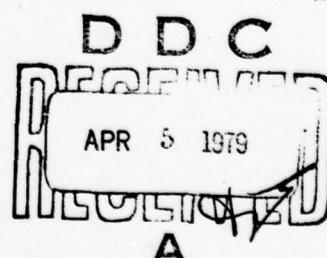
Martin A. Abkowitz

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Cambridge, Massachusetts 02139

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RELATIVE MOTION BETWEEN LCU AND MARINER MODELS
IN A SEAWAY

Martin A. Abkowitz

A program of model seakeeping tests was carried out in the MIT Ship Model Towing Tank for the purpose of estimating the relative motion between the deck of an LCU and the top end of a cargo boom on a Mariner ship during a typical offshore unloading situation. A five foot long Mariner model, scale 1 to 96 (1/8 inch = 1 foot), was available at the Tank and the LCU model was built to this scale. Tests were carried out in scaled sea states 3 and 4 which were simulated by irregular seas of the Pierson-Moskowitz spectra representing fully developed seas of wind speeds of 15 knots and 18 knots respectively.

In each of the two sea states, tests were carried out with the models at zero forward speed oriented as follows.

Beam Seas

Series 1 - LCU to leeward of Mariner

Series 2 - LCU to windward of Mariner

Quartering Seas (45° heading to waves)

Series 3 - LCU to leeward of Mariner

Series 4 - LCU to windward of Mariner

Head Seas

Series 5 - LCU to starboard of Mariner

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UNARMED/UNARMED	
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Instrumentation and Measurements

The key measurement to be made during the model tests was the relative motion between the deck of the LCU and the top of the boom, in unloading position, on the Mariner ship, while the models were free to heave, roll, and pitch but were constrained in sway, surge, and yaw. Originally, when the tests were proposed, we thought that some simple mechanical transducer could be devised to measure the relative motion. However, at the necessary scaling, the LCU model weight was limited to less than one pound, precluding the use of a mechanical transducer for relative motion measurement. It became necessary to devise, design, and construct an electronic transducer requiring an element of very small weight to be located on the LCU model. The instrument designed and built consisted of (1) an electrical spark generator located on the LCU model, with an electrical system off the model for generating a high voltage spark at the rate of about one hundred a second, (2) a miniature sensitive microphone located on the Mariner model at the scaled position of the top of the boom, (3) electronic equipment which measured the time elapsed for the spark sound to reach the microphone (measurement made 100 times per second) and converting this time in a relative distance between the two, and (4) electronic equipment for digitally displaying, graphically recording, and inputting on tape the relative motion. The instrument as developed after much effort worked very well.

Two wave measurement probes were used. One was located on the windward side of the models (between the wave generator and the models)

and one close by the models on the leeward side (between the models and the beach). The wave probe on the windward side can indicate the very complex wave system which excites the LCU (when on the windward side), made up of the combination of the oncoming wave, the reflected wave off of the Mariner, the radiating damping wave of the Mariner motion, and the reflected wave of the LCU damping off the Mariner. Measurement by the wave probe on the lee side is a good indicator of the breakwater effect of the Mariner hull (i.e. masking effect). The leeward probe was placed about 1 foot from the models in order to effectively measure the wave system transmitted through the Mariner. The probe on the windward side was placed 23.5 feet from the models (a good distance) in order to help indicate how long an irregular wave sample could be obtained without being contaminated by the waves which were reflected from and radiated from the models being rereflected by the wave generator reaching the model again. This procedure assures that the excitation on the models comes only from an oncoming far field wave system of a given spectrum.

Figures 1 and 2 show the relative position of the models in the test setup, the simulated full scale loading conditions, key dimensions, centers of gravity, metacentric height (GM), and radii of gyration (k_x refers to roll and y to pitch axes). The top of the boom is 85 feet above the LCU centerline.

Test Results

The data obtained during the test consisted of water surface elevation measurements at the locations of the windward and leeward wave probes and the measurement of the distance between the LCU center deck and the top of the Mariner cargo boom. These data were taken for each of the two sea states and each of the five relative orientations of the models. The waves were also measured when there were no models in the tank in order to establish the wave spectra being generated in the tank. With the models present, the generated spectra cannot be measured because of wave reflection effects.

The measured data was then spectral analyzed to give the wave and motion response spectra, and from the spectra the values of the root mean square and significant response (average of the 1/3 highest) were calculated. The spectra and the calculated R.M.S. and significant values are given in Tables 1 to 34.

Figures 3 through 7 give the wave relative motion spectra for the two sea states according to the following schedule which also indicates the test numbers used to identify the data tabulated in Tables 1 to 34.

Figure 3 - Beam Seas - LCU to leeward - Tests 115, 118

(15 and 18 refer to spectra of wind speeds, 15 and 18 knots respectively)

Figure 4 - Beam Seas - LCU to windward - Tests 215, 218

Figure 5 - Quartering Seas (45°) - LCU to leeward - Tests 315, 318

Figure 6 - Quartering Seas - LCU to windward - Tests 415, 418

Figure 7 - Head Seas - LCU to starboard - Tests 515, 518

Tests 015 and 018A refer to the case where there are no models in the tank.

From Figures 3-5, when one compares windward and leeward wave measurements, it is obvious that the Mariner has a very severe breakwater (masking) effect on the oncoming wave system. Also, comparing Figure 3 to Figure 4 and Figure 5 to Figure 6, the relative motion response is greatly reduced by this masking effect. It is interesting to note that Figure 3 shows a spike response at the Mariner's roll natural frequency (0.4 rad/sec.). Apparently this frequency is generated by the summation of the various oncoming and reflected waves as shown on the windward wave measurements and the LCU cannot act as a breakwater to the much larger Mariner. A similar, smaller spike is observed in Figure 4 at the Mariner's natural roll frequency. During the tests in beam seas, for demonstration purposes, a wave was generated with a frequency equal to the Mariner's natural roll frequency and with such a small wave height that it was barely visible. The Mariner rolled excessively, with little LCU motion, resulting in a very large relative motion between boom top and LCU deck.

Tables 31 and 32 give the significant wave height (double amplitude) in the tank (without models) for a wind speed of 15 knots as 5.06 feet at the windward probe and 3.52 feet at the leeward probe. This decrease is

expected since in a long narrow tank, especially at the higher frequencies of which the lower sea states are composed, the dissipation of wave energy by the tank walls cannot be neglected. One must remember that the distance between the two probes in the tank is approximately 25 feet with the leeward probe just one foot from the models. Hence, one estimates that at the model location a significant wave height of 4 feet was generated. From Figure 8, which shows the characteristics of fully developed sea spectra, it is seen that this value of significant wave height corresponds to a 15 knot wind speed sea state. Similarly, from Tables 33 and 34, a 6.0 foot significant wave height spectrum corresponding to an 18 knot wind speed sea state existed at the models during the tests of the higher sea state.

The following list summarizes the data and results given in Tables 1 to 34. Numbers refer to full scale values of double amplitude of the harmonic response.

Test No.	Significant Wave Height Generated in feet	Significant Relative Displacement in feet (double amplitude)
115	4	3.4
118	6	6.5
215	4	5.6
218	6	10.5
315	4	2.8
318	6	4.3
415	4	5.9
418	6	9.6
515	4	3.5
518	6	5.2

In reading the tables, the following abbreviations should be noted.

- last two digits of test number indicate wind speed
- B-D DISPL indicates distance between Boom top to LCU Deck
- WAVWIND - measurements on the windward wave probe
- WAVLEE - measurements on the leeward wave probe

The significant values multiplied by 1.28 will give the average of the 1/10th highest responses; by 1.67 will give the 1/100th highest; and by 2.64 will give the average of the one millionth highest response.

One can obtain the relative velocity spectra (for boom top-deck motion) by multiplying the displacement spectra by the frequency. From these new spectra, the statistics of the relative velocity can be readily computed.

Additional Remarks

In observing the model motions during a test, even those tests where the relative motion was small, there was actually large roll motion on the LCU model when it was on the windward side. Since both the roll axis and the LCU reference point are on the centerline plane, the LCU roll motion contributes little to the relative motion being measured. In direct contrast, since the boom top (reference point) is located a large distance from the Mariner roll axis, roll motions of the Mariner contribute greatly to the relative motion.

The breakwater effect of the Mariner on the LCU is tremendous. As can be seen from the figures, reflected waves play a significant role in the excitation of the LCU when on the windward side and the masking effect kills most of the excitation when the LCU is on the leeward side. It is doubted whether valid estimates of the motion responses could be predicted by a theory (computer program) which does not take these effects into account. Also, extreme difficulty can be expected to properly account for these masking effects in a simulation mathematical model. The towing tank tests appear to be the only practical approach. Full scale trials suffer from the forcible acceptance of whatever seaway happens to exist at the time and are relatively extremely expensive.

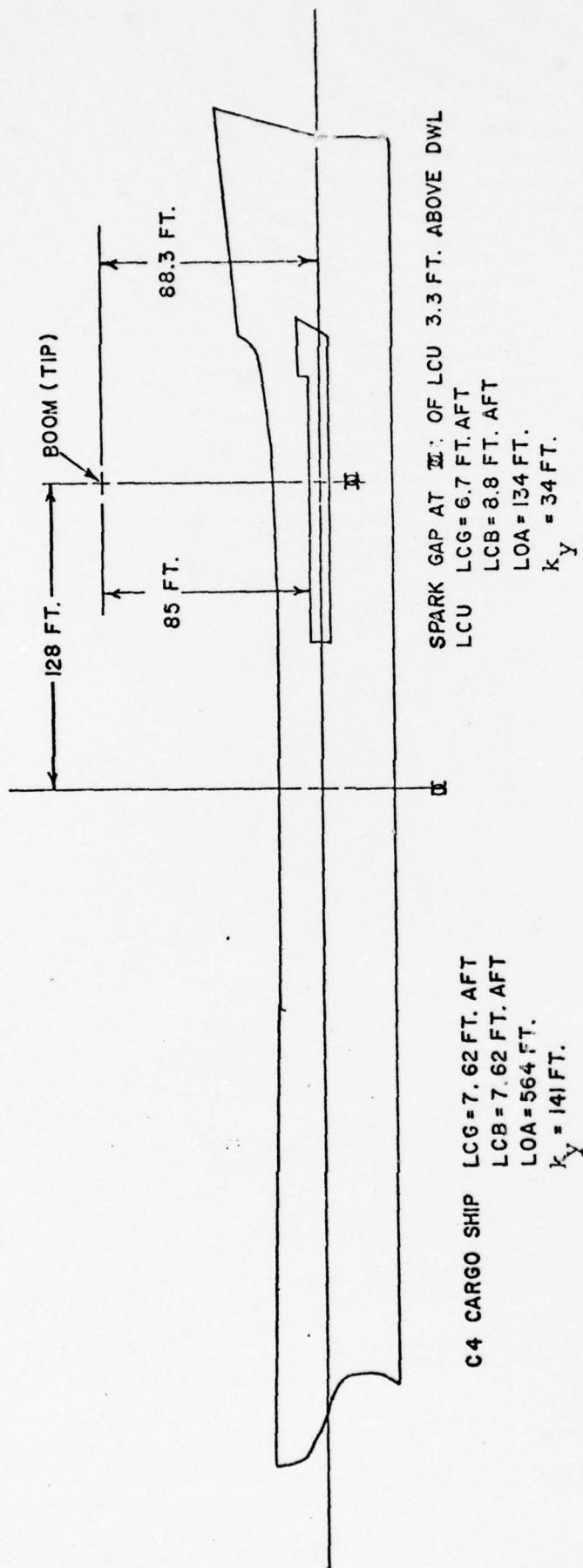
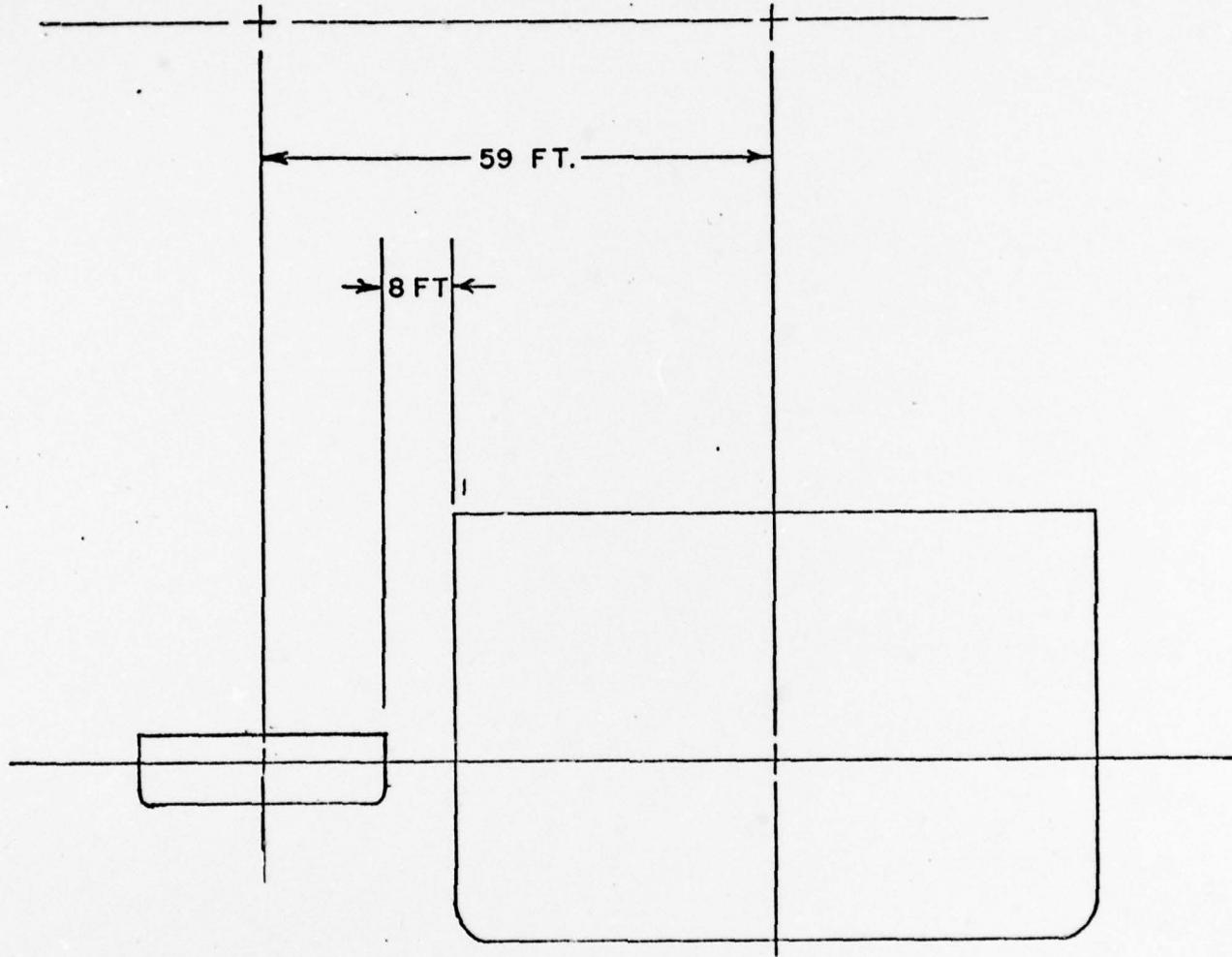


FIGURE 1



LCU

Δ = 352 TONS
K_G = 8.8 FT.
G_M = 8.8 FT.
B = 29 FT.
k_x = 11.6 FT.

C4 CARGO SHIP

Δ = 18,670 TONS
K_G = 25.9 FT.
G_M = 5 FT.
B = 76 FT.
k_x = 30.4 FT.

FIGURE 2

BEAM SEAS - LCU TO LEEWARD

-11-

SEA STATE 3 15kts

SEA STATE 4 18kts

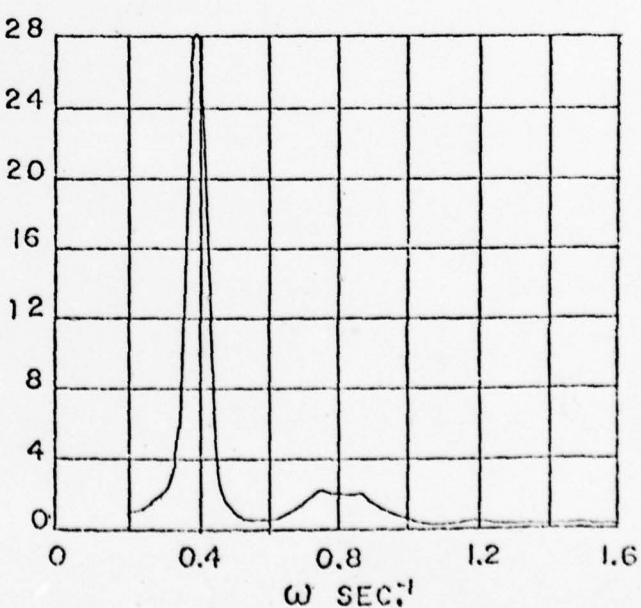
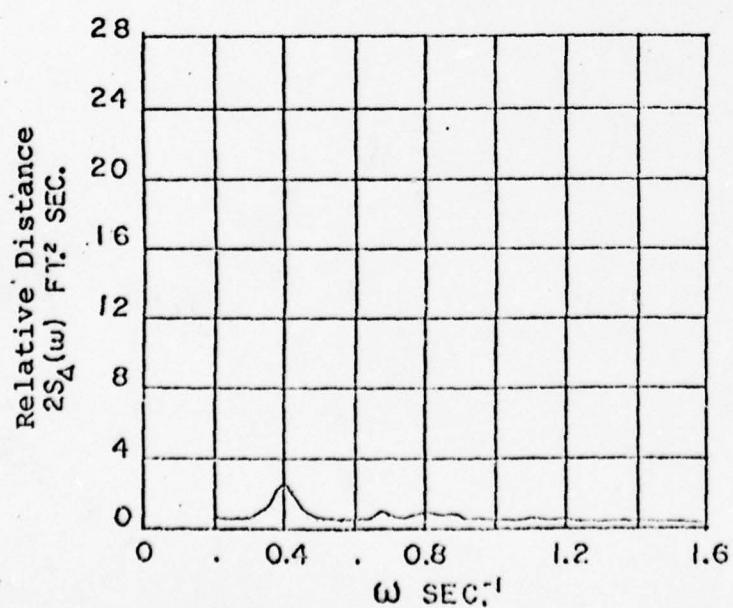
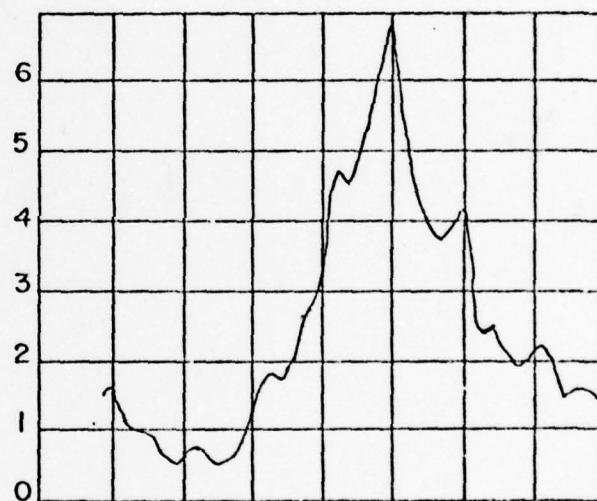
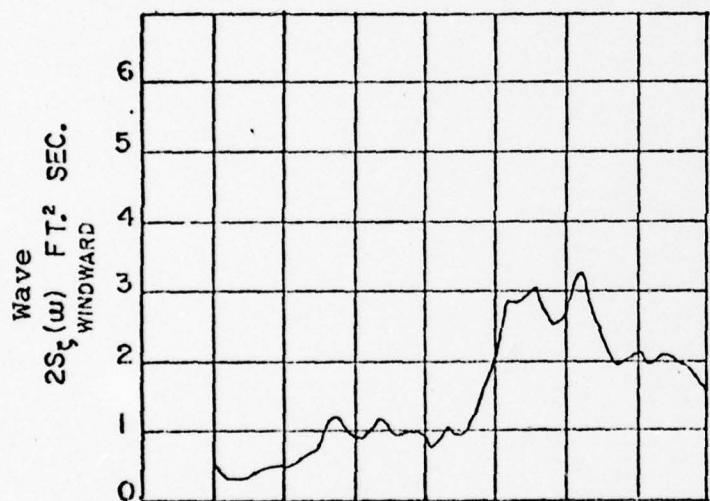
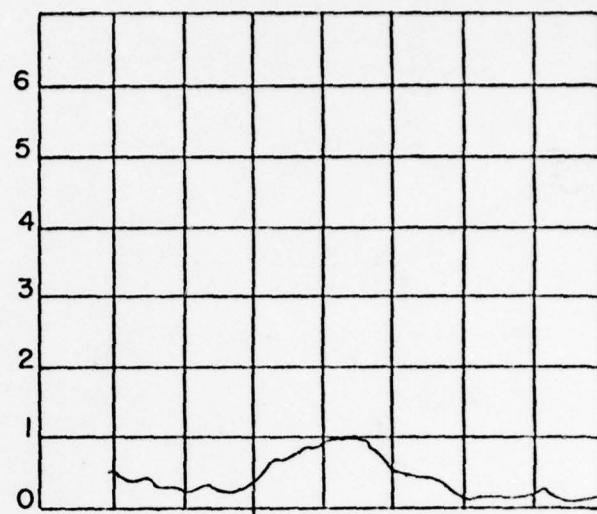
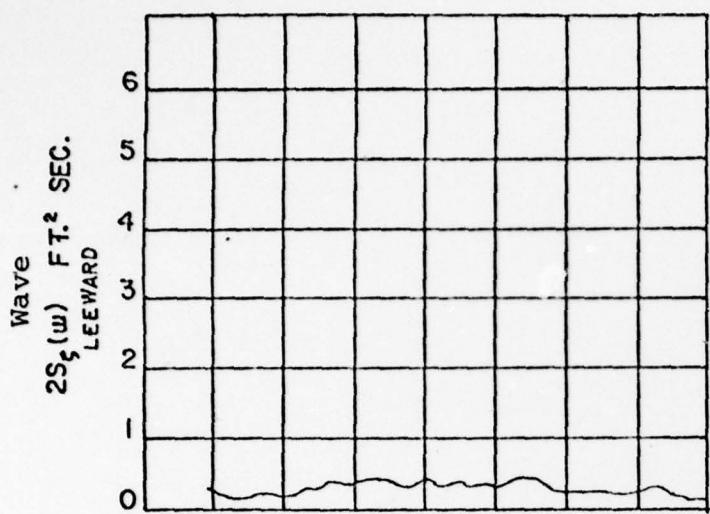


FIGURE 3

BEAM SEAS - LCU TO WINDWARD

-12-

SEA STATE 3 15kts

SEA STATE 4 18kts

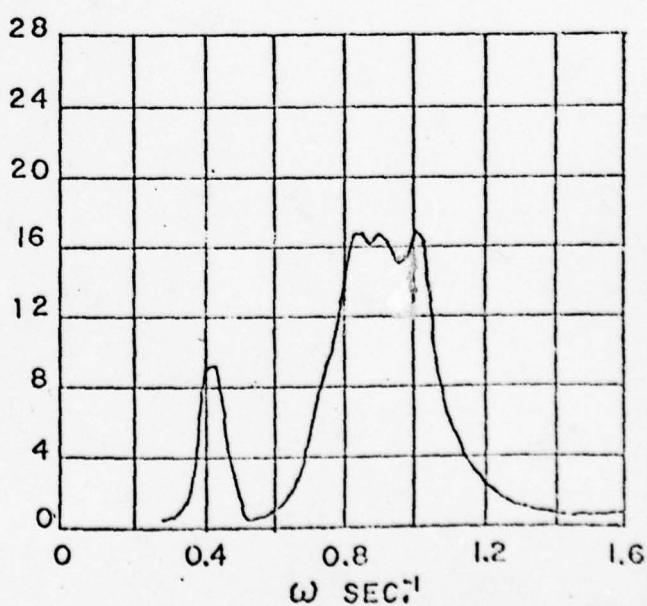
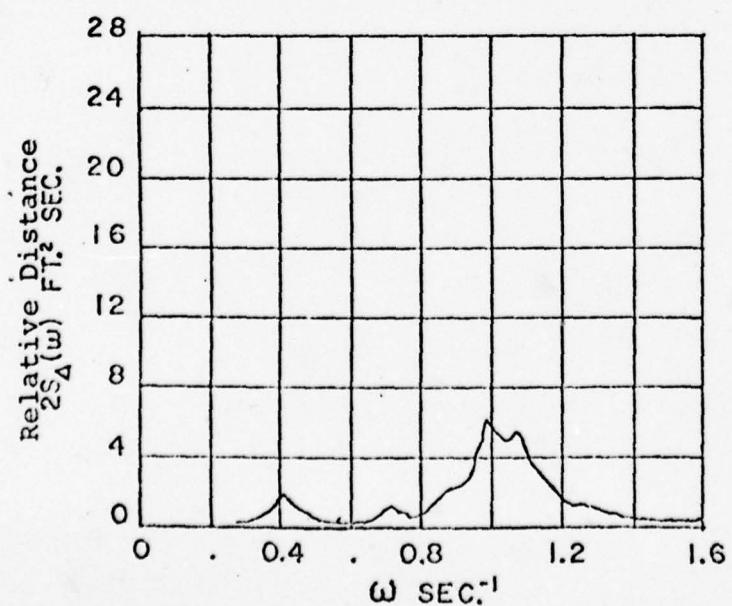
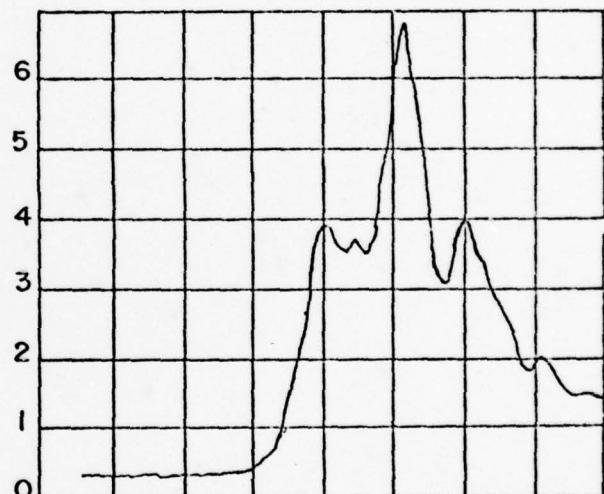
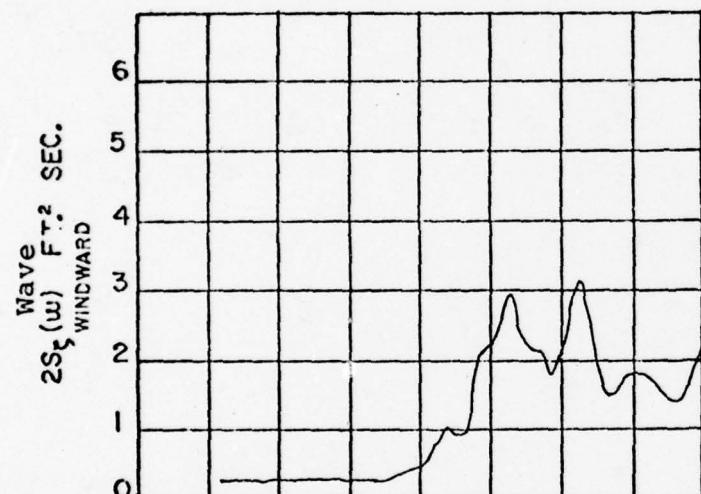
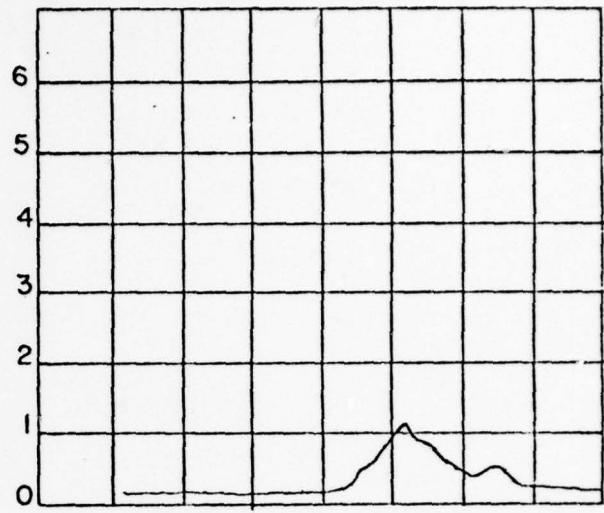
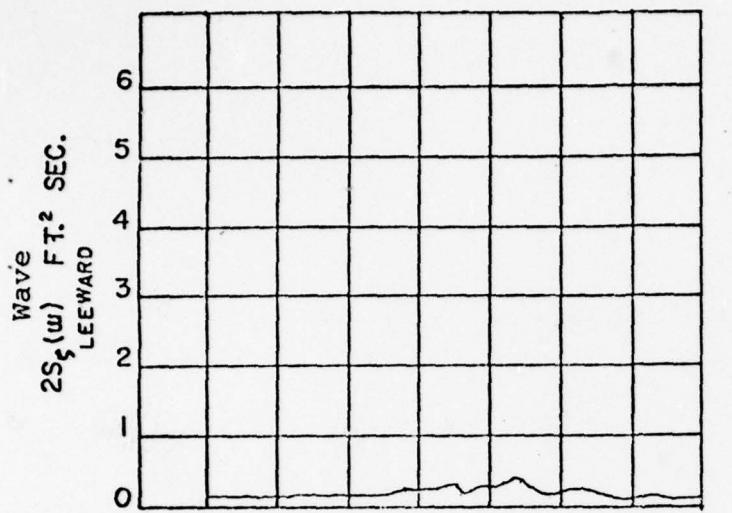


FIGURE 4.

SKEWED SEAS - LCU TO LEEWARD

-13-

SEA STATE 3 15kts

SEA STATE 4 18kts

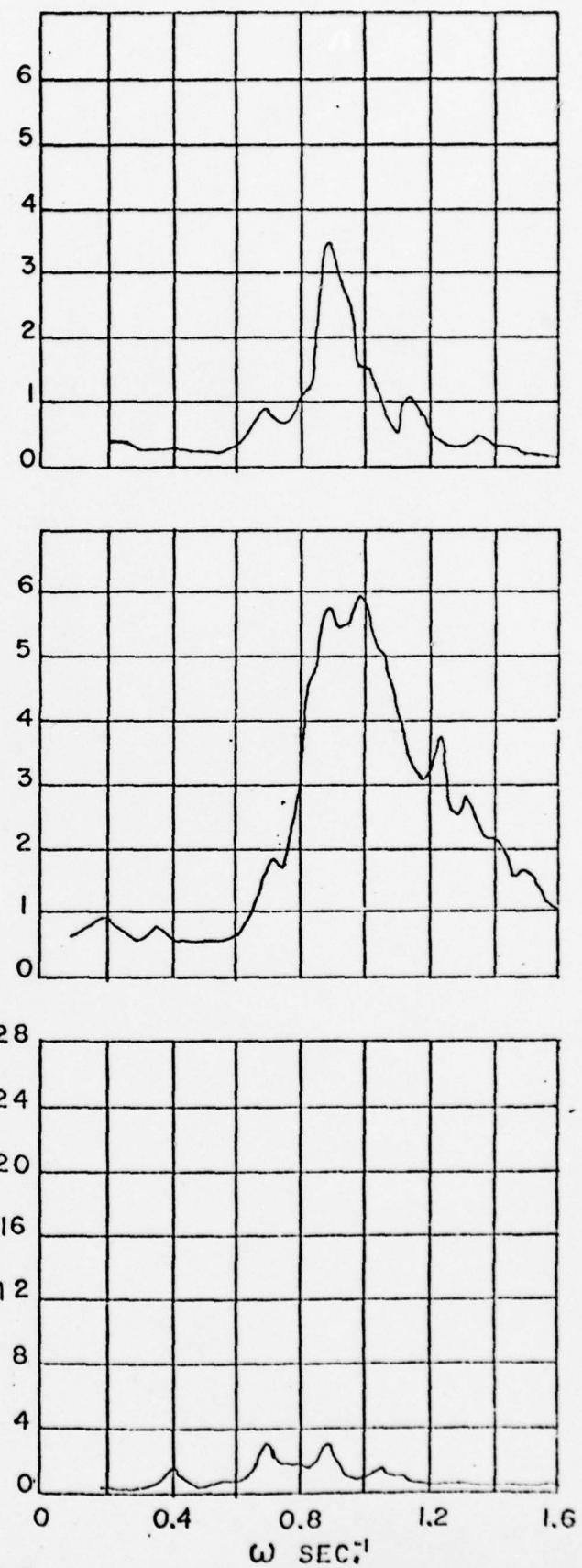
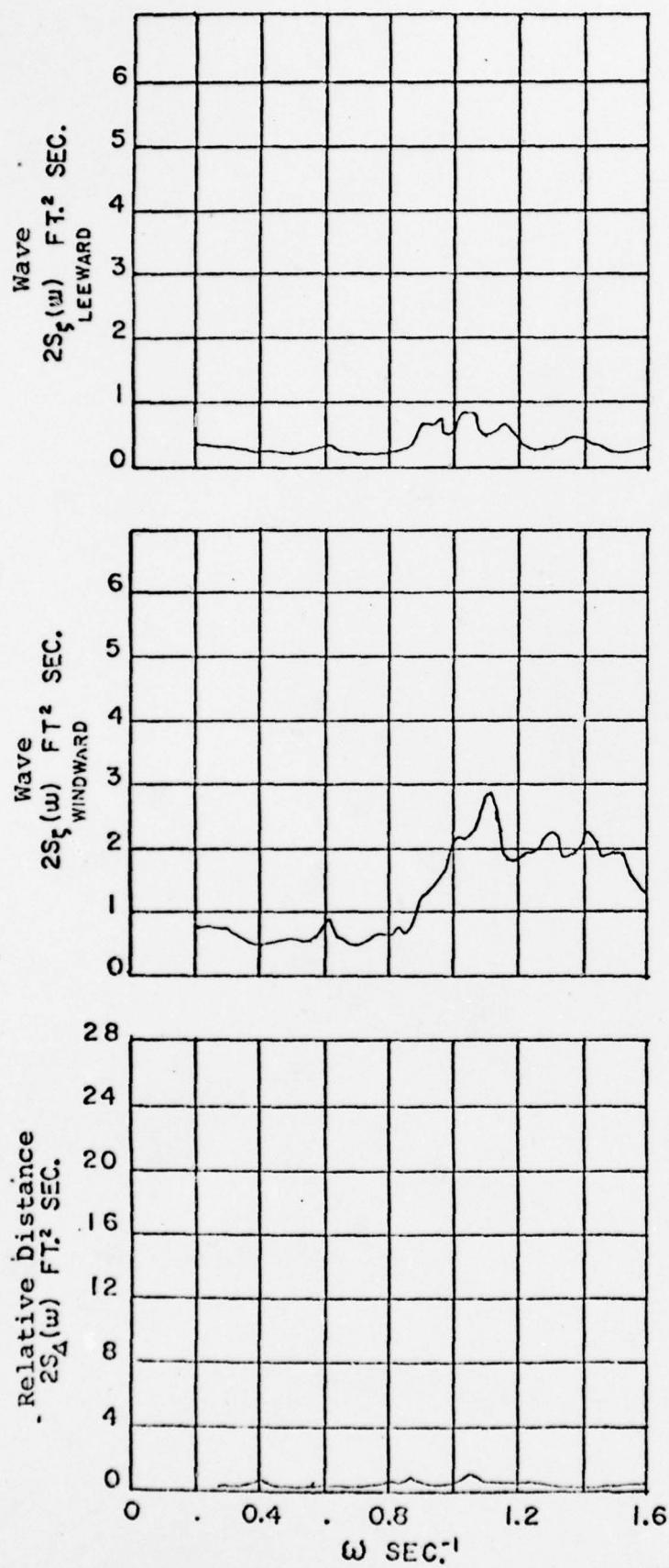


FIGURE 5

SKEWED SEAS - LCU TO WINDWARD

-14-

SEA STATE 3 15kts

SEA STATE 4 18kts

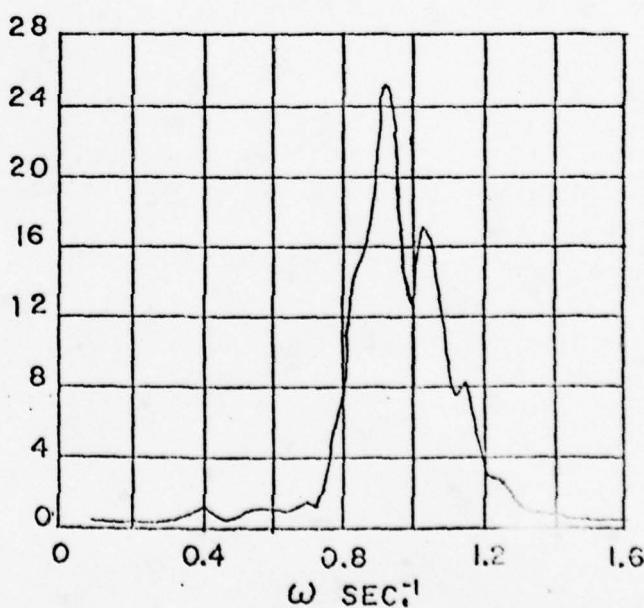
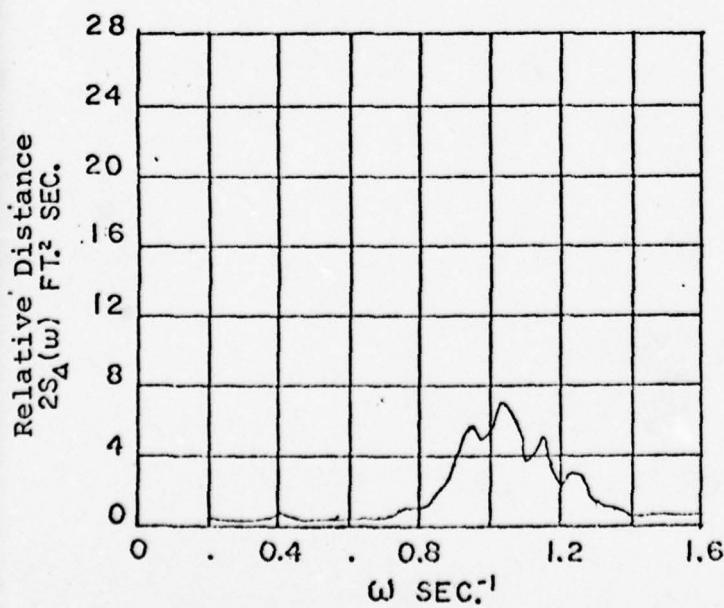
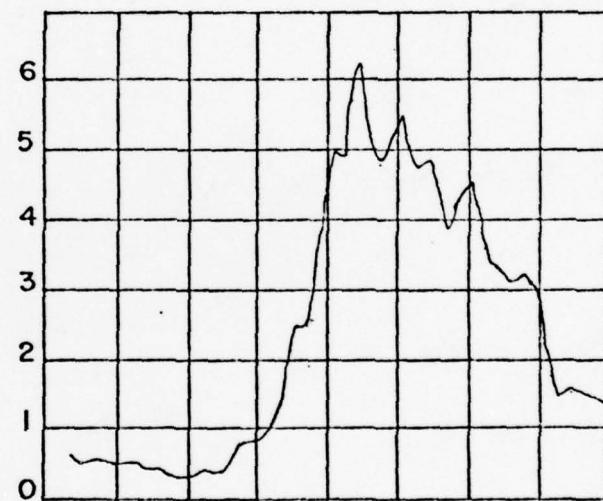
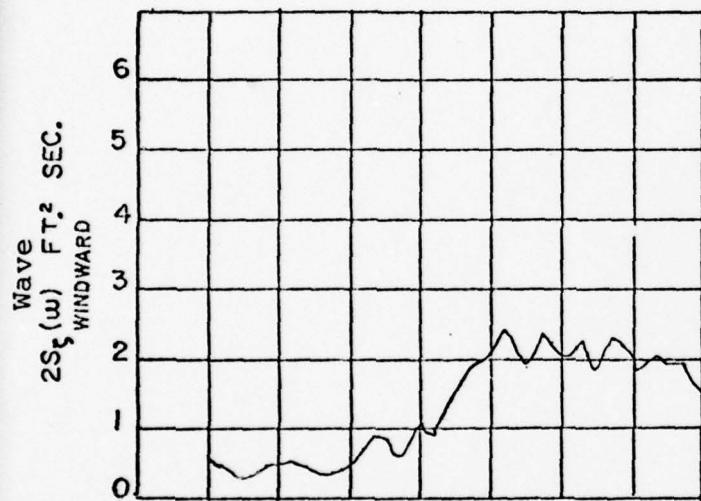
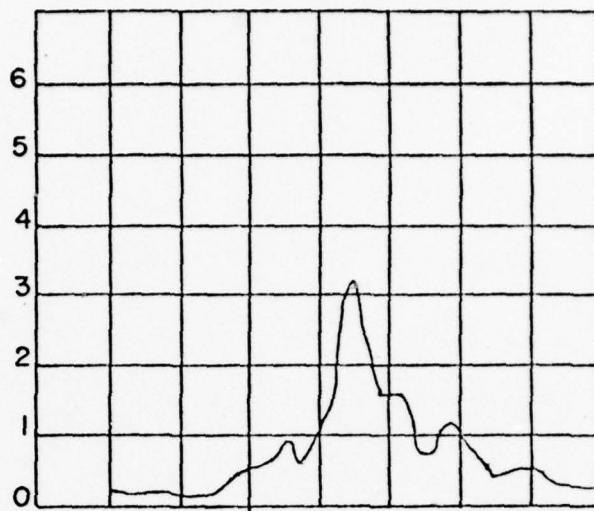
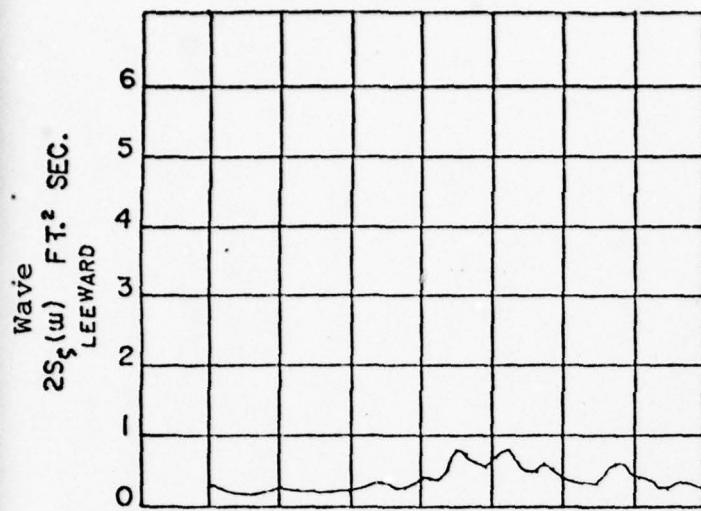


FIGURE 6

HEAD SEAS - LCU TO STARBOARD

SEA STATE 3 15kts

SEA STATE 4 18kts

-15-

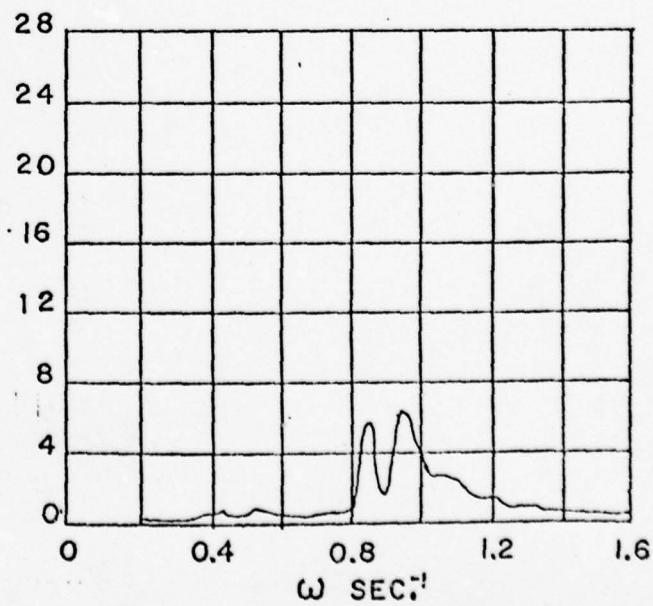
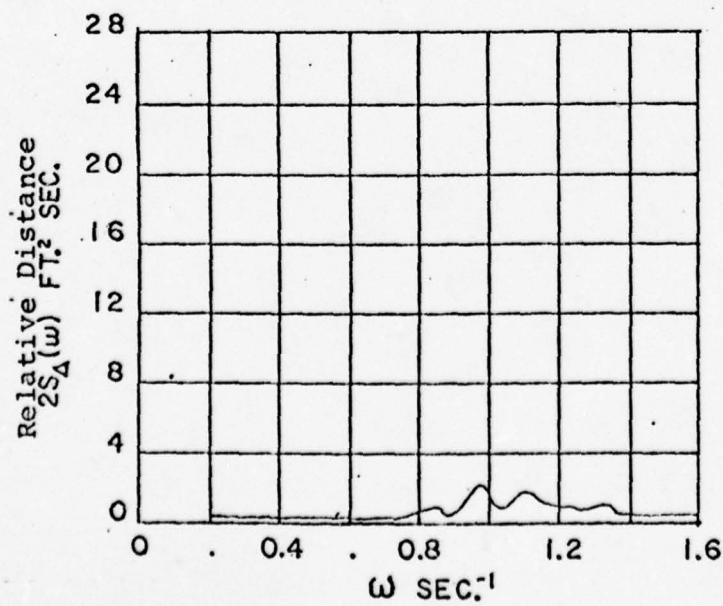
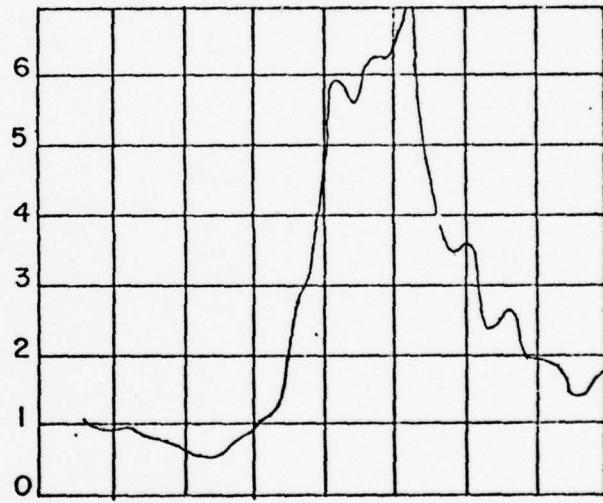
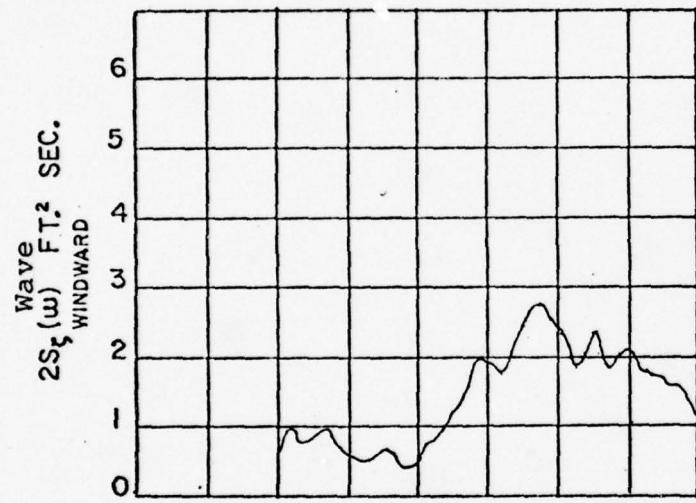
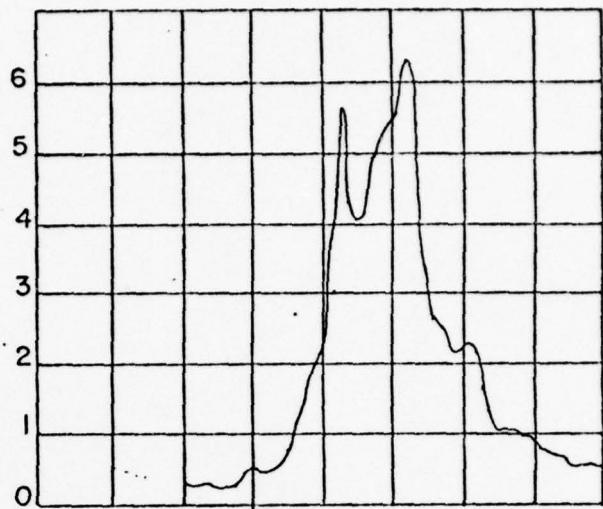
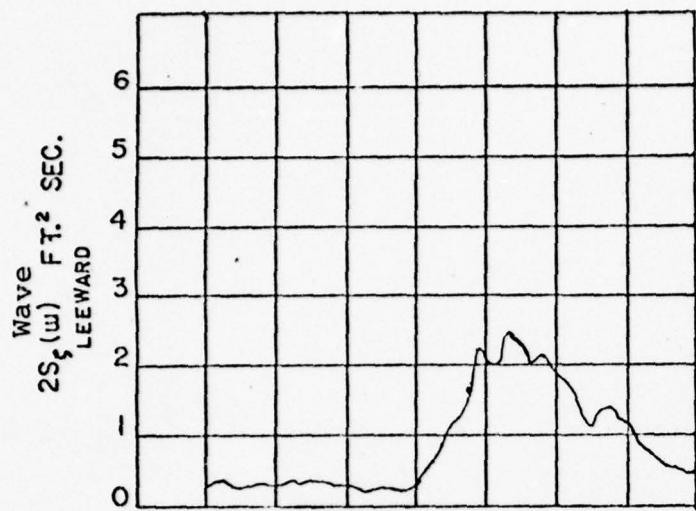


FIGURE 7

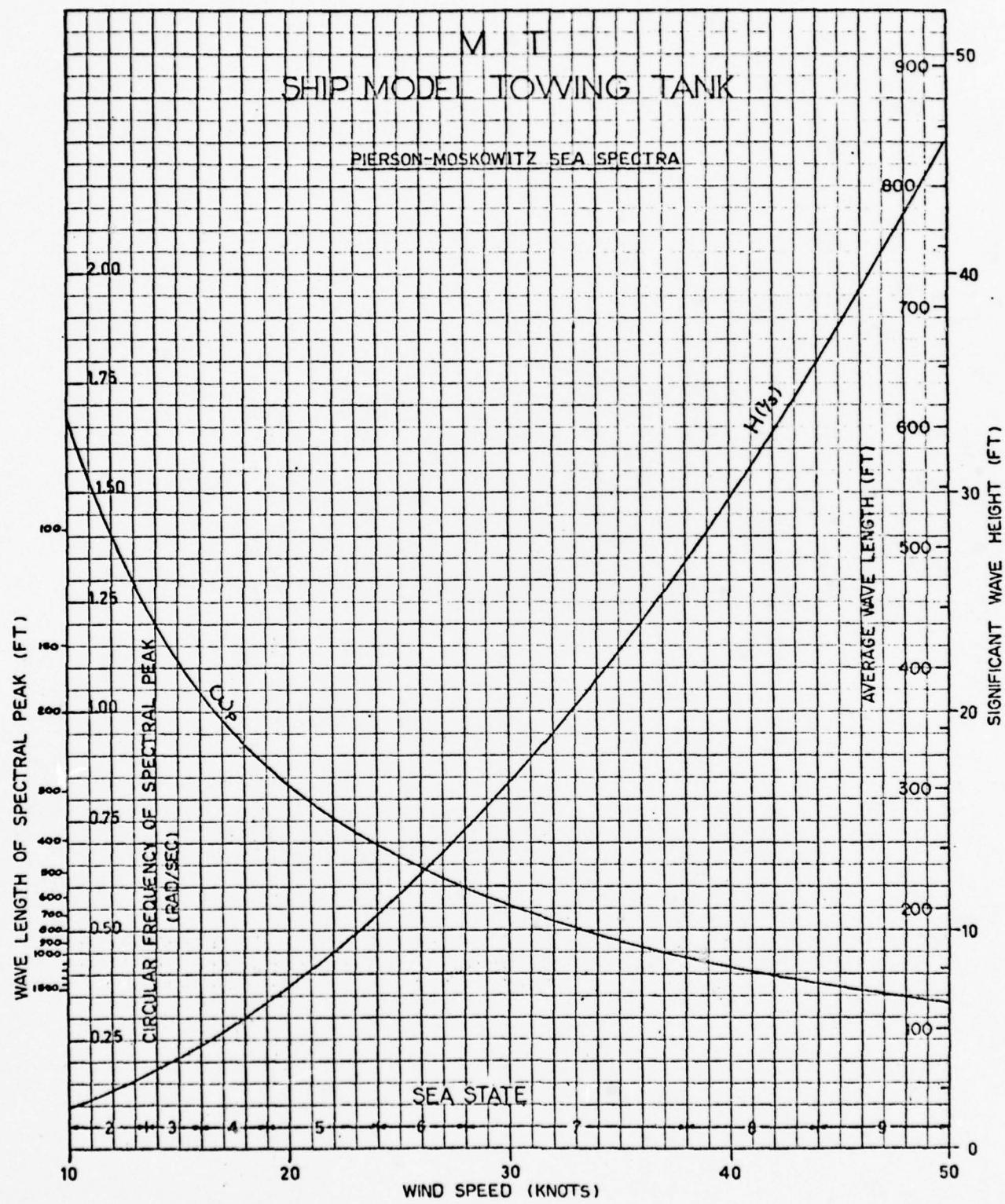


Figure 8

TEST 11E B+C DISPL

REAL PEAK = 352.92621CTS
 INTEGER PEAK = 252 CTS
 RMS VALUE = 1.13435 PHYSICAL UNITS

-17-

START SUBROUTINE SPECTR FCR

TEST 11E B+C DISPL

VELOCITY = 2.22222 FPS
 LAGS = 49
 SPECTRAL UNITS = (PHYSICAL UNITS)*2.0SEC
 SAMPLING RATE = 1.56555

CPEGA	E(CPEGA)	FREQUENCY	S(FREQ)	AUTOCOR
8.0000000	0.3522234	0.0000000	27.055563	1.286848
8.0226722	0.2224238	0.004253	26.412534	0.582849
8.0453440	3.058721	0.0055515	23.255746	0.275101
8.0680159	2.56452	0.012751	18.376755	0.228254
8.0906879	2.0161181	0.017210	16.631342	0.192975
8.1133559	1.347222	0.021223	8.427853	2.169131
8.1360215	0.566686	0.0255716	5.861255	0.209362
8.1587215	0.559552	0.0255728	3.327526	0.399190
8.1813758	2.0515881	0.0342821	2.258856	0.365546
8.2040776	0.423145	0.038273	2.668722	0.259733
8.2267158	0.476431	0.042526	2.555803	0.175837
8.2493518	2.057281	0.046778	3.665956	0.060238
8.2720638	2.0625513	0.051821	5.214457	0.053396
8.2947387	1.0121391	0.055284	6.520242	0.044837
8.3174777	1.725428	0.055536	16.841133	0.098027
8.3402757	2.566268	0.063285	16.136922	0.094349
8.3629517	0.236424	0.068241	19.811868	0.050231
8.3856237	1.120022	0.072254	6.511518	0.044550
8.4083056	0.624207	0.076547	3.655878	0.055956
8.4310766	2.524814	0.080755	3.360333	0.037664
8.4538456	0.453924	0.085828	3.102417	0.05384
8.4765116	0.476705	0.085364	3.007758	0.057142
8.4992736	0.377578	0.095257	2.374885	0.019826
8.5214555	0.349388	0.097895	2.163854	0.069676
8.5441275	0.624445	0.102862	3.757564	0.099162
8.5667555	0.686675	0.106315	5.679539	0.023078
8.5894715	0.7102553	0.112567	4.561217	0.051038
8.6121454	0.673227	0.114880	3.663453	0.182243
8.6348154	0.532166	0.115872	3.345951	0.054346
8.6574724	2.651886	0.123325	3.275863	0.012754
8.6801554	0.456225	0.127578	3.130237	0.002880
8.7028314	0.562578	0.131630	3.6537255	0.044654
8.7255524	0.712443	0.136283	4.476414	0.012287
8.7482173	0.817707	0.140635	5.137800	0.034652

8.0000000	0.8821308	0.144588	5.034769	-0.014180
8.0320153	0.711644	0.148841	4.408557	-0.085715
8.0641513	0.584715	0.153653	3.673858	-0.052699
8.0960632	0.465246	0.157344	2.548361	0.05877
8.1281532	0.410841	0.161558	2.581388	0.064768
8.1602872	0.355583	0.166851	2.188531	0.094193
8.1828751	0.216445	0.170103	1.359505	0.03099
8.2155511	0.182235	0.174324	1.143724	0.013237
8.2422231	0.238517	0.178825	1.581158	0.037250
8.2749512	0.316953	0.182861	1.591477	0.224365
8.3076671	0.331786	0.187114	2.116051	0.17843
8.3302351	0.382565	0.151366	2.486267	0.04611
8.3625111	0.435645	0.155615	2.761768	0.28428
8.3855832	0.555776	0.155872	2.255280	0.047970
8.4182590	0.652664	0.164124	1.822236	0.012353
8.4502727	0.464441	0.202377	2.541176	0.030976
8.4835552	0.534684	0.218625	3.655520	0.039108
8.5162273	0.474845	0.218882	2.983562	0.071069
8.5485425	0.385636	0.221125	2.256115	0.021556
8.5816145	0.325464	0.225587	2.044550	0.030854
8.6144285	0.266178	0.225846	1.663714	0.024395
8.6465588	0.211555	0.233852	1.325517	0.09221
8.6786378	0.162718	0.238145	1.660050	0.030221
8.71023028	0.155953	0.242857	1.842712	0.021169
8.74255747	0.1226447	0.246680	1.422206	0.012456
8.7747648	0.1642266	0.250593	1.655525	0.000284
8.80603382	0.1827775	0.255155	1.035982	0.014441

THE SPECTRAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 81 E.P.I.S.T.E.

ZEROTH ELEMENT = 1.28688
 SECOND ELEMENT = 0.005347
 THIRD ELEMENT = 0.20007
 ENVELOPE FACTOR (IGHT(1.0+P2*P3)/(P1*P4)) = 0.92675

SIGNIFICANT WAVE HEIGHTS: H1/31
 0.8496 = 4.13787
 0.00P6 = 0.00000
 0.00P6*HEIGHT(1.0+P2*P3)/(P1*P4) = 3.42749

TABLE 1

TEST115 WAVING

REAL MEAN = 11452.000000E0
 INTEGER MEAN = 11454 CTE
 RMS VALUE = 1.05134 PHYSICAL UNITS

START SPECTRUM SPECTRA FOR

TEST115 WAVING

-18-

VELOCITY = 0.00000 FPS
 LAGS = 60
 SPECTRAL UNITS = (PHYSICAL UNITS) * 2.000E0
 SAMPLING RATE = 1.00000

CMEGA	E(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.0222222	3.0000452	0.0000000	23.162518	2.0426643
0.0226722	2.0002741	0.0000000	16.667664	-0.0672123
0.0234444	1.0000000	0.0000000	0.106224	0.0183237
0.0269155	1.0000000	0.0000000	6.551651	0.0442744
0.036875	1.0000000	0.0000000	8.054674	-0.134478
0.0325555	1.0000000	0.0000000	7.848588	0.316290
0.0163115	0.0000000	0.0000000	5.151233	0.302888
0.0187035	0.0000000	0.0000000	3.776684	-0.026239
0.0213758	0.0000000	0.0000000	3.144664	0.065186
0.0246474	0.0000000	0.0000000	2.045627	0.116620
0.0267198	0.0000000	0.0000000	2.005728	0.044182
0.0253918	0.0000000	0.0000000	0.076527	0.0215640
0.0320632	0.0000000	0.0000000	2.0445463	0.088656
0.0343557	0.0000000	0.0000000	2.0002287	0.084375
0.0374077	0.0000000	0.0000000	3.021126	-0.0271298
0.0426757	0.0000000	0.0000000	2.0523852	0.116160
0.0427517	0.0000000	0.0000000	3.0160281	0.024523
0.0454237	0.0000000	0.0000000	3.046373	0.027651
0.0488556	0.0000000	0.0000000	4.0115233	0.144473
0.0527676	0.0000000	0.0000000	4.0875217	0.033900
0.0534356	0.0000000	0.0000000	6.055675	0.072604
0.0561116	0.0000000	0.0000000	7.0354784	0.057518
0.0567836	0.0000000	0.0000000	6.0265531	0.046554
0.0614555	0.0000000	0.0000000	5.0562781	0.139287
0.0641275	0.0000000	0.0000000	6.0533355	0.052543
0.0667555	0.0000000	0.0000000	6.0574776	0.114702
0.0684715	0.0000000	0.0000000	6.0652255	0.078413
0.0721434	0.0000000	0.0000000	5.0615675	0.019153
0.0746154	0.0000000	0.0000000	6.0751331	0.133117
0.0772854	0.0000000	0.0000000	6.0264788	0.131810
0.0801554	0.0000000	0.0000000	5.0566427	0.052558
0.0822314	0.0000000	0.0000000	4.0562665	0.0265636
0.0855234	0.0000000	0.0000000	5.0484462	0.024422
0.0881753	0.0000000	0.0000000	6.0225627	0.0864900

0.522493	0.5459571	0.144588	5.568846	0.084241
0.535153	1.026347	0.148841	6.0484730	0.024403
0.561913	1.0442190	0.152053	5.067227	0.036953
0.588632	1.0226745	0.157346	11.450342	0.0285377
1.015352	2.071853	0.161598	14.922750	-0.044881
1.042072	2.012054	0.165851	17.656342	0.019850
1.0682751	2.001657	0.170123	17.623577	-0.004858
1.0685511	2.0568541	0.174356	18.051563	0.100545
1.0722231	3.0001784	0.176625	15.174527	-0.064459
1.0746552	2.7356664	0.182261	17.108450	0.118298
1.075671	2.0531884	0.187114	15.002827	-0.043378
1.0823551	2.0663236	0.151366	16.672776	0.0235689
1.0225111	3.0070864	0.1956615	15.0254800	0.262627
1.0255838	3.0027326	0.195872	20.277847	0.057875
1.0282550	2.0740426	0.200124	17.046524	0.020082
1.0329270	2.0426212	0.208377	15.255648	0.240017
1.0335552	2.0162203	0.212625	13.572955	0.251040
1.0366705	1.0564128	0.2161882	12.340577	-0.0248580
1.0325425	2.0484445	0.221135	12.870781	0.112727
1.0416145	2.0440116	0.225387	13.046132	-0.022016
1.0442665	1.0571212	0.225640	12.386127	0.065522
1.0465588	2.0729551	0.232852	13.043834	0.047218
1.0456328	1.0481656	0.233145	12.850544	0.052110
1.0222628	1.0445856	0.242357	11.622282	0.100112
1.0545747	1.0512254	0.244650	12.054055	-0.027534
1.0570468	1.0122833	0.245850	11.385537	-0.014721
1.0623128	1.0588875	0.250155	9.983154	0.125717

ERKNESS 5556 (286AER) 3312 (17FRR)
 SRU AT 62CC

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT SI 1.022351

ZERFC POFIT = 2.042664
 ELCFC POFIT = 2.079530
 FLCFC POFIT = 4.048566
 ERKNESS FACTOR LENGTH(1.0+T2**2/(M0*T1)) = 2.04996

SIGNIFICANT WAVE HEIGHTS H(1/3)
 APPROX = 0.000000

TABLE 2

REAL MEAN = 6.66376583C18
 IMAG MEAN = 6.664 CTE
 RMS VALUE = 8.72281 PHYSICAL UNITS

STANT SPECTRUM SPECTR FOR

TEST 115 NAVFLE

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VELOCITY = 8.88888 FFS
 LAES = 60
 SPECTRAL UNITS = (PHYSICAL UNITS) $^{1/2}$ *REC
 SAMPLING RATE = 1.55559

CMEGA	E(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
8.622822	1.526859	8.888888	12.117717	0.529993
8.626722	1.556238	8.224253	7.525741	0.078574
8.653442	8.654367	8.225255	3.186199	0.005739
8.682155	8.653725	8.212758	3.102166	0.091505
8.186875	8.584957	8.217410	3.675642	0.086449
8.133555	8.473228	8.221263	2.973279	0.286273
8.162315	8.355286	8.225116	2.131759	0.084118
8.187435	8.265538	8.225768	1.819219	0.054507
8.213758	8.225559	8.234621	1.444673	0.016370
8.244976	8.174205	8.233273	1.654562	0.060036
8.267158	8.146158	8.242526	0.518339	0.021744
8.253518	8.153956	8.244778	0.676785	0.041487
8.321638	8.158688	8.251031	1.158131	0.033535
8.347357	8.224512	8.255284	1.410653	0.024270
8.374677	8.212427	8.255536	1.322151	0.012818
8.408757	8.172361	8.263785	1.082578	0.039631
8.427517	8.157786	8.268641	1.262725	0.023100
8.454627	8.224482	8.272254	1.558557	0.038316
8.488566	8.265165	8.275457	1.666125	0.044255
8.527676	8.257595	8.282759	1.672382	0.027506
8.534356	8.282628	8.285252	2.351557	0.056293
8.561116	8.351768	8.285324	2.461583	0.031772
8.587836	8.382183	8.293557	2.582759	0.031597
8.614555	8.423538	8.257829	2.555525	0.037220
8.641275	8.355658	8.182462	2.485554	0.050293
8.667555	8.445637	8.182315	2.546656	0.034763
8.657151	8.382283	2.110567	2.02721	0.043184
8.721834	8.325151	8.114222	2.266611	0.242220
8.745154	8.325754	8.115672	2.271926	0.256881
8.774874	8.367651	8.123225	2.312272	0.255381
8.801551	8.387616	8.127578	2.35465	0.041297
8.828214	8.353591	8.131832	2.221111	0.043097
8.855234	8.315728	8.136083	1.583622	0.237168
8.881762	8.317737	8.140335	1.956488	0.044582

8.562473	8.346445	8.144588	2.176776	0.031733
8.525153	8.352815	8.142841	2.216825	0.247946
8.561513	8.353256	8.153953	2.223340	0.042654
8.588632	8.366251	8.157346	2.301226	0.035784
8.615352	8.267350	8.161592	2.328125	0.025817
8.642272	8.588882	8.175551	2.443426	0.019944
8.668751	8.425883	8.172123	2.738734	0.018448
8.655511	8.432220	8.174356	2.752159	0.025497
8.122231	8.264158	8.176695	2.413564	0.033594
8.148952	8.302265	8.182661	1.886649	0.024300
8.175671	8.264888	8.187114	1.013213	0.016191
8.2022351	8.222154	8.151366	1.270173	0.014086
8.225111	8.215646	8.155619	1.354546	0.016354
8.255832	8.242754	8.155872	1.525266	0.022133
8.282552	8.245011	8.204124	1.535449	0.0233663
8.305270	8.215010	8.203377	1.376078	0.010177
8.335552	8.218367	8.212625	1.372242	0.018236
8.362705	8.216367	8.216882	1.355476	0.019676
8.385425	8.213584	8.221158	1.341482	0.040395
8.416145	8.245171	8.225387	1.565555	0.037416
8.442865	8.225826	8.225640	1.521562	0.019452
8.465588	8.312590	8.233052	1.551452	0.016777
8.456328	8.224117	8.238145	1.4828167	0.032286
8.5232428	8.350638	8.242397	0.546465	0.0595663
8.545747	8.125315	8.244659	0.812536	0.017958
8.576968	8.115681	8.251583	0.751597	0.021966
8.603182	8.316596	8.255155	0.735169	0.030559

ERRNO=55 E558 (26422) 33FB (17FB)

AHOI AT 82CC

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 81. 1482351

ZEROTH MOMENT = 8.82955

SECOND MOMENT = 8.36626

FOURTH MOMENT = 8.58813

EIGHTH MOMENT = ERRT/(1+R**2*R**4*B/(P*P4)) =

8.78675

SIGNIFICANT WAVE HEIGHTS: H(1/2),
 H(8) = 8.51828

TABLE 3

TEST 118 548148

REAL PEAK = 11886.88781 CTS
INTEGER PEAK = 11886 CTS
RPS VALUE = 1.971KA PHYSICAL UNITS

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STANT SPECTRUM SPECTR FOR
TEST 118 MAY 1966

VELOCITY = 8.00000 FPS
LAGS = FP
SPECTRAL UNITS = (PHYSICAL UNITS)*E*SEC
SAMPLING RATE = 1.5E5HZ

CHECA	S(CPLCA)	FREQUENCY	S(FREQ)	AUTOCOR
J-0026949	5.621672	0.0000000	35.3222096	-0.885256
K-0226749	5.352675	0.0000000	21.1285000	-0.841212
Z-0553449	1.831657	0.0000000	6.4545110	-0.828486
R-0802159	1.8415926	0.012758	6.5556752	-0.726763
E-162875	1.851655	0.017810	6.8842626	-0.269490
C-133515	0.541451	0.001263	5.5486655	-0.351360
R-162319	1.8225555	0.017516	6.6443780	-0.165279
K-187025	1.441618	0.025768	5.1355637	-0.208222
R-2151759	1.521658	0.0134921	5.475425	-0.054283
K-242478	1.015958	0.036273	7.533529	-0.119920
K-267158	1.025592	0.042526	6.4651114	-0.163590
K-253518	0.572588	0.016778	6.117176	-0.125511
R-322653	0.6855553	0.051031	5.869223	-0.075184
Z-347357	0.655745	0.0255284	4.145301	-0.245778
E-374077	2.545586	0.0255536	3.4228016	-0.082515
G-422752	0.564088	0.0031785	3.5444881	-0.159666
Z-427517	0.555242	0.008841	3.746257	-0.298349
E-454237	0.746082	0.072254	4.6580271	-0.031410
K-488556	0.721325	0.0276647	4.522115	-0.049556
R-527476	0.5750212	0.0289755	3.6368242	-0.266591
E-534356	0.5611896	0.0285052	3.520455	-0.122990
Z-561116	0.615593	0.0055324	3.872422	-0.073422
E-587526	0.811335	0.0253557	5.142129	-0.169475
K-614555	1.237650	0.257685	7.777641	-0.065750
P-641275	1.664432	0.102862	10.355092	-0.055733
Z-667555	1.812678	0.163315	11.389354	-0.043933
E-654715	1.785220	0.110667	11.242800	-0.161442
R-721434	2.023550	0.114882	12.752500	-0.146744
E-748154	2.042516	0.115272	15.726286	-0.012485
Z-774574	2.757581	0.123325	17.326235	-0.243579
E-801554	3.372056	0.127578	21.155352	-0.128756
R-8226314	4.0384815	0.131832	27.550558	-0.158283
E-855934	4.6552748	0.136083	25.451684	-0.191730
K-881753	4.652653	0.149335	28.644364	-0.063933

1+58473	4+6784816	8+144588	32+863889	8+169887
4+55153	5+127743	8+148841	32+218552	8+254109
4+56153	5+656156	8+152953	32+551458	8+018429
8+22656	6+625786	8+157346	41+532622	8+277859
1+61153	6+621573	8+161558	46+852566	8+121085
1+42078	5+655792	8+165851	34+556817	8+175139
1+68751	4+561164	8+172123	31+171921	8+027728
1+655511	4+413373	8+174256	27+730242	8+062845
1+122231	4+215427	8+176625	25+229675	8+210634
1+144574	3+742129	8+182261	23+566573	8+088434
1+175671	3+846736	8+187114	24+132265	8+036533
1+222351	4+117932	8+191366	25+873734	8+207659
1+225111	3+462381	8+195615	21+74776	8+044204
1+255839	2+542614	8+198872	15+575714	8+112129
1+282559	2+630842	8+204124	15+273433	8+025986
1+305274	2+477546	8+208377	15+666878	8+116251
1+335598	2+285406	8+212625	14+384769	8+102888
1+362704	2+657176	8+216882	15+525633	8+175522
1+385425	1+951239	8+221135	12+448459	8+097758
1+416145	2+142850	8+225387	13+462035	8+024265
1+442845	2+203353	8+229548	13+844074	8+104752
1+464948	2+031685	8+233852	12+765462	8+146127
1+486387	1+661154	8+237145	12+563255	8+026833
1+523941	1+226973	8+241287	8+904571	8+133268
1+5276161	1+537180	8+245763	8+116695	8+085634

THE SPECTRAL MOMENTS WERE COMPUTED
USING A HIGH FREQUENCY TRUNCATION
AT 81 FREQUENCIES.

ZEROTI ECHENT = 3.02226
SECCNI ECHENT = 3.07451
FCNTE ECHENT = 5.41771
EACALNESS FACTOR (ECHENT) = 2.00000/P(FCNTE)

MANUFACTURERS' INFORMATION

SICKLE-LEAF WAVE HEIGHTS, 113331
APRIL 20 1968

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TABLE 5

TEST 118 NAVLFF

REAL PEAK = 17185.4SER5CTS
 INTEGER PEAK = 17185 CTS
 RMS VALUE = 1.32758 PHYSICAL UNITS

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START SPECTRUM EFFECTS FOR

TEST 118 NAVLFF

VELOCITY = 8.00000 FFS
 LACS = 6P
 SPECTRAL UNITS = (PHYSICAL UNITS) * 0.00000 SEC
 SAMPLING RATE = 1.50000

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
E+KKEKRR	4.1548222	0.0000000	2E1+EV48223	1.763306
E+K2E72K	21.0226687	0.0000000	1E3+46E8E9	1.182293
E+K53440	0.646654	0.0000000	4+025346	0.926619
E+K6E155	0.422857	0.0000000	2+644574	1.197438
E+K6E725	0.012642	0.0000000	2+5E0125	1.272397
E+133555	0.348622	0.0000000	2+152461	1.054530
E+162315	0.022741	0.0000000	2+532454	1.031980
E+167035	0.457012	0.0000000	3+122807	1.127621
E+213768	0.045434	0.0000000	2+554736	1.110696
E+242478	0.354651	0.0000000	2+417088	1.16125
E+267158	0.0401225	0.0000000	2+520558	0.995248
E+253518	0.352386	0.0000000	2+465422	1.123731
E+226658	0.317336	0.0000000	2+722852	1.059381
E+547257	0.304222	0.0000000	1+511522	1.023753
E+374877	2+230141	0.0000000	1+446615	1.141887
E+422757	0.203212	0.0000000	1+275569	1.175252
E+427517	0.203585	0.0000000	1+676609	1.064933
E+454237	0.254545	0.0000000	1+853195	1.099257
E+482556	0.201078	0.0000000	1+851726	1.109888
E+587676	0.286452	0.0000000	1+546377	1.082218
E+534356	0.219368	0.0000000	1+378827	1.131875
E+561116	0.245795	0.0000000	1+565971	1.097177
E+587836	0.313582	0.0000000	1+572805	1.088775
E+614555	0.001154	0.0000000	2+523287	1.028265
E+641275	0.535044	0.0000000	3+386515	1.022012
E+667555	0.646712	0.0000000	4+663410	1.075923
E+695715	0.662154	0.0000000	4+168439	1.052576
E+721434	0.700586	0.0000000	4+715545	1.087331
E+748154	0.666319	0.0000000	5+443245	1.082670
E+774874	0.652784	0.0000000	5+346631	1.053660
E+821554	0.851641	0.0000000	5+02346	1.031188
E+825316	0.583438	0.0000000	6+175121	1.094888
E+855234	0.953825	0.0000000	6+244411	1.077966
E+881753	0.554622	0.0000000	6+249381	1.087509

0.584473	0.515342	0.144588	6+216206	1.112205
0.532512	0.570215	0.148841	5+565119	1.051236
0.561512	0.823381	0.153093	5+173453	1.082357
0.586332	0.615195	0.17246	4+216224	1.067171
1+015352	0.443348	0.161558	3+026563	1.085335
1+642272	0.405448	0.165291	2+47522	1.084515
1+667871	0.467032	0.178123	2+557445	1.066545
1+695511	0.414211	0.174556	2+61209	1.04817
1+122231	0.386954	0.178095	2+443872	1.064032
1+144562	0.252458	0.182861	1+275668	1.069820
1+175571	0.170082	0.187114	1+288644	1.062738
1+222351	0.123883	0.191366	2+778278	1.049441
1+224111	0.135224	0.155619	2+874644	1.054132
1+255520	0.140243	0.155672	2+875915	1.078493
1+282559	0.123411	0.184124	2+775415	1.073668
1+304270	0.128428	0.188577	2+806535	1.054916
1+335550	0.153385	0.181229	2+841125	1.050965
1+362795	0.131655	0.216682	2+827452	1.068607
1+385429	0.158422	0.221135	2+955382	1.046266
1+416149	0.223042	0.222537	1+001417	1.030988
1+442269	0.263477	0.225542	1+466578	1.052535
1+465578	0.159956	0.233552	1+004656	1.042223
1+495308	0.256784	0.238145	1+002813	1.035271
1+523979	0.079437	0.242852	2+442574	1.035612
1+575788	0.077688	0.242852	2+442574	1.035612
1+775788	0.100592	0.220012	2+558552	1.035612

THE EFFECTUAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 51 (0.000001)

ZEROTH MOMENT = 1.763308
 EIGHTH MOMENT = 0.000765
 ELEVENTH MOMENT = 0.000063
 BRIDGES FACTOR (EIGHTH(1+0.000001/(PE+PA))) = 1.97348

SIGNIFICANT WAVE HEIGHT, H(1/3)
 6.494MS = 0.3115E

TABLE 6

TEST 210 E-C C1SPL

REAL PEAK = 2482+6367ECS
 INTEGER PEAK = 2482 CTS
 RMS VALUE = 1.47376 PHYSICAL UNITS

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START SPECTRUM SPECTR FCR

TEST 210 E-C C1SPL

VELOCITIY = 0.00000 FPS
 LAGS = 60
 SPECTRAL UNITS = (PHYSICAL UNITS)*E*SEC
 SAMPLING RATE = 1.9559

CMEGA	SICMEGA)	FREQUENCY	SIFREG)	AUTOCOR
0.0000000	0.758246	0.000000	4.764203	-0.171962
0.026720	0.515688	0.024253	3.516268	-0.592577
0.053440	0.316212	0.028595	1.552283	-0.710178
0.081159	0.228336	0.021275	1.534411	-0.974420
0.108675	0.161662	0.017010	1.561326	-0.346613
0.133559	0.125214	0.021263	1.775486	-0.655581
0.160315	0.116216	0.025516	1.585663	-0.503538
0.187159	0.105458	0.025728	1.043225	0.111160
0.213758	0.279356	0.023421	1.755457	-0.169768
0.240478	0.256688	0.025673	1.064145	-0.356362
0.267158	0.314225	0.024526	1.511526	-0.074492
0.293518	0.351133	0.024677	2.475761	-0.313660
0.320638	0.648526	0.025103	3.825871	-0.022531
0.347357	0.265585	0.025524	4.561135	-0.258555
0.374077	1.056827	0.025556	7.595444	-0.048170
0.400757	1.516533	0.026725	12.172728	0.186629
0.427517	1.0723415	0.026841	10.851255	0.103228
0.454237	0.551436	0.027254	6.225378	0.023659
0.480956	0.525085	0.027647	5.362038	0.023483
0.507676	2.272218	0.026755	1.656572	-0.017131
0.534356	0.160472	0.028525	1.022277	-0.036280
0.561116	0.145445	0.026524	0.513862	-0.166991
0.587836	0.141085	0.025557	0.886489	0.114244
0.614555	0.157825	0.025725	0.951521	0.163912
0.641275	0.172532	0.026262	1.671484	-0.063559
0.667755	0.270135	0.026315	1.657331	-0.037673
0.694715	0.742164	0.110567	4.652566	0.093114
0.721434	1.147824	0.114224	7.211552	0.011503
0.748164	0.880252	0.115672	5.502766	-0.156538
0.774874	0.611158	0.125325	3.842272	0.043928
0.801554	0.123155	0.127578	5.777878	0.115435
0.828314	1.222152	0.131832	7.553556	-0.085171
0.855034	1.744028	0.136083	10.588851	0.082906
0.881753	0.275552	0.140335	14.257713	0.137886

0.908473	2.0423656	0.144588	15.228282	-0.219596
0.935153	2.520381	0.148841	17.555106	-0.019985
0.961513	4.584133	0.153653	28.002563	0.176653
0.988632	6.116714	0.157346	38.0132449	-0.145850
1.015352	5.471254	0.151552	34.376987	-0.063426
1.042072	4.554609	0.165551	31.382280	0.236024
1.066751	5.511547	0.170103	34.567230	-0.021542
1.093511	4.669211	0.174556	29.337524	-0.043522
1.122231	3.0466773	0.178095	21.405380	0.104519
1.148552	2.585155	0.182261	18.756641	-0.115391
1.175571	2.366105	0.187114	14.718102	-0.046643
1.222351	1.643223	0.151366	18.324673	0.091592
1.229111	1.0442843	0.155615	5.055652	-0.015549
1.255830	1.0250554	0.159872	6.553876	-0.007344
1.282550	1.345728	0.204124	8.088571	0.094617
1.309270	1.577881	0.208377	6.658151	0.017124
1.335950	0.7711532	0.212285	4.847668	-0.014597
1.362709	0.6446655	0.216882	4.263051	-0.025034
1.389425	0.683645	0.221135	4.255467	-0.026645
1.416145	0.764254	0.225527	4.465212	0.0288195
1.442865	0.764783	0.225648	4.442850	-0.244649
1.469588	0.643836	0.232852	4.6845316	0.010249
1.496348	0.523357	0.238145	3.288682	0.215316
1.523088	0.520725	0.242357	3.271858	0.236687
1.545747	0.565895	0.246656	3.581758	-0.017879
1.572648	0.563656	0.252583	3.541824	-0.013987
1.603188	0.565353	0.255155	3.689384	-0.009329

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT N = 1.423151
 ZEROTH MOMENT = 2.17156
 FIRST MOMENT = 0.19374
 FOURTH MOMENT = 2.83638
 BRAKERS FACTOR ISGRT(1.0+PE2+P2/(PE*PE)) = 8.46778

SIGNIFICANT WAVE HEIGHT, H(1/3)
 4.0*H(1/3) = 5.15083
 4.0*H(1/3)*ISGRT(1.0+PE2+P2/(PE*PE)) = 8.46321

TABLE 7

TEST 215 NAVKIND

REAL MEAN = 18183.5888CTE
 INTEGER MEAN = 18184 CTS
 RMS VALUE = 1.53484 PHYSICAL UNITS

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START SPECTRUM SPECTR FCR

TEST 215 NAVKIND

VELOCITY = 2.00000 FPS
 LAGS = 62
 SPECTRAL UNITS = (PHYSICAL UNITS) $\times 10^{-2}$ SEC
 SAMPLING RATE = 1.55559

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCCR
8.620000K	2.624326	8.000000	17.745636	1.781810
8.62672K	1.675633	8.024223	18.553446	-0.737223
8.625344K	8.457475	8.028525	2.874462	0.142097
8.6201E5	8.415180	8.021755	2.668654	0.469374
8.6186875	8.474123	8.021761K	3.145275	-0.181597
8.613555	8.452830	8.021263	3.056540	0.061628
8.610315	8.367818	8.025516	2.311618	0.211195
8.617635	8.332553	8.025768	2.025454	0.018628
8.613758	8.332107	8.024021	2.074122	0.042388
8.6240478	8.257285	8.038273	1.616567	0.073386
8.627158	8.237898	8.025256	1.454757	0.123691
8.6253518	8.2254131	8.024677	1.056750	-0.034918
8.620638	8.212503	8.025103	1.722854	0.099692
8.617357	8.215207	8.025284	1.582027	0.102274
8.6174077	8.313503	8.025536	1.572288	-0.061929
8.6202757	8.251885	8.025378	1.833564	0.146642
8.627517	8.222224	8.025841	1.755671	0.055472
8.6454237	8.226784	8.027254	1.678113	-0.062466
8.6480556	8.226222	8.027654	1.760690	0.210944
8.6267676	8.226443	8.028075	1.784666	-0.031148
8.624356	8.227327	8.026552	1.716559	0.111560
8.621116	8.348517	8.025324	1.922132	0.054704
8.627836	8.323175	8.025357	2.034570	0.035123
8.614555	8.303435	8.025285	1.506564	0.131124
8.641275	8.305765	8.014262	1.521201	0.020648
8.627555	8.311953	8.018631	2.085574	0.077763
8.654715	8.316534	8.011056	1.588643	0.123655
8.621434	8.348537	8.011462	1.518711	0.026969
8.6747154	8.371743	8.011507	2.335730	0.107829
8.6774874	8.422485	8.012325	2.654561	0.048261
8.681554	8.4463656	8.012757	2.513237	0.107359
8.628314	8.577812	8.013183	3.632458	0.032744
8.6855234	8.756565	8.013683	5.024588	0.035274
8.681753	8.848456	8.014023	6.286249	0.136023

8.528473	8.553873	8.044588	8.953258	0.041656
8.525153	8.565397	8.048841	6.05052	-0.020933
8.561513	8.563485	8.052053	9.823650	0.159516
8.588632	8.182534	8.052346	13.713266	-0.002232
8.615352	8.255225	8.161558	14.155152	0.012619
8.642072	8.573514	8.167151	16.165861	0.183357
8.668751	8.516952	8.176103	18.326003	0.039665
8.655511	8.454591	8.174356	15.673575	-0.044624
8.122221	8.266154	8.076605	13.861524	0.157437
8.145552	8.145520	8.072661	13.625632	-0.061902
8.175671	8.184575	8.071114	11.338602	0.053173
8.292351	8.014625	8.071566	18.658289	0.095387
8.255111	8.834797	8.075619	17.811554	0.051001
8.255830	8.112848	8.075872	19.558548	0.053144
8.282560	8.630231	8.076124	16.526230	0.084870
8.395270	8.682733	8.077577	11.816951	0.028375
8.325559	8.475245	8.071625	5.294255	0.063621
8.368705	8.682620	8.071682	18.089559	0.051095
8.385425	8.755157	8.071135	11.953362	0.055866
8.416145	8.808555	8.072587	11.363735	-0.026173
8.442865	8.741771	8.072542	18.543668	0.056774
8.445588	8.544121	8.073252	9.781557	0.032192
8.456388	8.4415518	8.073145	8.581608	0.044251
8.423828	8.427026	8.074235	8.566267	0.099822
8.457474	8.4205591	8.074660	8.551182	0.009372
8.526468	8.744958	8.075052	18.564128	0.058790
8.605168	8.872510	8.076155	13.224479	0.080569

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 51 1.023151
 ZEROCTH MOMENT = 1.78181
 SECOND MOMENT = 8.27448
 THIRD MOMENT = 0.771178
 RHC/NESS FACTOR (SQRT(1+P2*P2*P2/(P0*P4))) = 8.48268

SIGNIFICANT WAVE HEIGHT, H(1/3)
 AVERAGE = 8.33938
 1.60487*HEIGHT(1+P2*P2*P2/(P0*P4)) = 8.01876

TABLE 8

TEST 215 NAVLEE

REAL MEAN = 5213.18325CTS
 INTEGER MEAN = 5213 CTS
 RMS VALUE = 2.55185 PHYSICAL UNITS

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START SPECTRUM SPECTRA FOR

TEST 215 NAVLEE

VELOCITY = 2.00000 FPS
 LACS = 60
 SPECTRAL UNITS = (PHYSICAL UNITS)*2.0SEC
 SAMPLING RATE = 1.55559

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
E+0000000	1.617196	0.000000	1.1617196	0.350339
E+226728	0.545475	0.004253	0.545475	0.028128
E+263440	0.246865	0.008505	0.561123	0.217523
E+262155	0.214545	0.012758	0.352567	0.297179
E+126875	0.223868	0.017018	0.401525	0.45524
E+123555	0.236612	0.021263	0.466674	0.294440
E+193155	0.222265	0.025516	0.466184	0.27519
E+213754	0.152288	0.034021	0.226522	0.035523
E+240478	0.134663	0.038273	0.842343	0.044671
E+267158	0.125444	0.042526	0.775119	0.033516
E+253518	0.127344	0.046778	0.882129	0.222212
E+326638	0.143177	0.051031	0.859606	0.047840
E+347357	0.171564	0.055284	0.660483	0.025951
E+374677	0.162123	0.055526	0.616468	0.019917
E+400757	0.148423	0.063785	0.532567	0.258943
E+427517	0.135920	0.068041	0.775145	0.235244
E+454257	0.124358	0.072252	0.781617	0.033038
E+482556	0.115772	0.076547	0.752534	0.058937
E+527676	0.125366	0.080755	0.666752	0.233532
E+534356	0.118466	0.085006	0.743567	0.038550
E+561116	0.145151	0.085304	0.912259	0.042848
E+587836	0.134776	0.093557	0.842422	0.036788
E+614555	0.127643	0.097805	0.882266	0.034870
E+641275	0.115358	0.102062	0.576344	0.24720
E+667555	0.172164	0.106315	0.661738	0.032090
E+694715	0.152521	0.110567	0.556522	0.044448
E+721434	0.154353	0.114820	0.570088	0.028103
E+748154	0.210723	0.115072	0.344211	0.029223
E+774674	0.225784	0.117332	0.443777	0.051144
E+801554	0.227265	0.117578	0.322286	0.039736
E+828314	0.230515	0.121032	1.450082	0.022117
E+855034	0.285565	0.136083	1.754256	0.032997
E+881753	0.297932	0.140335	1.871560	0.044828

E+502473	0.245395	0.144588	1.567018	0.036928
E+535153	0.154857	0.148841	1.224323	0.033351
E+561153	0.230452	0.151053	1.447570	0.034864
E+588632	0.345758	0.157346	1.921136	0.22466
E+615352	0.314600	0.161598	0.976737	0.227752
E+642272	0.351397	0.165851	2.221611	0.063344
E+686751	0.411654	0.170103	2.619423	0.024863
E+695511	0.366125	0.174356	2.312556	0.020570
E+122231	0.268534	0.178605	1.686208	0.05374
E+146552	0.155544	0.182861	1.228440	0.021387
E+175671	0.145265	0.187114	0.912754	0.032558
E+222351	0.185984	0.191366	1.168573	0.045848
E+225111	0.242211	0.195619	1.521654	0.046402
E+255836	0.234533	0.195872	1.475611	0.039349
E+282556	0.228678	0.204124	1.430833	0.037298
E+305270	0.213573	0.208377	1.344433	0.025795
E+325556	0.172314	0.212625	1.672114	0.20684
E+327059	0.145308	0.216882	0.538131	0.030944
E+369429	0.143195	0.218135	0.855179	0.028674
E+416149	0.152285	0.225287	0.854022	0.027937
E+442885	0.152267	0.225640	0.947527	0.21789
E+469388	0.155822	0.233852	0.579066	0.026610
E+495378	0.131079	0.238145	0.823659	0.034813
E+513428	0.121451	0.248357	0.763095	0.027514
E+545747	0.150617	0.248680	0.822653	0.024747
E+576468	0.144751	0.249583	0.525458	0.027457
E+663188	0.154167	0.258155	0.568688	0.027366

THE SPECTRAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 512 1/4 KHZ

ZEROTH MOMENT = 0.39824
 SECOND MOMENT = 0.26687
 FOLIOUR MOMENT = 0.38318
 BICKERS FACTOR (SIGM(1E+PPP+0.2/(PE+P4))) = 0.68516

SIGNIFICANT WAVE HEIGHT, H(1/3)
 APPROX = 0.36787
 APPROXIMATELY = 0.36787

TABLE 9

TEST 618 E-C CISP

REAL PEAK = 5179.23E03CTS
 INTEGER PEAK = 2575 CTS
 RMS VALUE = 2.76652 PHYSICAL UNITS

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STANT SUBLTLINE EFFECTS FOR

TEST 618 E-C CISP

VELOCITY = 8.44444 FPS
 LACE = 1000000000
 SPECTRAL UNITS = (PHYSICAL UNITS) * E-06 SEC
 SAMPLING RATE = 1.55559

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.0000000	0.0000000	0.0000000	13.530273	0.656122
0.0267200	0.0000000	0.0000000	8.705101	-0.865815
0.0003440	0.0000000	0.0000000	3.725516	-0.553073
0.0002105	0.0000000	0.0000000	3.872658	0.348212
0.126875	0.0000000	0.0000000	4.415038	1.411363
0.153555	0.0000000	0.0000000	4.564217	-0.708590
0.160315	0.0000000	0.0000000	4.823327	-0.216967
0.187035	0.0000000	0.0000000	3.787054	1.681616
0.213755	0.0000000	0.0000000	3.457650	0.644235
0.240475	0.0000000	0.0000000	2.772589	0.271363
0.267195	0.0000000	0.0000000	2.866236	-0.184459
0.293515	0.0000000	0.0000000	3.308081	-0.227012
0.320235	0.0000000	0.0000000	4.351353	-0.215066
0.347555	0.0000000	0.0000000	8.550076	-0.057043
0.374875	0.0000000	0.0000000	2.726449	-0.289078
0.402195	0.0000000	0.0000000	5.6155212	0.779220
0.429515	0.0000000	0.0000000	5.824245	0.770213
0.456835	0.0000000	0.0000000	3.854484	-0.288152
0.484155	0.0000000	0.0000000	10.755371	-0.107398
0.511475	0.0000000	0.0000000	5.152044	-0.072108
0.538795	0.0000000	0.0000000	3.381259	-0.661241
0.566115	0.0000000	0.0000000	3.822268	0.103313
0.593435	0.0000000	0.0000000	5.352468	0.568472
0.614555	0.0000000	0.0000000	7.572128	0.318623
0.641875	0.0000000	0.0000000	11.362883	0.293975
0.669195	0.0000000	0.0000000	16.823029	0.185179
0.696515	0.0000000	0.0000000	31.806473	-0.422334
0.723835	0.0000000	0.0000000	4.676302	-0.151312
0.751155	0.0000000	0.0000000	53.516541	0.120731
0.778475	0.0000000	0.0000000	65.875288	-0.321352
0.805795	0.0000000	0.0000000	8.535257	0.087196
0.833115	0.0000000	0.0000000	104.451409	0.776778
0.858535	0.0000000	0.0000000	105.826348	0.186583
0.885855	0.0000000	0.0000000	108.727783	-0.348705

0.908475	16.840580	0.144688	105.811981	0.029276
0.936155	16.881238	0.148842	121.841357	-0.037552
0.963835	15.845231	0.153053	54.551567	-0.229551
0.988635	15.491415	0.157346	56.765543	0.149587
1.016315	16.886417	0.161658	106.862775	0.137972
1.044035	16.271484	0.165851	107.226740	0.156598
1.066875	17.580756	0.170103	68.958370	0.278892
1.095515	6.642001	0.174356	61.736065	-0.166314
1.122235	5.222275	0.178685	53.440057	0.295575
1.148955	4.612583	0.182861	28.814310	0.474388
1.176675	3.165057	0.187114	15.511774	-0.253983
1.202355	2.742327	0.191516	17.356216	0.148361
1.229115	2.052016	0.195819	13.182221	0.569009
1.255835	1.668195	0.199872	10.567664	-0.173297
1.282555	1.512662	0.204184	5.503706	-0.216615
1.309275	1.184354	0.208377	7.441766	0.404791
1.335995	0.875523	0.212625	5.526203	0.149246
1.362715	0.817176	0.216882	5.134481	-0.416686
1.389435	0.728615	0.221135	4.555038	-0.298509
1.416155	0.711566	0.225387	4.467345	0.243388
1.442875	0.651555	0.229540	4.351704	0.279178
1.469595	0.704776	0.233852	4.428228	0.020226
1.496315	0.724572	0.238145	4.555155	-0.214698
1.523035	1.051552	0.242321	4.012382	0.518968
1.549755	1.055668	0.245553	4.020258	-0.518937

THE SPECTRAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 50% OF THE SPECTRUM

ZEROTH MOMENT = 7.66612
 SECOND MOMENT = 4.57752
 FOURTH MOMENT = 6.22646
 BREAKERS FACTOR (EIGHT/(1.0+P2*P2/2)*P3*P4) = 0.646032

SIGNIFICANT WAVE HEIGHT, H(1/3)

AMPLITUDE = 11.96795

10.446816

TABLE 10

TEST GSR NAVILLE

REAL PEAK = 1.0175465831CTE
 IMAGINARY PEAK = 1.2876 CTE
 RMS VALUE = 1.678724 PHYSICAL UNITS

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STANT ELEMENTS SPECTRUM FOR
TEST GSR NAVILLE

VELOCITY = 8.00000 FPS
 LAGE = 00
 SPECTRAL UNITS = (PHYSICAL UNITS)²*SEC
 SAMPLING RATE = 1.50000

CMDRA	S(CMDRA)	FREQUENCY	S(FREQ)	AUTOCOR
E+0000000	1.0000000	0.0000000	0.0000000	-0.0000000
E+0002449	0.9999999	0.0000000	0.0000000	-0.0000000
E+0001155	0.9997959	0.0017258	0.0000000	0.0000000
E+100875	0.9992260	0.0172100	0.0000000	0.0000000
E+1335555	0.9992281	0.0212620	0.0000000	0.0000000
E+160315	0.9993495	0.0259516	0.0000000	0.0000000
E+187035	0.9995150	0.0257666	0.0000000	0.0000000
E+213755	0.9995203	0.0248621	0.0000000	0.0000000
E+240475	0.9996281	0.0258273	0.0000000	0.0000000
E+267155	0.9996345	0.0242526	0.0000000	0.0000000
E+293515	0.9996274	0.0247778	0.0000000	0.0000000
E+320635	0.9997198	0.0251051	0.0000000	0.0000000
E+347357	0.9997514	0.0257284	0.0000000	0.0000000
E+374077	0.9998625	0.0255536	0.0000000	0.0000000
E+400757	0.9998552	0.0251785	0.0000000	0.0000000
E+427517	0.9945524	0.0251041	0.0000000	0.0000000
E+454237	0.9946234	0.0272254	0.0000000	0.0000000
E+480556	0.9988751	0.0276547	0.0000000	0.0000000
E+5072676	0.9902562	0.0267795	0.0000000	0.0000000
E+534356	0.9947058	0.0261662	0.0000000	0.0000000
E+561116	0.9916121	0.0265324	0.0000000	0.0000000
E+587823	0.9915718	0.0255557	0.0000000	0.0000000
E+614555	0.9966445	0.0257805	0.0000000	0.0000000
E+641275	0.9958435	0.0262062	0.0000000	0.0000000
E+667955	0.9915632	0.0266318	0.0000000	0.0000000
E+694715	1.0151118	0.0260567	0.0000000	0.0000000
E+721424	1.0172414	0.0254820	0.0000000	0.0000000
E+748154	1.0148550	0.0159772	0.0000000	0.0000000
E+774874	1.0228175	0.0123325	0.0000000	0.0000000
E+801554	1.0116484	0.0127578	0.0000000	0.0000000
E+828314	1.0152262	0.0121630	0.0000000	0.0000000
E+855034	1.0154462	0.0124083	0.0000000	0.0000000
E+881753	1.0151062	0.0140335	0.0000000	0.0000000

E+508473	3.686528	0.144588	23.161836	P+0.85783
E+525153	3.565665	0.145843	22.051555	P+2.46768
E+561513	3.581585	0.152953	24.351235	P+11.8634
E+586632	4.671557	0.157346	37.608502	P+2.61385
E+615552	4.114531	0.161558	38.421245	P+0.76182
E+642272	4.766818	0.165851	42.525739	P+0.49107
E+669751	5.064155	0.170123	35.526168	P+1.22841
E+695511	4.985848	0.174556	25.733078	P+0.63741
E+722231	3.625373	0.176605	28.655160	P+0.023755
E+148552	3.1288426	0.182261	15.607468	P+1.3154
E+175671	3.716566	0.187114	23.351456	P+0.39377
E+202351	3.558186	0.151366	25.058502	P+0.47368
E+225111	3.621037	0.158610	22.776775	P+2.44700
E+255830	3.383281	0.158872	28.880259	P+0.69501
E+282550	2.8772651	0.204124	18.088831	P+0.014298
E+310270	8.672384	0.088377	16.598347	P+1.70031
E+335958	2.376257	0.812685	14.538462	P+0.59598
E+362705	1.871158	0.816882	11.760173	P+0.41644
E+389425	1.752554	0.921178	11.256751	P+0.005446
E+416145	2.4877713	0.225387	12.614834	P+1.19776
E+442865	1.524160	0.225640	18.085852	P+1.74446
E+465588	1.675120	0.233952	18.525155	P+0.11988
E+486328	1.578525	0.231815	5.678411	P+0.65074
E+523228	1.6557785	0.217137	5.366876	P+0.07011
E+545747	1.682183	0.214669	8.533274	P+0.02851
E+576868	1.681657	0.230582	5.752357	P+0.64304
E+603168	1.681537	0.230582	5.747239	P+0.09376

THE SPECTRAL ELEMENTS WERE COMPUTED
USING A HIGH FREQUENCY TRUNCATION
AT 51.1442151
 ZEROTH MOMENT = 3.232886
 FIRST MOMENT = 3.145814
 SECOND MOMENT = 8.100554
 BREAKDOWN FACTOR (EGRT/(1+P*P)**2/(P+P*P)) = E+67262

SIGNIFICANT WAVE HEIGHT, H(1/3)
 AMPLITUDE = 7.118456
 AMPLITUDE*HEIGHT/(1+P*P*(P+P*P)) = 6.775862

TABLE 11

TEST 288 BOVLF

REAL MEAN = 4886.16757 CTS
INTEGER MEAN = 4886 CTS
RPS VALUE = 8.76667 PHYSICAL UNITS

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START SPECTRUM SPECTRUM FOR

TEST 238 HAVEF

VELOCITY = 0.00000 FFS
LAGS = 60
SPECTRAL UNITS = 1(FPHYSICAL UNITS) * 2.0 SEC
SAFFLING RATE = 1.55555

CMEID	S(CMEGA)	FREQUENCY	%FREQI	AUTOCORR
K-0000000	1.0000000	0.0000000	10.0000000	-0.588092
K-0267282	0.5151802	0.1242253	5.645714	-0.0058864
K-0534448	0.1533853	0.0885095	1.215262	-0.1151612
K-0821555	0.2747282	0.012758	1.726115	-0.129673
K-1068795	0.3610233	0.0172010	2.268576	-0.166661
K-1535555	0.2726455	0.0121263	1.713101	-0.016219
K-1600315	0.1457355	0.025516	8.546815	-0.032973
K-1870235	0.1226889	0.025766	8.775671	-0.067324
K-2137558	0.1441002	0.034021	8.505484	-0.101640
K-2424726	0.1616228	0.038273	1.811545	-0.014312
K-2671558	0.1871446	0.042526	1.175570	-0.0008737
K-2835158	0.2053201	0.046778	1.205548	-0.057766
K-3206358	0.202287	0.0510231	1.271009	-0.051737
K-3473557	0.154876	0.055284	1.155307	-0.029130
K-3740777	0.1665228	0.055536	1.021406	-0.021173
K-4007557	0.153406	0.063285	8.561875	-0.043190
K-4275117	0.155140	0.068041	8.574772	-0.029332
K-464237	0.167742	0.072254	1.025553	-0.017506
K-4805556	0.184016	0.076547	1.156209	-0.044340
K-5076762	0.171395	0.080755	1.076534	-0.021103
K-5342356	0.150556	0.085025	8.94735	-0.035269
K-5611116	0.168826	0.085304	1.080762	-0.042420
K-5878336	0.156915	0.093357	1.227259	-0.027579
K-614555	0.214687	0.097805	1.366227	-0.056121
K-641275	0.233093	0.102862	1.465556	-0.034576
K-667955	0.306564	0.106315	1.528711	-0.028631
K-6947155	0.475165	0.110567	2.585577	-0.059520
K-721034	0.567275	0.114822	3.565257	-0.050456
K-748154	0.655514	0.115072	4.143750	-0.041645
K-774874	0.832657	0.122325	5.256420	-0.054366
K-801554	0.517613	0.125758	5.765534	-0.033507
K-828314	1.030556	0.131582	6.475172	-0.052074
K-855024	1.184497	0.136082	6.540388	-0.045027
K-881753	0.584886	0.140335	6.188222	-0.049703

E-588473	E-668562	E-144588	S-487337	E-041116
E-935153	E-741856	E-148841	S-661216	E-037176
E-5561513	E-557152	E-153053	S-772218	E-025593
E-588632	E-566689	E-57346	S-175849	E-026154
1-815352	V-424754	E-181558	E-665061	E-031422
1-042272	E-426781	E-185551	E-815464	E-026667
1-068751	E-473127	E-170103	S-972743	E-02176
1-055511	E-504938	E-174356	S-172569	E-045324
1-122271	E-464847	E-178629	S-582722	E-01166
1-144552	E-317248	E-188861	S-93325	E-012399
1-175671	E-235558	E-187114	E-603525	E-014598
1-222351	E-284589	E-151366	S-775566	E-054490
1-225111	E-334204	E-156119	S-558633	E-054376
1-255830	E-309834	E-155872	I-885172	E-023261
1-288550	E-235258	E-204124	I-678168	E-018876
1-306270	E-202474	E-201377	I-272181	E-055217
1-334556	V-185653	E-212629	I-166451	E-031268
1-362275	E-187226	E-216882	I-180157	E-022373
1-389425	E-151772	E-221126	I-804542	E-035622
1-414145	E-188442	E-225387	I-133754	E-029481
1-442285	E-155130	E-225649	I-280038	E-041540
1-466958	E-207154	E-233592	I-301183	E-048462
1-486308	E-181108	E-238145	I-137882	E-015115
1-523205	E-156495	E-242257	I-203033	E-024395
1-565747	E-242775	E-246659	I-152269	E-024514
1-726916	E-191621	E-211003	I-232163	E-021578

THE SPECTRAL MOMENTS WERE COMPUTED
USING A HIGH FREQUENCY TRUNCATION
AT $E = 10^{-4}$.

11 5-145351
ZERCH MCFENT • 0.58885
ECCNC MCFENT • 0.46657

FEULER MOMENT = 1.55705
BREADTH FACTOR (SGHT) 1.6-12.02/(178.07411)

Digitized by srujanika@gmail.com

SIGNIFICANT HAVE HEIGHT: F(1,3)

4-8-478 • 333

W. H. G. - J. C. M. - J. W. S.

Digitized by srujanika@gmail.com

TABLE 12

TEST 319 B+C CISHI

REAL MEAN = 1255.05111CTE
 INTEGER MEAN = 1382 CTE
 RFB VALUE = 8.78E87 PHYSICAL UNITS

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START SPECTRUM SPECTR FCF

TEST 319 B+C FIRPL

VELOCITY = 6.00000 FPS
 LAGE = 60
 SPECTRAL UNITS = (PHYSICAL UNITS)*E+000EC
 SAMPLING RATE = 1.55559

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
8.6666666	1.511285	8.0000000	5.455209	0.621250
8.226729	9.555546	8.024253	5.505552	-0.238348
2.063442	0.313225	8.0000000	1.971548	-0.058145
8.221059	0.233164	8.012500	1.0477707	0.117394
2.106875	0.210526	8.017010	1.322777	2.035556
8.133559	0.155156	8.021263	1.222623	-0.040665
2.166315	0.157546	8.025516	0.952423	0.056543
8.137059	0.155146	8.025766	2.581104	0.043756
8.213758	0.152225	8.034221	1.227725	0.110741
8.246478	0.155902	8.038273	1.056422	0.053798
8.267158	0.210766	8.042526	1.324288	0.013343
8.253518	0.227628	8.046778	1.0430123	0.029944
2.320628	0.216951	8.051221	1.363355	0.045437
8.347357	0.234744	8.055284	1.0474542	-0.026717
2.374677	0.452848	8.055536	2.045528	0.025597
2.446275	0.666670	8.063725	4.514473	0.102719
8.427517	0.511168	8.068041	3.211761	0.061611
8.454237	0.225255	8.072253	1.0406449	0.002138
8.488556	0.184492	8.076547	1.161659	0.068322
8.507676	0.282825	8.082755	1.258425	0.028137
8.534356	0.175218	8.085522	1.010880	-0.028736
8.561116	0.156326	8.085364	0.582102	0.056923
8.587826	0.156226	8.093557	1.221675	0.038774
8.614556	0.247539	8.097825	1.055332	0.003548
8.641275	0.252265	8.102262	1.055255	0.0285560
8.667555	0.218418	8.106315	1.372357	0.055799
8.694715	0.215873	8.110567	1.036367	0.015567
8.721434	0.275366	8.114622	1.755305	0.013448
8.748154	0.373278	8.115272	2.353728	0.228553
8.774874	0.546656	8.123325	3.0157239	-0.006577
8.801554	0.610315	8.127578	5.834723	0.052227
8.828314	0.625366	8.131830	3.517582	0.057547
8.855054	0.658882	8.136203	4.351155	0.033731
8.881753	0.754228	8.140325	4.0730555	0.055503

8.528473	0.647464	8.144588	4.068138	0.031442
8.535153	0.412013	8.148841	3.0228579	-0.029890
8.561513	0.362435	8.153053	2.077249	0.035496
8.588632	0.344505	8.157346	2.125748	0.029351
8.615352	0.376711	8.161558	3.0377512	-0.029874
8.642072	0.526264	8.165851	5.882722	0.062328
8.668751	0.565372	8.172163	6.025745	0.049431
8.695511	0.587655	8.174356	3.0652272	0.019176
8.722231	0.445470	8.178605	2.0824103	0.026234
8.748552	0.487615	8.182861	3.0261008	0.026935
8.775671	0.470765	8.187114	2.0575021	-0.0192477
8.802351	0.512028	8.191366	3.0217168	0.049921
8.829111	0.627952	8.195619	3.0317020	0.023575
8.855830	0.422688	8.2055672	2.642364	0.027987
8.882552	0.258388	8.2084124	1.074825	0.060978
8.909270	0.254525	8.208377	1.0595126	0.039760
8.935952	0.253266	8.2126605	1.055187	-0.025267
8.962745	0.226557	8.216882	1.0417215	0.027621
8.989429	0.216401	8.221135	1.035686	0.020303
8.016145	0.222630	8.225387	1.0432754	0.013842
8.044285	0.244828	8.225640	1.052258	0.022114
8.061558	0.320615	8.233852	1.0535342	0.0272443
8.086328	0.351137	8.238145	2.026661	0.009195
8.102328	0.311207	8.242357	1.055368	0.023656
8.145747	0.337043	8.246648	2.017773	0.055635
8.152648	0.426675	8.252503	2.068505	0.022057
8.169318	0.452012	8.265155	2.0848876	0.024119

THE SPECTRAL POWERS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 81. 14KSI51)
 ZEROTH MOMENT = 8.62108
 SECOND MOMENT = 8.54537
 FIFTH MOMENT = 8.88035
 ENCLNESS FACTOR (EIGHTH(1.0+FLG+2/(MFO+F))) = 8.62678

SIGNIFICANT WAVE HEIGHT: H(1/3)
 AMPLITUDE = 0.15887
 ELEVATION(SPECTRUM(1.0+FLG+2/(MFO+F))) = 2.82577

TABLE 13

TEST 315 NAVIN

REAL PEAK = 6531.37E51CTS
 INTEGER PEAK = 6531 CTS
 RMS VALUE = 1.48221 PHYSICAL UNITS

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START SUBROUTINE SPECTRUM FOR

TEST 315 NAVIN

VELOCITY = 0.00000 FPS
 LAGS = 62
 SPECTRAL UNITS = (PHYSICAL UNITS) * 10^-2 SEC
 SAMPLING RATE = 1.5E559

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
K+02E000	1+184666	E+000000	7+443474	1+966475
K+02E7226	0+007237	E+000000	5+072219	-0+658755
K+053449	0+001211	E+000000	2+557874	0+126916
K+00E2155	0+014456	E+000000	3+232672	0+282587
K+100875	0+003176	E+000000	3+064203	-0+197471
K+133555	0+763656	E+000000	4+758172	0+010558
K+160315	0+000000	E+000000	2+552203	-0+052239
K+182259	0+772725	E+000000	4+005173	-0+152880
K+240478	0+003244	E+000000	4+018614	0+110945
K+267159	0+002547	E+000000	3+785512	-0+038269
K+293518	0+003456	E+000000	4+017837	0+014492
K+322658	0+001155	E+000000	4+715668	0+050114
K+347357	0+002052	E+000000	3+330417	-0+014376
K+374077	0+002923	E+000000	2+0044738	-0+018347
K+402077	0+0052420	E+000000	2+006375	0+078491
K+427517	0+001553	E+000000	2+006841	-0+033461
K+454637	0+006721	E+000000	3+183221	0+069476
K+480566	0+006887	E+000000	3+373363	-0+026985
K+507676	0+002466	E+000000	3+054050	-0+0207361
K+534356	0+005017	E+000000	3+026669	0+118443
K+561116	0+0056126	E+000000	3+745571	0+039544
K+587056	0+004545	E+000000	4+0021148	-0+024669
K+614555	0+0050585	E+000000	5+555708	0+053349
K+641275	0+0072648	E+000000	5+0063227	-0+028257
K+667555	0+001266	E+000000	4+153561	0+042219
K+695715	0+008835	E+000000	3+071439	0+021938
K+721434	0+0077148	E+000000	2+0058210	-0+018209
K+748154	0+014272	E+000000	3+0060211	-0+033429
K+774874	0+0042705	E+000000	4+0028233	0+029245
K+802159	0+0052532	E+000000	4+0055978	-0+023132
K+822314	0+0132520	E+000000	4+0014142	0+052130
K+855624	0+0713655	E+000000	4+218439	0+079119
K+881753	0+001761	E+000000	4+511547	-0+098465

0+502473	1+027921	E+000000	6+03E629	0+070783
0+935152	1+025295	E+000000	8+226564	-0+007529
0+561513	1+027834	E+000000	9+074023	0+000978
0+586632	1+008325	E+000000	11+072202	-0+024353
1+015382	2+042072	E+000000	13+405315	0+058669
1+042072	2+042072	E+000000	13+475250	0+023598
1+0668751	2+000000	E+000000	14+018105	0+044691
1+095511	2+0066821	E+000000	17+625573	0+060385
1+122231	2+001104	E+000000	17+576652	0+054533
1+148982	2+075785	E+000000	14+295181	0+069774
1+175671	1+755845	E+000000	11+023327	-0+015231
1+2022351	1+041285	E+000000	11+569157	0+018196
1+2293111	1+923223	E+000000	12+287738	0+019571
1+255689	1+566347	E+000000	12+354522	0+027774
1+282558	2+057591	E+000000	13+175555	0+012462
1+305270	2+0240316	E+000000	14+076323	-0+032831
1+335550	2+011814	E+000000	13+503076	0+019074
1+362769	1+085778	E+000000	11+622444	0+032926
1+385429	1+520232	E+000000	12+128225	-0+030876
1+416149	2+041207	E+000000	14+074381	0+068595
1+442865	2+0014453	E+000000	13+247799	-0+028726
1+465566	1+825827	E+000000	11+560163	0+053284
1+496558	1+501274	E+000000	12+178536	0+058172
1+523028	1+537678	E+000000	12+162172	-0+012778
1+549747	1+0556565	E+000000	10+031515	0+256566
1+576468	1+311778	E+000000	8+493423	0+019485
1+603182	1+256687	E+000000	8+041840	-0+074276

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 512 (1.4P2151)
 ZEROTH MOMENT = 1.56648
 SECOND MOMENT = 8.35761
 FOURTH MOMENT = 3.58151
 ENCLASSED FACTOR (SIGHTS(1.0E12)*2/(PE*PA11)) = E+02498

SIGNIFICANT WAVE HEIGHTS, H(1/3)
 4*H(1/3) = E+00582
 4*H(1/3)*H(1/3) = E+00582
 4*H(1/3)*H(1/3)*H(1/3) = E+00582

E+028845

TABLE 14

TEST SITE NAVLEE

REAL MEAN = 2575.24635CTE
 IMAG. MEAN = 2575 CTE
 RMS VALUE = R=76847 PHYSICAL UNITS

-31-

START SPECTRUM SPECTR FCR

TEST SITE NAVLEE

VELOCITY = 8.88F02 FPS
 LAGE = 0°
 SPECTRAL UNITS = (PHYSICAL UNITS) * 2 * SEC
 SAMPLING RATE = 1.5E5ES

CMEGA	S(CMEGA)	FREQUENCY	S(FREGI)	AUTOCOR
8.022200	1.273451	8.022200	8.021328	8.0578308
8.022672	6.753586	8.022425	4.736615	8.041761
8.065340	6.235615	8.022825	1.055569	8.016234
8.088015	6.256385	8.021275	1.023525	8.129150
8.106675	6.272248	8.017810	1.710535	8.023393
8.133555	6.252573	8.021263	1.036256	8.022270
8.166515	6.319352	8.022536	1.055825	8.066226
8.187755	6.255365	8.025748	1.020563	8.022980
8.213758	6.326273	8.073462	2.054231	8.023864
8.242478	6.327635	8.073823	8.077463	8.243196
8.267158	6.252632	8.042226	1.026456	8.234759
8.293518	6.316651	8.046778	1.526554	8.236133
8.322838	6.251203	8.051031	1.025582	8.0226800
8.347357	6.221221	8.045524	1.035562	8.0226568
8.374477	6.155263	8.025526	1.258749	8.055405
8.400275	6.223252	8.026375	1.041171	8.010724
8.4427517	6.211370	8.026624	1.328277	8.035350
8.456257	6.182442	8.072254	1.033752	8.024669
8.48556	6.151004	8.076547	1.220111	8.232710
8.507676	6.226612	8.028755	1.023842	8.018655
8.534356	6.237615	8.028525	1.045172	8.016265
8.561116	6.224612	8.028524	1.041128	8.055267
8.587836	6.273962	8.025357	1.021340	8.048821
8.614555	6.352492	8.029785	2.022287	8.0123408
8.641275	6.326215	8.022622	2.045653	8.057325
8.667555	6.221777	8.016631	1.021564	8.022859
8.694715	6.212568	8.011256	1.023035	8.0007755
8.721424	6.157524	8.011482	1.023552	8.032752
8.748154	6.226662	8.011542	1.042030	8.046078
8.74874	6.261758	8.012335	1.064677	8.0006219
8.821554	6.242262	8.012757	1.024616	8.044489
8.828314	6.225102	8.012182	1.028862	8.067513
8.855534	6.274315	8.013683	1.0723557	8.0015208
8.881753	6.462827	8.014835	2.058826	8.055901

8.928473	6.631578	8.0144528	3.976783	8.027243
8.935153	6.676638	8.014841	4.313016	8.026070
8.961513	6.637295	8.015303	4.024243	8.023811
8.988632	6.511365	8.015734	3.194158	8.027213
1.015352	6.515668	8.016158	3.079329	8.021986
1.042822	6.682853	8.016585	5.0421719	8.042710
1.068751	6.663565	8.0178103	5.048546	8.036091
1.095551	6.652297	8.0174556	2.040687	8.025364
1.122251	6.668451	8.0178675	2.053057	8.045236
1.148552	6.666207	8.0182661	4.014647	8.041717
1.175671	6.655347	8.0187114	3.0552179	8.011841
1.202231	6.680156	8.0151366	2.028255	8.028667
1.225111	6.626771	8.0155615	1.0542263	8.035624
1.255832	6.287488	8.015572	1.086342	8.010730
1.282572	6.257023	8.0264126	1.049257	8.031787
1.305270	6.571115	8.0228377	1.0811564	8.010374
1.335592	6.445555	8.0212625	2.055628	8.026959
1.362755	6.444598	8.0216882	2.0776818	8.013324
1.389429	6.395458	8.0221135	2.0510121	8.031079
1.416145	6.413968	8.0225587	2.053153	8.043489
1.442865	6.375472	8.0225640	2.034253	8.025228
1.445522	6.367367	8.0233852	1.0922664	8.059254
1.456378	6.221134	8.0238145	1.035428	8.026981
1.523428	6.247875	8.0242357	1.036116	8.223312
1.545972	6.244468	8.0246652	1.0530239	8.0220533
1.576468	6.295599	8.0252503	1.0622858	8.011222
1.603188	6.312410	8.0255158	1.0521811	8.019329

THE SPECTRAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 81 1.0E5151
 ZEROTH ELEMENT = 6.07831
 SECOND ELEMENT = 0.022873
 THIRD ELEMENT = 0.70886
 ENCLASERS FACTOR (EGRT(1+R*P*P*P/(P*P*P))) = 8.62450

SIGNIFICANT WAVE HEIGHT, H1/31
 4.80E-05 = 0.16196
 6.80E-05*EGRT(1+R*P*P*P/(P*P*P)) = 2.72922

TABLE 15

TEST 318 EOC C15FL

REAL PEAK = 2154.67184 CTS
INTEGER PEAK = 2154 CTS
RPS VALUE 1.17332 PHYSICAL UNITS

-32-

STANT SLEAFCLTIN~~E~~ SPECTR FCR

TEST 31B P-1 CIEFL

```

VELOCITY = 2.00000 FFS
LACS = 6P
SPECTRAL LINES = (PHYSICAL LENGTH) * 10^2 SEC
SAFPLNG RATE = 1.5E555

```

4.528473	2.544468	6.144588	1.502641	-0.123570
4.932153	1.755406	6.148841	11.282872	-0.556597
4.561513	2.555267	6.153293	6.283444	1.122292
4.588652	2.882757	6.157346	5.534213	0.043482
1.815352	2.555553	6.161758	6.214823	-0.671342
1.042672	1.221412	6.165551	6.051326	-0.005193
1.026871	1.277211	6.170103	8.028723	0.263052
1.255551	1.051253	6.174356	6.555646	0.034223
1.122231	0.555722	6.178625	6.262579	0.042592
1.014552	0.746145	6.182261	4.088115	0.005066
1.175571	0.565323	6.187114	3.577164	-0.121939
1.202351	0.555584	6.191566	3.223151	-0.008374
1.225111	0.492251	6.195615	8.028510	0.134622
1.255539	0.416748	6.205872	6.118482	0.022815
1.222259	0.412660	6.207434	2.552216	-0.035935
1.305270	0.435216	6.208377	8.732518	0.005120
1.335552	0.415922	6.212625	6.032759	0.018469
1.367725	0.349547	6.216882	8.142234	0.032443
1.385425	0.252645	6.221125	1.040224	-0.009944
1.416145	0.277764	6.222537	1.745F65	-0.005015
1.442265	0.244211	6.225649	1.055555	0.027544
1.464958	0.228822	6.233382	1.028415	0.092424
1.455638	0.222203	6.238145	1.772855	-0.937775
1.452392	0.222203	6.242257	1.0446451	-0.254522
1.545477	0.224554	6.244669	1.073747	0.008320
1.576448	0.231615	6.220503	1.048667	0.927265
1.602388	0.228488	6.222125	1.0561879	-0.048127

THE EFFECTIVE MOMENTS WERE COMPUTED
LEAVING A HIGH FREQUENCY TRUNCATION

AT 81 104831

ZERCH REPRINT • 1-37669

SECRET PARENT • 1986

FOLATE DEFICIENCY 3.011
B-12 DEFICIENCY 1.000000000

ENCAUSTIC CANDLE (EGAT110R)

SIGNIFICANT HAVE-NOT GENE

44-86745 -

4-8 MARCH EIGHTY-EIGHT

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TABLE 16

7-318 BAND

REAL PEAK = 7224.7212 CYCLES
INTEGER PEAK = 7500 CYCLES
APE VALUE = 1.88242 PHYSICAL UNITS

-33-

START SLEWING SPECTRA FOR

12 MARCH

VELOCITY = 8.0000E-00
 LAGS = 60
 SPECTRAL UNITS = (PHYSICAL UNITS) * 1.0000E-00
 SAMPLING RATE = 1.0000E-00

CHECA	S(CHECA)	FREQUENCY	S(IFREC)	AUTOCORR
K+0000000	0+0100000	0+0000000	15+1464689	-0+421478
K-0226728	1+055732	0+0000000	18+045129	-0+992262
X+0053448	0+741255	0+0000000	4+657441	-0+852232
X+0000000	0+0000000	0+0000000	0+0000000	0+0000000
K-1335555	0+621414	0+0000000	3+584462	-0+367677
K+1683115	0+7254527	0+0000000	4+743223	-0+095480
K+1878355	0+528765	0+0000000	5+858459	0+337126
K+2137578	0+572030	0+0000000	5+667624	0+081122
K+2448478	0+664474	0+0000000	4+000147	-0+297781
K+0071558	0+526612	0+0000000	3+000758	0+073613
K+0555118	0+574738	0+0000000	3+611188	0+181834
K+3285118	0+702454	0+0000000	4+415534	0+225186
K+3473257	0+775418	0+0000000	4+872053	0+016737
K+3746277	0+666055	0+0000000	4+310059	0+011007
K+0007575	0+505251	0+0000000	3+477549	0+149260
K+4275137	0+604424	0+0000000	3+181556	0+075473
K+4454537	0+540227	0+0000000	3+354267	-0+049378
K+4485556	0+570262	0+0000000	3+613267	0+292653
K+0072726	0+587293	0+0000000	3+375556	0+266962
K+5243556	0+592525	0+0000000	3+200003	-0+017758
K+5611116	0+557265	0+0000000	3+375587	-0+022798
K+5878216	0+524464	0+0000000	3+674209	0+020556
K+6145555	0+665938	0+0000000	4+025555	0+144511
K+6412755	0+661207	0+0000000	5+034134	0+085114
K+6667552	1+026582	0+0000000	7+075524	0+019327
K+6564715	1+065545	0+0000000	18+026437	0+155837
K+721454	1+0824355	0+0000000	11+0462785	-0+086787
K+7481554	1+0644582	0+0000000	10+3357534	0+095396
K+7746274	2+011803	0+0000000	14+152479	0+231165
K+8001554	3+0652854	0+0000000	23+283149	-0+214395
K+8226314	4+052137	0+0000000	28+759421	0+254632
K+8226224	4+0226284	0+0000000	25+725520	0+306652
K+881753	5+0487895	0+0000000	34+481451	-0+058521

E+5EF473	E+7120337	E+144E88	E+875105	E+124817
E+52B152	E+434E25	E+14E841	E+862561	E+171414
E+561512	E+44E4556	E+153093	E+88E644	E+222634
E+588232	E+537288	E+157346	E+306659	E+21E098
E+61E352	E+633771	E+161658	E+422157	E+868268
E+642872	E+655702	E+16481	E+752511	E+191159
E+68751	E+523313	E+170303	E+707443	E+071551
E+655E11	E+257525	E+174356	E+004654	E+221264
E+122221	E+675548	E+178665	E+375516	E+956867
E+148522	E+337278	E+182861	E+655555	E+018126
E+175671	E+655340	E+187114	E+1417175	E+0P3860
E+192351	E+647615	E+115166	E+193372	E+0P5171
E+225111	E+722174	E+156619	E+612247	E+046817
E+226E30	E+324558	E+155872	E+666448	E+041424
E+262550	E+621463	E+204184	E+515121	E+0P749
E+285279	E+642077	E+118377	E+578E21	E+021427
E+325550	E+768602	E+162625	E+355645	E+116582
E+361785	E+645378	E+161682	E+655725	E+0P8479
E+385425	E+163358	E+221138	E+611844	E+0P3425
E+416145	E+877288	E+225387	E+605185	E+072951
E+44FEE5	E+756135	E+259648	E+285472	E+052032
E+466EE8	E+682776	E+233852	E+544275	E+057738
E+486208	E+648884	E+231348	E+360249	E+097951
E+521822	E+658492	E+232397	E+276153	E+0P6365
E+545747	E+322603	E+246669	E+623663	E+062466
E+576466	E+187556	E+270083	E+687118	E+013098
E+603186	E+645198	E+252188	E+657182	E+113768

THE EFFECTIVE MOMENTS WERE COMPUTED
USING A HIGH FREQUENCY TRUNCATION

AT 51 10483151

EFFECTS OF CPERAS = 342148

EXCCAE REPORT •

FLAT & PAPER

BREWERES FACTOR WEIGHTS = 12000

DATA MANAGEMENT AND ANALYSIS

1.49453

SIGNIFICANT FLIGHTS, 1931

4-6-475 • 7-48570

4.8000E+0087(3.000E+008/3.00)

0053758

TABLE 17

TEST 318 NAVLEE

REAL PEAK = 4767.15625CTE
 INTEGER PEAK = 4767 CTS
 RMS VALUE = 1.06127 PHYSICAL UNITS

-34-

STANT ELECTRICAL EFFECTS FOR

TEST 318 NAVLEE

VELOCITY = 0.00000 FFS
 LAGS = 60
 SPECTRAL UNITS = (PHYSICAL UNITS) * 10⁻² EEC
 SAMPLING RATE = 1.055555

CMECA	S(CMECA)	FREQUENCY	S(FREQ)	AUTOCOR
E+000000	2.044128	0.000000	1.000000	1.000000
E+000022	1.046744	0.004222	0.000000	0.000000
E+000044	0.535581	0.008444	0.000000	0.000000
E+000075	0.498229	0.015975	0.000000	0.000000
E+000100	0.322653	0.021263	0.000000	0.000000
E+000125	0.242278	0.022278	0.000000	0.000000
E+000150	0.194644	0.025768	0.000000	0.000000
E+000175	0.166864	0.030462	0.000000	0.000000
E+000200	0.140478	0.032273	0.000000	0.000000
E+000225	0.120623	0.042526	0.000000	0.000000
E+000250	0.105596	0.047778	0.000000	0.000000
E+000275	0.092622	0.051031	0.000000	0.000000
E+000300	0.082643	0.055284	0.000000	0.000000
E+000325	0.074705	0.055536	0.000000	0.000000
E+000350	0.064487	0.062785	0.000000	0.000000
E+000375	0.052737	0.068491	0.000000	0.000000
E+000400	0.045854	0.072254	0.000000	0.000000
E+000425	0.037645	0.076457	0.000000	0.000000
E+000450	0.031344	0.076547	0.000000	0.000000
E+000475	0.027146	0.080755	0.000000	0.000000
E+000500	0.023159	0.085252	0.000000	0.000000
E+000525	0.019611	0.085324	0.000000	0.000000
E+000550	0.016283	0.095557	0.000000	0.000000
E+000575	0.014555	0.105785	0.000000	0.000000
E+000600	0.013155	0.110567	0.000000	0.000000
E+000625	0.012134	0.114620	0.000000	0.000000
E+000650	0.011187	0.115072	0.000000	0.000000
E+000675	0.010345	0.123325	0.000000	0.000000
E+000700	1.077154	0.127578	0.000000	0.000000
E+000725	1.056511	0.131630	0.000000	0.000000
E+000750	1.046435	0.136083	0.000000	0.000000
E+000775	1.032414	0.140235	0.000000	0.000000

E+000795	3.027258	0.144528	21.054223	-0.022995
E+000813	2.046148	0.148843	15.957867	0.043647
E+000833	1.063518	0.153393	11.078827	0.128126
E+000852	1.050158	0.157246	5.014248	0.254508
E+000872	1.036648	0.161558	5.022027	0.027117
E+000892	1.024748	0.165851	7.038813	0.024262
E+000912	1.017852	0.170123	5.055288	0.078963
E+000931	0.984285	0.174256	5.055779	0.017513
E+000951	0.957167	0.176625	6.076850	-0.023012
E+000971	1.025635	0.182261	6.044283	0.045292
E+000991	0.988615	0.187114	5.000675	0.054952
E+001011	0.957842	0.191366	3.018035	-0.026963
E+001031	0.926733	0.195610	2.016817	0.029755
E+001050	0.904552	0.195872	2.027569	0.079688
E+001070	0.874562	0.198412	1.016120	0.011755
E+001090	0.841033	0.202577	1.053021	0.003760
E+001110	0.808232	0.212625	2.041586	0.055506
E+001130	0.764835	0.211088	3.017155	0.015791
E+001150	0.736734	0.211135	2.008852	-0.014533
E+001170	0.705385	0.227557	1.071115	0.073028
E+001190	0.673760	0.225540	1.051411	0.055718
E+001210	0.646588	0.233585	1.068885	0.004616
E+001230	0.617148	0.238145	1.077478	0.012739
E+001250	0.584534	0.242257	0.038838	0.052914
E+001270	0.553751	0.244650	1.028876	0.057874
E+001290	0.514786	0.250593	0.052251	-0.001685
E+001310	0.484738	0.255155	0.052448	-0.004200

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT SI = 1.043151

ZEROTH MOMENT = 1.018638
 SECOND MOMENT = 0.511553
 FOURTH MOMENT = 1.063326
 ENCLOSURE FACTOR (SIGMA(1+E+F2+E2/(F2+F4))) = 2.052996

SIGNIFICANT WAVE HEIGHT H(1/3)
 4*H(1/3) = 4*4.6888
 4*H(1/3)*SIGMA(1+E+F2+E2/(F2+F4)) = 3.50714

TABLE 18

TEST 415 B-D DISPL

REAL MEAN = 3161.532E2CTE
 INTEGER PEAK = 3162 CTE
 RMS VALUE = 1.53586 PHYSICAL UNITS

C TEST 415 B-D DISPL

START SPECTRUM SPECTR FOR

TEST 415 B-D DISPL

-35-

VELOCITY = 2.00000 FPS
 LAGE = 0⁰
 SPECTRAL UNITS = (PHYSICAL UNITS)*2.00E0
 SAMPLING RATE = 1.55559

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.0002000	0.5549000	0.0002000	3.0737514	2.0371173
0.0002700	0.4656204	0.0002700	2.0500732	2.00867261
0.0003400	0.2815103	0.0003400	1.0768750	2.00854342
0.0004105	0.2108504	0.0004105	1.0325006	1.0311237
0.0004875	0.2273503	0.0004875	1.0285000	0.0356470
0.0005550	0.2763305	0.0005550	1.0736209	0.0570966
0.0006215	0.3326206	0.0006215	2.0651219	0.0505312
0.0006875	0.3447305	0.0006875	2.0166201	0.064264
0.0007535	0.2568105	0.0007535	-1.064571	0.0204175
0.0008198	0.2630203	0.0008198	1.0585709	0.072549
0.0008818	0.2285605	0.0008818	1.0536113	0.129168
0.0009478	0.2886506	0.0009478	1.0311274	0.0125947
0.0010138	0.2654605	0.0010138	1.0316105	0.066616
0.0010797	0.3473507	0.0010797	1.0456706	0.116705
0.0011457	0.2318402	0.0011457	2.0705706	0.024666
0.0012117	0.37405112	0.0012117	0.0555006	0.005767
0.0012777	0.2763002	0.0012777	0.0543321	0.0786066
0.0013437	0.4064603	0.0013437	4.0113243	0.0406889
0.0014097	0.2666905	0.0014097	2.0527108	0.0237952
0.0014756	0.2425606	0.0014756	1.0524057	0.033785
0.0015416	0.3014444	0.0015416	1.0540229	0.042978
0.0016075	0.3245405	0.0016075	1.0513535	0.025376
0.0016735	0.5611106	0.0016735	1.012751	0.058228
0.0017395	0.2650206	0.0017395	1.0503551	0.025376
0.0018055	0.2767504	0.0018055	1.0751463	0.026553
0.0018715	0.2343306	0.0018715	1.0725105	0.031427
0.0019375	0.2476405	0.0019375	1.0566026	0.133129
0.0020035	0.3154715	0.0020035	1.0112567	2.028541
0.0020695	0.3193375	0.0020695	3.0359845	0.022081
0.0021355	0.2748154	0.0021355	0.0115672	0.174470
0.0021914	0.1528254	0.0021914	0.0123325	0.275683
0.0022574	0.1414665	0.0022574	0.0127578	0.104697
0.0023234	0.1455521	0.0023234	0.0131130	0.286780
0.0023894	0.0322603	0.0023894	0.0136680	0.381645
0.0024554	0.0817503	0.0024554	0.0140335	0.188427

0.928473	3.550264	0.144588	88.306961	0.211709
0.935153	5.027540	0.148841	31.551476	0.389571
0.561513	5.728240	0.153053	75.551552	0.158597
0.588632	4.572083	0.157356	31.240524	0.126536
1.015362	5.455546	0.151558	34.068820	0.158597
1.042072	6.058553	0.165681	43.347357	0.100019
1.068751	5.664014	0.172163	36.067657	0.027147
1.255511	3.677364	0.174256	23.025560	0.040658
1.122231	4.011952	0.176625	25.200004	0.014810
1.148952	4.521648	0.182261	38.523630	0.023926
1.175671	3.0407120	0.187114	21.510217	0.012519
1.222351	2.227714	0.191346	14.374130	0.035157
1.225111	2.562164	0.155615	17.583505	0.014046
1.255530	2.756128	0.195872	17.566588	0.084066
1.282250	1.058563	0.204124	18.021056	0.045031
1.319270	1.114880	0.208377	7.024554	0.023176
1.335950	1.087296	0.212275	6.031679	0.059559
1.362705	0.524116	0.216882	5.026405	0.014132
1.385425	0.456585	0.221135	4.0376271	0.120074
1.416145	0.575097	0.222387	3.013442	0.107247
1.442865	0.551391	0.225648	3.0338829	0.088278
1.469585	0.4409583	0.2303852	3.022102	0.131386
1.496308	0.5071113	0.2381445	3.0186227	0.064189
1.523028	0.547885	0.242337	3.0442461	0.142011
1.545747	0.515288	0.244660	3.0237647	0.088288
1.576468	0.4958496	0.257585	3.0488814	0.003558
1.603168	0.423447	0.255155	3.0666054	0.283364

THE SPECTRAL MOMENTS WERE COMPUTED

USING A HIGH FREQUENCY THRESHOLD

AT EI = 1.003191

ZEROTH MOMENT = 2.037117

SECOND MOMENT = 2.07231

FOURTH MOMENT = 3.031786

MOMENT FACTOR (EGRT(1+EI*EI*EI*EI)) =

0.39868

SIGNIFICANT WAVE HEIGHT, H(1/3)

4.024HPS = 0.15948

4.024HPS*EGRT(1+EI*EI*EI*EI) =

0.958563

TABLE 19

TEST 410 NAVINIC

REAL PEAK = 12354.18537CTS
 INTEGER PEAK = 12354 CTS
 RMS VALUE = 1.41256 PHYSICAL UNITS

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STANT SPECTRUM SPECTRUM FOR

TEST 410 NAVINIC

VELOCITIY = 0.00000 FPS
 LAGE = EP
 SPECTRAL UNITS = (PHYSICAL UNITS)**2*SEC
 SAMPLING RATE = 1.55559

OMEGA	S(OMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.6882220	0.562431	0.000000	0.657574	0.996452
0.6267240	0.459515	0.004253	0.355569	0.712348
0.6534420	0.464288	0.008855	0.53488	0.112528
0.6821150	0.51769	0.012758	0.222252	0.314791
0.7166875	0.672413	0.017218	0.411535	0.058435
0.7433555	0.872276	0.021263	0.516365	0.012313
0.7663150	0.756777	0.025516	0.182838	0.777785
0.7874250	0.618666	0.025768	0.158626	0.015039
0.8137550	0.744661	0.025421	0.055478	0.251025
0.8248478	0.56513	0.023827	0.176269	0.244798
0.8267158	0.37362	0.024256	0.438868	0.202344
0.8253518	0.312763	0.024678	0.565271	0.259567
0.8328628	0.328762	0.025103	0.215428	0.253818
0.8347357	0.363598	0.025524	0.102216	0.213667
0.8374677	0.461216	0.025536	0.857587	0.222268
0.8422757	0.521285	0.026378	0.149165	0.005617
0.8427517	0.515745	0.026841	0.242548	0.025657
0.8454237	0.545781	0.027225	0.263247	0.228662
0.8488556	0.466853	0.027647	0.533327	0.044543
0.85287676	0.520664	0.028775	0.446617	0.051588
0.8534356	0.354738	0.028502	0.225887	0.000194
0.8561116	0.376893	0.028534	0.366827	0.000580
0.8587826	0.475518	0.029357	0.575558	0.032312
0.8614555	0.528797	0.029785	0.156866	0.017643
0.8641275	0.665528	0.030262	0.252788	0.021474
0.8667555	0.661252	0.030631	0.411641	0.038217
0.8694715	0.845647	0.031047	0.313356	0.033151
0.8721454	0.623393	0.031488	0.516851	0.023282
0.8748154	0.667452	0.031507	0.816755	0.058149
0.8774874	0.864446	0.031325	0.456669	0.0242675
0.8821554	1.031547	0.031757	0.031514	0.009635
0.8828514	0.575148	0.031857	0.126586	0.228554
0.8855034	0.528116	0.032603	0.821522	0.268711
0.8881752	1.024745	0.034035	0.884354	

0.508473	1.369978	0.144528	0.551277	0.037985
0.5351513	1.556510	0.148841	0.233664	0.17683
0.5619153	1.576236	0.153053	0.577232	0.009445
0.5886352	1.576521	0.157346	0.451258	0.029912
0.6153552	2.121148	0.161558	0.350359	0.25877
0.6422872	0.366993	0.165551	0.824558	0.001253
0.6687551	0.147215	0.172103	0.463278	0.037687
0.6955511	1.855447	0.174556	0.851877	0.012773
0.7122231	0.855297	0.178665	0.159858	0.0002846
0.7164552	0.346464	0.182281	0.755830	0.039831
0.7175671	0.252878	0.187114	0.156455	0.026829
0.7222351	0.825415	0.191966	0.814224	0.023463
0.7251111	0.671815	0.195515	0.177554	0.247453
0.7555832	0.245795	0.195878	0.125878	0.011667
0.7825560	0.255928	0.204124	0.185579	0.018753
0.8258707	1.003577	0.208877	0.824665	0.133065
0.8355552	0.462175	0.212629	0.577045	0.028695
0.8362705	0.217336	0.216882	0.336572	0.001489
0.8385425	0.146942	0.221135	0.451532	0.013584
0.8416145	1.867583	0.225587	0.865549	0.033469
0.8442865	1.512251	0.225848	0.864634	0.000734
0.8465568	0.416468	0.233852	0.732676	0.036088
0.8496328	1.546315	0.238145	0.252556	0.048237
0.8523028	1.521284	0.242357	0.071781	0.007651
0.8545747	1.510222	0.246678	0.252421	0.038136
0.8576468	1.726767	0.252503	0.845554	0.003969
0.8603188	1.0585052	0.255155	0.564389	0.034975

THE SPECTRAL COHERENCIES WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 81 (1.47315)
 ZEROTH MOMENT = 1.55648
 SECOND MOMENT = 0.494083
 RELATED MOMENT = 0.426876
 ENCLOSURE FACTOR (EIGHTH(1+K**2)**2/(PE+PE1)) = 0.51579

SIGNIFICANT WAVE HEIGHT, H1/3
 4.00HPS = 0.65184
 4.00HPS*EIGHTH(1+K**2)**2/(PE+PE1) = 0.22653

TABLE 20

TEST #15 KAWLEY

REAL MEAN = 12557.83516CTS
 INTEGER MEAN = 12557 CTS
 RME VALUE = 8.51657 PHYSICAL LN276

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START ELECTRICAL SPECTRUM FOR

TEST #15 KAWLEY

VELOCITY = 8.22222 FPS
 LAGS = 6P
 SPECTRAL UNITS = (PHYSICAL UNITS) * 8.00000
 SAMPLING RATE = 1.00000

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCORR
8.000000	5.000000	0.000000	56.610577	0.840832
8.0226722	4.771538	0.204253	25.582408	0.164523
8.0453442	4.484847	0.208595	3.010591	0.156133
8.0680155	4.1445757	0.212755	2.825594	0.360715
8.0907875	3.8454105	0.217016	2.855348	0.259106
8.1135595	3.5426208	0.221263	2.677544	0.286448
8.1363315	3.2355185	0.225516	2.588178	0.264551
8.1591035	2.9332041	0.229768	2.123572	0.271478
8.1818755	2.6265855	0.234021	1.670415	0.195524
8.2046478	2.3223270	0.238273	1.402847	0.243366
8.2274158	2.0187066	0.242526	1.175585	0.237216
8.2501858	1.7105588	0.246778	1.011118	0.211772
8.2729528	1.40178265	0.251031	1.065885	0.212251
8.3473577	1.0944857	0.255228	1.312288	0.193608
8.3701277	1.0447665	0.255526	1.557284	0.269141
8.4022757	0.8255441	0.263785	1.632115	0.218766
8.4247517	0.7250552	0.268041	1.576782	0.236771
8.4462637	0.6232555	0.272524	1.463701	0.254474
8.4680566	0.5220253	0.276647	1.266458	0.222224
8.4907676	0.4183598	0.282795	1.155531	0.248259
8.5135566	0.315532	0.285252	1.227278	0.196728
8.5361116	0.2122135	0.285524	1.270058	0.261887
8.5578366	0.215403	0.285557	1.352416	0.215588
8.5814555	0.2244381	0.287825	1.535451	0.246568
8.6041275	0.2285645	0.292066	1.819519	0.252014
8.6267955	0.2348371	0.296315	2.188880	0.255388
8.6484715	0.2336411	0.297567	2.116735	0.178322
8.6721434	0.2257654	0.311822	1.615148	0.227051
8.7448154	0.2440234	0.315872	1.539593	0.276544
8.7774874	0.226573	0.323226	2.054429	0.193851
8.8001554	0.2362361	0.327578	2.355358	0.226642
8.8228214	0.2365188	0.331832	2.315123	0.244296
8.8455234	0.2356162	0.336223	2.237722	0.275311
8.8681753	0.2351584	0.340356	3.340838	0.248559

8.0528473	0.8872225	0.144588	0.870064	0.207776
8.0535153	0.755755	0.148241	4.955875	0.235071
8.0561513	0.6522536	0.153052	3.574335	0.236487
8.0588622	0.576668	0.157346	3.624510	0.213859
8.0615352	0.671846	0.161558	4.221232	0.235975
8.0642272	0.756202	0.165851	4.556351	0.224688
8.0667511	0.7020126	0.170103	4.398655	0.225440
8.0755111	0.471618	0.174356	2.963261	0.209375
8.1222311	0.457128	0.176605	2.672211	0.243332
8.148952	0.418125	0.182661	3.683753	0.225428
8.175671	0.555685	0.187114	3.742221	0.196718
8.2022351	0.411682	0.191366	2.586679	0.246431
8.2251111	0.2920253	0.195615	1.835223	0.209996
8.2558338	0.310154	0.195872	1.548628	0.229227
8.2825568	0.327064	0.208124	2.055061	0.200991
8.3055770	0.327428	0.208377	1.931568	0.231910
8.3355958	0.473268	0.212625	2.572314	0.224238
8.3627055	0.464124	0.216882	4.027812	0.200716
8.3854285	0.333677	0.221135	3.353154	0.216485
8.4161345	0.3242458	0.225367	2.493217	0.243238
8.4462865	0.253694	0.225648	1.845333	0.206771
8.4655788	0.215202	0.233852	1.677200	0.199335
8.495328	0.276288	0.238145	1.742278	0.236677
8.523628	0.335356	0.242357	2.107352	0.218992
8.545747	0.385668	0.246658	2.259435	0.297367
8.576468	0.316151	0.250982	1.955561	0.266439
8.603188	0.264392	0.255155	3.661227	0.236686

THE EFFECTUAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 51 FREQUENCIES
 ZERO TH MOMENT = 0.848683
 SECOND MOMENT = 0.570449
 FCLRT MOMENT = 0.847222
 BACKNERS FACTOR (EIGHTH+P+FIVE+ELEVEN) = 0.797272
 SIGNIFICANT WAVE HEIGHTS H(1/3)
 H(1/3)WPS = 3.116722
 4.164545=EGRT(1+P+FCLRT/2+P+FCLRT/2) = 3.12833

TABLE 21

TEST #12 E+C CISFL

REAL PEAK = 2115.67553CTE
 INTEGER PEAK = 2616 CTE
 RMS VALUE = 6.58183 PHYSICAL UNITS

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START SPECTRUM SPECTR FOR
 TEST #12 E+C CISFL

VELOCITY = 6.00000 FFS
 LAKE = EP
 SPECTRAL UNITS = (PHYSICAL UNITS)10^-6*EEC
 SAMPLING RATE = 1.5E559

CMEGA	S(CMEGA)	FREQUENCY	S(FREQ)	AUTOCCR
6.0000000	6.576997	6.0000000	3.212525	-0.665529
6.026728	6.511122	6.024223	3.212525	-0.867322
6.053448	6.456724	6.055555	2.744224	-0.877769
6.080155	6.400625	6.081758	2.553838	3.66749
6.106875	6.337326	6.107010	2.346028	0.915749
6.133555	6.287233	6.132126	2.436529	-0.875583
6.160235	6.242174	6.165516	2.652216	0.53255
6.186915	6.205573	6.185766	2.682275	1.522234
6.213595	6.337157	6.234221	2.118422	-0.654893
6.240275	6.385305	6.253273	1.518266	-0.626687
6.267155	6.267810	6.264226	1.888366	0.449981
6.293915	6.346685	6.266778	2.175544	0.383422
6.320635	6.473571	6.305183	2.578045	-0.323521
6.347357	6.446705	6.355284	4.063355	-0.374760
6.374077	6.551195	6.255536	6.226518	0.224693
6.400757	1.156451	6.0000000	7.517776	0.147516
6.427517	6.525157	6.0000000	5.876215	-0.24199
6.454237	6.554204	6.072254	3.733454	0.201393
6.480956	6.585554	6.076547	3.178372	0.186747
6.507676	6.556102	6.200755	3.125045	-0.493742
6.534356	6.770221	6.0000000	4.841556	0.122710
6.561116	6.557100	6.015304	6.264967	0.391496
6.587836	1.021563	6.0000000	6.121325	-0.513495
6.614555	6.553135	6.057405	6.242278	-0.192258
6.641275	1.025800	6.102062	6.470523	0.237376
6.667555	1.262551	6.106315	7.935354	-0.225172
6.694715	1.324416	6.110567	8.155576	-0.832245
6.721434	1.188554	6.114820	7.470224	0.776594
6.748154	2.123552	6.115272	13.345027	0.322620
6.775874	4.554059	6.123325	31.127518	-1.102254
6.802554	6.428513	6.127748	62.504115	0.549520
6.829234	11.515315	6.131830	72.322855	0.631324
6.855934	14.366705	6.136203	58.226425	-1.258160
6.882753	15.322204	6.140335	56.277527	0.323135

6.508473	12.746048	6.144588	117.784882	0.768658
6.535153	25.024574	6.148841	157.112886	-0.872647
6.561513	21.546884	6.151053	137.856332	-0.822574
6.586632	13.127558	6.157346	82.493124	0.61229
6.613352	12.627288	6.16118	77.116547	-0.395884
6.640272	17.135574	6.165851	107.665585	-0.193519
6.667515	15.855785	6.178103	55.591251	0.173358
6.694511	5.466833	6.174556	55.007529	0.232223
6.122231	7.555437	6.178125	47.746672	-0.136736
6.149552	6.018525	6.182861	58.381882	-0.236668
6.176673	5.665557	6.187114	54.557072	0.239727
6.202351	2.022195	6.191366	15.177536	0.189587
6.229111	2.573382	6.195615	18.688257	-0.281465
6.255930	2.750284	6.195972	17.224129	-0.213549
6.282750	1.767073	6.084124	11.102844	0.329389
6.309570	1.471871	6.205377	5.245848	-0.106762
6.336350	1.616783	6.212229	7.856557	-0.375618
6.363270	8.576670	6.216882	6.136558	0.362737
6.389925	6.513744	6.221135	6.741221	0.188642
6.416645	6.776352	6.225787	4.757367	-0.167696
6.443465	6.554063	6.225548	3.481981	0.132177
6.465558	6.454572	6.231852	3.107666	0.264109
6.485308	6.462224	6.238145	2.504188	-0.346047
6.502328	6.275587	6.242257	2.037256	0.081312
6.545747	6.403188	6.246690	2.533255	0.892419
6.576168	6.581201	6.250502	3.016521	-0.225208
6.603188	6.609631	6.258135	3.016521	-0.021008

THE SPECTRAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 51 1.493151

ZENITH MOMENT = 6.66884
 EQUATORIAL MOMENT = 6.32490
 ELLIPTIC MOMENT = 6.68887
 EQUATORIAL MOMENT (IGHTMIS+P-PHASE*2*(PREPHM)) = 6.38333

EQUATORIAL ANGULAR MOMENT = 18.522731
 EQUATORIAL FREQUENCY (1.493151*PHASE*2*PI/2) = 5.55589

TABLE 22

1857 935 888785

REAL PEAK = 1188P+382AITS
INTEGER PEAK = 1188P CTS
HPE VALUE = 1.55483 PHYSICAL UNITS

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START SLEEPING SEESTR FCB

TLET 938 884718

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VELCCITY = 0.00000 FPS
LALS = 60
SPECTRAL UNITS = (PHYSICAL LENGTH) * 2.0 SEC
SAMPLE RATE = 1.0 SECS

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CHEGA	S(CHEGA)	FREQUENCY	S(FREQUENCY)	AUTOCORR
E+0072000	1+004655	0+000000	1+000000	-0.792300
E+0067200	1+010388	0+000000	1+000000	-0.1272728
E+0053440	0+0571816	0+000000	3+052000	-0.265589
E+0060155	0+0520285	0+0112758	3+065077	0.184700
E+0166875	0+0520008	0+0170010	3+0521575	0.177112
E+1335555	0+0572283	0+0012663	3+0600045	-0.206688
E+1600315	0+0522605	0+0050516	2+0230449	0.185553
E+1870355	0+0553004	0+0250766	3+000002	0.253768
E+2137525	0+0434985	0+0340021	2+0730116	0.115374
E+2440478	0+0347108	0+0380073	2+0510143	-0.098322
E+2671518	0+0372543	0+0400226	2+0450555	0.022460
E+293518	0+0471222	0+0460778	2+0630009	0.065216
E+3200578	0+0470216	0+0510031	2+0030126	0.088160
E+3472527	0+0347258	0+0550284	2+1810055	-0.043688
E+3740777	0+0251107	0+0550536	1+0540213	0.044438
E+4009757	0+0300535	0+0600078	2+0760555	0.029465
E+427517	0+0357041	0+0660041	2+0430356	0.070085
E+454227	0+0357668	0+0700254	2+0580584	-0.055191
E+480556	0+0358889	0+0760547	2+0040425	0.093516
E+507676	0+0367303	0+0800755	2+0000154	0.103774
E+534355	0+0540666	0+0850088	3+0350728	-0.052774
E+5611116	0+0764558	0+0150304	4+0000010	0.132174
E+5878126	0+0741324	0+0950357	4+0300000	0.005742
E+614555	0+0812666	0+0570000	5+0100000	0.062275
E+641275	1+0022070	0+0100000	6+052271	0.062200
E+667955	1+0345456	0+1000000	6+0540001	0.003300
E+6957115	2+0123004	0+1100000	10+0300000	-0.018261
E+721434	2+0516007	0+1140000	15+0000000	0.084267
E+7481554	2+018755	0+1150000	10+0000000	0.129677
E+7746579	3+0310380	0+1330000	2+0172225	0.084316
E+8015554	4+0163050	0+1270000	40+0520001	-0.112392
E+8282114	4+0516262	0+1310000	31+0570004	0.009784
E+8555532	4+0547205	0+1260000	31+0844229	0.263528
E+8812753	5+0165555	0+1000000	35+0780555	-0.086664

1-588473	6-155362	8-144888	28-874783	9-998386
1-535353	6-355811	8-148841	23-337287	9-182589
1-561513	4-755822	8-152052	28-100448	9-051599
1-588652	8-255661	8-157346	28-733281	9-036679
1-015352	8-450471	8-161858	34-646823	9-036420
1-042272	5-612635	8-16175	21-677011	9-055594
1-068751	4-725545	8-170102	25-542887	9-082526
1-055511	4-681538	8-174356	28-166515	9-027774
1-122231	4-323492	8-178005	27-288145	9-055925
1-148582	3-087270	8-182861	24-448445	9-027583
1-175571	4-012475	8-187114	26-216431	9-033523
1-222351	4-615978	8-151366	28-345819	9-034715
1-225111	4-621366	8-155615	26-072301	9-071189
1-255830	3-667058	8-159572	22-667149	9-059186
1-282250	3-315516	8-204184	28-857122	9-085772
1-305270	3-240412	8-208377	28-360179	9-130456
1-322550	3-121558	8-212665	15-487610	9-069711
1-332705	3-022411	8-216682	28-115504	9-051491
1-386445	3-002152	8-231132	18-866470	9-053763
1-416145	2-877152	8-265387	14-332675	9-095570
1-442845	1-712526	8-285540	18-766655	9-110866
1-465588	1-944001	8-312352	5-056815	9-0281435
1-485438	1-451165	8-330145	5-0357411	9-081523
1-515392	1-111001	8-341152	5-0357785	9-017795
1-545742	1-044631	8-344663	5-035566	9-000144
1-727418	1-000000	8-355662	1-000000	9-165782

THE SPECTRAL PICTURES WERE COMPLETED
LEAVING A HIGH FREQUENCY TRUNCATION
AT 81 HERTZ.

ZENTR. RECHT. 3-29831

~~GENERAL PAYMENT~~ ~~GENERAL PAYMENT~~

FOLIATE PERCENT &

REGRESSION FACTOR ISCH(1+PTE+PES+PPO+PDI) =

FOOTBALL

SIGNIFICANT HAVE WEIGHTS > 1/3

ALBONAPROGHT (S-0-F-A-K-E-B-E-R-O-U-S-H-E-P) •

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— 1 —

TABLE 23

TEST 918 NAVLE

REAL MEAN = 0.0000000000000000E+0000
 INTEGER MEAN = 0.0000000000000000E+0000
 RMS VALUE = 1.17551 PHYSICAL UNITS

-40-

START SPECTRUM SPECTRUM FOR

TEST 918 NAVLE

VELOCITY = 0.00000 FFE
 LAGE = 0.0
 SPECTRAL UNITS = (PHYSICAL UNITS)0.0000000000000000E+0000
 SAMPLING RATE = 1.0E-005

CHECA	SICHECA	FREQUENCY	SIFREQ1	AUTOCOR
0.0000000	5.164767	0.0000000	85.554643	1.391243
0.122728	4.1573768	0.0000000	31.291053	0.288236
0.1502448	6.1567445	0.0000000	5.386726	0.223064
0.1881598	0.205738	0.0000000	1.546613	0.674926
0.2268728	0.2220064	0.0000000	2.023710	0.446105
0.2653558	0.226381	0.0000000	1.610000	0.259272
0.3044288	0.220142	0.0000000	1.446620	0.193041
0.3437357	0.235734	0.0000000	1.586255	0.427560
0.3837678	0.206887	0.0000000	1.155511	0.213537
0.4249728	0.174956	0.0000000	1.053875	0.897481
0.4631588	0.164668	0.0000000	1.034766	0.347116
0.5023518	0.175346	0.0000000	1.101733	0.364646
0.5414548	0.151547	0.0000000	1.200041	0.114694
0.5805568	0.175677	0.0000000	1.102556	0.199221
0.6197676	0.166886	0.0000000	0.885854	0.344830
0.6584566	0.205566	0.0000000	1.630512	0.158369
0.6961116	0.156788	0.0000000	2.417151	0.283411
0.7357836	0.143688	0.0000000	2.735628	0.301174
0.7745556	0.116574	0.0000000	3.210546	0.175025
0.8132756	0.122551	0.0000000	2.534862	0.245872
0.8520756	0.162418	0.0000000	4.287761	0.305120
0.8907716	0.1517205	0.0000000	5.262553	0.164927
0.9294346	0.155382	0.0000000	5.148318	0.225527
0.9681596	0.124482	0.0000000	3.033672	0.331169
0.1077474	0.122776	0.0000000	5.165753	0.231798
0.1080159	1.152988	0.0000000	7.432279	0.195949
0.1082831	1.307182	0.0000000	8.527423	0.251816
0.1085504	0.1162973	0.0000000	12.585848	0.265293
0.10881753	0.168366	0.0000000	18.687287	0.288131

0.1588473	3.163985	0.144588	15.817253	0.184194
0.1581553	2.577487	0.148843	16.154641	0.228369
0.1581513	1.555518	0.159553	12.565519	0.305000
0.1581622	1.887176	0.157546	5.572523	0.252618
0.1615252	1.582188	0.161558	5.548675	0.185025
0.1642072	1.593288	0.166861	5.546816	0.202481
0.1666751	1.126667	0.170103	7.272422	0.303439
0.1666511	0.760161	0.174556	4.726534	0.251561
0.1622331	0.760005	0.178875	4.830571	0.169586
0.1445522	1.012552	0.182261	6.364816	0.251181
0.1475671	1.142466	0.187114	7.178317	0.223059
0.1488251	0.580303	0.151566	6.155428	0.221059
0.1424111	0.826141	0.155619	6.150756	0.244432
0.1444630	0.750768	0.155578	4.568453	0.247399
0.1422258	0.493035	0.184124	4.103040	0.184024
0.1385278	0.466467	0.0000000	8.552858	0.228458
0.1336558	0.445347	0.121225	3.074655	0.268623
0.1366705	0.535882	0.116887	3.288555	0.198931
0.1385985	0.511482	0.121135	3.123734	0.276796
0.1416165	0.522288	0.124987	3.251262	0.268962
0.1442065	0.442521	0.125540	3.058819	0.219644
0.1465528	0.348284	0.133358	3.154686	0.216677
0.1456308	0.272746	0.138148	1.712274	0.217113
0.1445528	0.255693	0.142257	1.572278	0.230758
0.1444577	0.248722	0.146629	1.814130	0.228791
0.1444577	0.248722	0.146629	1.814130	0.228791

THE EFFECTIVE ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 81 (1482315)
 ZEROTH MOMENT = 1.035384
 FIRST MOMENT = 1.000000
 FIFTH MOMENT = 1.022128
 ENRICHMENT FACTOR (EIGHTH ORDER) = 1.00004311 = 1.001797

SIGNIFICANT WAVE HEIGHT (Hs) = 0.717904
 AVERAGE = 0.717904
 AVERAGE WEIGHTED (Hs) = 0.717904

TABLE 24

TEST 515 E-C CISFL

REAL MEAN = 3243.61257078
 INTEGER MEAN = 1744 CTE
 RMS VALUE = 8.94377 PHYSICAL UNITS

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START SPECTRUM SPECTR FCH

TEST 515 E-C CISPL

VELOCITY = 0.00000 FFS
 LAGE = 60
 SPECTRAL UNITS = (PHYSICAL UNITS)**2 SEC
 SAMPLING RATE = 1.5E559

CMEGA	E(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.6098822	0.630778	0.000000	3.963293	0.890692
0.6262722	0.642915	0.004253	3.159536	0.302292
0.653442	0.326663	0.008585	1.935616	0.146444
0.680155	0.214154	0.012758	1.345823	0.314088
0.106875	0.178133	0.017018	1.119242	0.046693
0.133555	0.157555	0.021263	0.589572	0.088207
0.160315	0.164511	0.025516	1.036164	0.088223
0.187235	0.155360	0.029768	1.227486	0.025340
0.213755	0.152658	0.034621	1.218757	0.023595
0.240475	0.163667	0.038273	1.025606	0.242265
0.267158	0.144678	0.042526	0.505636	0.021543
0.293518	0.147610	0.046778	0.523650	0.019178
0.320638	0.161656	0.051231	1.017221	0.047761
0.347357	0.155982	0.055284	1.005156	0.006531
0.374877	0.158716	0.055536	0.821310	0.025508
0.402757	0.152602	0.063785	0.770217	0.018095
0.427517	0.156752	0.068041	0.947601	0.027251
0.454237	0.160640	0.072725	1.029332	0.081446
0.480956	0.141125	0.076547	0.866714	0.020487
0.507676	0.132657	0.082279	0.821155	0.017642
0.534356	0.144661	0.085052	0.928530	0.123938
0.561116	0.152277	0.085304	0.556785	0.080370
0.587836	0.151166	0.085357	0.549600	0.038290
0.614555	0.181715	0.087809	1.141772	0.116658
0.641275	0.224421	0.102062	1.010078	0.017025
0.667955	0.237047	0.106315	1.485408	0.123930
0.694715	0.214205	0.108567	1.345885	0.145466
0.721454	0.266650	0.114820	1.637566	0.081569
0.748154	0.415294	0.115072	2.634500	0.107329
0.774874	0.532203	0.123325	3.3-3529	0.087651
0.801554	0.586577	0.127578	3.685570	0.052024
0.828314	0.813352	0.131030	5.116441	0.056289
0.855034	0.547076	0.136083	5.580655	0.007533
0.881753	0.661994	0.140335	4.159433	0.043314

0.928473	0.425853	0.144588	2.782244	0.013963
0.953153	0.566532	0.148441	6.072898	0.042233
0.561513	1.565733	0.155293	12.376159	0.04124
0.588632	2.024428	0.157346	12.722685	0.002826
0.615352	1.218467	0.161558	7.605559	0.007155
1.042072	0.821956	0.165851	5.158647	0.079615
1.068751	1.230667	0.170103	7.732510	0.019060
1.095511	1.736295	0.174356	10.987789	0.016982
1.122231	1.656637	0.176605	10.666025	0.004911
1.148552	1.236215	0.182661	7.767365	0.023143
1.175671	1.687388	0.187114	5.575126	0.026102
1.202351	1.852634	0.191366	5.357255	0.004509
1.229111	0.822571	0.195619	5.168366	0.025004
1.255832	0.747554	0.195872	4.697222	0.016672
1.282552	0.718303	0.204184	4.513232	0.007055
1.309272	0.837882	0.206377	5.264569	0.005361
1.335952	0.563454	0.212625	6.958730	0.021888
1.362709	0.745152	0.216882	4.787659	0.007378
1.389455	0.458706	0.221135	3.083156	0.022285
1.416145	0.495727	0.225387	8.871859	0.076353
1.442869	0.455144	0.225640	3.136338	0.032796
1.469588	0.661367	0.225892	3.024517	0.028787
1.496318	0.452544	0.230145	3.094748	0.050750
1.523068	0.456717	0.234397	2.872867	0.028422
1.549707	0.553466	0.236658	2.672219	0.025278
1.576468	0.456162	0.237083	3.111788	0.016339
1.603188	0.553364	0.238155	3.728213	0.055621

THE SPECTRAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT SI = 1.462151
 ZEROTH MOMENT = 0.850089
 ELECTRIC MOMENT = 1.688683
 MAGNETIC MOMENT = 1.422288
 RADIATING FACTOR (EIGHT) = 0.78992/1.0494111 = 0.68462

SIGNIFICANT WAVE HEIGHT, H(1/3),
 APPROX = 3.72888
 RADIATING FACTOR (EIGHT) = 0.78992/1.0494111 =

3.54649

TABLE 25

TEST E10 NAVYINC

REAL MEAN = 5823.51172 CTS
 INTEGER MEAN = 5824 CTS
 RMS VALUE = 1.48552 PHYSICAL UNITS

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START SPECTRAL EFFECTS FOR

TEST E10 NAVYINC

VELOCITY = 0.00000 FPS
 LAGE = 0
 SPECTRAL UNITS = (PHYSICAL UNITS)^{-0.2} SEC
 SAMPLING RATE = 1.5E559

CMEGA	E(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.0000000	1.0131644	0.0000000	7.110331	1.986901
0.0000720	0.9235945	0.004253	5.825346	0.626096
0.0003440	0.712342	0.000525	4.675E16	0.086586
0.0002150	0.665725	0.012758	4.208E30	0.267635
0.0000875	0.570175	0.017010	3.582537	0.303307
0.0003569	0.425178	0.021263	2.671422	0.039246
0.0002150	0.355137	0.025516	2.256526	0.131451
0.0001875	0.4433883	0.020768	2.726178	0.026222
0.00021378	0.614616	0.034821	3.861749	0.021552
0.000246478	0.806706	0.0238273	5.066681	0.061142
0.000267158	0.726324	0.0246526	4.6359226	0.017453
0.000253518	0.616555	0.046778	3.886453	0.073475
0.000322638	0.71854	0.0251051	4.516630	0.023112
0.000347357	0.754582	0.0255284	4.741179	0.031518
0.000374477	0.664226	0.0255336	4.237101	0.067955
0.000402767	0.664465	0.026375	4.380644	0.014586
0.000427517	0.565259	0.0268241	5.711787	0.019541
0.000454237	0.517615	0.0272254	5.765572	0.049917
0.000488556	0.724644	0.0276547	4.867203	0.0242473
0.000507676	0.826255	0.0280759	5.191514	0.019184
0.000534356	0.566454	0.0285052	5.972152	0.007947
0.000561116	0.562278	0.0285324	5.665179	0.066894
0.000587536	0.720724	0.0293557	4.526445	0.034297
0.000614556	0.574575	0.0297525	3.610186	0.054910
0.000641275	0.641275	0.0312226	3.122746	0.032617
0.000667555	0.562413	0.0316315	3.488283	0.001871
0.000694715	0.6633223	0.0318567	4.123262	0.010216
0.000721434	0.667288	0.0314828	3.541317	0.057073
0.000748154	0.6464210	0.0315078	3.042375	0.024958
0.000774874	0.358558	0.0323325	2.306729	0.084766
0.000801554	0.526115	0.0327578	3.385781	0.015723
0.000828214	0.753856	0.0331832	4.726666	0.022718
0.000855324	0.858374	0.0336003	5.267657	0.044554
0.0008821753	0.972548	0.0349355	6.186697	0.067955

0.00088473	1.128848	0.044528	7.469755	0.018613
0.000835153	1.271671	0.048841	7.950146	0.027010
0.000861513	1.055205	0.053053	9.985251	0.042725
0.000886632	1.054775	0.057346	12.476736	0.036392
0.000815382	1.0521777	0.061558	12.078789	0.028109
0.000842872	1.0775891	0.065851	11.183385	0.019645
0.000866751	1.065415	0.070123	13.105505	0.074510
0.000855511	1.0436667	0.074356	15.310032	0.012987
0.0008122231	1.055655	0.078829	16.329235	0.053018
0.0008146552	1.0755882	0.0822661	17.315201	0.024797
0.0008175671	1.0532824	0.0871114	15.520550	0.015646
0.000822351	1.0347747	0.091366	14.751328	0.041866
0.0008225111	1.07175763	0.095615	13.676722	0.0441517
0.000825530	1.0812785	0.105572	11.829905	0.051453
0.000828550	1.0285562	0.094124	13.122822	0.025997
0.000835278	1.0325728	0.0228577	14.638113	0.008319
0.000835550	1.080345	0.0212623	13.871194	0.089768
0.0008362705	1.082765	0.0216682	11.691527	0.013651
0.0008385425	1.085128	0.0221135	12.623720	0.028516
0.000841615	1.0238526	0.025387	12.810550	0.085961
0.000844285	1.0822452	0.0225649	13.312816	0.0255948
0.000846550	1.0722182	0.0233892	10.822750	0.007920
0.0008496328	1.0721285	0.0238145	10.625515	0.069714
0.000852346	1.0612597	0.0242357	9.504205	0.084161
0.0008545747	1.0553451	0.02466550	5.764765	0.079857
0.0008576468	1.0522697	0.0250583	8.459248	0.050760
0.0008603188	1.042423	0.0255155	7.178253	0.054182

THE SPECTRAL ELEMENTS WERE COMPUTED
 LEAVING A HIGH FREQUENCY TRUNCATION
 AT 51.
 1.0E-03151

ZEROTH ELEMENT = 1.098650

SECOND ELEMENT = 2.322112

THIRD ELEMENT = 3.751226

PREDICTED ELEMENT = (EIGHTH(1.0E-03151)+(FIFTH(1.0E-03151))) =

0.83893

SIGNIFICANT WAVE HEIGHT, H1/3/1

4.0E-03080 = 1.03830

4.0E-03080+EIGHTH(1.0E-03151+(EIGHTH(1.0E-03151))) =

0.82587

TABLE 26

TEST E15 NAVLEE

REAL PEAK = 2.48356777 CTS
 INTEGER PEAK = 2484 CTS
 RMS VALUE = 1.15561 PHYSICAL UNITS

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START SPECTRUM SPECTRUM FOR

TEST E15 NAVLEE

VELOCITY = 0.00000 FFS
 LAGE = 60
 SPECTRAL UNITS = (PHYSICAL UNITS)^{0.02} SEC
 SAMPLING RATE = 1.9E559

CMEGA	E(CMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.0000000	1.715755	0.000000	1.0.005816	1.335423
0.026726	1.025610	0.0004253	6.0.65459	-0.47874
0.053448	0.521000	0.000505	2.0.22429	-0.099246
0.080165	0.020511	0.0012758	1.0.762581	0.490626
0.106875	0.244584	0.0017210	1.0.511635	-0.251565
0.133599	0.216137	0.0021263	1.0.558830	-0.023245
0.160315	0.155545	0.0025516	1.0.231181	0.198209
0.187039	0.152521	0.0025768	1.0.247344	0.044450
0.213765	0.261476	0.0034261	1.0.636621	-0.057493
0.240478	0.325255	0.0038273	2.0.88753	0.128268
0.267158	0.365775	0.0042526	1.0.80705	0.039799
0.293876	0.241675	0.0046778	1.0.518451	0.031131
0.320598	0.364132	0.0051031	1.0.514918	0.052551
0.347327	0.342135	0.0055264	2.0.145659	0.040469
0.374057	0.053593	0.0055356	1.0.84720	0.262782
0.400775	0.266362	0.0063785	1.0.759528	0.055566
0.427517	0.357582	0.0066041	2.0.46743	0.071142
0.454237	0.367361	0.0072254	2.0.38155	0.019678
0.480956	0.316241	0.0076547	1.0.566959	0.027723
0.507676	0.365313	0.0082755	2.0.65157	0.061299
0.534396	0.366543	0.0088652	2.0.205673	0.006148
0.561116	0.366277	0.0088554	2.0.111633	0.046129
0.587836	0.252646	0.0095557	1.0.826184	0.013345
0.614555	0.276465	0.0097805	1.0.737882	0.063112
0.641275	0.241191	0.0102062	1.0.515446	0.031638
0.667995	0.222015	0.0106315	1.0.354959	0.021075
0.694715	0.264458	0.0112567	1.0.58826	0.075215
0.721434	0.245132	0.0114220	1.0.655331	0.036517
0.748154	0.158345	0.011572	1.0.246241	0.024177
0.774874	0.224282	0.0125225	1.0.425299	0.066322
0.801594	0.245842	0.0127578	2.0.172588	0.058523
0.828314	0.074158	0.0131858	2.0.975477	-0.005376
0.855034	0.174348	0.0134083	3.0.275477	0.038570
0.881753	0.093862	0.0140355	0.0.616322	0.076692

0.908493	1.055000	0.0144588	6.0.905220	0.053645
0.935153	1.021004	0.0148241	7.0.602512	0.038354
0.961813	1.0747501	0.0153053	10.0.575875	0.125762
0.988562	2.038688	0.0157346	14.0.265551	-0.021490
1.015252	2.066574	0.0161558	12.0.587178	0.026791
1.042072	2.042432	0.0165881	12.0.655810	0.103599
1.068791	2.0411225	0.0170103	15.0.01525	-0.004365
1.095511	2.037671	0.0174356	14.0.688221	0.021326
1.122231	2.048746	0.0178005	12.0.72651	0.078510
1.148952	2.012018	0.0182661	13.0.270158	0.044202
1.175671	2.022517	0.0187114	12.0.707882	-0.026169
1.202391	1.0864238	0.0191326	11.0.712052	0.100706
1.229111	1.071474	0.0195619	10.0.692677	-0.002989
1.255830	1.0452637	0.0199572	5.0.365947	0.035701
1.282550	1.0264353	0.0204124	7.0.881330	0.063192
1.309270	1.0121593	0.0208377	7.0.247179	-0.011180
1.335990	1.0325531	0.0212625	8.0.381335	0.099444
1.362710	1.0422557	0.0216882	8.0.810640	0.003444
1.389430	1.0271154	0.0221135	7.0.710686	0.038236
1.416145	1.0455500	0.0225397	6.0.654948	0.065760
1.442865	0.0226162	0.0229548	5.0.26323	0.019185
1.469585	0.716485	0.0233552	4.0.514373	0.033888
1.496305	0.611416	0.0238145	4.0.155756	0.075728
1.523025	0.564680	0.0242357	3.0.47551	0.002657
1.549745	0.516298	0.0246650	3.0.202421	0.024399
1.576465	0.515422	0.0250503	3.0.238489	0.079234
1.603185	0.462747	0.0255155	2.0.587524	-0.002125

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 51. 1.0E3151
 ZEROTH MOMENT = 1.035848
 SECOND MOMENT = 1.056132
 FOURTH MOMENT = 0.010448
 ENCLINERS FACTOR (EIGHT(1.0E-12002/(PP0*PP1))) = 2.68894

SIGNIFICANT WAVE HEIGHTS, H1/3/1
 4*H0.5 = 4.022742
 4*H0.5+5*H1/3(1.0E-12002*(PP0*PP1)) = 4.034783

TABLE 27

TEST SITE B+C C15FL

REAL PEAK = 3683.71151CTE
INTEGER PEAK = 1694 CTE
HPS VALUE = 1.3766E-00 PHYSICAL UNITS

-44-

START SPECTRAL SPECTRUM

TEST #12 FOR CIEFL

VELOCITV = 8.00000 FPS
LACS = 6P
SPECTRAL LMTS = (PHYSICAL LMTS) * 2.00E0
SAFLNG RATE = 1.00000

8.988473	1.644448	8.144488	5.702116	8.235789
8.938153	2.674574	8.144841	22.4483597	8.224287
8.561813	6.222035	8.153055	35.1113268	8.269476
8.588622	5.544368	8.157246	34.6161428	8.281405
1.815382	3.362246	8.161158	21.125610	8.003891
1.842872	2.732628	8.165881	17.127552	8.126295
1.666751	2.772042	8.170103	17.925258	8.265567
1.655511	2.462253	8.174356	15.474566	8.069512
1.122231	2.152267	8.178289	13.523264	8.258284
1.144552	1.614515	8.182881	10.146863	8.0559571
1.175671	1.311338	8.187314	8.823952	8.042549
1.222251	1.377221	8.191766	8.667461	8.138261
1.225511	1.111512	8.195635	7.811484	8.111727
1.255522	8.755865	8.195972	4.763862	8.129928
1.222152	8.756544	8.204124	4.762510	8.121699
1.325270	8.270721	8.208377	5.479593	8.118417
1.333552	8.801337	8.212625	8.023454	8.083725
1.336275	8.784213	8.216881	4.422553	8.123329
1.338542	8.636723	8.221135	4.6098651	8.054481
1.331614	8.632386	8.225587	3.2287504	8.211129
1.442245	8.511658	8.229544	5.219985	8.034716
1.665588	8.506352	8.233859	5.818147	8.137470
1.456279	8.472705	8.234145	8.518182	8.178743
1.612582	8.351621	8.242257	2.155452	8.118589
1.545747	8.354491	8.244661	8.172548	8.172548
1.576448	8.411557	8.250993	8.0582187	8.0515641
1.600118	8.443065	8.251195	8.278518	8.129453

THE SPECTRAL ELEMENTS WERE COMPUTED
USING A HIGH FREQUENCY TRANSLATION

AT 51 10003151

ZERCTA REPORT -

EECCAC REPORT =

FCRA 46 REPORT # 2028680

P-47996

TABLE 28

test app works

REAL PEAK = 5828.5148E75
 IMAGINARY PEAK = 5825 E75
 HPS VALUE = 6.00000E-000 PHYSICAL UNITS

STANT ELECTRICAL SPECTRA FOR

TEST 512 REVISED

```

VELLCITY = 0.00000 FFS
LAGS = 60
SPECTRAL LIMITS = (PHYSICAL LIMITS) * 2 * EEC
SAMPLE RATE = 1.5E5ES

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-45-

0.50473	0.632418	0.144588	35.385481	0.413299
0.535193	0.162713	0.148841	38.721466	0.195117
0.51913	0.245284	0.150533	35.225411	0.218773
0.586532	0.6222876	0.157346	37.542884	0.339421
1.015352	0.6555225	0.161558	41.026635	0.122955
1.048272	0.334922	0.165851	46.088887	0.171487
1.066751	0.114745	0.170102	38.028874	0.342667
1.055511	0.758146	0.174556	38.147644	0.254770
1.012231	0.653421	0.176605	26.576227	0.108625
1.014552	3.628661	0.162861	22.755683	0.356274
1.017671	0.371522	0.187114	21.013566	0.132528
1.022351	0.656445	0.151566	22.088757	0.297531
1.025111	2.858076	0.155615	28.072145	0.352338
1.025838	0.681664	0.155672	16.045538	0.145431
1.0212558	0.366858	0.204124	14.071484	0.186749
1.0365278	2.652767	0.202377	15.065824	0.417871
1.032558	0.655544	0.212625	16.055117	0.331728
1.032729	0.332636	0.214688	14.042317	0.105452
1.026425	1.546626	0.221135	12.022468	0.278342
1.0416145	0.582755	0.225587	12.044543	0.335197
1.0442865	1.552342	0.225549	12.0273811	0.265533
1.0465588	1.682482	0.233652	11.0708192	0.183753
1.0454308	1.682082	0.238145	10.056853	0.333578
1.0535228	1.359655	0.242557	6.046457	0.123778
1.0545747	1.056823	0.246659	8.0525169	0.267579
1.0576968	1.667526	0.250853	10.022859	0.279564
1.083188	1.738185	0.255155	10.051176	0.097541

THE EFFECTIVE PERCENTS WERE COMPUTED
USING A FIVE FREQUENCY TABULATION
AT 51.25 KHZ.

1-44493
ZERACTH PERPETUUM • 4-24493
ECCLESIA PERPETUUM • 4-34493

SECRET AGENT 8
FELETA AGENT 6
BREWERAGE FACTORY SECRET 100-18789

[View all posts by **John**](#) [View all posts in **Uncategorized**](#)

SIGNIFICANT PAYLOAD WEIGHTS 11/21
LIPPERE * E-24458

8.83988

TABLE 29

TEST ESE WAVELET

REAL MEAN = 2552.58E03TS
 INTEGER MEAN = 2554 CTE
 RMS VALUE = 1.6272E PHYSICAL UNITS

-46-

START SPECTRUM SPECTR FOR

TEST ESE WAVELET

VELOCITY = 8.00000 FFS
 LACE = 00
 SPECTRAL UNITS = (PHYSICAL UNITS) * 2.00E0C
 SAMPLING RATE = 1.00E05S

CHECA	S(CHECA)	FREQUENCY	E(FREQU)	AUTOCOR
R+2000000	2.770574	0.000000	17.457031	2.667388
L+226729	1.551255	0.042293	5.556426	-2.6222F0
R+253442	0.421601	0.000000	2.659226	-2.980342
L+2282255	0.7752975	0.015012	5.000159	1.229539
R+135555	0.782156	0.021263	4.514680	-2.597825
L+160315	0.521025	0.005516	3.072658	0.182F21
R+187035	0.573585	0.025768	3.025541	0.317152
L+213755	0.540071	0.034021	3.055363	-2.055915
R+240478	0.473706	0.028272	2.057638	0.027455
R+267152	0.4226446	0.0242526	2.075400	0.24F0F8
R+253510	0.385542	0.046778	2.0424545	0.021735
R+220638	0.362736	0.051031	2.0275138	0.141925
R+247357	0.381375	0.055284	2.055273	-2.020106
R+374077	0.401644	0.055536	2.022602	-2.050174
R+4002757	0.325044	0.062785	2.067444	0.225146
R+427517	0.246247	0.060041	1.047846	0.127406
R+444237	0.258113	0.072254	1.021774	-2.039041
R+460565	0.263317	0.076547	1.054472	0.166727
R+507676	0.214502	0.080755	1.047741	0.201066
R+534356	0.2006215	0.085052	1.054438	-2.069499
R+561116	0.256771	0.085384	1.064466	0.044527
R+587836	0.455665	0.095557	2.082058	0.196356
R+614555	0.455577	0.097886	3.014145	-2.032429
R+641275	0.438123	0.102066	2.057205	-2.012294
R+667555	0.470514	0.106315	3.001555	0.052123
R+694715	0.767271	0.108567	4.0020507	0.169168
R+721434	1.143774	0.114822	7.000043	0.143523
R+7481E4	1.481628	0.119072	5.000219	0.025195
R+774874	1.564655	0.123228	12.0048.4	0.023201
R+801554	2.432062	0.127678	15.000031	0.251445
R+888314	3.885713	0.131838	23.000049	0.087650
R+885024	5.601027	0.136095	35.000057	-2.093574
R+881753	5.258621	0.140335	33.0000221	0.248645

R+500473	4.057552	0.144588	25.000055	0.216949
R+531153	4.135272	0.148841	25.000081	-2.0130490
R+561912	4.526653	0.153053	30.0000437	0.092313
R+56P622	5.215554	0.157346	32.0000438	0.266124
L+215322	5.561251	0.1598	34.0000268	-2.0P2204
L+242072	6.276201	0.166881	35.0000440	0.021055
L+268751	5.406231	0.172123	33.0000253	0.121664
L+285511	3.336777	0.174256	20.000051	0.011219
L+322231	2.622288	0.178605	16.000067	0.085510
L+416552	2.536651	0.182261	15.000024	-2.003768
L+175671	2.172812	0.187114	15.0000183	0.054248
L+202351	2.278575	0.191366	14.000019	0.126580
L+226111	2.176651	0.195619	13.000056	-2.024444
L+258222	1.683587	0.195877	10.000089	-2.0000651
L+282550	1.336760	0.204124	8.000088	0.125637
L+305270	1.075541	0.208377	6.000022	0.027116
L+335550	1.031867	0.212625	6.000045	0.0002726
L+362705	1.045615	0.216882	6.00005754	0.0002174
L+385425	0.570005	0.221135	6.0000775	0.0005142
L+416145	0.834135	0.223387	5.000026	0.144513
L+448885	0.748118	0.225640	4.000026	0.020781
L+464588	0.753533	0.228858	4.000045	0.002168
L+485630	0.6566452	0.232148	4.0000464	0.136984
L+523022	0.638000	0.236237	3.0000422	0.000214
L+545747	0.5515188	0.240689	3.000033	0.011474
L+576468	0.575532	0.245953	3.0000175	0.0047261
L+603188	0.536045	0.250100	3.000054	0.129793

THE SPECTRAL ELEMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 61 (1.0E315)
 ZEROFL ELEMENT = 2.64725
 EECFT ELEMENT = 2.055811
 FCFL ELEMENT = 3.200226
 ENCLASHER FACTOR (EECFT(1.0E315)/FCFL) = 0.647868

SIGNIFICANT WAVE HEIGHT, H(1/3)
 4.0E0APE = 4.0E0232
 4.0E0BPECHT(1.0E315/FCFL/0.647868/2.0E0) =

4.0E432

TABLE 30

1651 815 00003180

REAL PEAK = 3547.774E8CTS
INTEGER PEAK = 3548 CTS
RPS VALUE 1.33369 PHYSICAL UNITS

-47-

START SPECTRAL SPECTR FCA

TEST CASE ANALYSIS

VELOCITY = 0.00000 FPS
LAGS = 60
EFFECTIVE LENGTH = (PHYSICAL LENGTH)*0.2*SEC
SCAFFLING RATE = 1.55555

CMEGA	S(CMEGA)	FREQUENCY	S(FRECI)	AUTOCOR
K-0022002	0.215247	0.2222222	1.352435	-1.773295
K-0026729	0.215335	0.2242223	1.354277	-0.0585242
K-00253442	0.221568	0.2282525	1.354667	0.1208075
K-0026115	0.224123	0.2121758	1.559222	0.1336327
K-1266795	0.2228222	0.2172712	1.774511	-0.370975
K-1335555	0.221123	0.2121263	1.766335	0.019335
K-1662115	0.225588	0.225516	1.668738	0.087765
K-1872355	0.265125	0.245762	1.828899	-0.044655
K-213758	0.334941	0.2824621	2.058841	0.002863
K-2464728	0.355553	0.232273	2.257882	0.029356
K-2671516	0.378856	0.242222	2.022675	-0.001354
K-2535916	0.385556	0.2466778	2.446665	-0.012566
K-3296526	0.4462546	0.2511231	2.531747	-0.011124
K-347357	0.4661182	0.255284	2.925858	0.020691
K-374277	0.5643436	0.255536	3.141523	-0.054556
K-4022757	0.5645446	0.223785	3.4827116	0.039567
K-427517	0.4877235	0.298841	3.664525	0.013056
K-454237	0.431655	0.472254	2.712172	-0.028222
K-480556	0.2535372	0.276547	2.472866	0.010622
K-587676	0.287645	0.266755	2.425678	0.016814
K-534356	0.3663336	0.225252	2.314325	-0.022345
K-561116	0.234447	0.255384	2.101351	-0.244143
K-587836	0.3464658	0.253557	2.174344	0.263222
K-614555	0.3322224	0.257825	2.086624	-0.025546
K-641275	0.275287	0.192262	1.754812	-0.046715
K-667755	0.2841565	0.186215	1.787755	0.084061
K-654715	0.3022412	0.110567	1.5902195	-0.022992
K-721814	0.2723361	0.114822	1.717580	-0.0221431
K-748154	0.275116	0.115272	1.721119	0.048032
K-774824	0.366113	0.123235	2.280316	-0.027831
K-8021554	0.427164	0.127578	2.683545	-0.030462
K-828314	0.472532	0.131838	2.571519	0.037229
K-855634	0.675548	0.136883	4.265674	-0.0244851
K-881753	0.5556601	0.146335	6.024215	0.033662

0+582473	0+582426	0+144588	6+175847	-0+007981
0+5825153	0+581764	0+145841	6+168226	-0+016952
0+561513	1+241124	0+152053	8+175222	-0+004244
0+5888632	1+715100	0+157346	18+776253	-0+039352
0+01532	2+254512	0+158592	14+168932	-0+021474
1+042272	2+576655	0+165551	16+185686	-0+052525
1+4668751	2+275858	0+170122	14+324677	-0+075525
1+655511	2+168554	0+174356	13+068150	-0+056132
1+0122221	2+566652	0+178605	16+125488	-0+062675
1+348552	2+745222	0+182881	17+277634	-0+055905
1+175571	2+6667357	0+187114	16+755626	-0+039812
1+022351	2+555595	0+191566	16+355937	-0+008812
1+225111	2+517641	0+195615	15+218825	-0+009692
1+2255832	2+635555	0+195872	16+055722	-0+028285
1+2255832	2+643575	0+204124	16+616052	-0+026488
1+305274	2+251200	0+228377	14+446214	-0+006684
1+3365562	2+875726	0+212625	13+067305	-0+009463
1+362729	1+527825	0+21882	15+021714	-0+003392
1+385425	1+834636	0+221135	11+526103	-0+032430
1+416145	1+875230	0+225387	11+886254	-0+052785
1+442865	1+584736	0+225642	12+472467	-0+022784
1+465588	1+828466	0+233852	11+465866	-0+008454
1+465388	1+667776	0+233145	10+415651	-0+016192
1+623876	1+645116	0+242397	10+326633	-0+013992
1+845747	1+618576	0+246662	10+115839	-0+007285
1+576465	1+454795	0+229693	9+352057	-0+047771
1+623188	1+418352	0+231155	8+861263	-0+076380

THE SPECTRAL PEAKS WERE COMPUTED
USING A HIGH FREQUENCY TRUNCATION

AT 81 30423151

ZERCH RECENT • 1-77338

SELCCAC REPORT # E-38888

FCLRTF PCPENT 8 3-57258
RECORDED FEB 25 1966 BY RICHARD L. BROWN

8-44252

SIGNIFICANT HAVE WEIGHTS: 5/3/21

4-2545b - 4-2563

4.844E+008T12.00EAC002/2.01

20851.

TABLE 31

REAL PEAK = 6175.1553015
 INTEGER PEAK = 2575 CTE
 RHO VALUE = 1.022280 PHYSICAL UNITS

C TEST 015 NAVLEE

START SPECTRUM SPECTR FOR
 TEST 015 NAVLEE

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VELOCITY = 2.29999 FPS
 LAGS = 60
 SPECTRAL UNITS = PHYSICAL UNITS 1.00000 SEC
 SAMPLING RATE = 1.5E555

OMEGA	B(OMEGA)	FREQUENCY	S(FREQ)	AUTOCOR
0.226298	0.044657	0.000000	0.057579	0.050633
0.226722	0.044523	0.024253	0.655127	0.530857
0.255442	0.127576	0.221526	0.675520	0.23917
0.282155	0.146771	0.412758	0.884450	0.324911
0.102875	0.172375	0.817018	1.023061	0.232545
0.135555	0.147985	0.212623	0.525866	0.043375
0.162315	0.116276	0.225516	0.743153	0.118518
0.127235	0.122588	0.225768	0.765759	0.036841
0.213755	0.131641	0.234621	0.827124	0.039890
0.244476	0.143526	0.238273	0.901285	0.046015
0.267155	0.165562	0.242526	1.042524	0.007316
0.253518	0.155254	0.247778	1.020621	0.026020
0.326638	0.140535	0.251031	0.683235	0.020385
0.347357	0.181358	0.255284	1.135759	0.016287
0.374077	0.247186	0.255536	1.553115	0.019998
0.400757	0.236374	0.262785	1.085184	0.015320
0.425717	0.178121	0.266841	1.115164	0.026714
0.454237	0.163275	0.272254	1.024631	0.007168
0.484556	0.170548	0.276547	1.071332	0.000571
0.502676	0.156223	0.280795	0.580158	0.016975
0.534356	0.141727	0.285552	0.850455	0.014220
0.561116	0.141272	0.285324	0.887637	0.038888
0.587856	0.135270	0.285557	0.75056	0.024297
0.614555	0.131684	0.257629	0.827354	0.035638
0.641275	0.115572	0.182062	0.751254	0.012693
0.667555	0.115321	0.186315	0.745718	0.014507
0.695715	0.123250	0.112567	0.774655	0.019841
0.721434	0.125573	0.114822	0.788557	0.038852
0.746154	0.154182	0.115072	0.668757	0.019772
0.774874	0.154342	0.122325	1.021076	0.019167
0.801554	0.226785	0.127578	1.387260	0.054372
0.822314	0.238573	0.131830	1.501513	0.049767
0.855034	0.155704	0.150083	2.105253	0.039501
0.881753	0.639716	0.148335	4.019455	0.054533

0.588493	0.056756	0.144588	5.383428	0.022876
0.535153	0.567702	0.148241	5.703247	0.021753
0.561913	1.175536	0.153093	7.411242	0.229553
0.588432	1.045473	0.157346	5.235570	0.016401
0.213352	1.662576	0.161552	10.433725	0.027729
1.042072	1.775036	0.165851	11.152675	0.03306
1.052751	1.741756	0.170103	10.544632	0.023510
1.065511	1.742856	0.174356	10.538355	0.020534
1.022231	1.836571	0.176685	11.542430	0.014111
1.046552	1.967508	0.182261	11.587741	0.018964
1.075671	1.710723	0.187114	10.748769	0.020876
1.022231	1.063037	0.151366	5.152530	0.037632
1.0225111	1.517267	0.155615	5.533271	0.031831
1.0225030	1.655505	0.155872	5.487236	0.027449
1.0282552	1.6666505	0.204124	7.557710	0.037892
1.0265720	1.2228253	0.208377	7.716284	0.0218672
1.035558	1.246166	0.212625	7.825855	0.0206736
1.0362705	1.027578	0.216882	5.456423	0.0255641
1.035425	0.833475	0.221135	5.336877	0.0230856
1.0416145	0.5828818	0.225387	7.712221	0.047372
1.0442865	1.167741	0.225640	5.271932	0.032240
1.046558	1.154355	0.235852	5.53250	0.013185
1.045308	0.822841	0.235145	5.158168	0.027063
1.0520268	0.554875	0.242357	4.114727	0.009748
1.0545747	0.760897	0.246660	4.788854	0.025505
1.0576488	0.763114	0.224523	4.813633	0.021625
1.0623188	0.674531	0.225155	4.208283	0.0081822

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT 61 (1.042072)
 ZEROTH MOMENT = 1.000000
 SECOND MOMENT = 1.350000
 FOURTH MOMENT = 2.244415
 PRECALCULATED FACTOR (EGRT(1+P-P2+P3+P4)) = 2.41268

SIGNIFICANT WAVE HEIGHT, H(1/3)
 4.08495 = 4.10000
 4.08495-EGRT(1+P-P2+P3+P4)/2 = 1.32157

TABLE 32

First Class

REAL PEAK = 5272+K2734LTE
 IMAGINARY PEAK = 2K72 CYE
 RMS VALUE = 3.78542 PHYSICAL UNITS

STANT SLEWCLTINF SPECTR FCR

TEST #12A WAUWIND

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VELOCITY = 2.0E000 FFS
LAGS = 0
SPECTRAL UNITS = (PHYSICAL UNITS) * 2.0E000
SAMPLE RATE = 1.0E000

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CHECA	S(CHECA)	FREQUENCY	S(FREQ)	AUTOCORR
K+6200000	1.0000000	0.0000000	7.573573	-0.2022222
K-626722	1.0000000	0.0000000	5.516400	-0.165228
K+653442	1.0000000	0.0000000	5.515222	-0.692328
K-688155	1.0000000	0.0000000	5.518625	0.558225
K+133555	0.4545402	0.0000000	3.072756	-0.262649
K+160315	0.470223	0.0000000	2.559537	-0.138411
K-187225	0.520550	0.0000000	3.233756	0.151963
K+213752	0.522222	0.0000000	3.284236	0.111627
K+242776	0.4465500	0.0000000	2.553318	-0.064748
K+267158	0.462418	0.0000000	2.505400	-0.114552
K+285516	0.502566	0.0000000	3.107225	0.127235
K+328628	0.415565	0.0000000	3.056818	0.273846
K+347227	0.515155	0.0000000	3.236841	-0.247411
K+374877	0.471435	0.0000000	2.562137	0.214844
K+400757	0.535711	0.0000000	2.255728	0.216644
K+427517	0.362453	0.0000000	2.277360	0.266623
K+454237	0.332453	0.0000000	2.0264752	0.241209
K+480556	0.362658	0.0000000	1.501985	-0.278224
K+507676	0.255265	0.0000000	1.855227	0.158750
K+534356	0.367531	0.0000000	2.305245	0.233828
K+561116	0.522445	0.0000000	3.270275	-0.272562
K+587836	0.558245	0.0000000	3.683212	0.206414
K+614255	0.451212	0.0000000	3.000273	0.177226
K+641275	0.532225	0.0000000	3.381758	-0.213979
K+667555	0.525204	0.0000000	3.755566	-0.123646
K+694716	1.0000000	0.0000000	5.566222	0.115294
K+721454	1.0000000	0.0000000	11.656661	0.245624
K+74F154	1.0000000	0.0000000	11.570244	-0.221065
K+774874	2.0000000	0.0000000	16.454224	0.132448
K+812154	2.0000000	0.0000000	24.185595	-0.265987
K+822314	4.0000000	0.0000000	27.786526	-0.236492
K+855224	4.0000000	0.0000000	26.655570	0.129254
K+881753	4.0000000	0.0000000	28.305357	0.262195

8+58P472	3+562E57	0+144E58	24+85E261	-0+084734
8+551513	3+475E63	0+145E41	21+863155	-0+032210
8+561513	4+551765	0+152E53	28+555575	-0+224722
8+58P652	4+835E24	0+157346	38+027623	-0+051963
1+21E352	2+58E256	0+161E58	25+042122	-0+109405
1+642072	3+535E74	0+165E81	22+216533	-0+245633
1+66E751	3+851121	0+170123	24+157174	-0+137495
1+655511	4+156257	0+174356	26+113221	-0+198244
1+122231	4+218150	0+178625	26+525618	-0+043425
1+148552	3+586553	0+182861	25+052766	-0+082666
1+175671	2+545325	0+187114	22+201468	-0+022555
1+202251	3+512473	0+191366	26+322087	-0+025879
1+224111	3+612E34	0+195615	22+425629	-0+214687
1+255E30	2+611571	0+195872	16+613120	-0+279565
1+222550	2+652E71	0+204124	15+522665	-0+093632
1+365270	2+681E21	0+208377	16+880372	-0+113178
1+332552	2+541152	0+212625	18+462574	-0+198770
1+322705	2+61F465	0+216885	17+595852	-0+026444
1+389425	2+448101	0+221135	15+531624	-0+213525
1+416145	2+302275	0+225387	14+666448	-0+126529
1+442865	2+666713	0+225648	14+175345	-0+146555
1+465582	2+6944722	0+233892	12+551635	-0+074100
1+456302	2+643436	0+236145	12+035287	-0+073764
1+522022	2+130651	0+242235	13+227871	-0+038160
1+45747	1+762273	0+2446650	11+675722	-0+058432
1+57644	1+525552	0+2421593	5+686554	-0+102792
1+631212	1+542341	0+251155	5+656284	-0+062145

THE EFFECTIVE MOMENTS WERE COMPUTED
USING A HIGH FREQUENCY TRUNCATION
AT 512 AND 1024.

61 1024395
SELECTED EDITIONS
SERIALIZED

~~SECRET AGENT~~ ~~SECRET AGENT~~

EFFECT ELEMENT = **E-00000**
EFFECT ELEMENT = **E-0465**

PICTURE REPORT # 8446276
ENCLAVE 65 FACTOR LEGENDS, RUMBLE 6/1968

8-47862

SIGNIFICANT WAVE HEIGHTS, H13/3

4-8-245 • 7-3-750

4.0+HESGAT(1.0-EFC&C++8

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TABLE 33

REAL PEAK = 3256.87EFFECTS
 INTEGER PEAK = 3256 CTS
 RMS VALUE = 1.58741 PHYSICAL UNITS

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START SPECTRUM SPECTRUM FOR
 TEST KIRA NAVFAC

VELOCITY = 0.00000 FPS
 LAGE = 0°
 EFFECTUAL UNITS = (PHYSICAL UNITS) * 2.000E0
 SAMPLING RATE = 1.5E005

CHEGA	E(CHEGA)	FREQUENCY	E(FREQ)	AUTOCOR
0.0000000	0.0000000	0.0000000	3.576480	0.272286
0.0000000	0.0000000	0.0000000	2.520523	0.810113
0.0000000	0.0000000	0.0000000	1.452252	0.814770
0.0000000	0.0000000	0.0000000	1.422465	0.877543
0.0000000	0.0000000	0.0000000	0.771174	0.165662
0.0000000	0.0000000	0.0000000	1.421701	0.391769
0.0000000	0.0000000	0.0000000	1.418388	0.036972
0.0000000	0.0000000	0.0000000	1.252578	0.229291
0.0000000	0.0000000	0.0000000	1.578385	0.010660
0.0000000	0.0000000	0.0000000	1.156225	0.078114
0.0000000	0.0000000	0.0000000	0.842552	0.231936
0.0000000	0.0000000	0.0000000	1.042568	0.050118
0.0000000	0.0000000	0.0000000	1.050887	0.225571
0.0000000	0.0000000	0.0000000	1.425258	0.028301
0.0000000	0.0000000	0.0000000	1.387354	0.077483
0.0000000	0.0000000	0.0000000	1.011154	0.223726
0.0000000	0.0000000	0.0000000	0.812654	0.012525
0.0000000	0.0000000	0.0000000	1.021509	0.085115
0.0000000	0.0000000	0.0000000	1.072232	0.093272
0.0000000	0.0000000	0.0000000	0.520588	0.053756
0.0000000	0.0000000	0.0000000	0.820085	0.069061
0.0000000	0.0000000	0.0000000	1.022712	0.024445
0.0000000	0.0000000	0.0000000	1.557375	0.057768
0.0000000	0.0000000	0.0000000	2.284913	0.056710
0.0000000	0.0000000	0.0000000	0.669086	0.059589
0.0000000	0.0000000	0.0000000	3.525558	0.273113
0.0000000	0.0000000	0.0000000	6.557803	0.172777
0.0000000	0.0000000	0.0000000	7.022854	0.027455
0.0000000	0.0000000	0.0000000	7.038426	0.058552
0.0000000	0.0000000	0.0000000	11.566434	0.033515
0.0000000	0.0000000	0.0000000	19.351176	0.101335
0.0000000	0.0000000	0.0000000	21.771149	0.030752
0.0000000	0.0000000	0.0000000	15.767654	0.143679
0.0000000	0.0000000	0.0000000	23.226162	0.039688

0.528473	4.0306883	0.144588	27.374588	0.076551
0.525153	4.0215504	0.148841	26.882467	0.048839
0.561513	4.0375537	0.153053	27.515558	0.142267
0.5886632	4.0482646	0.157346	28.167258	0.087666
0.615352	3.7444878	0.161558	23.525755	0.066348
0.642272	3.0174387	0.165851	19.545267	0.109633
0.668751	3.0158664	0.170103	20.231023	0.092202
0.6954715	1.0423707	0.175567	6.557803	0.172777
0.721424	1.0212503	0.174802	7.022854	0.027455
0.748154	1.0247524	0.175872	7.038426	0.058552
0.774874	1.584517	0.183325	11.566434	0.033515
0.801154	3.016514	0.187578	19.351176	0.101335
0.8122014	3.0424588	0.191830	21.771149	0.030752
0.855054	3.0146121	0.196083	15.767654	0.143679
0.881753	3.051151	0.198325	23.226162	0.039688

THE SPECTRAL MOMENTS WERE COMPUTED
 USING A HIGH FREQUENCY TRUNCATION
 AT PI = 1.642191
 ZEROTH MOMENT = 2.077E05
 SECOND MOMENT = 8.458E05
 FIFTH MOMENT = 3.359E05
 ENCLASHERS FACTOR (SGRT(1.0+P2*2.0+2.0*P1)) = 0.42812
 SIGNIFICANT WAVE HEIGHTS (Hs) =
 4.000E05 = 4.000E04
 4.000E05*SGRT(1.0+P2*2.0+2.0*P1) = 0.7338E04

TABLE 34