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ROUND HILL TURBULENCE MEASUREMENTS VOLUME II

Data Tabulations for Runs 96A through 104

By

H. E. CRAMER, F. A. RECORD, AND J. E. TILLMAN
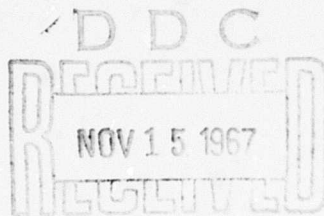
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ROUND HILL TURBULENCE MEASUREMENTS

VOLUME II

Data Tabulations for Runs 96A through 104

By

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For

U.S. Army Electronics Command
Atmospheric Sciences Laboratory, Research Division
Fort Huachuca, Arizona

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ABSTRACT

This volume contains the data summaries for Runs 96A through 104. Vertical profiles of mean wind speed and air temperature are presented in Section I and the turbulence statistics are presented in Section II. For a description of the field experiments and the data-processing procedures, reference should be made to Volume I of this series.

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FOREWORD

In December 1958, the research team at the Round Hill Field Station began a program of field measurements and data analysis dealing with characteristic properties of the energy spectra and cospectra associated with turbulent energy exchange processes within the first 100 meters of the atmosphere. The early phases of the work were devoted to the development of suitable instrumentation and experimental techniques and were carried out under Contract No. DA-36-039-SC-80209 with the U.S. Army Electronic Proving Ground at Fort Huachuca, Arizona. The instrumentation comprised a fast-response system for the simultaneous measurement of fluctuations in wind-velocity components and air-temperature, and a slow-response system for supporting meteorological measurements. Measurements of the fluctuations in refractive index were also made during several experiments. During the first phase of the field program, approximately 100 experiments were carried out on a 40-m tower located in relatively flat terrain. During the second phase of the program, 32 experiments were carried out on a 91-m tower located in a wooded area. Processing of the fast-response measurements was begun by the Meteorology Department at Fort Huachuca and continued by the Massachusetts Institute of Technology under Grant No. DA-AMC-28-043-65-G10.

The purpose of this series of five volumes is to furnish a comprehensive listing of spectral and cospectral calculations and of supporting meteorological data obtained from 76 selected field experiments. An analysis of much of the experimental data was carried out under Grant No. DA-AMC-36-039-64-G1 and will be published separately in a final report.

Publication of these volumes was carried out by the Atmospheric Sciences Research Division at Fort Huachuca under the direction of Mr. Thomas H. Pries. The authors wish to express their appreciation to Mr. Pries for his assistance in the preparation of this series. They also wish to acknowledge the valuable contributions and support of Mr. J.F. Appleby and Mr. W.D. Ohmstede of the Atmospheric Sciences Research Division throughout the research program.

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SECTION I

VERTICAL PROFILES OF MEAN WIND SPEED AND AIR TEMPERATURE

Vertical profiles of mean wind speed and air temperature, based on measurements taken at seven heights within the layer from 3.8 meters to 91.4 meters, are presented in Tables 1 and 2, respectively. Run number, date, and time duration of the measurements are indicated by column headings in the body of each table.

I

TABLE 1

VERTICAL PROFILES OF MEAN WIND SPEED

Run No.	96A	96B	96C	97	98
Date	6-19-63	6-19-63	6-19-63	7-3-63	7-3-63
Time (EST)	1621-1737	1751-1907	1921-2037	1446-1600	1631-1727

Height (m)	$\overline{U}$ (m sec^{-1})				
91.4	6.05	7.83	7.44	9.52	10.72
68.6	5.56	6.93	6.57	9.30	10.32
45.7	5.03	5.67	5.10	8.41	9.08
30.5	4.70	4.91	4.33	7.79	8.32
15.2	3.65	3.47	3.01	6.49	6.65
7.6	3.06	2.75	2.27	5.58	5.72
3.8	2.42	2.11	1.36	4.36	4.59

Run No.	99A	100A	100B	101A	101B
Date	7-3-63	7-3-63	7-3-63	7-4-63	7-4-63
Time (EST)	1807-1923	2124-2224	2235-2335	0814-0930	0944-1100

Height (m)	$\overline{U}$ (m sec^{-1})				
91.4	9.81	7.90	8.85	7.70	7.97
68.6	9.19	7.25	8.10	7.54	7.73
45.7	7.89	6.07	7.40	6.93	6.98
30.5	6.89	5.06	5.74	6.58	6.58
15.2	5.29	3.79	4.16	5.59	5.59
7.6	4.56	3.15	3.54	4.77	4.79
3.8	3.68	2.46	2.83	3.77	3.80

Run No.	101C	102A	103A	103B	104
Date	7-4-63	7-4-63	7-4-63	7-4-63	7-4-63
Time (EST)	1122-1238	1307-1423	1504-1620	1637-1753	2030-2126

Height (m)	$\overline{U}$ (m sec^{-1})				
91.4	9.28	9.51	9.33	7.64	8.17
68.6	8.94	9.15	9.07	7.33	7.61
45.7	7.84	8.11	8.21	6.52	5.94
30.5	7.06	7.41	7.19	6.06	4.80
15.2	5.76	6.05	5.90	5.01	3.26
7.6	4.98	5.28	5.13	4.33	2.50
3.8	4.01	4.29	4.17	3.39	1.54

TABLE 2

VERTICAL PROFILES OF MEAN AIR TEMPERATURE

Run No.	96A	96B*	96C	97	98
Date	6-19-63	6-19-63	6-19-63	7-3-63	7-3-63
Time (EST)	1621-1737	1751-1907	1921-2037	1446-1600	1631-1727

Height (m)		T (C)			
91.4	17.2	16.9	17.1	26.5	25.8
68.6	17.5	16.9	17.1	26.7	25.9
45.7	17.8	17.1	17.2	27.2	26.4
30.5	18.1	17.2	17.2	27.5	26.6
15.2	18.3	17.3	17.1	27.6	26.6
7.6	18.5	17.3	16.9	27.8	26.7
3.8	18.7	17.3	16.7	27.9	26.7

Run No.	99A	100A	100B	101A	101B
Date	7-3-63	7-3-63	7-3-63	7-4-63	7-4-63
Time (EST)	1807-1923	2124-2224	2235-2335	0814-0930	0944-1100

Height (m)		T (C)			
91.4	22.6	18.2	17.2	16.3	17.6
68.6	22.6	18.3	17.2	16.5	17.8
45.7	22.9	18.4	17.3	16.9	18.2
30.5	23.0	18.4	17.3	17.2	18.5
15.2	23.0	18.4	17.2	17.5	18.8
7.6	23.0	18.3	17.1	17.8	19.0
3.8	22.9	18.1	16.9	18.1	19.2

Run No.	101C	102A	103A	103B	104
Date	7-4-63	7-4-63	7-4-63	7-4-63	7-4-63
Time (EST)	1122-1238	1307-1423	1504-1620	1637-1753	2030-2126

Height (m)		T (C)			
91.4	19.2	20.2	21.6	22.0	21.5
68.6	19.4	20.4	21.8	22.2	20.8
45.7	19.8	20.8	22.3	22.6	20.2
30.5	19.9	21.0	22.5	22.7	19.8
15.2	20.2	21.2	22.8	22.9	19.1
7.6	20.3	21.4	22.9	22.9	18.8
3.8	20.4	21.5	22.9	22.8	17.7

*Temperature profile is for 1826-1907 (EST).

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SECTION II

TURBULENCE STATISTICS

A. EXPLANATION OF DATA-PRESENTATION FORMAT

Turbulence statistics are tabulated separately for each run and for each level at which data are available. Throughout the tabulation U, V, and W refer to the orthogonal components of the wind velocity and T refers to temperature. The letter E refers to the total kinetic energy defined by the expression $E = 1/2(U^2 + V^2 + W^2)$. Units of velocity are m sec^{-1} and the unit of temperature is deg C. Covariances and cospectra are identified by the appropriate symbols of the two variables separated by a comma, except that the covariance between the vertical component of the wind velocity and the total kinetic energy is identified simply by WE. The data presentation follows a standard format which is explained below.

1. Identification of Experiment

The run number, measurement height, date, and the time duration of each experiment are listed at the top of the first page of each data set.

2. Gross Statistics

a. Summary Information

Summary information is presented in three vertical columns. The first column gives the amount of cloud cover in tenths followed by the cloud type, and the thermal stratification. The second vertical column lists the mean wind speed, the mean azimuth wind direction, and the solar radiation. The third column presents the standard deviations of azimuth angle and elevation angle.

b. Variances

Variances are presented for the three components of the wind velocity and for air temperature. Identification of the

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variables for which the variances and other gross statistics have been calculated appears in the column at the left. Variances identified by E are one-half the sum of the variances of the three velocity components.

The variances for U, V, W, and T are presented for the four data sets indicated by the column headings below the summary information. These are:

- With No Running Mean - refers to the complete data set.

- With 301 Point Running Mean - data have been differenced with respect to a 301-point running mean.

- With 61 Point Running Mean - data have been differenced with respect to a 61-point running mean.

- 301 Pt Run Mean 10 Pt Block Avg - the 301-point running mean data set described above has been reduced by 10-point sequential block averaging.

The variance for E is presented for the first three of these data sets only.

c.   Gustiness Ratios

The gustiness ratios for the three orthogonal components of the wind velocity are defined as $\sigma_u/\bar{U}$, $\sigma_v/\bar{U}$, $\sigma_w/\bar{U}$ where σ is the standard deviation of the distribution and $\bar{U}$ is the mean wind speed. Gustiness ratios are presented for each of the four data sets described above.

d.   Covariances

The covariances U,V; U,W; U,T; V,W; V,T; and W,T are presented for each of the four data sets. The covariance WE is presented for the first three data sets only.

e.   Normalized Covariances

The normalized covariances for U,V; U,W; U,T; V,W; V,T; and W,T were calculated by dividing the covariances by the product of the standard deviations of the two variates.

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3. Spectral and Cospectral Estimates

Spectral and cospectral calculations were carried out using the last two data sets described in Section 2b above for variables U, V, W, and T. The results are presented in the following order:

    a. 61 Point Running Mean, No Block Averaging

       Normalized cospectrum covariance
       Normalized quadrature covariance
       Normalized autocovariance
       Cospectrum
       Quadrature spectrum
       Power spectrum

    b. 301 Point Running Mean, 10 Point Block Average

       Normalized cospectrum covariance
       Cospectrum
       Normalized quadrature covariance
       Quadrature spectrum
       Normalized autocovariance
       Power spectrum

    c. Coherence

Estimates of the coherence between levels are presented for each of the three wind velocity components and for temperature. These estimates include quadrature and are presented for both the 61 Point Running Mean, No Block Averaging and the 301 Point Running Mean, 10 Point Block Average data sets. Tabulation of the coherence estimates follows the power spectrum estimates for the second level.

Cospectrum covariance, quadrature covariance, and autocovariance are tabulated against lag number M. Cospectrum covariance and quadrature covariance estimates have been normalized by dividing by the product of the standard deviations of the two variables; autocovariance estimates have been normalized by dividing by the variance of the data set. Normalization factors head each column.

Cospectrum, quadrature spectrum, power spectrum, and coherence estimates are tabulated against K number. Tabulated values are to be multiplied by the power of 10 indicated in the column heading. Estimates have been combined within various frequency bands as indicated by K numbers at the left. Table 3 presents the relationship between these K numbers and the central frequencies of the individual bands.

It should be noted that the negative value of coherence for W at K = 0 for Run 98, 301 Point Running Mean, 10 Point Block Average is unreasonable and should be disregarded.

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TABLE 3

ADJUSTED FREQUENCY BANDS FOR SPECTRAL AND COSPECTRAL ESTIMATES

60-LAG ANALYSIS

K	f_k (cycles sec^{-1})	K	f_k (cycles sec^{-1})
1	0.0069	9-11	0.0694
2	0.0139	12-15	0.0937
3	0.0208	16-20	0.1250
4	0.0278	21-27	0.1667
5	0.0347	28-38	0.2222
6	0.0417	37-47	0.2917
7-8	0.0521	48-60	0.3750

30-LAG ANALYSIS

K	f_k (cycles sec^{-1})	K	f_k (cycles sec^{-1})
1	0.0014	7	0.0097
2	0.0028	8	0.0111
3	0.0042	9-11	0.0139
4	0.0056	12-14	0.0181
5	0.0069	15-21	0.0250
6	0.0083	22-30	0.0361

B. DATA SUMMARIES FOR RUNS 96A THROUGH 104

The remainder of this volume contains the tabulation of the turbulence statistics for Runs 96A through 104.

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RUN NO   96A   46M   6-19-63   1621-1737(EST)

GROSS STATISTICS

CLEAR   WIND SPEED   5.03 M/SEC   SIGMA A 9.30 DEG
UNSTABLE   WIND DIRECTION 219 DEG   SIGMA E 7.3 DEG
               SOLAR RAD.   0.45 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.91004E 00	0.73263E 00	0.36792E-00	0.57129E 00
V	0.57664E 00	0.47134E-00	0.38317E-00	0.29471E-00
W	0.32289E-00	0.29883E-00	0.22032E-00	0.17737E-00
T	0.37368E-01	0.11027E-01	0.43779E-02	0.93808E-02
E	0.90478E 00	0.75142E 00	0.48572E-00	
GUSTINESS RATIOS				
U	0.18965	0.17017	0.12059	0.15027
V	0.15097	0.13649	0.12306	0.10793
W	0.11297	0.10868	0.09332	0.08373
COVARIANCES				
U,V	0.36608E-01	0.27186E-01	0.24606E-01	0.19430E-01
U,W	-0.27566E-00	-0.21472E-00	-0.86573E-01	-0.18162E-00
U,T	-0.69230E-01	-0.59293E-01	-0.18775E-01	-0.53328E-01
V,W	-0.42272E-01	-0.25557E-01	-0.27803E-01	-0.13755E-01
V,T	0.32934E-01	0.88393E-02	0.86149E-02	0.55844E-02
W,T	0.16387E-01	0.14467E-01	0.50769E-03	0.14585E-01
WE	0.11086E-00	0.84931E-01	0.15459E-01	
NORMALIZED COVARIANCES				
U,V	0.05054	0.04626	0.06553	0.04735
U,W	-0.50853	-0.45889	-0.30407	-0.57055
U,T	-0.37542	-0.65968	-0.46780	-0.72846
V,W	-0.09797	-0.06810	-0.09569	-0.06016
V,T	0.22436	0.12261	0.21034	0.10621
W,T	0.14919	0.25202	0.01635	0.35755

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RUN NO   96A   46M   6-19-63   1621-1737(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.37559	0.28476	0.40140	0.29061	0.40965	0.31058
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.065267	-.304114	-.467484	-.095564	.210088	.016185
1	.062210	-.281110	-.439997	-.086054	.187670	.027631
2	.056600	-.244177	-.384908	-.068749	.154182	.034209
3	.047552	-.208646	-.324627	-.053803	.119406	.036564
4	.043869	-.175698	-.265688	-.044632	.090152	.032913
5	.047231	-.135936	-.214036	-.038631	.063812	.026239
6	.053289	-.096939	-.167038	-.028819	.038138	.018290
7	.051463	-.068322	-.129639	-.014344	.014880	.015067
8	.041384	-.045123	-.097596	-.002437	-.005833	.014259
9	.030773	-.019396	-.069690	.007442	-.020482	.015401
10	.021943	.004827	-.043154	.012812	-.029291	.012684
11	.015286	.021452	-.014187	.012310	-.037206	.010597
12	.009216	.035602	.016616	.013490	-.043149	.016256
13	.002550	.048264	.047867	.009634	-.042995	.017818
14	-.004971	.055717	.070102	.002806	-.043755	.015658
15	-.013417	.061496	.089281	-.000402	-.052386	.014031
16	-.017586	.067672	.102006	.008807	-.062636	.012410
17	-.019302	.075253	.112500	.025336	-.070111	.006610
18	-.020408	.075687	.125431	.034472	-.069915	.001162
19	-.024010	.072060	.136602	.031894	-.064054	-.001069
20	-.029112	.072318	.140924	.030831	-.060607	.000362
21	-.031411	.071961	.143175	.039206	-.061425	.001120
22	-.034832	.070785	.143549	.047774	-.062269	.002232
23	-.045923	.072450	.141612	.045351	-.063532	.002272
24	-.052491	.073085	.135356	.035711	-.063152	.000943
25	-.053585	.066106	.127460	.033007	-.057499	.002472
26	-.053821	.054102	.115874	.030362	-.047201	.008358
27	-.050218	.048859	.095795	.028754	-.039015	.013550
28	-.042197	.046854	.075516	.027771	-.036690	.014996
29	-.028374	.040728	.056913	.031452	-.038458	.019112
30	-.014121	.030650	.043305	.035190	-.040591	.024396
31	-.000580	.023151	.036561	.032601	-.040763	.026388
32	.011112	.015254	.031605	.023339	-.040580	.029568
33	.018471	.005256	.027390	.015936	-.038165	.033000
34	.022580	-.000136	.024397	.006169	-.034613	.024824
35	.028911	.002153	.024107	-.003691	-.033408	.010932
36	.037332	.008275	.019062	-.010967	-.031633	-.001757
37	.044516	.013592	.014015	-.020459	-.029069	-.012141
38	.050206	.014458	.009643	-.034395	-.021534	-.016411
39	.055305	.010279	.004416	-.047249	-.016013	-.019472
40	.054607	.005620	.001869	-.055428	-.012103	-.023996
41	.051100	.002499	.000267	-.056093	-.011086	-.033586
42	.040944	.005555	-.002913	-.047920	-.001097	-.042741
43	.029529	.013161	-.007523	-.036651	.008856	-.045648
44	.014627	.021936	-.012304	-.019940	.014845	-.043355
45	.000170	.026959	-.011439	-.012279	.017119	-.045336
46	-.016231	.032363	-.007377	-.008919	.024555	-.045793
47	-.028261	.037494	-.003765	-.007982	.031902	-.046395
48	-.035219	.042057	-.001757	-.011412	.039624	-.046670
49	-.042476	.041012	.002781	-.013310	.048940	-.042042
50	-.049128	.039480	.005527	-.008467	.060444	-.040442
51	-.054032	.039712	.008534	-.006757	.068519	-.038146
52	-.058306	.037708	.012789	-.004476	.073661	-.031928
53	-.064270	.037486	.016861	.002133	.074631	-.028284
54	-.073612	.038065	.018962	.013429	.070902	-.024719
55	-.081656	.035626	.023523	.022634	.067486	-.016965
56	-.085558	.033485	.026459	.026459	.069237	-.011407
57	-.087928	.028318	.022533	.021876	.067947	-.003852
58	-.089827	.018354	.020928	.023098	.065006	-.000965
59	-.091950	.009975	.024829	.026366	.058878	-.003922
60	-.090619	.007001	.025908	.029317	.050465	-.001761

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RUN NO   96A   46M   6-19-63   1621-1737(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.37559	0.28476	0.40140	0.29061	0.40965	0.31058
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.007080	-.019827	-.044272	.006303	.044619	-.022475
2	-.006512	-.031680	-.067286	.011006	.071607	-.028507
3	-.002846	-.036095	-.079236	.007738	.087488	-.022879
4	-.004057	-.040844	-.081732	-.003370	.101622	-.019146
5	-.008521	-.046360	-.081171	-.013409	.108730	-.021561
6	-.012079	-.047707	-.082684	-.022100	.108874	-.026965
7	-.007422	-.047448	-.086872	-.022900	.103714	-.033902
8	.000767	-.050275	-.089746	-.022537	.100637	-.036436
9	.006212	-.053260	-.091732	-.020811	.097597	-.031684
10	.012607	-.057132	-.088892	-.016813	.094966	-.025515
11	.016753	-.054632	-.085258	-.015471	.087906	-.017830
12	.020210	-.046486	-.084212	-.008746	.078235	-.003754
13	.021717	-.042678	-.088562	.001232	.068272	.014173
14	.017658	-.040569	-.091987	.003729	.057702	.024040
15	.018751	-.039047	-.088833	.001907	.046425	.022609
16	.017708	-.046660	-.081615	-.003669	.038481	.015438
17	.014820	-.048437	-.076514	-.003885	.025622	.012346
18	.007936	-.044003	-.074397	-.004114	.013797	.015126
19	.003197	-.035100	-.068472	-.004908	.005086	.027141
20	-.000444	-.024828	-.064305	-.007280	.002852	.025077
21	-.006704	-.019927	-.056945	-.009455	.000665	.029662
22	-.007710	-.017707	-.042748	-.011178	-.001643	.034274
23	-.004292	-.013862	-.032330	-.006414	-.005984	.034765
24	-.001057	-.008586	-.024791	-.006910	-.013629	.033839
25	.003128	-.009129	-.016778	-.007976	-.020879	.031938
26	.009630	-.009733	-.006483	-.008015	-.025821	.026308
27	.013322	-.016530	-.000115	-.012358	-.028159	.019467
28	.009952	-.023569	.004359	-.017190	-.027323	.016294
29	.009140	-.024694	.007081	-.019400	-.021383	.015036
30	.007486	-.018009	.007848	-.018495	-.015388	.014523
31	-.000534	-.010274	.003172	-.011921	-.014112	.015786
32	-.008161	-.005507	-.002858	-.007180	-.015112	.024169
33	-.007550	-.007902	-.003295	-.000707	-.019382	.034656
34	-.009234	-.005934	-.002486	.006506	-.018042	.039845
35	-.007175	-.002689	-.003111	.005474	-.009866	.042852
36	.002520	.002280	-.004719	.000333	-.002810	.033994
37	.011052	.003927	-.001930	.002202	.002427	.017818
38	.016384	.005658	.004228	.007351	.009362	.003978
39	.018177	.001955	.009289	.016142	.011477	-.009426
40	.018123	-.004153	.012367	.021432	.012081	-.023011
41	.016589	-.007145	.014090	.022044	.014042	-.029739
42	.014145	-.001226	.014017	.019411	.014183	-.030932
43	.009663	.002263	.011619	.015309	.009571	-.032104
44	.009355	.003750	.010327	.016590	-.000605	-.032577
45	.010907	.009818	.013315	.021578	-.009443	-.038556
46	.009089	.014452	.016123	.019190	-.013271	-.040656
47	.006741	.018732	.016245	.014503	-.014038	-.039977
48	.008982	.020386	.008807	.012449	-.017669	-.039592
49	.014217	.023313	.000179	.016879	-.023202	-.038302
50	.015334	.023183	-.001255	.024500	-.031148	-.034920
51	.016829	.024134	.000727	.026294	-.032461	-.029446
52	.019104	.027822	.001386	.033814	-.030094	-.023887
53	.015697	.031362	.000099	.038703	-.029319	-.017394
54	.011096	.033018	-.001423	.037796	-.029352	-.012003
55	.010238	.036967	-.001744	.029886	-.030893	-.010719
56	.014751	.042888	.005339	.023719	-.027000	-.010602
57	.015292	.043596	.012092	.017810	-.019531	-.009565
58	.012012	.038711	.017902	.012031	-.009333	-.010207
59	.008215	.038049	.020924	.000775	.004553	-.011094
60	.001666	.037259	.018010	-.008383	.016799	-.008700

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61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.36804 10E 00	0.38331 10E 00	0.22032 10E 00	0.43780 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.868054	.843657	.796249	.884835
2	.696066	.642596	.559839	.740230
3	.548858	.479783	.393360	.610159
4	.431160	.352753	.272102	.497424
5	.334982	.252053	.178808	.398276
6	.256043	.173733	.104538	.314306
7	.187620	.111378	.046297	.237710
8	.120020	.061573	.004320	.167012
9	.061205	.008924	-.040327	.098718
10	.012780	-.033081	-.088115	.037366
11	-.029262	-.061915	-.130616	-.018762
12	-.068974	-.085474	-.164946	-.069427
13	-.106174	-.103201	-.181128	-.117425
14	-.140290	-.128677	-.187798	-.158811
15	-.164098	-.165075	-.187648	-.194506
16	-.185256	-.201206	-.183266	-.223557
17	-.200448	-.237012	-.189943	-.243124
18	-.213462	-.253960	-.199830	-.256189
19	-.227831	-.252977	-.198219	-.270672
20	-.241204	-.245119	-.180964	-.280186
21	-.255053	-.233352	-.161899	-.289207
22	-.259797	-.228151	-.145878	-.293139
23	-.260494	-.226705	-.132746	-.292136
24	-.259190	-.228324	-.128323	-.283341
25	-.244352	-.222211	-.123404	-.268858
26	-.219571	-.208771	-.118150	-.243718
27	-.196311	-.194058	-.117071	-.214838
28	-.171760	-.176567	-.107808	-.180059
29	-.145711	-.162141	-.091058	-.144786
30	-.118180	-.141551	-.070318	-.114830
31	-.093039	-.117246	-.044899	-.089551
32	-.073305	-.087023	-.021112	-.075584
33	-.055197	-.055097	-.005442	-.066966
34	-.046559	-.025838	.009953	-.053012
35	-.037979	-.011010	.026840	-.042527
36	-.027078	-.005743	.029282	-.029982
37	-.012389	-.000060	.028883	-.018550
38	.004651	.008376	.026514	-.004697
39	.017507	.018529	.029232	.004061
40	.020388	.026599	.039969	.011218
41	.022452	.031090	.041335	.013392
42	.019313	.033445	.029459	.016715
43	.009554	.036846	.006998	.015173
44	.000521	.039108	-.015359	.014227
45	-.010283	.039454	-.026008	.017630
46	-.016153	.042302	-.021052	.023209
47	-.017627	.048424	-.001848	.021961
48	-.013003	.050562	.016219	.018192
49	-.014425	.047385	.021863	.016805
50	-.025433	.045336	.023558	.020265
51	-.037047	.037358	.018867	.026046
52	-.046066	.018450	.007123	.031395
53	-.048359	-.001606	-.008298	.034784
54	-.050241	-.015437	-.025464	.035344
55	-.052919	-.020117	-.048629	.031602
56	-.054857	-.017899	-.071178	.028502
57	-.046677	-.008422	-.079326	.029416
58	-.032963	-.001543	-.075871	.027397
59	-.021824	-.003558	-.063441	.026554
60	-.023373	-.002449	-.050531	.026254

RUN NO   96A   46M   6-19-63   1621-1737(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-02	10E-03
0	.156961	-.023125	-.060827	-.027435	-.009359	.173694
1	.670329	-.155459	-.368590	-.274976	.070589	.583800
2	.647021	-.159048	-.385245	-.531409	.152741	.133494
3	.867326	-.167945	-.388852	-.635715	.159773	.073016
4	.236580	-.124715	-.246820	-.244409	.113190	.199093
5	-.222508	-.070647	-.118632	-.115447	.087404	-.010358
6	.055820	-.049891	-.069347	-.238112	.056849	-.074973
7-8	.007526	-.032809	-.064539	-.150070	.043183	.080827
9-11	-.036233	-.013953	-.036904	-.059763	.023663	.002046
12-15	.037647	-.006870	-.022103	-.006468	.007131	-.039486
16-20	.054002	-.002996	-.005813	-.040865	.008091	-.031956
21-27	-.002978	-.002521	-.004366	-.021405	.004206	-.016219
28-36	-.007368	-.002273	-.001991	-.002382	.001377	-.008467
37-47	.001066	-.000476	-.000632	-.003431	.000943	-.007736
48-60	.003070	-.000566	-.000492	-.000322	.001071	-.007170

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03
1	.229493	-.742678	-.175181	-.166342	.087017	.334247
2	.100741	-.604890	-.158098	-.168921	.113238	.070322
3	.094881	-.429725	-.126173	-.042545	.142599	-.349986
4	.014166	-.279241	-.065086	-.049219	.121316	-.340566
5	-.097403	-.156219	-.024839	-.125042	.066713	-.218102
6	-.131006	-.070844	-.014058	-.075217	.040622	-.232459
7-8	-.159117	-.045562	-.028316	.018907	.025233	-.027960
9-11	.034483	-.039993	-.014329	.081560	.013513	.023014
12-15	.013839	-.032452	-.009557	.046265	.007887	-.040727
16-20	-.008736	-.004686	-.008133	.024777	.002711	-.048171
21-27	-.025475	-.015344	-.001240	-.005438	.002501	-.033537
28-36	-.007612	-.005914	-.001195	-.003244	.001821	-.008150
37-47	-.001997	.000900	-.000914	-.003080	.000507	.000467
48-60	.003075	.000329	-.000378	.003427	-.000278	-.000168

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.073665	.039763	.018139	.097899
1	.548819	.427725	.174500	.711023
2	.625679	.583926	.245226	.825227
3	.646737	.634201	.308584	.850736
4	.417290	.412946	.250924	.540271
5	.228584	.249460	.173915	.276436
6	.183868	.206115	.140708	.185884
7-8	.152383	.168426	.096700	.154635
9-11	.085316	.126634	.068065	.084878
12-15	.058800	.060899	.049104	.057847
16-20	.034953	.047003	.029089	.033560
21-27	.019729	.024206	.020276	.018476
28-36	.012091	.016050	.012927	.012480
37-47	.007552	.009973	.008358	.008427
48-60	.005583	.006259	.005142	.006226

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.41042	0.31819	0.73192	0.22860	0.52583	0.40767
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.047343	-.570787	-.728597	-.060172	.106200	.357761
1	.044537	-.418050	-.571481	-.007151	-.005508	.349148
2	-.011366	-.284924	-.410760	.008907	-.024562	.285481
3	-.042705	-.169823	-.278846	.057047	-.020984	.215011
4	-.024027	-.048073	-.137545	-.007927	.003722	.089239
5	-.081621	.043534	-.002512	.017882	.054860	-.003661
6	-.072649	.086866	.104936	.022627	.067885	-.056947
7	.027112	.097129	.188617	.003951	.006225	-.108610
8	.075538	.152924	.228590	.005350	.006901	-.159714
9	.002633	.202318	.242189	.033305	.012998	-.172691
10	-.010561	.192787	.237593	-.061285	.008316	-.189443
11	.018606	.198018	.236070	-.040200	-.036849	-.207856
12	.033553	.204576	.239458	.023407	-.021899	-.183269
13	.051985	.212695	.233471	-.025286	-.093628	-.155078
14	.024577	.158966	.177276	-.070178	-.090130	-.137132
15	-.009912	.092396	.108674	-.042931	-.026448	-.065351
16	-.006317	.019591	.055917	-.011547	.002206	.001513
17	-.041488	-.052957	.000575	.038588	.002820	.044834
18	-.043736	-.133731	-.054604	.053842	-.000084	.088175
19	-.054585	-.157199	-.058072	.043214	.000400	.136259
20	-.013760	-.150487	-.060532	.026776	.009225	.138098
21	.019149	-.147887	-.086470	-.023227	.005413	.148602
22	.035943	-.079038	-.068080	-.041170	.023746	.079287
23	.054932	-.021600	-.019997	-.046948	-.021236	.004174
24	.065195	.026470	.022755	-.028286	-.013059	-.055292
25	.039103	.040573	.025794	.013686	-.013476	-.073866
26	-.002272	.061081	.017526	.001264	.041451	-.081724
27	-.059676	.045948	.040723	.051001	.093225	-.089266
28	-.064289	.091681	.037485	.017506	.095487	-.116907
29	-.034481	.138631	.047465	.005853	.017264	-.099215
30	-.002444	.146193	.065454	-.008525	-.024359	-.120780

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-02	10E-03	10E-02
0	-.033286	-.021432	-.008815	-.009853	-.005668	.030566
1	-.205157	-.192240	-.079461	.068517	.465289	.240882
2	-.176683	-.325328	-.108400	.132132	.669774	.376423
3	-.253414	-.430975	-.125269	.109117	.219892	.495499
4	.141677	-.241156	-.078292	-.121114	-.606733	.269355
5	.768750	-.090370	-.036862	-.291096	-.683648	.067596
6	.580837	-.123613	-.028336	-.067853	.030028	.076520
7	.437807	-.107951	-.019756	.002830	.432555	.048852
8	.658926	-.056584	-.009134	-.192444	.231018	.013550
9-11	.039462	-.038714	-.006652	-.084247	.521605	-.003682
12-14	-.066318	-.008219	-.006754	-.137728	.421772	-.011547
15-21	.072430	-.023412	-.004989	.009453	.222351	.003954
22-30	-.055602	-.017179	-.003254	-.102108	.304638	-.006704

RUN NO   96A   46M   6-19-63   1621-1737(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.41042	0.31819	0.73192	0.22860	0.52583	0.40767
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.016308	-.055918	-.127064	-.005943	.090055	.031101
2	.040808	-.056711	-.181557	-.007059	.065521	.096130
3	.070829	-.041058	-.201682	.035173	.081278	.126948
4	.089268	.006907	-.200559	.079110	.095851	.119230
5	.057364	.054959	-.181784	.098863	.072289	.106629
6	.036127	.057340	-.155531	.057033	.098483	.114309
7	.004928	.056331	-.118576	.046903	.064150	.125181
8	-.034940	-.004314	-.093043	.030691	.001534	.075713
9	-.065304	.010942	-.077649	.010826	-.030472	.068083
10	-.039249	.000040	-.039538	.012147	-.017882	.030951
11	-.030927	-.002897	-.025502	-.048804	-.031523	-.005131
12	-.050190	-.000390	-.015737	-.061265	-.054803	-.017807
13	-.100112	-.012657	.018648	-.075634	-.100521	-.034203
14	-.094232	-.023239	.047067	-.056002	-.096555	-.068248
15	-.020535	-.005456	.055759	-.086808	-.032415	-.083534
16	.011760	-.045023	.068435	-.082761	.004319	-.115109
17	.006642	-.040892	.069516	-.035881	-.006092	-.100168
18	.024849	-.004891	.055827	-.037557	.030074	-.030368
19	.066599	.026526	.013085	.059184	.062389	.009444
20	.081473	.040899	-.019427	.050707	.078619	.058744
21	.074993	.022207	-.037561	.064720	.090663	.073465
22	.090096	.012122	-.024110	.045515	.100760	.075671
23	.106564	-.000153	-.002812	.080609	.091252	.063201
24	.092989	-.014826	.002291	.094770	.057126	.066457
25	.085608	-.009825	.012130	.072356	.037015	.057272
26	.068469	-.003451	.013842	.099646	.044189	.013812
27	.046085	-.008244	.022590	.086171	.038163	-.015386
28	.018251	-.037296	.021710	.029641	.042076	-.055234
29	-.004974	-.008216	-.010233	-.054048	.010846	-.053555
30	-.025461	-.002636	-.011119	-.025439	-.013957	-.063399

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02
1	-.023460	.081601	-.363431	-.034767	.045569	.105193
2	-.018639	.169370	-.453642	.241800	.056099	.157159
3	.104969	.251368	-.519938	.792870	.203839	.228143
4	.133755	-.004316	-.340311	.468328	.203832	.117147
5	.052617	-.384298	-.169099	-.114282	.056495	-.000915
6	.022485	-.408112	-.162298	-.139428	.012311	.025575
7	.017921	-.434196	-.127852	-.084576	.022663	.028312
8	.003088	-.587569	-.049476	-.168612	.017253	-.003838
9-11	-.028172	-.250981	-.037975	-.173892	.009667	.013154
12-14	.002237	.040542	-.021485	-.035168	.042871	-.011144
15-21	.000681	-.030022	-.014060	.034696	.021831	-.009201
22-30	-.003060	-.025115	-.004855	.014498	.005521	-.003098

RUN NO 96A 46M 6-19-63 1621-1737(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.57127	0.29486	0.17723	0.93775
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.660299	.306677	.410557	.741284
2	.394482	.058664	.196654	.501985
3	.218012	-.012598	.121319	.328233
4	.062276	-.027430	-.015223	.168986
5	-.068047	-.049987	-.066617	.002189
6	-.141045	-.069411	-.145952	-.125049
7	-.169965	-.069268	-.103235	-.258660
8	-.184871	-.058031	-.182596	-.323318
9	-.218313	-.119849	-.275906	-.331854
10	-.239919	-.067816	-.226639	-.299256
11	-.247241	-.178004	-.239234	-.273422
12	-.261308	-.097819	-.231105	-.256350
13	-.278829	-.215280	-.218239	-.250075
14	-.241198	-.118014	-.144061	-.167115
15	-.155973	-.027273	-.020452	-.081810
16	-.058139	.030836	.043425	-.020090
17	.006815	.016893	.108655	.031149
18	.079055	-.023580	.202575	.094070
19	.073712	-.069573	.192612	.086796
20	.057744	.008480	.227508	.058878
21	.085582	.065770	.157340	.044452
22	.063453	.097165	.081601	.009994
23	.039033	-.040423	.067583	-.053876
24	.049163	.018875	-.051014	-.114333
25	.045095	.070945	-.032169	-.113055
26	.032176	.044957	-.089385	-.074787
27	-.006149	.020512	-.046277	-.053743
28	-.013557	.027734	-.100870	-.036635
29	-.078233	-.051906	-.193266	-.046792
30	-.097161	-.035797	-.159724	-.042460

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.006316	.008892	.007590	.016745
1	.062875	.146699	.076690	.131885
2	.090595	.229073	.176658	.167162
3	.104082	.264417	.279157	.202965
4	.065176	.185161	.177020	.142955
5	.037859	.133587	.069282	.065892
6	.039106	.147475	.089291	.044626
7	.033917	.181112	.096558	.031784
8	.021424	.168668	.074827	.015997
9-11	.013504	.122222	.060445	.019002
12-14	.009813	.111072	.039382	.015360
15-21	.009082	.099713	.053046	.010868
22-30	.006859	.097779	.052205	.007104

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GROSS STATISTICS

CLEAR	WIND SPEED	6.05 M/SEC	SIGMA A 7.20 DEG
UNSTABLE	WIND DIRECTION	226 DEG	SIGMA E 5.5 DEG
	SOLAR RAD.	0.45 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.10711E 01	0.49802E-00	0.25506E-00	0.40285E-00
V	0.52320E 00	0.34136E-00	0.25810E-00	0.21767E-00
W	0.24478E-00	0.22370E-00	0.20442E-00	0.11542E-00
T	0.63790E-01	0.64515E-02	0.26630E-02	0.55577E-02
E	0.91955E 00	0.53157E 00	0.35879E-00	
GUSTINESS RATIOS				
U	0.17107	0.11665	0.08348	0.10491
V	0.11956	0.09657	0.08397	0.07712
W	0.08178	0.07818	0.07473	0.05615
COVARIANCES				
U,V	-0.96719E-01	0.42697E-01	0.44129E-01	0.36452E-01
U,W	-0.20328E-00	-0.16168E-00	-0.10602E-00	-0.13317E-00
U,T	-0.13875E-00	-0.31040E-01	-0.75917E-02	-0.28955E-01
V,W	-0.18637E-01	-0.20800E-01	-0.27929E-01	-0.80434E-02
V,T	0.82152E-01	0.33824E-02	0.28440E-02	0.22357E-02
W,T	0.82532E-02	0.43473E-02	-0.43838E-03	0.58818E-02
WE	0.16459E-00	0.92665E-01	0.40431E-01	
NORMALIZED COVARIANCES				
U,V	-0.12920	0.10355	0.17199	0.12310
U,W	-0.39699	-0.48438	-0.46431	-0.61757
U,T	-0.53082	-0.54761	-0.29129	-0.61194
V,W	-0.05208	-0.07527	-0.12159	-0.05075
V,T	0.44968	0.07208	0.10848	0.06428
W,T	0.06605	0.11443	-0.01879	0.23223

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RUN NO   96A   91M   6-19-63   1621-1737(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25654	0.22830	0.26066	0.22970	0.26225	0.23338
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.172027	-.464330	-.291181	-.121490	.108190	-.018870
1	.163737	-.433931	-.266683	-.104715	.094794	-.001643
2	.150118	-.377413	-.232538	-.076177	.074937	.017577
3	.134825	-.312902	-.198830	-.050437	.061918	.029137
4	.116169	-.243368	-.175786	-.028660	.049269	.032968
5	.092068	-.186127	-.159390	-.005732	.039736	.032762
6	.072252	-.143218	-.140215	.015546	.032351	.030622
7	.054417	-.108257	-.120766	.018870	.025761	.031853
8	.033093	-.078607	-.102968	.011831	.018985	.034823
9	.015409	-.049303	-.087915	.004558	.012783	.039455
10	-.000168	-.016515	-.072795	.001032	.004964	.041841
11	-.022439	.015670	-.055951	-.002875	.000168	.040740
12	-.043759	.039812	-.040518	.000334	-.002311	.041668
13	-.056185	.057268	-.026109	.007777	-.005629	.043560
14	-.059618	.067142	-.008704	.019722	-.012560	.039837
15	-.061878	.077378	.010828	.024630	-.019247	.035615
16	-.068852	.089750	.026693	.031500	-.024534	.029190
17	-.079065	.102087	.041042	.044417	-.028168	.021925
18	-.087923	.118448	.057445	.052217	-.031646	.009819
19	-.092364	.136834	.073577	.050123	-.038378	-.003539
20	-.091896	.154057	.085184	.039403	-.043821	-.015055
21	-.088573	.164935	.090559	.024090	-.048546	-.020986
22	-.087193	.168812	.089738	.009510	-.050338	-.025190
23	-.083729	.167488	.084536	.001131	-.051046	-.028474
24	-.081745	.160077	.078657	.001611	-.048789	-.031848
25	-.077506	.150063	.074053	.006434	-.042691	-.032749
26	-.070682	.141011	.068366	.013754	-.036430	-.027413
27	-.060092	.127133	.066100	.016085	-.032677	-.022868
28	-.049907	.114265	.065389	.014365	-.030028	-.020454
29	-.036554	.101891	.066461	.010674	-.027944	-.020460
30	-.023887	.088850	.066425	.007960	-.023478	-.017663
31	-.011642	.072874	.062608	.011081	-.019445	-.015969
32	.000506	.058839	.059017	.014110	-.017187	-.010645
33	.005749	.047089	.052653	.009939	-.011798	-.003411
34	.006986	.034658	.045716	.004918	-.008289	.003291
35	.008679	.028686	.039756	.002756	-.002334	.008353
36	.006775	.023444	.036116	.003263	.002354	.012548
37	.011685	.011253	.032376	.006131	.003434	.018978
38	.023224	.000266	.029758	.009228	.005944	.021043
39	.031451	-.010510	.026477	.010750	.009879	.022360
40	.036676	-.021598	.024479	.008804	.013752	.019921
41	.035346	-.027636	.026805	.007806	.018312	.017899
42	.031015	-.024254	.029936	.007576	.021511	.014692
43	.024299	-.014375	.028846	.014805	.022292	.009155
44	.019730	-.005979	.030058	.012325	.019771	.000438
45	.016880	-.002207	.031137	-.002654	.014064	-.012934
46	.012448	-.003209	.033890	-.020220	.010975	-.019268
47	.008271	-.009228	.034799	-.036046	.010999	-.018862
48	.000733	-.015778	.032877	-.039443	.012660	-.018466
49	-.003796	-.020178	.032845	-.039073	.017542	-.021447
50	-.000740	-.023871	.030688	-.038218	.017992	-.020423
51	-.001910	-.026047	.026002	-.033804	.016382	-.017351
52	-.004075	-.024519	.021331	-.028533	.016837	-.018659
53	-.002299	-.027833	.021148	-.024059	.019392	-.023613
54	-.002045	-.033229	.018818	-.015971	.020282	-.026950
55	.001770	-.032094	.014187	-.013461	.018220	-.033506
56	.008504	-.025083	.012472	-.018967	.012675	-.042916
57	.011571	-.018417	.009645	-.020232	.004827	-.048943
58	.012663	-.008339	.006137	-.016868	-.004111	-.051375
59	.014769	.000409	.002976	-.008993	-.013169	-.049903
60	.017146	.006026	-.001233	-.000942	-.019405	-.048538

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NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25654	0.22830	0.26066	0.22970	0.26225	0.23338
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.005265	-.003464	-.007320	-.000549	.030648	-.029686
2	.005697	-.014295	-.004815	-.005301	.050489	-.046226
3	.006890	-.022756	-.000576	-.007684	.060242	-.047340
4	.004003	-.031615	-.001472	-.013531	.063248	-.040625
5	.001843	-.038681	-.004854	-.014722	.066138	-.033125
6	-.002351	-.033343	-.007469	-.008350	.067586	-.023523
7	-.004678	-.019380	-.008757	-.006402	.067037	-.010567
8	-.006683	-.005737	-.013665	-.008615	.065783	.005546
9	-.008767	.004170	-.022223	-.014093	.066444	.016549
10	-.012039	.012350	-.029748	-.014485	.066391	.027029
11	-.013324	.016241	-.033134	-.011501	.061459	.032602
12	-.009251	.015710	-.039038	-.002408	.053845	.037078
13	-.005185	.011745	-.044818	.010276	.047618	.040474
14	-.001608	.007711	-.045930	.021164	.042724	.042754
15	-.001307	.004691	-.043874	.019363	.038992	.042749
16	-.002483	.006151	-.039698	.014773	.030812	.035851
17	-.000486	.005866	-.032910	.009129	.025936	.022667
18	-.000497	-.003375	-.023357	-.001388	.025120	.006676
19	-.007411	-.010072	-.017984	-.010061	.021549	-.005696
20	-.015449	-.014299	-.016003	-.014297	.016881	-.014776
21	-.025416	-.011496	-.016627	-.021592	.009454	-.016775
22	-.032747	-.009036	-.019462	-.030847	.003556	-.012594
23	-.033063	-.008597	-.022402	-.040179	.000601	-.012604
24	-.029846	-.005960	-.021686	-.046569	-.004220	-.012206
25	-.023801	-.008280	-.018677	-.042785	-.009790	-.015517
26	-.018254	-.006918	-.012003	-.040655	-.012713	-.014460
27	-.014224	-.000779	-.008632	-.041526	-.011365	-.012789
28	-.008440	-.000286	-.008131	-.036538	-.009561	-.011481
29	-.005475	-.003682	-.012080	-.030706	-.008866	-.010027
30	-.008076	-.008436	-.018072	-.019719	-.013356	-.010633
31	-.011516	-.001192	-.025715	-.003260	-.015950	-.012804
32	-.011489	.008456	-.030562	.010330	-.016001	-.011841
33	-.004328	.016717	-.030342	.012996	-.012675	-.007316
34	.003882	.020371	-.025947	.011851	-.008222	-.005387
35	.004248	.024748	-.024094	.011735	-.006974	-.000878
36	-.000330	.025394	-.026056	.011918	-.011075	.004957
37	-.008115	.030770	-.034577	.013393	-.019724	.015538
38	-.014306	.036842	-.044652	.013794	-.029108	.023818
39	-.014472	.029367	-.051288	.008083	-.031266	.027390
40	-.012798	.016410	-.053075	.000735	-.031085	.028975
41	-.007610	.005047	-.051789	-.004946	-.027703	.031251
42	-.004040	-.003390	-.052854	-.008625	-.025619	.030790
43	-.005480	-.009250	-.051582	-.009053	-.026467	.028421
44	-.006627	-.013119	-.047418	-.009438	-.027779	.027536
45	-.011557	-.015000	-.042008	-.012022	-.032568	.026602
46	-.013875	-.015574	-.041747	-.013943	-.034851	.027123
47	-.012957	-.022767	-.042516	-.010146	-.031792	.027071
48	-.013312	-.025980	-.041284	-.010848	-.024991	.027118
49	-.008612	-.028573	-.039219	-.007503	-.016533	.023956
50	-.001206	-.030340	-.033869	.004212	-.011158	.018188
51	.005234	-.029454	-.028961	.017434	-.007474	.014₅⁸
52	.009245	-.029031	-.025951	.025158	-.000726	.009285
53	.014276	-.025602	-.018779	.028829	.009411	.002859
54	.023463	-.021898	-.010667	.034640	.018278	.001811
55	.034602	-.019003	-.002161	.040139	.025116	.005564
56	.041065	-.017783	.007351	.051917	.025734	.006631
57	.048754	-.011182	.014246	.058748	.024014	.007490
58	.055491	-.006789	.023105	.056260	.024625	.004343
59	.054105	-.004894	.029669	.047987	.027959	-.000438
60	.049418	-.001858	.035215	.041650	.030019	-.004416

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NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.25499	0.25811	0.20441	0.26646
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.873617	.846272	.797761	.919640
2	.711253	.634339	.544954	.802104
3	.576284	.464097	.363201	.684484
4	.469911	.328613	.232569	.578133
5	.385188	.223658	.145409	.481117
6	.310191	.140812	.086939	.393582
7	.245093	.068111	.042465	.315855
8	.169570	.008348	-.001304	.251680
9	.135428	-.035530	-.040033	.197132
10	.078393	-.063614	-.065837	.146014
11	.022601	-.090121	-.092661	.094681
12	-.026594	-.118574	-.126390	.044053
13	-.063049	-.148920	-.154382	-.006260
14	-.090781	-.179543	-.169675	-.056275
15	-.116016	-.205507	-.178764	-.104029
16	-.144834	-.225883	-.182988	-.145300
17	-.177785	-.233171	-.189549	-.181026
18	-.213465	-.231176	-.193600	-.212512
19	-.243500	-.228994	-.199207	-.241306
20	-.267094	-.220312	-.196638	-.267482
21	-.279175	-.209107	-.190644	-.290449
22	-.281961	-.199514	-.190298	-.308226
23	-.278491	-.188529	-.197490	-.321981
24	-.275131	-.175045	-.189560	-.328853
25	-.267886	-.161159	-.168201	-.332383
26	-.256142	-.154839	-.152922	-.334083
27	-.242250	-.153000	-.137267	-.327768
28	-.223984	-.152603	-.111627	-.317988
29	-.206781	-.144510	-.082148	-.306945
30	-.190118	-.125976	-.058956	-.295601
31	-.166119	-.101214	-.027963	-.283418
32	-.143061	-.083782	-.004304	-.277159
33	-.127381	-.062461	.007505	-.266480
34	-.111759	-.037765	.010767	-.255273
35	-.100273	-.014297	.010919	-.242748
36	-.089227	.007103	.013339	-.230341
37	-.073838	.025694	.024176	-.211343
38	-.067680	.043522	.031561	-.186288
39	-.067953	.058535	.036727	-.160274
40	-.065984	.076656	.042135	-.134495
41	-.062359	.088169	.042490	-.111787
42	-.054069	.083407	.041814	-.095591
43	-.048774	.075407	.034320	-.083408
44	-.047288	.064756	.031332	-.074999
45	-.043778	.054074	.033773	-.063574
46	-.039582	.045802	.033063	-.050216
47	-.037293	.036730	.027170	-.033472
48	-.027464	.027865	.019231	-.013059
49	-.015794	.023984	.018255	.009741
50	-.002683	.016190	.020602	.032635
51	.007313	.005641	.017324	.053855
52	.010942	-.003965	.006231	.074445
53	.016046	-.014297	.001293	.091477
54	.020298	-.023922	-.007217	.101747
55	.028175	-.026297	-.004200	.110656
56	.037793	-.028612	.009922	.120050
57	.043103	-.026340	.024304	.131364
58	.041899	-.021770	.027704	.143958
59	.041188	-.012719	.026586	.159098
60	.042833	-.002953	.023740	.174415

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-03	10E-03
0	.000026	-.019246	-.038717	.008109	.027231	.133136
1	.052976	-.177769	-.217601	-.154288	-.376761	.476760
2	.103377	-.222077	-.182559	-.322533	.597443	.271624
3	.129937	-.221519	-.140154	-.378884	.623075	.120975
4	.078635	-.126849	-.069766	-.321718	.282576	-.175373
5	.028514	-.063275	-.024167	-.242319	.091937	-.289108
6	.017557	-.053170	-.012864	-.118043	.091434	-.114279
7-8	.012137	-.046805	-.015977	-.126111	.116164	-.004587
9-11	.002386	-.020884	-.015310	-.229933	.065608	-.031821
12-15	.003124	-.015501	-.007473	-.045070	.043588	-.043450
16-20	-.000646	-.003711	-.005106	-.004489	.031040	-.041595
21-27	.001046	-.001189	-.003385	-.019560	.012488	-.018032
28-36	.000736	-.000924	-.000816	-.015410	.010878	-.011323
37-47	.000027	-.001043	-.000744	-.002379	.007554	-.007313
48-60	.000244	-.000346	-.000852	-.002401	.000895	-.004821

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03
1	-.274267	.001479	-.698926	-.241327	.387665	.100978
2	-.099731	-.052556	-.230990	-.099345	.603442	.053607
3	.022974	-.058984	-.166231	.063316	.608302	.148177
4	.061538	.017938	-.104882	.086501	.414161	.034092
5	.017581	-.099812	.088975	-.098930	.277047	-.220994
6	-.060967	-.202783	.114428	-.235638	.140051	-.292371
7-8	.021400	-.132364	.075993	-.005621	.114727	-.258711
9-11	.060880	-.045337	-.020901	.035828	.053101	-.068466
12-15	.003176	.021382	-.005568	-.028196	.054024	-.062571
16-20	.001259	.024150	-.015484	.021669	.017565	-.015034
21-27	.000017	.001758	-.010329	.002295	.014067	-.016589
28-36	.003468	.001003	-.008350	-.003470	.000155	-.001546
37-47	.001292	.006138	-.002889	.004624	.000348	-.000047
48-60	.003195	.000207	-.000214	.000821	.001785	-.000675

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.057450	.022062	.011744	.066215
1	.470054	.240177	.148478	.630859
2	.501532	.351678	.231217	.653247
3	.445799	.413955	.289058	.490440
4	.259954	.292910	.216255	.243370
5	.136533	.200741	.137411	.144631
6	.103983	.167586	.114872	.106285
7-8	.093231	.110478	.100678	.084499
9-11	.055432	.089450	.068623	.053200
12-15	.039098	.046000	.051108	.026351
16-20	.021587	.029605	.030475	.012753
21-27	.014460	.017686	.018544	.008404
28-36	.007739	.010033	.011649	.004386
37-47	.005347	.006317	.007143	.003073
48-60	.003610	.003515	.004223	.002439

RUN NO   96A   91M   6-19-63   1621-1737(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.29617	0.21581	0.47303	0.15863	0.34769	0.25335
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.123077	-.617049	-.612121	-.050705	.064301	.232156
1	.025620	-.324931	-.507756	.033721	.029136	.214718
2	-.031909	-.107869	-.356009	.054191	-.003853	-.144847
3	.009109	-.029643	-.223176	.019786	.000097	.092077
4	.037554	.038680	-.093435	.032788	-.002220	.023932
5	.029232	.069368	.014517	-.020595	-.002924	-.046386
6	.055273	.104609	.093493	-.040424	-.020485	-.084713
7	.024291	.168466	.193324	.010950	-.004418	-.125908
8	.002706	.149831	.246691	-.023489	.004030	-.080804
9	-.033419	.096434	.239301	-.027181	-.034553	-.067096
10	-.045215	.082025	.204154	-.017475	-.011438	-.072369
11	-.060560	.071220	.183550	.022309	.019662	-.064158
12	-.083245	.070346	.167845	.050687	.029055	-.060737
13	-.104305	.069355	.178003	.069947	.031481	-.023376
14	-.079071	-.002219	.176958	.032556	.026413	.027436
15	-.002573	-.022469	.139600	-.016975	.009593	.028445
16	-.004938	-.007382	.086995	-.064525	-.031099	-.027383
17	-.005758	.031911	.013749	-.065159	-.055422	-.014878
18	.000198	-.004199	-.014000	-.060447	-.008693	-.030152
19	.007642	-.031669	-.061623	-.053942	.018795	.053443
20	.013809	-.155498	-.112806	-.072213	.020672	.101621
21	-.004817	-.206238	-.151679	-.046478	.071994	.101021
22	-.064697	-.108481	-.158830	.058432	.076069	.062017
23	-.028115	-.016384	-.138800	.095121	.033455	.029828
24	.021400	-.005876	-.071237	.022914	.036091	.000802
25	.000064	.022871	-.009083	.001404	.055406	.000760
26	.043316	.023915	.024801	-.011891	.049750	-.019806
27	.066867	.090338	.028457	-.015999	.021267	-.064675
28	.016189	.188081	.023716	.081177	.004435	-.088375
29	.024036	.154616	.044072	.048321	-.014809	-.101695
30	.062234	.080001	.043951	-.005316	-.033589	-.084177

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-03	10E-02
0	-.071715	-.009061	-.036207	.007796	.095359	.013174
1	.316022	-.054642	-.373085	.144141	.027991	.062868
2	.641141	-.111712	-.601436	.103752	.066561	.097440
3	.462599	-.184451	-.719057	-.018535	.162857	.150001
4	-.127679	-.153232	-.435528	.116552	.166098	.121699
5	-.471669	-.123271	-.259241	.276490	.399098	.085800
6	-.167335	-.102189	-.192482	-.020496	.174006	.052798
7	.252279	-.058049	-.072261	-.218525	-.165479	.013040
8	.234900	-.060389	-.028113	-.067504	.080305	.016508
9-11	.241097	-.048569	-.061215	-.057687	.168935	-.007394
12-14	.204764	-.052503	-.025488	-.114337	.068284	.013329
15-21	.250099	-.030429	-.018178	-.068889	.079600	.002460
22-30	.055606	-.019768	-.006578	-.060846	.046581	-.004081

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.29617	0.21581	0.47303	0.15863	0.34769	0.25335
	10E 00	10E 00	-01	10E 00	10E-01	10E-01
1	-.020186	-.007073	.070844	-.001801	.049346	.029824
2	-.022719	.009582	-.115764	-.005814	.030931	.048876
3	-.012091	-.013106	-.131982	.011724	.016735	.039685
4	-.018177	.002652	-.134156	.050167	-.006321	.060240
5	-.031728	-.038044	-.100027	.044457	-.019264	.025422
6	.001352	-.028259	-.048772	.086205	-.015980	-.000197
7	-.019787	-.007315	-.017952	.031401	-.022626	-.031376
8	-.034146	-.001058	-.006380	.035392	-.018247	-.052446
9	-.002449	-.000855	-.023010	.032989	.013669	-.056317
10	.027451	.024070	-.033711	.030537	.035486	-.023193
11	.039540	-.004376	-.033509	-.031872	.041699	-.002645
12	.037194	-.004372	-.001375	-.023124	.045406	-.001941
13	.022618	-.016592	-.000923	-.029482	.069368	-.008413
14	.017802	-.022796	.018840	-.050440	.074356	.009383
15	.028607	.004033	.028960	-.005228	.073949	-.005563
16	.019538	-.001558	.003088	.005570	.044469	.010929
17	.038687	-.038482	.021149	-.057101	.072497	.017137
18	.079158	.005337	.041485	.005664	.102341	.018693
19	.082682	.018466	.051315	.018673	.072574	.000139
20	.025288	.018086	.044975	-.041349	.029054	-.014522
21	.008190	.002278	.035966	-.051676	.050647	-.016580
22	.032657	.008868	-.018831	.009747	.036756	.046319
23	.060315	.056760	-.045342	.088281	.033377	.096567
24	.071481	.052341	-.031676	.095560	.024337	.079517
25	.034192	.020603	-.023948	.066681	.032416	.045194
26	-.042977	-.048039	-.019013	.049864	-.012868	-.049162
27	-.080261	-.090315	-.016953	.007730	-.053092	-.081324
28	-.118634	-.112883	-.004410	-.029032	-.083359	-.110839
29	-.120475	-.063393	.003620	-.036751	-.096571	-.075138
30	-.055731	-.050563	-.013426	-.014329	-.119587	-.046740

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03
1	.419656	-.110634	-.104164	.128127	.115064	-.047789
2	-.222021	-.108818	-.144284	.219981	-.004566	-.079973
3	-.384301	-.044787	-.165399	.329573	-.048281	.160835
4	-.176193	-.072876	-.117436	.133755	-.002561	.373969
5	-.109724	-.105298	-.112323	-.040202	.027485	.459199
6	.018936	.031321	-.109525	-.128969	.035691	.408033
7	.093866	.088527	-.071866	-.137904	.035184	.140296
8	.006699	.120824	-.049015	-.018436	.026378	.057833
9-11	-.109010	.014970	.011687	-.062274	.014355	-.069755
12-14	.034085	-.026340	-.004862	.027126	.014190	.045468
15-21	-.052918	.009812	-.004500	.012292	.005594	.025226
22-30	-.003640	-.090858	.000975	-.032793	.004620	-.056982

RUN NO   96A   91M   6-19-63   1621-1737(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.40294	0.21770	0.11559	0.55531
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.648339	.401585	.257597	.722560
2	.342548	.165080	-.030718	.412420
3	.158506	.102848	-.038666	.188905
4	-.000783	.035673	-.042234	.060414
5	-.076672	-.031868	-.072203	.015393
6	-.120370	-.075303	-.091366	-.017057
7	-.211611	-.044333	-.176051	-.126979
8	-.264573	-.066451	-.127068	-.255206
9	-.242668	-.126900	-.098277	-.338824
10	-.237014	-.170505	-.073292	-.288548
11	-.215455	-.137737	.012455	-.215455
12	-.190775	-.183889	-.062752	-.194933
13	-.177227	-.203700	-.112009	-.238132
14	-.147202	-.183015	-.023906	-.273075
15	-.095356	-.084314	.053784	-.233135
16	-.100539	-.069192	.017702	-.113898
17	-.065113	-.114850	-.043496	.014637
18	-.022631	-.059693	-.043395	.079503
19	.034811	-.034826	.005983	.078417
20	.157034	.004543	.137342	.077642
21	.216533	.014111	.237742	.113179
22	.185081	-.069260	.082804	.146510
23	.140671	.031349	-.031630	.135273
24	.084900	.064697	-.002910	.076427
25	-.003235	.080455	.002002	.039761
26	-.035241	.073136	.028942	-.000085
27	-.053542	.116194	-.044608	-.009540
28	-.132670	.030981	-.128331	-.022707
29	-.114471	.037716	-.143323	-.060960
30	-.050965	.040182	-.052635	-.066049

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.032012	.014613	.034023	.008687
1	.343348	.193270	.254256	.068723
2	.566186	.250565	.548362	.094846
3	.703043	.237603	.901046	.106210
4	.476953	.147979	.810292	.062009
5	.344016	.108804	.739085	.035406
6	.278030	.110907	.671882	.032688
7	.171770	.119231	.471462	.024211
8	.172279	.103140	.484407	.017942
9-11	.143017	.073553	.513407	.027754
12-14	.086006	.061397	.546723	.005709
15-21	.063294	.069723	.458773	.005557
22-30	.041990	.060313	.375314	.004129

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RUN NO    96A    46M    6-19-63    1621-1737(EST)
RUN NO    96A    91M    6-19-63    1621-1737(EST)
   61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.392450	.048827	.616188	.335106
1	.124018	.543210	.495794	.195943
2	.015682	.524369	.386465	.115800
3	.033025	.424601	.311292	.099210
4	.170898	.319269	.264276	.073264
5	.218961	.241774	.191691	.042995
6	.123975	.125710	.129080	.071065
7-8	.111209	.136565	.240511	.087645
9-11	.084670	.107664	.174378	.040075
12-15	.065508	.102198	.078507	.052706
16-20	.067823	.079083	.127383	.075758
21-27	.073207	.128835	.095978	.106727
28-36	.075684	.092195	.085929	.106624
37-47	.102093	.141820	.131765	.111802
48-60	.079484	.124387	.125384	.152126

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.649077	.758308	.748710	.719991
1	.574991	.832075	.601213	.635352
2	.642768	.748660	.745338	.656615
3	.695424	.620524	.797200	.703588
4	.596086	.589451	.708619	.620002
5	.395202	.620723	.593812	.281771
6	.331400	.490411	.584705	.274581
7	.214817	.353910	.553520	.320532
8	.083055	.411175	.618037	.272211
9-11	.153659	.549175	.530810	.136928
12-14	.233968	.504402	.386518	.157329
15-21	.296681	.293771	.374173	.253083
22-30	.245815	.277000	.157112	.244530

RUN NO   96B   46M   6-19-63   1751-1907(EST)

GROSS STATISTICS

CLEAR   WIND SPEED   5.67 M/SEC   SIGMA A 7.50 DEG
TRANSITIONAL   WIND DIRECTION 219 DEG   SIGMA E 5.4 DEC
                      SOLAR RAD.   0.11 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.89094E 00	0.67150E 00	0.45815E-00	0.46034E-00
V	0.49098E-00	0.41114E-00	0.38672E-00	0.16729E-00
W	0.23401E-00	0.22889E-00	0.20890E-00	0.96000E-01
T	0.38310E-01	0.96277E-03	0.68070E-03	0.64840E-03
E	0.80796E 00	0.65577E 00	0.52688E 00	
GUSTINESS RATIOS				
U	0.16647	0.14452	0.11938	0.11966
V	0.12358	0.11309	0.10968	0.07214
W	0.08532	0.08438	0.08061	0.05465
COVARIANCES				
U,V	0.13300E-00	0.55526E-01	0.40393E-01	0.28640E-01
U,W	-0.21507E-00	-0.19907E-00	-0.15166E-00	-0.12297E-00
U,T	-0.72795E-01	-0.56996E-02	-0.37169E-02	-0.44956E-02
V,W	-0.10302E-01	-0.98750E-02	-0.82761E-02	-0.40376E-02
V,T	-0.32388E-01	0.64377E-02	0.55968E-02	0.35472E-02
W,T	0.55242E-02	0.23438E-03	-0.36769E-03	0.61146E-03
WE	0.76549E-01	0.40910E-01	0.20138E-01	
NORMALIZED COVARIANCES				
U,	0.20109	0.10568	0.09596	0.10320
U,W	-0.47102	-0.50778	-0.49022	-0.58496
U,T	-0.39402	-0.22416	-0.21047	-0.26022
V,W	-0.03039	-0.03219	-0.02912	-0.03186
V,T	-0.23615	0.32358	0.34496	0.34059
W,T	0.05834	0.01579	-0.03083	0.07750

26

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.42095	0.30938	0.17661	0.28419	0.16223	0.11923
	10E 00	10E 00	10E-01	10E 00	10E-01	10B-01
0	.096058	-.490207	-.210310	-.029282	.344974	.031023
1	.085840	-.427258	-.193341	-.022558	.298375	-.020135
2	.069347	-.328856	-.162540	-.017823	.217203	.000299
3	.049292	-.244618	-.137375	-.010180	.147250	.017069
4	.028489	-.177428	-.107384	-.002038	.098399	.025731
5	.006888	-.119922	-.077879	.010285	.060974	.033180
6	-.012317	-.073819	-.053971	.022670	.031198	.034284
7	-.026902	-.036733	-.030838	.034319	.012664	.027612
8	-.039633	-.003113	-.013787	.042788	.000812	.008101
9	-.049215	.023816	-.005562	.054120	-.007326	.001405
10	-.051275	.044629	-.001031	.054785	-.028074	.005226
11	-.045031	.056384	.007787	.042796	-.045099	.003699
12	-.035125	.069586	.017877	.024190	-.060327	-.001661
13	-.020504	.083065	.029671	.004717	-.068914	-.008502
14	-.007988	.094448	.035825	-.004767	-.076929	-.014222
15	-.004131	.103607	.036265	-.015448	-.085860	-.015385
16	.001090	.110294	.036033	-.026858	-.091895	-.014297
17	.013688	.114853	.043884	-.039375	-.088846	-.013398
18	.024250	.113733	.051094	-.045400	-.081136	-.021207
19	.023146	.111251	.056576	-.042238	-.080245	-.022654
20	.015105	.110923	.061469	-.027837	-.082988	-.024688
21	.012753	.106629	.067346	-.022313	-.085485	-.027280
22	.014829	.099455	.076477	-.024395	-.091638	-.026895
23	.015125	.096593	.082466	-.020908	-.090320	-.026142
24	.010580	.092137	.082857	-.022073	-.079821	-.022323
25	.003471	.087651	.079126	-.020456	-.063987	-.020823
26	.000909	.083338	.071705	-.014996	-.045774	-.010919
27	-.001377	.077818	.060051	-.011415	-.027916	-.004611
28	-.002303	.073100	.042433	-.015135	-.022894	.007569
29	-.000520	.066796	.030125	-.019889	-.017523	.017310
30	-.000413	.057623	.022811	-.017120	-.003083	.011653
31	-.007500	.051575	.008709	.000895	.006742	.006634
32	-.018920	.039853	-.016693	.012441	.012175	.014448
33	-.028605	.025936	-.040997	.013903	.016657	.021995
34	-.030682	.012863	-.055713	.011968	.018204	.026563
35	-.027954	-.002838	-.063693	.012272	.017145	.032477
36	-.031580	-.014258	-.061602	.017785	.024468	.034602
37	-.030047	-.021750	-.056435	.019426	.037293	.045853
38	-.027728	-.019849	-.048012	.023219	.046097	.049343
39	-.026475	-.020351	-.035609	.026659	.048656	.042198
40	-.024007	-.023637	-.021187	.028539	.048334	.032752
41	-.016808	-.020882	-.007486	.022886	.042360	.026633
42	-.007237	-.024408	.002690	.011239	.035380	.023843
43	-.005791	-.034672	.005261	.006759	.028009	.025046
44	-.004642	-.040768	.007353	.003913	.020553	.021955
45	-.001708	-.043045	.007559	.003552	.011838	.018702
46	-.001919	-.047681	.005391	-.003191	.004039	.019579
47	-.001187	-.042545	.005219	-.002323	-.003488	.021640
48	.001602	-.028083	.005013	-.009506	-.005799	.025495
49	.004423	-.011870	.008908	-.012615	-.008925	.018273
50	.001961	-.008325	.015272	-.006436	-.014533	.004051
51	-.001958	-.007169	.021368	-.001534	-.021355	-.006255
52	.003431	.001907	.028253	-.008574	-.025349	-.016011
53	.015589	.009614	.040140	-.015424	-.028335	-.024210
54	.025602	.014726	.054594	-.013808	-.034314	-.027793
55	.0.873	.018931	.071647	-.006896	-.032217	-.035300
56	.039621	.016053	.079171	.001119	-.029522	-.038901
57	.037849	.009733	.082465	.005183	-.030256	-.048487
58	.027068	.001591	.080778	.010848	-.035131	-.048779
59	.017668	-.005340	.076580	.014563	-.041934	-.048760
60	.014883	-.009674	.070711	.011014	-.039443	-.041505

RUN NO   96B   46M   6-19-63   1751-1907(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.42095	0.30938	0.17661	0.28419	0.16223	0.11923
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.018352	-.020476	-.004870	.006372	.078974	-.054875
2	-.020511	-.031978	.006430	.004801	.114369	-.079992
3	-.015882	-.038396	.021080	.010266	.112533	-.090206
4	-.007477	-.042012	.035903	.013226	.100533	-.088837
5	-.005707	-.044826	.048605	.009487	.081137	-.086848
6	-.004535	-.047552	.059365	.004046	.063630	-.086585
7	.001183	-.046315	.060472	-.000334	.048486	-.074017
8	.002432	-.042556	.057999	-.003299	.033109	-.061131
9	-.006348	-.043266	.053699	-.008366	.026146	-.054297
10	-.013316	-.043704	.048862	-.011846	.021065	-.051151
11	-.016020	-.043446	.041539	-.008708	.013380	-.050966
12	-.018160	-.046604	.030868	-.008424	.002224	-.040764
13	-.020222	-.042816	.026625	-.017181	-.005413	-.027846
14	-.014980	-.038600	.031602	-.023028	-.008968	-.021142
15	-.004762	-.037020	.036341	-.019012	-.015646	-.018986
16	.005793	-.034396	.033797	-.011765	-.021428	-.020238
17	.011405	-.036479	.034170	-.011392	-.014644	-.020958
18	.014021	-.033555	.038147	-.008994	-.002664	-.018834
19	.021907	-.025448	.043156	-.007178	.006359	-.017598
20	.032265	-.019918	.050283	-.001805	.017508	-.017434
21	.044631	-.017168	.053596	.008360	.020152	-.020153
22	.056027	-.007123	.052694	.021478	.015566	-.018968
23	.058818	-.000591	.049034	.034293	.009153	-.009775
24	.055245	.005066	.039980	.040396	.009532	-.004141
25	.055554	.019606	.029409	.039161	.013481	-.001340
26	.051247	.034142	.014020	.041133	.016934	.009392
27	.046450	.034582	.000066	.033556	.021776	.014364
28	.042841	.029499	-.007947	.024695	.023697	.023336
29	.040664	.023677	-.012362	.017666	.022139	.033795
30	.032118	.022577	-.014236	.011954	.016829	.038154
31	.013445	.017962	-.019893	.001710	.007511	.035977
32	-.008289	.008657	-.030795	-.004609	-.001650	.041427
33	-.021031	.002019	-.034502	-.011040	-.003481	.043031
34	-.027361	-.000567	-.035558	-.013408	-.005623	.037295
35	-.034282	-.002780	-.043616	-.020199	-.004595	.038645
36	-.038194	.001372	-.053137	-.034915	.002313	.053135
37	-.032966	.003400	-.058686	-.044880	.008397	.057367
38	-.029935	.001374	-.066194	-.047037	.006262	.049616
39	-.034023	-.000478	-.073102	-.040814	-.000014	.036338
40	-.045568	-.002523	-.079202	-.031963	-.004594	.030065
41	-.057432	-.008236	-.079717	-.029078	-.013012	.025347
42	-.058875	-.010807	-.071054	-.024232	-.020726	.015928
43	-.059401	-.003604	-.063304	-.014846	-.031710	.008021
44	-.061543	.002288	-.061677	-.015440	-.038218	.011835
45	-.063081	.002814	-.059950	-.017950	-.039617	.016581
46	-.064715	-.002790	-.058118	-.015445	-.044609	.010499
47	-.062018	-.001812	-.059333	-.011668	-.053512	.005755
48	-.056305	.000266	-.055969	-.009163	-.055895	.007581
49	-.047692	-.001904	-.049273	-.003122	-.050293	.002601
50	-.038825	-.004297	-.044510	.005827	-.041542	-.004330
51	-.027890	-.006807	-.037090	.011302	-.035857	-.009968
52	-.014064	-.015336	-.030860	.017129	-.028538	-.014652
53	.003609	-.015068	-.020396	.021664	-.022924	-.028318
54	.021076	-.010856	-.004510	.029439	-.016305	-.036618
55	.031699	-.010025	.018184	.043741	-.006443	-.041187
56	.033004	-.009223	.032804	.051971	.003765	-.047312
57	.028254	-.001652	.039008	.051232	.007772	-.044526
58	.022855	.010735	.043582	.045824	.006253	-.038185
59	.020872	.018699	.048077	.033314	.006889	-.035642
60	.027510	.023173	.057158	.022881	.005492	-.029307

28

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.45825	0.38468	0.20887	0.68062
	10E 00	10E 00	10E 00	10E-03
0	1.000000	1.000000	1.000000	1.000000
1	.861629	.777256	.737226	.807869
2	.672545	.492894	.442038	.618413
3	.513955	.284913	.266925	.465614
4	.381582	.149536	.152447	.349027
5	.270680	.066785	.072568	.248981
6	.180118	.012718	.021009	.177731
7	.104191	-.024530	-.016157	.121564
8	.039534	-.054831	-.037979	.075832
9	-.012154	-.085924	-.043460	.041154
10	-.055932	-.112173	-.051983	.005543
11	-.089033	-.126082	-.071246	-.032724
12	-.120589	-.144085	-.103870	-.067057
13	-.142347	-.164452	-.127874	-.094033
14	-.157204	-.180196	-.142563	-.126364
15	-.172974	-.195441	-.153772	-.144369
16	-.189665	-.192602	-.161564	-.160726
17	-.203246	-.180044	-.166483	-.177133
18	-.216674	-.171264	-.171674	-.195689
19	-.229715	-.164501	-.166080	-.220858
20	-.237201	-.156541	-.159060	-.244856
21	-.239941	-.155569	-.141775	-.271600
22	-.239985	-.153399	-.120204	-.291477
23	-.236239	-.143604	-.106932	-.290075
24	-.233530	-.139734	-.098548	-.272202
25	-.231613	-.120896	-.101313	-.249475
26	-.228908	-.091323	-.095646	-.227509
27	-.217039	-.070760	-.096779	-.208862
28	-.193885	-.055431	-.103616	-.186247
29	-.168660	-.033470	-.097243	-.164149
30	-.139908	.003006	-.069723	-.129627
31	-.106491	.034052	-.045815	-.082711
32	-.075025	.048716	-.027007	-.043864
33	-.039323	.045457	-.015872	-.013218
34	-.001687	.041069	.001071	.016068
35	.028351	.043509	.016055	.036621
36	.043332	.045820	.014446	.055392
37	.055007	.044587	.008323	.065387
38	.060279	.041867	-.003714	.070390
39	.061254	.040064	-.006945	.068782
40	.056309	.039150	.001729	.051441
41	.043004	.040299	.009443	.036872
42	.036980	.024990	.023625	.026735
43	.040630	.014170	.046541	.021724
44	.045281	.010173	.062958	.015576
45	.050203	.011017	.068339	.012913
46	.050759	.013227	.069080	.009414
47	.033458	.015280	.051701	.005629
48	.017137	.017670	.027805	.008382
49	.011511	.011997	.007794	.009464
50	.008431	.005424	.000754	.004315
51	-.004952	-.002064	.009768	.000850
52	-.004840	-.012974	.009820	.001813
53	-.011231	-.019243	.012906	-.003471
54	-.017013	-.016328	.014418	-.010485
55	-.022308	-.019965	.009961	-.018986
56	-.020928	-.028166	-.001079	-.028043
57	-.019444	-.030982	-.002625	-.029469
58	-.012978	-.021247	.000086	-.036285
59	-.004657	-.023997	-.008723	-.041823
60	.004778	-.026154	-.015452	-.038211

RUN NO   96B   46M   6-19-63·   1751-1907(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-03	10E-02	10E-03	10E-03
0	.013394	-.013699	-.089318	-.005276	.034301	.012374
1	.287080	-.144586	-.511661	.042664	.368551	-.025814
2	.241653	-.213347	-.631782	.175017	.655081	.029954
3	.140216	●253776	-.815807	.238939	.959762	.130802
4	.423182	-.182689	-.496996	-.046118	.733276	.045370
5	.771012	-.126415	-.136268	-.330473	.405357	-.057864
6	.718406	-.104311	-.205698	-.347734	.324574	-.054558
7-8	.474404	-.070948	-.235674	-.277340	.275581	-.039666
9-11	.094497	-.047829	-.077265	.019926	.182374	-.053580
12-15	.019733	-.024310	-.039738	.025098	.148035	-.034418
16-20	.042193	-.016069	-.004462	-.022451	.065005	-.011358
21-27	.003179	-.008501	-.017154	.008181	.038328	-.004292
28-36	.008013	-.005103	-.008699	-.007991	.016426	-.003804
37-47	.002095	-.002243	-.006547	-.004023	.005584	-.001186
48-60	.005140	-.001444	.000862	-.004828	.004192	.000262

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03
1	.338186	-.405400	.252364	.002453	.169177	-.097605
2	.345757	-.506133	.483246	.048495	.184369	-.264795
3	-.405217	-.603133	.276942	-.146124	.134424	-.305808
4	-.613026	-.368127	.005443	-.195429	.212215	-.168619
5	.017773	-.061299	.080011	.149193	.304264	-.146355
6	.259257	-.000995	.131976	.261870	.303201	-.178681
7-8	.027667	-.143545	.076837	.026125	.234446	-.123736
9-11	-.104693	-.036167	-.052607	.026675	.133620	-.056280
12-15	-.103145	-.036198	-.035714	.009546	.117109	-.042987
16-20	-.018481	-.004020	-.011560	-.014821	.047824	-.012807
21-27	-.034323	-.019805	-.007163	.001991	.026614	-.018020
28-36	-.006675	-.002543	-.008054	.008044	.010133	-.003317
37-47	-.007401	-.002519	-.003498	.007923	.003026	-.004157
48-60	-.004527	-.000778	-.001781	.001345	-.001235	-.000636

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.052980	.010260	.008438	.009242
1	.507225	.173152	.119248	.078579
2	.696941	.320882	.188491	.102480
3	.788728	.476949	.234678	.113232
4	.516330	.417190	.187007	.068357
5	.312160	.280663	.139758	.032167
6	.296443	.228527	.115389	.032932
7-8	.225296	.206513	.094317	.032714
9-11	.128892	.147993	.087586	.018984
12-15	.072321	.111134	.056543	.013574
16-20	.044424	.069622	.034916	.006998
21-27	.027054	.038808	.027402	.004870
28-36	.016321	.023208	.016632	.003493
37-47	.009822	.013783	.010487	.002556
48-60	.006125	.008883	.006050	.002122

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RUN NO   96B   46M   6-19-63   1751-1907(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.27751	0.21030	0.17278	0.12676	0.10414	0.78923
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-02
0	.103204	-.584732	-.260190	-.031854	.340604	.077475
1	.013817	-.199506	-.117822	.061923	.060856	.075397
2	.057207	-.035855	-.020940	-.033694	-.045269	.030219
3	.003824	.023227	-.021528	.002776	-.011500	.050168
4	-.018326	.036391	.017756	.030447	-.027834	.024977
5	.046418	.040909	.049835	-.038573	-.048302	-.013307
6	.054087	.085635	.094668	.008959	-.110181	-.071128
7	.023729	.110984	.018805	-.019948	-.029998	-.054793
8	-.022559	.122445	-.046315	-.004048	-.024265	.025798
9	.004078	.075106	-.039176	-.050477	-.033076	-.017900
10	-.041624	.091682	-.007623	.000805	-.005343	-.016176
11	-.007404	.015337	.003640	-.036105	-.027317	-.019271
12	-.051731	.002149	-.057606	.003925	-.081644	.033512
13	-.036047	-.038427	-.055039	-.014648	-.087458	.039761
14	.017593	-.012181	-.013849	-.034630	-.023450	.007899
15	.030023	-.040443	.075501	-.031214	.041540	-.075230
16	-.029515	-.042358	.035389	.016274	.057637	-.014266
17	-.043335	-.076313	.021112	.045513	.080135	.057637
18	-.000388	-.030865	.067070	.047894	.069824	-.003475
19	-.049060	.045703	.067115	.066415	.075523	-.083801
20	-.010012	.027576	.028569	.029102	.059837	-.017799
21	.000715	.070661	.021804	-.029559	.009746	-.041596
22	-.000869	.030418	.041985	-.037182	.029686	-.036798
23	-.032375	.069223	.076787	.020376	.036228	-.025811
24	-.045233	.005926	.101023	.017100	.041515	-.071032
25	-.052542	.040128	.069942	.070555	-.001319	-.035952
26	-.031091	.018226	.027748	-.020077	.009884	-.004960
27	-.023708	-.005745	-.015173	.084092	-.010560	.051617
28	.008775	-.073348	-.014132	.038160	-.051147	.023267
29	.030933	-.071064	-.086368	-.054969	-.041032	.057628
30	-.023706	.027422	-.095854	.014159	-.039729	-.001092

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-03	10E-02	10E-03	10E-03
0	.071089	-.005072	-.073178	-.018237	-.019683	.012285
1	.551132	-.042581	-.499333	-.078577	-.112448	.125900
2	.415824	-.057381	-.261660	.034932	.081959	.095319
3	.246112	-.107517	-.130009	.127992	.321092	.090696
4	.081142	-.138683	-.369970	.058616	.250472	.144689
5	-.072994	-.097003	-.558055	-.036466	.127839	.124972
6	-.094961	-.056884	-.509200	.016179	.225066	.071723
7	.039192	-.054609	-.304460	.047836	.309316	.022623
8	.282395	-.050501	-.221792	-.052773	.183289	-.026049
9-11	.184349	-.059847	-.079433	.029302	.081806	-.025515
12-14	.018419	-.051326	-.174581	.000201	.177268	.029000
15-21	-.011998	-.036348	-.149773	.016735	.173972	.011766
22-30	.239614	-.037037	-.086828	-.153652	.134671	-.012888

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.27751	0.21030	0.17278	0.12676	0.10414	0.78923
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-02
1	-.006341	-.094221	.035080	-.005150	.095629	-.080374
2	.000401	-.090057	.021310	.002924	.035026	-.016668
3	-.043977	-.062810	-.034482	-.017969	.041948	.044146
4	-.096444	-.069061	-.061114	-.073956	.019402	.067397
5	-.102197	-.032749	-.039910	-.004185	-.030738	.035577
6	-.004243	.006935	.020880	.027921	.055530	.014148
7	.005936	.022862	.044556	-.029566	.092421	.022020
8	-.007288	.014336	.029242	.025015	.062113	-.000935
9	.034918	.025644	.052576	.011206	.083204	-.024824
10	-.009840	.041058	.025967	.032184	.010029	-.044748
11	.024824	.010889	.054905	.034911	.037863	-.062030
12	-.016394	.041877	.027714	.009526	.007801	-.043528
13	-.056313	.032529	-.014656	-.075597	-.056554	.022895
14	.025490	.036805	-.021641	-.013361	-.024476	.038313
15	.077966	.029746	.007984	.037680	.001272	-.012006
16	.078042	.033346	.023253	.027555	-.002199	-.044980
17	.077100	-.003429	.027189	.047225	-.040629	-.050889
18	.018136	-.038273	.022808	.041154	-.029586	-.049641
19	-.029173	-.039813	-.051707	-.011725	-.054283	-.000585
20	-.087065	-.045719	-.065300	-.003490	-.072593	.040749
21	-.038263	-.054963	-.042230	-.068252	-.014645	.054734
22	.000553	-.002729	-.069389	-.082046	.002484	.098913
23	-.026297	-.008760	-.054327	.004124	-.012269	.034657
24	.026359	-.019634	-.003583	.033470	.013631	-.014744
25	-.008182	.038122	.005750	-.012953	.000458	.023228
26	-.046902	.001273	.020318	-.022724	.024740	-.010712
27	-.047510	.018397	-.011503	-.002578	.038111	.006807
28	-.026319	.028395	-.015124	-.033155	.014294	.026839
29	.013639	.008619	.022263	-.032943	.047225	.018197
30	.045003	-.022158	.050259	.011345	.012800	-.006166

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03
1	-.077806	.085985	.146021	.028159	.147326	-.036700
2	-.283572	-.019970	.151606	-.005094	.238534	.002414
3	-.566543	-.371713	-.071309	-.083912	.203710	.097445
4	-.379384	-.546583	-.211916	-.075448	.020315	.091627
5	-.173116	-.349483	-.161556	-.079382	-.041404	.042368
6	-.361580	-.317455	-.160011	-.135459	-.031563	.026171
7	-.189441	-.361040	.023241	-.002868	.030130	-.090699
8	.419239	-.210865	.208023	.127887	.151508	-.140920
9-11	.234330	-.104616	.155741	-.000635	.135083	-.048297
12-14	.158126	-.074681	.132293	.102446	.047734	-.100235
15-21	-.130921	-.096391	-.001027	-.072440	.052188	-.033964
22-30	-.001692	-.000291	.000090	.026394	.039229	-.016769

RUN NC   96B   46M   6-19-63   1751-1907(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.46041	0.16727	0.96061	0.64843
	10E 00	10E 00	10E-01	10E-03
0	1.000000	1.000000	1.000000	1.000000
1	.479383	.021312	.118808	.506822
2	.186037	-.146458	-.070637	.191136
3	.056721	.035532	-.066696	.069262
4	-.011294	-.080450	-.115842	-.026927
5	-.088075	.019375	-.030287	-.123134
6	-.180629	-.020536	-.079899	-.234143
7	-.190064	.058638	-.047278	-.222818
8	-.257626	.034711	-.097062	-.176866
9	-.218159	-.067365	-.045384	-.107883
10	-.210685	-.069901	-.102281	-.137123
11	-.114086	-.077084	-.056355	-.156277
12	-.092640	-.060467	.066183	-.161024
13	-.002561	-.084069	.028682	-.106421
14	-.012104	-.111464	-.019477	-.005034
15	.005708	-.018170	.087182	.076055
16	.065127	-.002596	-.039272	.088937
17	.119493	-.005734	.020323	.073193
18	.063108	-.045424	.081743	.038552
19	-.007822	-.025380	-.033046	.031137
20	.012676	.049351	.012189	.007045
21	.019240	.030102	-.154663	-.033343
22	.015252	-.002173	-.106732	-.075293
23	-.089280	.008072	-.037907	-.134915
24	-.076906	.058224	.045876	-.102449
25	-.102069	.001213	-.022143	-.068174
26	-.091630	.028478	.056749	-.028229
27	-.050524	.005950	.057188	-.025595
28	.035384	-.018925	.051831	.007074
29	.096891	.042288	.026042	.066446
30	-.004379	-.032030	-.002058	.125173

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-04
0	.027372	.052613	.017966	.037938
1	.249132	.518167	.189407	.383763
2	.376419	.680986	.251207	.539855
3	.607371	.660726	.433498	.828893
4	.597137	.354314	.600046	.824596
5	.370007	.302034	.488508	.523090
6	.237003	.501982	.379410	.418681
7	.195351	.732871	.431126	.434177
8	.181454	.830560	.430431	.322591
9-11	.189674	.742417	.497338	.155227
12-14	.146228	.642730	.408279	.252051
15-21	.110870	.936555	.418386	.154055
22-30	.099611	.869591	.439773	.120873

RUN NO   96B   91M   6-19-63   1751-1907(EST)

GROSS STATISTICS

CLEAR
TRANSITIONAL
WIND SPEED   7.83 M/SEC
WIND DIRECTION   225 DEG
SOLAR RAD.   0.11 LY/MIN

SIGMA A 3.30 DEG
SIGMA E 2.2 DEG

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.49533E-00	0.16493E-00	0.12846E-00	0.10627E-00
V	0.19773E-00	0.10792E-00	0.95072E-01	0.48560E-01
W	0.75381E-01	0.70027E-01	0.67236E-01	0.23433E-01
T	0.85059E-02	0.11613E-02	0.65999E-03	0.91957E-03
E	0.38422E-00	0.17145E-00	0.14539E-00	
GUSTINESS RATIOS				
U	0.08989	0.05187	0.04577	0.04163
V	0.05679	0.04196	0.03938	0.02814
W	0.03506	0.03380	0.03312	0.01955
COVARIANCES				
U,V	0.99133E-01	0.53859E-03	0.73925E-02	-0.14696E-02
U,W	-0.60324E-01	-0.42026E-01	-0.37114E-01	-0.23803E-01
U,T	-0.17514E-01	0.23559E-02	0.70423E-03	0.24838E-02
V,W	-0.95096E-02	-0.38057E-02	-0.58877E-02	-0.35645E-03
V,T	-0.27672E-02	0.11597E-02	0.63091E-03	0.86822E-03
W,T	-0.16473E-02	-0.11920E-02	-0.64503E-03	-0.98471E-03
WE	0.39138E-01	0.18152E-01	0.15282E-01	
NORMALIZED COVARIANCES				
U,V	0.31676	0.00404	0.06689	-0.02046
U,W	-0.31218	-0.39106	-0.39934	-0.47699
U,T	-0.26981	0.17023	0.07648	0.25126
V,W	-0.07789	-0.04378	-0.07364	-0.01057
V,T	-0.06747	0.10359	0.07965	0.12993
W,T	-0.06506	-0.13218	-0.09683	-0.21213

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11054	0.92973	0.92103	0.79980	0.79232	0.66640
	10E 00	10E-01	10E-02	10E-01	10E-02	10E-02
0	.066868	-.399274	.076597	-.073654	.079874	-.096760
1	.059446	-.333125	.084534	-.046138	.071920	-.096136
2	.037613	-.242205	.091753	-.011573	.060928	-.091186
3	.013512	-.176260	.092313	.009830	.052320	-.077829
4	.002594	-.127659	.092019	.014119	.045044	-.060591
5	.003192	-.084292	.090011	.010731	.034302	-.049988
6	.011403	-.050161	.087039	.002641	.022033	-.038555
7	.021410	-.025100	.080985	.006837	.010862	-.027985
8	.028792	-.004352	.076403	.003549	.005653	-.025621
9	.029343	.018288	.067006	.013066	.006541	-.018393
10	.024770	.034562	.055944	.013531	.007253	-.009814
11	.017685	.042826	.045481	.017173	.004695	-.002150
12	.009451	.050545	.031602	.019217	.004409	.000820
13	.009873	.058398	.019415	.017233	.001466	.010591
14	.012257	.064865	.012337	.011314	-.001285	.019870
15	.011477	.065441	.004024	.001818	-.002876	.021870
16	.009159	.062464	-.006838	-.010537	-.005802	.024380
17	.002779	.062960	-.019607	-.026109	-.010377	.031062
18	-.006231	.074367	-.029543	-.040578	-.016504	.034337
19	-.013356	.088206	-.039407	-.044488	-.017415	.034300
20	-.016318	.096542	-.047327	-.037615	-.021149	.036982
21	-.019263	.100215	-.052681	-.016392	-.022955	.039940
22	-.023961	.099355	-.064347	-.001941	-.022476	.044479
23	-.027107	.097305	-.075702	.007621	-.022719	.043591
24	-.023765	.093058	-.083205	.012023	-.022582	.042693
25	-.018679	.088607	-.084590	.015305	-.026046	.040128
26	-.013908	.086300	-.080895	.016837	-.037257	.036742
27	-.009982	.074372	-.079419	.016373	-.046338	.039469
28	-.006579	.052311	-.073363	.008176	-.051404	.036858
29	-.009824	.039120	-.063248	.005350	-.054412	.031437
30	-.011571	.037534	-.053936	.005918	-.048836	.026287
31	-.009071	.034892	-.044845	.007244	-.039258	.023639
32	-.004795	.027396	-.036295	-.001841	-.028663	.022285
33	-.002650	.013018	-.027951	-.012022	-.021260	.020048
34	-.002376	.000194	-.020608	-.005982	-.018323	.014818
35	-.003891	-.017594	-.014585	.001315	-.017146	.013185
36	-.011943	-.027805	-.006970	.001887	-.016032	.008526
37	-.017363	-.033866	-.001767	-.000979	-.016468	.001696
38	-.021142	-.037298	-.001533	-.005691	-.016700	.003506
39	-.023047	-.043466	-.001159	-.004862	-.015608	.004052
40	-.028977	-.044231	.001627	.002997	-.011858	.000657
41	-.031858	-.035694	.003804	.007212	-.006529	-.014131
42	-.037453	-.022101	.000560	.004280	.001961	-.028013
43	-.046687	-.018149	-.005570	.006707	.011775	-.038489
44	-.052159	-.018717	-.013903	.009640	.022428	-.042039
45	-.050389	-.018044	-.018859	.015795	.031192	-.042907
46	-.041747	-.017647	-.023862	.013732	.040569	-.046078
47	-.033966	-.018164	-.027957	.002967	.044093	-.046800
48	-.025302	-.021815	-.033153	-.001920	.039718	-.035464
49	-.016295	-.026501	-.038203	.003227	.033164	-.022462
50	-.006412	-.026672	-.042474	.006829	.027930	-.006815
51	-.000329	-.025274	-.041560	-.004065	.025905	.003678
52	-.000245	-.017013	-.035531	-.007713	.026009	.002627
53	.001934	-.004043	-.031137	-.004276	.025021	.003748
54	.009479	.006760	-.027696	.008502	.019612	.003588
55	.015284	.010528	-.021510	.005630	.010462	.004799
56	.015602	.005759	-.017868	.014418	.007000	.003480
57	.017005	.001477	-.016543	.024922	.004033	.004548
58	.028360	-.000960	-.013803	.006560	-.006293	.007280
59	.036225	.010863	-.005286	-.002435	-.012921	.007412
60	.037277	.007158	.002581	.007894	-.014984	.009294

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11054	0.92973	0.92103	0.79980	0.79232	0.66640
	10E 00	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.005968	-.015619	.061615	.002243	.030782	-.072854
2	-.014529	-.021226	.101047	-.000882	.048587	-.104855
3	-.025221	-.029005	.122363	-.015561	.049967	-.108602
4	-.039178	-.034001	.133089	-.020974	.045875	-.099270
5	-.046768	-.034458	.140045	-.014739	.041540	-.087702
6	-.049382	-.037643	.140188	-.006979	.040680	-.083909
7	-.046453	-.044760	.138906	-.004542	.039902	-.077984
8	-.044340	-.048370	.134449	-.003105	.036913	-.073098
9	-.042556	-.047974	.128372	-.006779	.034683	-.062803
10	-.034230	-.047103	.120378	-.002165	.034295	-.056032
11	-.031521	-.047210	.110527	-.000401	.032933	-.055891
12	-.043120	-.051224	.100209	.001033	.028459	-.056660
13	-.043241	-.050176	.085457	.003695	.026769	-.051755
14	-.029833	-.048143	.071131	.007558	.027026	-.038289
15	-.018443	-.047448	.060570	.007823	.024988	-.023019
16	-.014112	-.038695	.047856	.004209	.023531	-.006469
17	-.006020	-.028931	.040633	.011323	.021460	-.000221
18	.009170	-.027115	.040026	.012476	.024875	-.000094
19	.026650	-.030477	.037593	.011565	.030758	-.004345
20	.034935	-.037833	.036785	.011681	.031465	-.002732
21	.034361	-.034876	.033381	.008695	.028257	.000470
22	.034637	-.023428	.025497	.008092	.024315	.002622
23	.034883	-.013336	.015475	.018428	.020232	.007671
24	.029016	-.003254	.003957	.014355	.016623	.012382
25	.024093	-.001334	-.006127	.001445	.011620	.016572
26	.021524	-.003790	-.016319	-.003897	.007228	.020853
27	.019502	-.003773	-.025614	-.009889	.001647	.016693
28	.012830	-.005165	-.035984	-.027480	-.003744	.012017
29	.010914	-.000671	-.043068	-.038823	-.006911	.008512
30	.012834	.002541	-.050206	-.046137	-.005569	.012194
31	.010466	.009812	-.055669	-.049273	-.004682	.024626
32	-.000570	.015433	-.060506	-.040381	-.007242	.037133
33	-.008199	.023469	-.065228	-.024315	-.003990	.042067
34	-.011068	.039686	-.066349	-.014442	.003199	.044489
35	-.015261	.051195	-.064522	-.011827	.002439	.049593
36	-.024481	.057535	-.057111	-.011817	-.003916	.048186
37	-.029881	.052365	-.047538	-.013908	-.013097	.037873
38	-.033236	.045504	-.035641	-.018716	-.016939	.027655
39	-.032551	.042600	-.025859	-.023139	-.014993	.020705
40	-.030318	.048096	-.017730	-.029110	-.012063	.012778
41	-.024756	.052570	-.007456	-.028567	-.011133	.011465
42	-.019037	.055408	.000455	-.019019	-.012283	.009066
43	-.014165	.053054	.005081	-.008018	-.019353	.010924
44	-.010698	.049239	.007851	-.001494	-.024541	.007620
45	-.004588	.042444	.006135	.009732	-.028556	.004608
46	-.000022	.027217	.003392	.020810	-.024881	-.000740
47	.005656	.018123	.000165	.027745	-.014486	-.008296
48	.011396	.014526	-.003056	.032519	-.006784	-.014018
49	.010736	.007411	-.005044	.032147	.005311	-.014450
50	.009355	.001630	-.003432	.028657	.009971	-.011155
51	.012232	.000069	-.001188	.037514	.010797	-.010812
52	.008537	-.006629	-.000269	.047381	.009391	-.010229
53	.004524	-.015815	.000290	.056886	.013093	-.011659
54	-.002834	-.022778	.000426	.059215	.012000	-.014364
55	-.011482	-.028648	.002132	.045178	.011166	-.021848
56	-.014820	-.031624	.002529	.036595	.008135	-.021657
57	-.015675	-.036613	.003777	.027570	-.000040	-.019747
58	-.014042	-.041212	.002946	.012772	-.006413	-.020294
59	-.014311	-.052944	-.000466	.001367	-.009180	-.026179
60	-.010315	-.056752	-.005827	-.001893	-.012564	-.030762

RUN NO   96B   91M   6-19-63   1751-1907(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12850	0.95093	0.67269	0.66017
	10E 00	10E-01	10E-01	10E-03
0	1.000000	1.000000	1.000000	1.000000
1	.844680	.762494	.680446	.905999
2	.649616	.479012	.361047	.793287
3	.497916	.283450	.186151	.675788
4	.377291	.157146	.076793	.560346
5	.272855	.075823	.009455	.453563
6	.187148	.021545	-.033304	.350900
7	.111364	-.012727	-.058833	.256594
8	.039012	-.037747	-.075226	.172013
9	-.021873	-.052900	-.097934	.097514
10	-.082006	-.065874	-.095969	.034567
11	-.131901	-.088571	-.097088	-.021063
12	-.172652	-.112907	-.108758	-.071161
13	-.197015	-.128422	-.106440	-.112787
14	-.212402	-.134328	-.103572	-.142703
15	-.218137	-.132879	-.100065	-.161790
16	-.226396	-.140074	-.085599	-.175253
17	-.238571	-.158879	-.060638	-.179156
18	-.242474	-.159654	-.059389	-.187018
19	-.238963	-.148078	-.082672	-.197628
20	-.234375	-.139732	-.097423	-.211273
21	-.231205	-.153153	-.101899	-.227222
22	-.229484	-.177170	-.093107	-.243067
23	-.217646	-.183957	-.092312	-.256710
24	-.196181	-.169945	-.097257	-.269173
25	-.178923	-.141065	-.103995	-.273820
26	-.157579	-.123123	-.107701	-.271054
27	-.127075	-.118197	-.090760	-.263659
28	-.100208	-.116836	-.073164	-.254308
29	-.081744	-.114071	-.070363	-.238655
30	-.062128	-.101112	-.073180	-.221132
31	-.038087	-.065540	-.058818	-.198106
32	-.023947	-.028963	-.035912	-.175142
33	-.009776	-.011435	-.016122	-.152872
34	.002278	.002076	-.010740	-.130317
35	.011800	.009715	.012752	-.107689
36	.019710	.017159	.042876	-.087110
37	.031492	.029578	.050037	-.073556
38	.039062	.044696	.048623	-.066879
39	.047128	.059256	.044813	-.062537
40	.051569	.072802	.029437	-.058096
41	.051963	.078774	.010213	-.053330
42	.047557	.071154	.004269	-.047413
43	.047882	.062070	.027873	-.039991
44	.050883	.047368	.044695	-.029482
45	.048045	.027794	.051090	-.017138
46	.043931	.029954	.054665	-.008269
47	.044534	.049198	.051738	.000663
48	.048279	.060712	.025971	.002441
49	.046951	.058217	.012142	.000788
50	.038272	.053087	-.005148	-.003461
51	.029361	.049714	-.006226	-.008391
52	.018845	.056390	-.000342	-.015861
53	.003512	.047706	-.001691	-.023390
54	-.015763	.033535	.007082	-.030156
55	-.027535	.026681	.019351	-.036816
56	-.033274	.033862	.013540	-.042758
57	-.032426	.036964	.015401	-.048138
58	-.038719	.026136	.020863	-.048891
59	-.055804	.015577	.012272	-.046797
60	-.060440	.005064	.002784	-.041985

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COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
0	.018304	-.031841	.045610	-.076673	.006419	-.014140
1	.181126	-.318875	.374291	-.275065	.116644	-.120727
2	.132138	-.492510	.366309	-.066718	.160637	-.168677
3	.064108	-.598476	.265188	.048944	.112816	-.164921
4	.035384	-.397084	.038648	-.037723	.026596	-.072517
5	-.023603	-.238690	-.073213	-.328118	.038016	-.041083
6	-.023785	-.236289	-.021834	-.727385	.047940	-.029429
7-8	.036855	-.202800	-.005165	-.481727	.032475	-.022046
9-11	.032319	-.104802	-.017442	.087918	.022653	-.012777
12-15	.047871	-.075169	-.003481	-.406075	-.000278	-.005943
16-20	.017240	-.043980	-.004771	-.262142	-.000850	.000420
21-27	.003873	-.028209	-.003291	-.092467	.005077	.002666
28-36	-.000620	-.020521	-.002864	-.073482	.001414	.001821
37-47	-.001544	-.008686	-.001489	-.013365	.000843	-.001196
48-60	-.000274	-.005059	-.001020	-.030529	.000810	.000283

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	-.049796	-.123172	.245234	-.407333	.126664	-.054670
2	-.066108	-.218379	.389915	.160098	.131497	-.139686
3	-.170805	-.162104	.448975	.284097	.100118	-.188881
4	-.212934	-.036675	.271287	-.464482	.050691	-.138184
5	-.092686	-.038343	.161895	-.525554	.043188	-.111791
6	.001966	-.023529	.175029	-.125453	.043253	-.100836
7-8	.008511	-.002052	.096005	.031143	.048245	-.053191
9-11	-.024052	-.004337	.033673	-.087317	.018119	-.047989
12-15	.014953	-.007841	.032361	-.036671	.020681	-.038343
16-20	.008815	-.007824	.012832	.049594	.010552	-.019400
21-27	.003037	.001353	.006932	.091840	.005429	-.010911
28-36	-.003270	-.001365	.003281	.002954	-.000061	-.003437
37-47	-.000337	-.002059	-.000040	-.020193	.000176	-.001944
48-60	.001344	-.000830	.001042	-.005745	-.000585	.000016

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.014506	.003487	.021891	.016750
1	.124282	.053851	.280683	.129763
2	.177319	.092480	.456294	.136670
3	.220357	.114785	.581263	.122033
4	.166618	.082443	.467435	.074546
5	.104720	.059283	.406250	.048732
6	.075892	.058175	.439351	.040446
7-8	.055457	.049725	.373024	.024197
9-11	.030189	.037014	.257508	.009362
12-15	.022302	.027287	.203905	.006280
16-20	.013739	.015931	.136550	.003082
21-27	.008677	.010626	.099305	.002100
28-36	.005490	.006279	.068647	.001299
37-47	.003342	.003959	.043998	.001097
48-60	.002190	.002541	.027076	.000919

RUN NO   96B   91M   6-19-63   1751-1907(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.71848	0.49902	0.98813	0.33746	0.66822	0.46411
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
0	-.020454	-.476990	.251361	-.010563	.129929	-.212172
1	-.051489	-.161400	.188614	.076815	.078574	-.086494
2	-.068530	-.039651	.048359	.013566	.051575	-.007355
3	-.063163	-.037701	-.051516	.035741	.002995	.044408
4	-.036926	-.045351	-.073406	.043304	.009473	.037738
5	-.023852	.024713	-.124666	.063019	.023191	.050397
6	.085226	.023952	-.076221	-.000575	-.025946	.079007
7	.074229	.084229	-.028112	-.018613	-.004091	.087405
8	.027860	.053835	-.005062	.012364	-.025378	.080250
9	.032169	.033689	.044076	-.041131	-.006191	-.027428
10	.077456	.025324	.040290	-.106001	.025469	-.045343
11	.090113	-.017126	-.005052	-.118505	.043083	-.021717
12	.077324	.070266	-.021325	-.133096	.020626	-.032540
13	.006706	.048048	-.051699	.034192	-.008309	-.049563
14	.016372	.020480	.006515	-.056536	-.052040	-.044399
15	-.002724	.050120	.036057	-.049793	-.058203	-.024674
16	-.052696	.085747	.036430	.063484	-.072946	.019435
17	-.046232	.046281	.030426	.020228	-.093325	.007589
18	-.041099	.016384	.020356	.023358	-.052908	-.010504
19	-.041622	.045993	.007485	.091141	-.049845	-.002700
20	-.007384	-.010934	-.025336	.008050	-.006030	-.044432
21	.018009	-.022451	-.068090	.002776	.010510	.005665
22	.018773	-.003939	-.067525	.021574	.011160	.034924
23	-.046190	.033367	-.045669	.017947	-.003551	.041051
24	-.043764	-.004621	-.010382	.036490	-.015773	.024238
25	-.062985	.006308	-.001439	.076405	-.047658	.059059
26	-.112144	.015292	.033667	.071195	-.012844	.056617
27	-.080809	.013521	-.000342	.080623	.001182	.039991
28	-.070495	-.014778	-.047744	.016741	.025354	-.014069
29	-.045003	.008449	-.029887	.026875	.034493	-.040365
30	-.014721	-.027632	-.002484	-.035526	.027854	-.045636

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
0	.009652	-.022884	.021478	-.012111	.015454	.000019
1	.005103	-.197651	.118788	.169309	.169011	.006379
2	-.125015	-.213888	.100677	.727651	.139342	.007964
3	-.226862	-.201816	.191002	.959271	.049451	-.052699
4	-.155193	-.161171	.317678	.193123	.037191	-.135045
5	-.006692	-.161221	.321445	-.531899	.126648	-.153480
6	.042711	-.142033	.373597	-.461791	.115497	-.122863
7	-.007199	-.081418	.432497	.010501	.006735	-.053135
8	.029806	-.054945	.268188	.139013	-.011164	-.021809
9-11	.082672	-.077563	.070359	-.037858	.046411	-.035344
12-14	-.024774	-.111128	.067062	.201901	.024374	-.071697
15-21	.027991	-.087557	.033019	-.184368	-.002586	-.018276
22-30	-.004197	-.065112	-.019070	-.210779	.025718	-.021441

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.71848	0.49902	0.98813	0.33745	0.66822	0.46411
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.095030	-.111810	.150721	-.030199	.081693	-.101561
2	-.011395	-.152774	.137270	.019372	.076583	-.050577
3	-.054663	-.094815	.119654	-.046314	.071611	-.033094
4	-.058883	-.058089	.118783	.032141	.007941	-.028142
5	.010301	-.092314	.129540	.114951	.019208	-.058089
6	-.012743	-.133176	.100249	.109867	-.007444	-.054743
7	.068362	-.056090	.113967	.105916	-.019074	-.057268
8	.040475	-.034277	.093437	.066042	.012173	-.015579
9	-.064275	-.003434	.058765	-.014434	.012142	-.016878
10	-.036962	-.038029	.063589	.003239	.066743	-.034790
11	-.014286	-.013132	.032891	-.000272	.068776	-.011313
12	-.002026	.079990	.020327	-.069111	.089466	-.042556
13	.080240	.048985	-.022194	-.049180	.024175	-.007782
14	.039399	.010080	-.016593	.012424	-.048701	-.022664
15	.074073	.048005	-.016150	-.004969	-.015523	-.044054
16	.082434	.064673	-.025019	.048831	.017618	-.035045
17	.059503	.013737	-.027744	.018188	.025292	.020511
18	.020902	.016254	-.036166	.000737	.017984	.015676
19	-.011199	-.033105	-.033519	.009362	.051367	.051743
20	.001360	.013797	-.014323	-.009813	.021119	.041903
21	-.003235	.039703	.000870	-.063227	.025760	.023876
22	-.056713	.039131	.014394	-.114017	.036912	.000815
23	.005085	-.001465	.018071	-.073247	-.001238	-.007208
24	.003279	.041400	-.018584	-.009362	-.004172	.014026
25	-.042376	-.038783	-.036504	-.025397	-.044459	.049104
26	-.060076	.056893	-.046840	-.113626	.005097	.075203
27	-.045108	.016508	-.040959	.002511	-.020462	.047457
28	-.058339	.052978	-.035129	.047795	-.014569	.026842
29	.018151	-.042080	.000074	.071018	-.048277	.014764
30	.016827	-.011462	.015333	.041799	-.060492	-.040002

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	.075221	-.077548	.433165	.496007	.168117	-.111244
2	-.032984	-.153622	.484815	.729575	.083452	-.103360
3	-.117843	-.205603	.475951	.657649	.040525	-.062277
4	-.042064	-.160083	.286725	.522309	.027555	-.038511
5	-.002468	-.077274	.143824	-.014623	.035189	-.050711
6	-.101111	-.040767	.132215	-.783322	.118182	-.035959
7	-.164283	-.055487	.120739	-.747659	.171906	-.001260
8	-.095742	-.053604	.118735	-.379888	.100362	-.016372
9-11	.025760	-.050611	.100308	-.085113	.024641	-.032505
12-14	-.040078	-.081902	.090912	.263997	.032574	-.050879
15-21	-.048765	.016836	.060869	-.086929	.007750	-.026110
22-30	-.035901	.001080	.018626	-.217769	.022744	-.011850

RUN NO   96B   91M   6-19-63   1751-1907(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.10625	0.48587	0.23438	0.91901
	10E 00	10E-01	10E-01	10E-03
0	1.000000	1.000000	1.000000	1.000000
1	.367438	.231278	.110431	.577218
2	.127674	.061376	.059502	.241109
3	.134698	.036637	-.035672	-.014001
4	.027449	.060980	.043605	-.143662
5	-.016270	.028367	-.074975	-.211667
6	-.083094	-.029409	-.060705	-.191336
7	-.104059	-.108644	-.156081	-.125238
8	-.058958	-.039959	-.116121	-.047591
9	-.121379	-.017242	.003873	.074087
10	-.109934	-.063764	-.038139	-.009304
11	-.096505	-.075505	-.014252	-.127651
12	-.171386	-.054765	-.143756	-.180650
13	-.155693	-.107267	-.068075	-.152645
14	-.077635	-.115292	-.050345	-.067052
15	-.068526	-.145374	-.049237	-.000761
17	.001593	-.072997	-.05411'1	-.033844
18	-.065085	.023828	.080697	-.023951
19	-.033447	-.036241	-.030259	-.011056
20	-.043514	.014349	.060633	-.030281
21	-.055409	-.004450	.020714	-.075741
22	-.042571	-.009757	.094952	-.041988
23	.004416	-.026774	-.005700	.002086
24	.029528	.042190	.028907	.021709
25	.032026	-.028061	-.020315	.005560
26	.006130	.040922	-.014410	.004981
27	.047805	.014128	.034495	-.050993
28	.044652	.071166	.097648	-.007586
29	-.028259	-.022715	.044686	-.005700
30	.035734	.015371	.055479	.021637

POWER SPECTRUM

K	U	V	W	T
0	.011378	.057691	.004874	.097629
1	.093097	.376162	.084071	.708481
2	.105113	.382955	.132887	.794361
3	.106666	.349680	.154016	.926745
4	.080670	.235407	.118916	.897023
5	.056993	.212571	.119766	.853490
6	.049617	.237725	.127641	.925754
7	.054126	.201170	.091172	.988452
8	.043865	.138071	.062062	.727165
9-11	.031286	.177586	.070519	.218774
12-14	.036634	.228468	.116179	.289158
15-21	.036468	.174228	.088717	.146149
22-30	.031224	.195867	.122203	.136693

4_

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RUN NO    96B    46M    6-19-63    1751-1907(EST)
RUN NO    96B    91M    6-19-63    1751-1907(EST)
   61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.194869	.033651	.059987	.035935
1	.176607	.452202	.148535	.322586
2	.210006	.398019	.249040	.355032
3	.233706	.389958	.324542	.350781
4	.135753	.427082	.376380	.243807
5	.096910	.365381	.320849	.042951
6	.171488	.127827	.239456	.037562
7-8	.160724	.097141	.181004	.068500
9-11	.058276	.106588	.057646	.097703
12-15	.114605	.056378	.079987	.115766
16-20	.083780	.069810	.116425	.091285
21-27	.133904	.098431	.072758	.126525
28-36	.080610	.105923	.079015	.065667
37-47	.098002	.133836	.096242	.062163
48-60	.056562	.060201	.113795	.086559

301 POINT RUNNING MEAN, 10 POINT BLOCK   ` ⅃E

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.690815	.882312	.871742	.070702
1	.657816	.878578	.648934	.449991
2	.592133	.773990	.607421	.372267
3	.535883	.597405	.532499	.351381
4	.507619	.276258	.419309	.381991
5	.263117	.286076	.148525	.412990
6	.157842	.434867	.207424	.327924
7	.250993	.492374	.050207	.382051
8	.218899	.500879	.463263	.339696
9-11	.169854	.481739	.216472	.465563
12-14	.265478	.407282	.446293	.479123
15-21	.266481	.489791	.365207	.261640
22-30	.206369	.331083	.327089	.217929

RUN NO   96C   46M   6-19-63   1921-2037(EST)

GROSS STATISTICS

CLEAR   WIND SPEED   5.10 M/SEC   SIGMA A 6.10 DEG
STABLE   WIND DIRECTION 228 DEG   SIGMA E 4.1 DEG
                   SOLAR RAD.   0 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
L	0.59452E 00	0.40845E-00	0.31124E-00	0.27126E-00
V	0.27727E-00	0.22818E-00	0.21734E-00	0.93738E-01
W	0.11902E-00	0.11762E-00	0.10758E-00	0.44050E-01
T	0.43902E-02	0.26981E-02	0.19600E-02	0.18659E-02
E	0.49540E-00	0.37712E-00	0.31793E-00	
GUSTINESS RATIOS				
U	0.15119	0.12531	0.10939	0.10212
V	0.10325	0.09366	0.09135	0.06003
W	0.06764	0.06725	0.06431	0.04115
COVARIANCES				
U,V	-0.84424E-01	-0.17794E-01	-0.18118E-01	-0.11110E-01
U,W	-0.10854E-00	-0.10910E-00	-0.93097E-01	-0.62684E-01
U,T	0.28572E-01	0.17627E-01	0.11356E-01	0.14397E-01
V,W	-0.10519E-02	0.14359E-02	0.24140E-02	0.46883E-02
V,T	-0.41704E-02	0.11678E-02	0.79329E-03	0.75020E-03
W,T	-0.55554E-02	-0.65172E-02	-0.50128E-02	-0.43162E-02
WE	0.97073E-02	0.85568E-02	0.38051E-02	
NORMALIZED COVARIANCES				
U,V	-0.20794	-0.05828	-0.06971	-0.06967
U,W	-0.40806	-0.49813	-0.50876	-0.57345
U,T	0.55925	0.53097	0.46017	0.63994
V,W	-0.00579	0.00877	0.01580	0.07296
V,T	-0.11953	0.04706	0.03846	0.05673
W,T	-0.24304	-0.36584	-0.34520	-0.47610

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RUN NC   96C   46M   6-19-63   1921-2037(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25989	0.18298	0.24699	0.15282	0.20628	0.14523
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.067258	-.441552	.445513	.02.840	.027406	-.307162
2	-.055287	-.325149	.401303	.033387	.013049	-.238400
3	-.046980	-.225421	.344405	.037195	.009468	-.180409
4	-.039559	-.155091	.284613	.032433	.009965	-.145346
5	-.030320	-.108336	.225071	.024183	.012930	-.114823
6	-.016011	-.070868	.170666	.015219	.016608	-.084245
7	-.004567	-.037726	.124225	.006246	.017595	-.054759
8	.003469	-.009834	.083709	-.005234	.013938	-.028442
9	.009209	.009739	.047403	-.010363	.010930	-.008474
10	.009333	.028589	.010045	-.006881	.015525	.010734
11	.008262	.049123	-.029761	.000010	.018354	.034432
12	.008863	.063434	-.060651	.000671	.016331	.056133
13	.015161	.073186	-.087628	-.000363	.010473	.070705
14	.018976	.088865	-.109465	.000669	.008773	.086249
15	.020508	.106992	-.130257	-.013416	.004749	.095793
16	.028691	.116895	-.145615	-.029041	-.005667	.096579
17	.037380	.116314	-.156977	-.042498	-.012409	.093763
18	.041571	.117468	-.164185	-.042163	-.019791	.088264
19	.038373	.119773	-.170119	-.031550	-.023506	.085868
20	.040677	.119549	-.174764	-.032347	-.022427	.087563
21	.042641	.124777	-.177047	-.033125	-.020002	.090894
22	.032557	.129057	-.178553	-.031242	-.019416	.093126
23	.019439	.124965	-.175724	-.033494	-.015549	.090892
24	.013816	.112302	-.166167	-.032008	-.005033	.079570
25	.009644	.097900	-.155370	-.016345	.005072	.070121
26	.006327	.085138	-.139488	.000146	.009352	.066148
27	.006489	.072500	-.123242	.002292	.008070	.059824
28	.005697	.068944	-.101834	.003772	.001067	.049255
29	.005259	.059525	-.083873	.012000	-.011314	.039917
30	.006937	.036842	-.067917	.024432	-.018057	.034051
31	.013504	.015462	-.058031	.019594	-.024375	.027635
32	.015765	.005269	-.049680	.009910	-.025411	.028021
33	.017005	-.001248	-.041406	.012639	-.022933	.035456
34	.013245	-.001556	-.031762	.022861	-.022414	.040689
35	.005544	.003127	-.026602	.035522	-.015039	.040072
36	.001434	.006314	-.023556	.028538	-.004012	.034599
37	.001765	.005617	-.014055	.009231	-.000010	.027828
38	.004906	.008517	-.006860	-.012262	-.001148	.018340
39	.012433	.013372	-.001915	-.027189	-.006716	.008836
40	.013126	.018347	.001691	-.026532	-.011172	.004018
41	.004861	.021690	.011207	-.014512	-.010864	.004649
42	-.009073	.017698	.015598	.000641	-.009922	.002514
43	-.022380	.009574	.018342	.015605	-.014193	-.005516
44	-.032372	-.003294	.025126	.025799	-.016289	-.018723
45	-.038938	-.016981	.031959	.031164	-.013945	-.030315
46	-.038159	-.024036	.034300	.020140	-.002834	-.034920
47	-.033732	-.024084	.034621	.002362	.007641	-.036242
48	-.031365	-.023537	.033421	-.009395	.019204	-.035282
49	-.033124	-.020105	.032381	-.009350	.022978	-.038185
50	-.036861	-.018561	.030881	.002345	.015484	-.038356
51	-.040554	-.015414	.031462	.014237	-.000942	-.041563
52	-.039306	-.016417	.037218	.020225	-.017327	-.046068
53	-.033524	-.020926	.039617	.012318	-.027361	-.042698
54	-.023999	-.020613	.041524	.006007	-.030707	-.036864
55	-.021542	-.024586	.042007	.003173	-.028945	-.037697
56	-.028248	-.029456	.044364	.003055	-.026737	-.042875
57	-.030202	-.042730	.040576	.004387	-.025139	-.045642
58	-.022776	-.054823	.034465	.006308	-.018685	-.040522
59	-.013393	-.061784	.024355	.009282	-.015034	-.036372
60	-.011781	-.060493	.017185	.021621	-.010583	-.028024

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61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25989	0.18298	0.24699	0.15282	0.20628	0.14523
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.015915	-.009979	.069994	-.010753	.010734	-.081648
2	-.022113	-.012325	.118249	-.013913	.009577	-.105364
3	-.024202	-.013788	.140892	-.018605	.002590	-.104762
4	-.022750	-.009783	.151579	-.024702	-.001161	-.098779
5	-.018640	-.012548	.158786	-.030760	-.000578	-.089345
6	-.012123	-.018970	.163912	-.024121	.001525	-.081388
7	-.005312	-.016077	.164259	-.014934	-.002613	-.078497
8	.004073	-.016251	.164915	-.002665	-.009039	-.074546
9	.010449	-.015814	.162601	.007313	-.010367	-.067071
10	.014851	-.014838	.159459	.005036	-.010071	-.060040
11	.022101	-.015882	.156625	.001245	-.006405	-.053496
12	.031842	-.015172	.148323	.009537	-.005034	-.050694
13	.032176	-.008979	.133159	.012519	-.004353	-.048528
14	.031689	-.004803	.118972	.006327	-.002439	-.047036
15	.029534	.002146	.105207	.009225	-.001812	-.049185
16	.032798	.007928	.093408	.014804	-.001187	-.049964
17	.031260	.008109	.083166	.018417	-.000825	-.044856
18	.024572	.008216	.070246	.023257	-.003106	-.037139
19	.019703	.003629	.059054	.024422	-.009378	-.032401
20	.014401	.003902	.049348	.029907	-.018392	-.026020
21	.009050	.007346	.041841	.031770	-.019699	-.014487
22	.002733	.006312	.031630	.028344	-.019977	-.004175
23	-.010101	-.001060	.024595	.018743	-.014150	.002630
24	-.021757	-.006519	.020543	.012319	-.007612	.012588
25	-.021911	-.007534	.020615	.011917	-.002454	.022097
26	-.016633	-.009822	.020865	.013553	-.001882	.030961
27	-.017782	-.006778	.020209	.014245	-.001586	.032165
28	-.016842	.000791	.008264	.011535	-.003889	.038431
29	-.013052	.009436	-.009450	.011990	-.006641	.043657
30	-.005233	.015502	-.026119	.001549	-.005757	.049478
31	.002615	.019067	-.040005	-.013824	-.002272	.041999
32	.008018	.016940	-.045827	-.026862	.004765	.025897
33	.010148	.010347	-.047991	-.032667	.011528	.014833
34	.012265	.005159	-.049173	-.029646	.012873	.010927
35	.012858	.004715	-.046088	-.028649	.009258	.013039
36	.009153	.002405	-.047429	-.028963	.004237	.020148
37	.008690	.000780	-.049316	-.025513	.005117	.023573
38	.000441	.000958	-.053925	-.016975	.012103	.026004
39	-.010848	-.001045	-.056815	-.010478	.024115	.028388
40	-.021534	-.002291	-.056226	-.011354	.036066	.031937
41	-.029773	.001129	-.051746	-.016378	.038557	.035808
42	-.028528	.007587	-.048118	-.020430	.028493	.036731
43	-.026394	.009446	-.043260	-.013659	.015777	.035249
44	-.024541	.008154	-.036029	-.009386	.012157	.021933
45	-.021230	.004975	-.030094	-.013621	.011995	.012693
46	-.027473	.003788	-.024179	-.020235	.011817	.001525
47	-.033728	.005861	-.017532	-.025672	.011599	-.007189
48	-.033074	.009148	-.013316	-.021924	.004673	-.009314
49	-.025524	.008286	-.012172	-.018045	-.000416	-.005646
50	-.014616	.004011	-.013738	-.001252	-.007793	-.004472
51	.001383	.005022	-.017484	.018173	-.009840	-.005801
52	.019913	.003890	-.017993	.026119	-.003136	-.004981
53	.029715	-.005726	-.021510	.027515	.002896	.001584
54	.030256	-.011105	-.021167	.023434	.006753	-.003847
55	.022878	-.015212	-.017414	.016805	.013801	-.014384
56	.013333	-.019104	-.012902	.013589	.015493	-.013508
57	.003114	-.020062	-.005380	.018791	.013236	-.007960
58	-.008405	.016330	.007068	.017626	.009057	-.008816
59	-.017302	-.008413	.018334	.013422	.004185	-.012929
60	-.018926	-.001287	.026092	.004296	.000955	-.016264

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.31118	0.21706	0.10759	0.19604
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.863097	.751008	.692996	.862234
2	.682052	.460654	.358161	.697031
3	.527452	.268435	.172274	.547020
4	.401646	.146111	.085277	.423022
5	.295474	.062220	.033492	.321313
6	.203823	-.000363	-.006902	.240530
7	.127339	-.054693	-.039079	.167119
8	.066977	-.104296	-.067737	.095701
9	.015109	-.138460	-.078680	.036289
10	-.030350	-.160647	-.078024	-.012167
11	-.066190	-.158607	-.075728	-.055247
12	-.102813	-.164912	-.072983	-.098884
13	-.133624	-.163268	-.084380	-.130266
14	-.161954	-.148171	-.099380	-.156339
15	-.189238	-.126965	-.123740	-.176373
16	-.210077	-.124175	-.141889	-.203811
17	-.228209	-.129723	-.146662	-.229422
18	-.242098	-.135825	-.133468	-.252093
19	-.245944	-.136493	-.114585	-.269099
20	-.249885	-.125169	-.117345	-.279913
21	-.254339	-.108236	-.132647	-.280392
22	-.258338	-.097244	-.133730	-.282759
23	-.256358	-.089910	-.120505	-.284327
24	-.249654	-.090036	-.103567	-.276020
25	-.234438	-.101462	-.092663	-.269505
26	-.219338	-.110153	-.076809	-.263122
27	-.202500	-.103983	-.056489	-.251955
28	-.189395	-.082476	-.048957	-.238445
29	-.171104	-.071636	-.051621	-.214618
30	-.139101	-.057482	-.023880	-.183867
31	-.100929	-.036889	.016034	-.150761
32	-.062874	-.025078	.031431	-.123325
33	-.035051	-.026662	.031427	-.103952
34	-.015730	-.021434	.026005	-.089765
35	-.007874	-.000524	.013546	-.076231
36	-.008489	.033334	-.001730	-.057852
37	-.015865	.058109	-.012781	-.041100
38	-.022893	.077558	-.006550	-.021283
39	-.027550	.092096	-.005019	.002625
40	-.033480	.096925	-.005912	.028782
41	-.039715	.082652	-.019709	.052882
42	-.034083	.056111	-.025373	.075549
43	-.023807	.037546	-.010090	.096297
44	-.012367	.031657	.016498	.113303
45	-.001152	.017785	.035319	.125744
46	.008394	.024298	.018759	.129774
47	.015686	.021521	.012453	.121846
48	.017129	.014440	.016704	.112878
49	.016744	.008530	.020325	.105418
50	.017495	.005247	.019244	.094229
51	.018605	.003944	.022545	.086021
52	.025826	.008419	.018091	.078157
53	.037663	.019172	.011666	.078586
54	.047737	.032682	.001829	.077676
55	.054175	.043515	-.000152	.082013
56	.057548	.040208	-.003263	.080559
57	.069105	.033402	.021434	.074322
58	.078537	.031418	.039638	.063495
59	.087286	.030544	.039897	.044294
60	.090143	.032676	.037305	.018320

RUN NO   96C   46M   6-19-63   1921-2037(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-03	10E-03
0	.015493	-.005468	.016441	-.006214	.015691	-.037348
1	-.113560	-.086559	.185807	.013722	.185049	-.573778
2	-.358471	-.128179	.254704	.105823	.176059	-.838754
3	-.436249	-.149586	.271686	.199216	.105034	-.908934
4	-.306186	-.112246	.171766	.154336	.032294	-.659832
5	-.212412	-.067596	.086810	.012372	-.003874	-.444178
6	-.055365	-.048030	.050303	-.059582	-.057630	-.260854
7-8	-.068062	-.047245	.038477	.035783	-.026388	-.176482
9-11	-.0789.3	-.030579	.017182	.015705	.053307	-.103450
12-15	.016344	-.020076	.009661	-.051654	.013239	-.095403
16-20	-.008940	-.012346	.001901	-.001620	.025945	-.051510
21-27	-.011874	-.006246	.000803	-.010469	.012909	-.035985
28-36	-.001692	-.002392	.000125	-.004008	.008523	-.011089
37-47	.002130	-.001122	-.000259	-.001229	.001988	-.002547
48-60	.003537	-.000629	-.000155	-.000258	.003029	-.002705

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-02	10E-02	10E-04	10E-03
1	.109937	-.087307	.122822	.055614	-.474754	-.201255
2	.181272	-.619730	.150950	.091336	-.960897	-.384835
3	.115604	-.883607	.139468	-.012510	-.166920	-.453835
4	-.003006	-.770271	.082163	-.144226	.532311	-.284755
5	-.161909	-.691869	.056776	-.107417	-.041949	-.155857
6	-.306750	-.632993	.042227	-.037759	-.135119	-.125644
7-8	-.096708	.013404	.017630	-.047754	.032971	-.187011
9-11	-.058235	-.044118	.015485	-.038393	.450897	-.107087
12-15	-.017770	-.120439	.009680	.008253	.019793	-.068734
16-20	-.012602	-.031618	.003733	.010624	.071931	-.054636
21-27	-.010519	-.110292	.002462	-.010363	.207755	-.027674
28-36	-.001422	.022530	.000534	-.002464	.036937	-.016308
37-47	-.002360	-.032217	-.000119	.000112	.021696	-.008136
48-60	-.002706	-.008259	-.000115	-.002247	-.004753	-.001994

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.031926	.003454	.002922	.020537
1	.382251	.086285	.047292	.247905
2	.504564	.168221	.075932	.351768
3	.537928	.236332	.100486	.359683
4	.367811	.201053	.087645	.210549
5	.212963	.169070	.062411	.132227
6	.166878	.168014	.051575	.106718
7-8	.143320	.122516	.055497	.082056
9-11	.086156	.080659	.044607	.048869
12-15	.047497	.053191	.030165	.028845
16-20	.028552	.040585	.024781	.017961
21-27	.018119	.026185	.016990	.010227
28-36	.010699	.015620	.009986	.006285
37-47	.006674	.009620	.005886	.004553
48-60	.004598	.006112	.004020	.003708

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.15944	0.10936	0.22497	0.64275	0.13222	0.90688
	10E 00	10E 00	10E-01	10E-01	10E-01	10E-02
0	-.069681	-.573185	.639961	.072941	.056739	-.475942
1	.016402	-.156220	.297647	-.036453	.058769	-.151068
2	.023036	.016064	.067572	-.075721	.024450	-.018108
3	-.017510	.009126	.011542	.043562	-.017917	.005211
4	-.007988	.102014	-.059287	.037019	-.005872	.065190
5	-.048517	.038966	-.039021	-.019279	.004085	-.008642
6	-.022131	.013474	-.057487	.041343	-.014225	.017138
7	.054182	.077787	-.074263	-.044580	.049610	.065544
8	.039362	.111418	-.087524	-.027189	.011103	.083085
9	-.016598	.092110	-.059341	.009409	-.042411	.041745
10	.029532	.003464	.011660	-.017215	-.019228	.001015
11	.085703	.023476	-.018496	.012641	-.013272	.029460
12	.000756	.036891	-.072007	.000883	-.015939	.062340
13	-.043111	.065840	-.153753	.039915	-.065690	.107103
14	.008870	.061001	-.155947	.008331	.040088	.069492
15	-.009422	.009411	-.125980	-.008642	.052869	.059805
16	-.059579	-.020561	-.026171	.046105	-.064365	.039793
17	.012747	.122349	.055749	.012489	-.032238	-.073173
18	-.034671	-.109572	.037378	.014255	-.031203	-.060799
19	-.006674	-.067304	.023378	.002464	.030155	-.049113
20	-.015423	.009421	-.026819	.021512	-.043074	-.009523
21	.030460	-.030769	.047658	.000320	-.019802	-.018368
22	-.036284	-.095444	.057394	.031056	-.022802	-.032320
23	-.004367	.021994	-.031315	.017950	.011953	.057038
24	-.000506	.032778	-.067910	-.008029	.027214	.013745
25	.034581	.015631	-.054216	-.078661	.039105	-.044807
26	.006315	.099888	-.048964	-.051132	.036574	.058716
27	.024748	.046901	.048835	-.052457	.018661	-.035837
28	-.023765	.012805	.068166	-.011055	-.055343	-.048575
29	.026270	.040206	.015551	-.082661	-.043783	-.008176
30	.022652	.125395	-.019862	.006459	.046996	.054958

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-03
0	.001111	-.014095	.007505	.050713	.008188	-.008823
1	.019749	-.084908	.095888	-.185835	.128386	-.171442
2	-.036145	-.259241	.130447	-.303965	.144988	-.303754
3	-.144534	-.547493	.145125	.063160	.098103	-.397808
4	-.103213	-.476269	.101366	.146792	.063411	-.271529
5	.068152	-.311670	.091597	-.115638	.046653	-.192864
6	.147968	-.383573	.128858	-.324144	.012539	-.296394
7	.090955	-.384809	.111445	-.505173	.084245	-.287891
8	.000092	-.250833	.054076	-.321133	.157172	-.143985
9-11	-.036950	-.363062	.068916	.100785	.066389	-.226258
12-14	-.180122	-.221053	.047664	.503097	-.015337	-.185993
15-21	-.052614	-.232617	.037080	.844687	-.009094	-.122857
22-30	-.068084	-.199689	.028274	.039543	-.004896	-.138703

RUN NO   96C   46M   6-19-63   1921-2037(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.15944	0.10936	0.22497	0.64275	0.13222	0.90688
	10E 00	10E 00	10E-01	10E-01	10E-01	10E-02
1	.018469	-.037692	.221114	-.017120	-.014361	-.084517
2	-.006554	-.007727	.155835	.046885	.001800	-.038394
3	-.003110	-.028215	.149872	.012277	-.030488	.007881
4	-.026429	-.036726	.084453	-.035870	.006524	.009822
5	.035801	-.055546	.058580	.054745	-.040928	.010935
6	.027069	-.078594	.046420	.023603	-.029424	-.002316
7	.030754	-.062773	.026503	.057735	-.055857	.007615
8	.090317	-.016772	.005189	.009695	-.063022	.033514
9	.016207	-.012494	-.035510	.003361	.006592	.056173
10	.013470	-.015413	-.038588	-.031377	-.016680	.110240
11	-.007984	.059837	.026294	-.004590	-.011575	.014885
12	-.063513	.004377	.032163	-.033085	.047981	-.004690
13	-.096152	.022512	.028158	-.123920	.070800	-.011651
14	-.050669	-.002602	-.028568	-.028391	.061387	-.007979
15	.049681	-.005155	-.038852	.013022	.008926	.008875
16	.005209	.017403	-.078004	.043996	-.003916	.015768
17	.010012	.067446	-.062875	-.043301	.002103	.006327
18	-.009251	.053645	-.006158	-.026943	.015107	-.041881
19	.016113	.005842	.023400	-.015701	.004239	-.058740
20	.004194	-.031180	.015549	-.001601	-.034262	-.035972
21	.017468	-.019319	-.013628	.051212	-.021493	-.013419
22	.000065	-.023279	-.021248	.028535	-.021388	-.014330
23	-.000103	-.015102	.032472	.024772	-.016640	-.031851
24	.011293	.056890	-.012731	-.037579	-.046231	-.036035
25	.011885	.058506	.007522	-.018769	-.020669	-.060342
26	-.003410	.043632	-.016873	.032595	-.015799	-.066123
27	.048845	.026463	-.007489	.057599	-.082147	-.036536
28	.067002	.008546	.019726	.088037	-.073625	-.025334
29	.009418	-.049860	.037878	.017510	-.064669	-.006337
30	-.051563	-.076973	.038466	-.006952	.024616	.003038

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	.038239	-.078333	.295462	-.327976	-.047117	.085087
2	.092146	-.170613	.540432	.211224	-.107946	.109646
3	.189079	-.222844	.780306	.902055	-.228763	.001958
4	.105150	-.142555	.718711	.710826	-.117959	-.102952
5	-.142399	-.021873	.681172	-.087982	.086211	-.111545
6	-.274439	.015994	.783334	-.540452	.136499	-.078639
7	-.121878	.085759	.640866	-.443877	.045509	-.028220
8	.112389	.094746	.276247	.104111	-.049971	.024537
9-11	.043856	-.029318	.418503	.153761	-.015125	-.104519
12-14	.068180	-.053636	.241881	.392096	-.025896	-.057931
15-21	-.004104	-.027780	.190001	-.449961	.012000	-.042747
22-30	.060223	-.013787	.176123	.022781	-.062797	-.017315

301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.27129	0.93711	0.44085	0.18655
	10E 00	10E-01	10E-01	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.378437	-.015799	.153079	.421895
2	.076685	-.074862	-.015981	.084597
3	-.015995	-.000664	.053789	-.038758
4	-.142909	.055811	-.077125	-.075816
5	-.111070	-.020590	-.027447	-.016531
6	-.069967	.047026	-.033922	-.100436
7	-.095977	-.032025	-.034127	-.123860
8	-.168826	-.069333	-.139069	-.095038
9	-.136940	-.005115	-.113955	-.058113
10	-.023852	-.042645	-.006251	.051964
11	-.092071	-.103434	-.122035	-.009563
12	-.082347	-.026481	-.155769	-.142647
13	-.115626	-.031401	-.161981	-.224541
14	-.102477	-.085546	-.085775	-.206949
15	-.069211	-.068879	-.027323	-.142956
16	.004185	-.005843	-.045313	-.068697
17	.140392	.034313	.070243	-.003159
18	.116839	.017984	.023252	-.017045
19	.053164	-.016049	.059084	.002853
20	-.020089	.024177	.047956	-.011924
21	.013716	-.047777	-.006061	.039639
22	.063007	-.057799	.089213	.024563
23	-.032311	.041319	-.005749	-.038323
24	-.086351	.039703	.031941	-.016456
25	-.134357	.060615	.079689	.053334
26	-.106854	-.091064	-.072036	.023652
27	-.001181	.009863	.013828	.080724
28	.070195	.026817	-.012885	.030096
29	-.006673	-.007389	.009411	.025661
30	-.044614	-.043705	-.048157	.018781

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-03
0	.009016	.057014	.005140	.008990
1	.106898	.364110	.141006	.121583
2	.171268	.392107	.265969	.160368
3	.259288	.402493	.340073	.159459
4	.228306	.276816	.222114	.112756
5	.166701	.193027	.144063	.120289
6	.193058	.232604	.188922	.158146
7	.189796	.300064	.221128	.140228
8	.133831	.2746.	.179671	.076375
9-11	.140210	.372000	.176422	.085766
12-14	.080943	.439690	.164386	.081265
15-21	.080550	.500742	.196889	.042671
22-30	.072042	.521272	.194386	.047573

GROSS STATISTICS

CLEAR	WIND SPEED	7.44 M/SEC	SIGMA A 2.70 DEG
STABLE	WIND DIRECTION	231 DEG	SIGMA E 2.0 DEG
	SOLAR RAD.	0 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.45665E-00	0.13999E-00	0.11936E-00	0.85070E-01
V	0.11627E-00	0.93440L-01	0.83803E-01	0.39594E-01
W	0.57186E-01	0.54248E-01	0.51301E-01	0.13740E-01
T	0.13462E-01	0.21570E-02	0.17032E-02	0.13501E-02
E	0.31505E-00	0.14384E-00	0.12723E-00	
GUSTINESS RATIOS				
U	0.09083	0.05029	0.04644	0.03920
V	0.04583	0.04109	0.03891	0.02674
W	0.03214	0.03131	0.03044	0.01840
COVARIANCES				
U,V	-0.12905E-01	-0.56016E-02	-0.34166E-02	-0.30461E-02
U,W	-0.37473E-01	-0.41869E-01	-0.37757E-01	-0.23190E-01
U,T	0.59647E-01	0.75040E-02	0.54833E-02	0.58266E-02
V,W	-0.68809E-02	-0.20602E-02	-0.26582E-02	-0.91663E-03
V,T	-0.40279E-02	0.24947E-03	0.39851E-06	0.19959E-03
W,T	-0.91088E-03	-0.31898E-02	-0.26298E-02	-0.21249E-02
WE	0.92754E-02	0.41333E-02	0.39499E-02	
NORMALIZED COVARIANCES				
U,V	-0.05601	-0.04898	-0.03416	-0.05249
U,W	-0.23189	-0.48045	-0.48264	-0.58080
U,T	0.76075	0.43184	0.38458	0.54368
V,W	-0.08439	-0.02894	-0.04054	-0.03365
V,T	-0.10181	0.01757	0.00003	0.02730
W,T	-0.03283	-0.29488	-0.28134	-0.42244

RUN NO   96C   91M   6-19-63   1921-2037(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10002	0.78255	0.14261	0.65580	0.11951	0.93503
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.034082	-.482594	.384487	-.040578	.000036	-.281623
1	-.029834	-.412058	.381498	-.030536	-.007863	-.271229
2	-.022984	-.299353	.350341	-.009222	-.016778	-.220307
3	-.018177	-.207153	.295227	.010766	-.021199	-.158345
4	-.018290	-.133407	.229974	.022685	-.020146	-.109499
5	-.019479	-.078659	.168668	.027020	-.020598	-.070512
6	-.015818	-.037568	.115821	.025802	-.018111	-.034467
7	-.004716	-.008899	.072907	.015975	-.009714	-.010855
8	.008837	.017821	.040862	.000929	.004452	.009068
9	.013695	.036967	.015347	-.007481	.021848	.019674
10	.011713	.051772	-.006690	-.018790	.022158	.021402
11	.006392	.055775	-.024195	-.020411	.011970	.025294
12	.005662	.053859	-.037679	-.013328	.006222	.030802
13	.006393	.055151	-.053153	-.005890	.005012	.039794
14	.011594	.053297	-.071002	-.004862	-.000354	.051929
15	.020405	.051387	-.090216	-.013100	-.005306	.058908
16	.025358	.051924	-.103567	-.019582	-.004217	.063060
17	.028274	.071226	-.110487	-.029964	-.001534	.062513
18	.027919	.092413	-.110455	-.028922	.000425	.061826
19	.021860	.102128	-.118002	-.016119	-.003421	.060166
20	.022542	.108231	-.127383	-.004362	-.010701	.066963
21	.023158	.112548	-.133990	-.006123	-.009096	.070070
22	.018319	.119439	-.143186	-.000469	-.001848	.072979
23	.005928	.125365	-.156366	.003823	.004132	.073888
24	-.009390	.120947	-.165245	.017705	.011082	.067935
25	-.012841	.113916	-.164645	.026469	.012241	.063739
26	-.002071	.117990	-.155304	.026057	.009321	.059432
27	.005263	.111002	-.138588	.019561	.004804	.051150
28	.009675	.088861	-.122367	.008875	.002224	.043734
29	.009236	.069594	-.108823	-.006757	-.000929	.036417
30	.000533	.049843	-.093185	-.004172	-.005034	.025725
31	-.005061	.031587	-.072988	-.000874	-.002566	.021821
32	-.009158	.026746	-.052378	-.000255	-.001192	.022999
33	-.011800	.022994	-.037016	.007631	.007943	.025373
34	-.011401	.016471	-.024930	.014561	.013045	.024348
35	-.007537	.007455	-.014932	.010543	.007474	.025880
36	-.007628	.003654	-.009112	.013489	.003023	.025088
37	-.007032	-.004408	-.003668	.016473	.003685	.024839
38	-.004501	-.012334	.004943	.018262	.008838	.015653
39	-.008617	-.017056	.010900	.013503	.014755	.010078
40	-.013434	-.024153	.013899	.017918	.019249	.007341
41	-.010679	-.028260	.022630	.020041	.021206	-.000396
42	-.002837	-.040069	.032252	.022040	.023430	-.005462
43	-.006627	-.051957	.039546	.021937	.025557	-.012415
44	-.016460	-.054066	.044687	.017775	.026075	-.022980
45	-.020038	-.057224	.047773	.012920	.021921	-.028036
46	-.019684	-.054582	.045382	.018681	.022210	-.029285
47	-.016954	-.059235	.040924	.020191	.026637	-.026546
48	-.013371	-.055938	.035316	.014238	.027363	-.026091
49	-.008310	-.049663	.031605	.004297	.020128	-.025884
50	-.000759	-.041694	.031150	-.016305	.010735	-.020437
51	.008262	-.022732	.036479	-.024472	-.000033	-.011734
52	.012764	-.003998	.035151	-.023973	-.009869	-.005754
53	.017893	.010067	.030924	-.020043	-.021837	-.001785
54	.022088	.015569	.026406	-.021715	-.028882	-.007084
55	.018025	.008616	.021980	-.016662	-.031004	-.011910
56	.006455	.002923	.017546	-.002306	-.030977	-.013405
57	-.012060	.003405	.014011	-.000205	-.027778	-.017543
58	-.022708	.002194	.004546	-.004592	-.030873	-.027092
59	-.023603	.003435	-.000766	-.005428	-.035056	-.020516
60	-.017723	.003672	-.000924	-.007657	-.042286	-.016103

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10002	0.78255	0.14261	0.65580	0.11951	0.93503
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.003297	-.001033	.101993	-.008775	.022387	-.110841
2	.001899	.004870	.153661	-.019321	.030885	-.138643
3	.003839	.014007	.170375	-.029891	.029090	-.125167
4	-.001793	.023427	.168925	-.044829	.020940	-.100872
5	-.009069	.023349	.155939	-.053262	.008414	-.082714
6	-.008425	.014317	.143847	-.049625	-.003134	-.064443
7	-.004972	.004416	.133161	-.034171	-.013593	-.042050
8	.003098	-.003687	.123561	-.027135	-.023280	-.017489
9	.012820	-.011612	.119842	-.010709	-.029442	-.005420
10	.025558	-.011016	.122518	.007213	-.033402	-.004249
11	.036544	-.007946	.123080	.011678	-.032656	-.001948
12	.044969	-.004035	.120830	.008552	-.033451	.003998
13	.052674	.001389	.120595	.010734	-.038435	.002250
14	.061181	.005226	.113703	.016892	-.044013	.000224
15	.068367	.008089	.102798	.019741	-.044938	-.003824
18	.050777	.009481	.063290	.020103	-.013637	-.017726
19	.035611	.007817	.046985	.015810	.004066	-.014856
20	.023734	.006330	.035982	.011328	.018172	-.015475
21	.012362	.015219	.031366	.003562	.027648	-.021413
22	.007191	.025935	.025604	-.001275	.038660	-.027464
23	.000024	.028914	.018144	.002146	.047989	-.027885
24	-.011398	.019902	.008674	.010975	.048122	-.022591
25	-.018629	.000511	.002530	.020652	.037596	-.017067
26	-.021240	-.015258	-.003706	.033092	.021320	-.011975
27	-.026507	-.020064	-.012314	.038268	.013191	-.001914
28	-.030714	-.024076	-.020204	.034414	.007293	.014123
29	-.034271	-.034730	-.024499	.027653	.009659	.025648
30	-.039474	-.042367	-.024057	.013948	.013053	.028552
31	-.045470	-.050023	-.027037	-.003540	.014679	.020610
32	-.052934	-.044354	-.030886	-.014903	.015128	.020650
33	-.051519	-.026588	-.034077	-.006204	.013451	.019763
34	-.042193	-.017258	-.033783	.005264	.009168	.008513
35	-.036535	-.011280	-.034487	.006450	.006956	.002134
36	-.040667	-.001884	-.034906	.002011	.009772	.000858
37	-.041986	.003643	-.039987	-.008131	.013341	.003079
38	-.038901	.002000	-.045872	-.025965	.010623	.005035
39	-.028312	.006142	-.045748	-.032216	.012201	.005678
40	-.018336	.012244	-.045329	-.028455	.013801	.001426
41	-.014356	.016189	-.042530	-.018945	.006225	-.000464
42	-.005809	.012950	-.040177	-.010911	-.004116	-.002736
43	-.001390	.002054	-.037607	-.000611	-.020501	-.000837
44	.002833	-.004796	-.034726	.000170	-.032505	.008772
45	.011211	-.004564	-.032382	-.002075	-.036590	.018271
46	.020583	-.001239	-.031062	-.001476	-.037401	.021203
47	.029705	.002063	-.030999	-.006522	-.035835	.020550
48	.034861	-.001497	-.025239	-.016238	-.031669	.019072
49	.040783	-.005366	-.015224	-.013638	-.027153	.021663
50	.040098	-.002042	-.004370	-.008669	-.027147	.021980
51	.035157	.004660	-.001796	-.005936	-.021395	.011909
52	.031311	.018366	-.006992	-.009676	-.007480	-.001067
53	.019800	.034070	-.019480	-.024459	.004941	-.001785
54	.012379	.047204	-.026924	-.035848	.016513	.003599
55	.011212	.048501	-.026759	-.034984	.021590	-.006510
56	.010585	.040998	-.027342	-.024790	.023142	-.016409
57	.003580	.035750	-.025832	-.022258	.023435	-.023321
58	-.002032	.037509	-.023505	-.012521	.022893	-.029671
59	-.007534	.034467	-.022889	-.004743	.017422	-.027359
60	-.001116	.021291	-.023265	.007702	.011038	-.016312

61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11935	0.83822	0.51308	0.17040
	10E 00	10E-01	10E-01	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.842376	.741154	.667206	.845662
2	.644370	.442408	.330985	.648187
3	.489103	.256250	.159084	.483169
4	.362948	.141252	.063862	.349527
5	.257276	.061871	-.000331	.242744
6	.164421	.010281	-.045623	.164875
7	.084236	-.025511	-.079224	.110442
8	.017517	-.065485	-.111508	.074303
9	-.025337	-.108454	-.116157	.041427
10	-.055864	-.123411	-.114000	.003849
11	-.074935	-.121242	-.094214	-.041168
12	-.095122	-.116980	-.071475	-.080062
13	-.121708	-.116562	-.059598	-.114328
14	-.144582	-.130050	-.047195	-.146367
15	-.167086	-.137192	-.038611	-.174539
16	-.192223	-.136664	-.043144	-.197474
17	-.217131	-.147587	-.067040	-.216228
18	-.231621	-.148668	-.081653	-.232057
19	-.239542	-.148070	-.100107	-.239078
20	-.250305	-.150106	-.108546	-.237958
21	-.261574	-.151031	-.109518	-.243391
22	-.269580	-.141884	-.109420	-.255910
23	-.277839	-.125125	-.111427	-.273702
24	-.285009	-.119034	-.104693	-.284492
25	-.286877	-.114506	-.089820	-.289976
26	-.283713	-.115902	-.090044	-.289308
27	-.267629	-.111289	-.102003	-.279280
28	-.227048	-.106351	-.084410	-.258745
29	-.179019	-.091338	-.060829	-.223466
30	-.128499	-.061653	-.024703	-.181473
31	-.085680	-.024338	.004049	-.134012
32	-.054117	.005187	.011914	-.090602
33	-.023711	.017124	.018518	-.045371
34	-.004644	.018875	.010957	-.010037
35	.010524	.021098	.001687	.011956
36	.019301	.028959	-.002607	.017102
37	.020739	.036393	.002325	.022376
38	.016205	.053507	.015324	.030649
39	.018485	.070894	.019855	.040451
40	.027059	.088437	.004377	.050524
41	.041181	.096654	.000402	.058871
42	.060547	.091399	.020960	.060487
43	.076173	.085400	.017509	.057989
44	.085772	.076062	.016252	.063979
45	.093084	.057577	.010419	.080167
46	.097749	.039938	.022129	.087510
47	.105249	.025955	.036619	.079066
48	.116093	.024528	.041732	.071542
49	.114613	.024945	.036784	.061651
50	.096366	.018024	.027769	.052191
51	.071092	.009828	.012289	.051061
52	.044594	.013921	-.010303	.046829
53	.027228	.013680	-.016905	.042792
54	.016616	.009043	-.005308	.047314
55	.002831	-.004447	.023326	.045945
56	-.010480	-.007978	.051973	.037367
57	-.019786	-.010186	.046142	.022558
58	-.018374	-.012419	.016462	.002790
59	-.012174	-.014686	-.001699	-.010988
60	-.011537	-.022428	-.004181	-.015887

RUN NC   96C   91M   6-19-63   1921-2037(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-02	10E-02	10E-03	10E-04	10E-03
0	.031202	-.016457	.006131	-.007292	.006499	-.019123
1	.039379	-.302707	.086048	-.302529	-.577382	-.291088
2	-.445519	-.503695	.124659	-.129499	-.400049	-.419382
3	-.971227	-.573284	.128304	.252909	-.148032	-.453658
4	-.793443	-.357815	.070795	.274917	-.406157	-.326223
5	-.411582	-.246196	.038445	.144265	-.355060	-.237643
6	-.110536	-.255850	.036520	-.092879	-.364816	-.183152
7-8	-.014314	-.256019	.029596	-.393959	-.265632	-.165803
9-11	-.174611	-.129676	.011775	-.209598	.321353	-.096257
12-15	.125858	-.073814	.003106	-.306420	.319799	-.042820
16-20	-.100471	-.049281	-.000028	-.012057	-.068221	-.017129
21-27	-.042157	-.022882	-.000867	-.050452	.083422	-.006394
28-36	.003174	-.015252	-.000729	-.013895	.016050	.002011
37-47	.000259	-.007350	-.000255	.000678	.014207	.005067
48-60	-.004600	-.003296	-.000280	.000663	.014900	.001977

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-03	10E-03	10E-03	10E-03
1	.048454	-.154458	.580449	.315929	.008161	-.092179
2	.154415	.211801	.751544	.124558	-.060933	-.119043
3	.167926	.379840	.731814	-.424665	-.149117	-.117406
4	-.026732	-.108321	.458235	-.684069	-.079733	-.092178
5	-.123563	-.322589	.294323	-.507813	.043855	-.105753
6	-.089638	.243573	.214365	-.500942	.119559	-.166314
7-8	-.030184	.456203	.187970	-.558167	.106508	-.178473
9-11	.026658	.146556	.183733	-.029113	.016593	-.118886
12-15	.006137	-.068712	.098598	.092157	.036557	-.069807
16-20	.001914	-.103982	.045827	.038079	.006840	-.042828
21-27	-.003694	-.018573	.023173	.012609	.007863	-.034420
28-36	-.004355	.002705	.009976	-.032134	.001164	-.012648
37-47	-.000916	-.010584	.006468	.011841	.002012	-.006757
48-60	-.000727	-.001683	.000376	.009905	.000029	-.002395

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-03
0	.007413	.025165	.015309	.013856
1	.117324	.367818	.203336	.186965
2	.185177	.695830	.321574	.276208
3	.206595	.957820	.407440	.294358
4	.125489	.739161	.334815	.167446
5	.072750	.551922	.274116	.093318
6	.069347	.542817	.297000	.096058
7-8	.065561	.454232	.325329	.078901
9-11	.034982	.327017	.212662	.054289
12-15	.017261	.211850	.135668	.033619
16-20	.012957	.168770	.115689	.016552
21-27	.008354	.096392	.081230	.010637
28-36	.004936	.068795	.055538	.006826
37-47	.003281	.038821	.035202	.004360
48-60	.002078	.023620	.021519	.002976

RUN NO   96C   91M   6-19-63   1921-2037(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.58043	0.39939	0.10723	0.27234	0.73119	0.50313
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
0	-.052480	-.580634	.543367	-.033659	.027296	-.422338
1	.026160	-.131204	.230005	-.011415	.032241	-.103826
2	.011537	.036589	.023507	-.003691	.056082	-.006619
3	-.027366	.050484	-.031641	.030178	.059967	.001322
4	.021230	-.001948	-.008725	.012505	.046932	.044640
5	-.004501	-.010793	.009652	-.027644	.042578	-.000636
6	-.000508	.061819	-.024464	-.025747	-.031161	.041268
7	.026304	.025249	-.026884	-.020014	-.021568	.055218
8	.056265	.036393	-.046958	.025802	.018183	.006462
9	.034650	.024588	-.006425	.021995	-.013869	.039191
10	-.047508	.104167	-.075025	.050673	-.080755	.055244
11	-.007446	.112190	-.085434	.032711	-.072947	.090217
12	.077848	.088615	-.064318	.000519	-.012855	.045817
13	-.020979	.017970	-.040888	-.017899	-.014709	-.017589
14	-.041163	.088539	-.104853	-.009519	-.006567	.064593
15	-.011281	.071637	-.109379	-.026861	.002866	.024392
16	-.005747	-.030873	-.068951	-.017423	.018547	-.016007
17	-.030994	-.085080	-.024105	-.024655	-.026262	.017773
18	-.032513	-.025458	-.004884	-.035594	-.046724	-.015959
19	-.050529	-.016978	-.022726	.017803	-.086913	-.021400
20	-.103141	-.012967	.000970	.039691	-.109692	.029346
21	-.013726	-.037606	-.027877	.037767	-.029867	.002938
22	-.013430	-.080712	.023798	.088417	-.032606	-.008725
23	.037470	-.070952	.078567	-.022903	-.010643	-.083309
24	.012647	.016831	.037552	-.012574	-.061537	.014781
25	-.015268	.003929	.046897	-.000606	-.032251	-.000403
26	.019962	.025185	-.007165	-.035263	.049258	-.009121
27	.048989	.020040	.008144	-.001611	.057577	-.021403
28	.025829	.031378	.024510	-.002700	.062550	-.004542
29	.045848	-.014245	.050555	-.026043	.086076	-.000820
30	.045132	-.030460	.100826	-.019082	.112968	-.059096

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-02	10E-03	10E-03	10E-03	10E-03
0	.004274	-.000039	.026880	.014319	-.004320	.000076
1	.494196	-.055448	.407672	-.019938	.146325	-.070075
2	.221074	-.136426	.553325	-.041834	.153087	-.135303
3	-.488439	-.192325	.510240	-.116993	.095601	-.173720
4	-.370079	-.116181	.303715	-.175244	.081787	-.136330
5	.045437	-.061990	.302932	.112434	.001263	-.101372
6	-.049895	-.091290	.354826	.254791	-.085959	-.096205
7	.132562	-.127464	.352563	-.034175	-.033597	-.112957
8	.266871	-.128526	.314341	-.178064	.018976	-.117433
9-11	.019241	-.113085	.318479	-.234628	-.049651	-.090206
12-14	-.247864	-.129734	.291209	-.030075	.005739	-.095488
15-21	-.192997	-.081956	.149264	.035316	-.009189	-.067077
22-30	-.336882	-.086356	.119492	-.046159	.011159	-.087240

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RUN NC   96C   91M   6-19-63   1921-2037(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.58043	0.39939	0.10723	0.27234	0.73119	0.50313
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.042060	-.002146	.185618	.041464	-.050651	-.057762
2	.038472	-.035097	.155941	.073179	.025657	-.060455
3	-.025115	-.073716	.103520	.042040	-.001388	-.021061
4	-.021595	-.042567	.053030	.004108	-.014431	-.009669
5	-.005930	-.029577	.030968	-.019878	-.021890	.015382
6	.025103	-.015018	.005964	.046541	.018876	.018548
7	-.007496	-.038165	.067001	.044323	-.038237	-.007536
8	.008047	-.037995	.073623	.006066	-.010147	-.002002
9	-.031663	.011591	.056490	-.049593	.020693	-.051527
10	.003992	.028007	.029033	-.006286	.013894	-.033764
11	-.015855	.004878	.042206	-.011251	-.027638	-.034640
12	-.022098	.022157	.008616	-.032003	.059315	.004206
13	.007377	-.016692	-.013121	.028770	.038864	.044576
14	.017204	-.003879	-.007837	-.008483	.053675	.061831
15	.000330	.089845	-.023602	-.017077	.025797	.024602
16	.058052	.066578	-.067779	.044554	-.023510	.020288
17	.076677	.026789	-.072037	-.000490	-.020970	.017259
18	.066980	.039011	-.015230	.047579	-.051436	-.047150
19	.002798	.023344	-.011660	.041232	.021801	-.039015
20	-.050536	.001365	-.017780	-.065570	-.024399	-.001423
21	-.046843	-.070569	.019030	.021857	-.038976	.018743
22	-.071971	-.072724	.002440	-.040638	.004302	.031729
23	.064615	-.069571	-.008859	.075417	-.037987	-.009817
24	.000768	.025760	-.047965	.017714	.000830	.010830
25	-.061759	.013892	.014361	-.056975	-.013189	-.048146
26	-.011405	-.036191	.032262	.007212	-.016645	.005021
27	.014118	-.008056	-.052240	-.024090	.024165	.047777
28	.012507	.006784	-.074426	-.042555	-.009950	.048878
29	-.036481	.016831	-.016696	-.052408	.022319	-.006501
30	-.054322	-.003187	.025364	-.115365	.068565	-.024292

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-03	10E-04	10E-04
1	.215619	-.018899	.234220	.165985	.218915	-.132852
2	-.106446	-.389171	.327691	.118087	.115328	-.293188
3	-.268366	-.832638	.340750	.219675	-.515738	-.427469
4	.299731	-.461631	.182744	.364749	-.617202	-.191882
5	.421982	-.117618	.121077	.291363	.148503	.146835
6	-.237796	-.350508	.222891	.100044	.405934	-.153122
7	-.116076	-.125403	.279299	.050837	-.012994	-.903723
8	.444133	.155502	.250724	.156522	-.333781	-.928297
9-11	.378720	-.149315	.226741	.299061	.020354	-.231669
12-14	.458489	.294996	.091252	.111635	-.186746	-.215599
15-21	.039555	.095752	.075873	-.064161	-.501467	-.103710
22-30	-.165297	-.087960	.036336	-.066783	-.387240	.042984

7

RUN NC   96C   91M   6-19-63   1921-2037(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.85122	0.39579	0.18739	0.13508
	10E-01	10E-01	10E-01	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.302176	.165308	.065731	.403006
2	-.044642	.000487	-.011211	.058759
3	-.079300	.058114	-.020680	-.035373
4	-.029148	.020698	-.077315	-.005671
5	-.001315	-.032984	-.030259	-.023789
6	-.057326	-.096100	-.167054	-.078503
7	-.048735	-.098173	-.057452	-.062763
8	-.070273	-.063140	-.041512	-.073137
9	-.054885	-.129506	-.026068	-.105260
10	-.117061	-.071514	-.094308	-.140217
11	-.137779	-.102392	-.100758	-.089182
12	-.169535	-.112259	-.069548	-.030769
13	-.063806	.027139	-.009104	-.025850
14	-.139613	-.050706	-.057681	-.162054
15	-.134545	-.007096	-.129608	-.148528
16	-.039799	.080626	.101508	-.091567
17	.068228	.064520	.068404	-.053871
18	.056648	-.053559	.052181	.004129
19	.012752	.009111	.066944	-.052435
20	.076355	.000521	.004109	-.081026
21	.058151	.008851	.062745	-.083319
22	.108115	-.068411	.031720	-.076271
23	.084024	-.050642	.085774	.015949
24	.026312	.005000	-.053625	.024882
25	.025829	-.025250	-.026230	.075197
26	-.050363	-.046290	-.044971	.025010
27	-.052717	-.055850	-.033796	.070871
28	-.029339	-.023447	-.057941	.122358
29	.037469	.019047	-.011125	.145583
30	.030853	.015359	.013844	.184901

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-02	10E-03
0	.019424	.025590	.001038	.006650
1	.313011	.178738	.026764	.095364
2	.571708	.213294	.068301	.115977
3	.702893	.292922	.115838	.111118
4	.413694	.275611	.097077	.093114
5	.309996	.174233	.074476	.085015
6	.447237	.129740	.089821	.077814
7	.501742	.148207	.094809	.071802
8	.467841	.148326	.077749	.060263
9-11	.453713	.130460	.063246	.073540
12-14	.451301	.167760	.078771	.054351
15-21	.282131	.170694	.074561	.038765
22-30	.249758	.179032	.109352	.032259

```
RUN NO    96C    46M    6-19-63    1921-2037(EST)
RUN NO    96C    91M    6-19-63    1921-2037(EST)
   61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.526100	.400787	.237211	.236741
1	.191472	.208882	.297205	.242639
2	.014932	.164976	.280666	.221539
3	.040600	.236299	.257039	-221080
4	.054373	.187683	.236128	.207186
5	.059354	.081009	.174739	.114852
6	.031638	.137134	.129408	.089590
7-8	.093970	.085031	.113481	.051577
9-11	.126279	.071005	.141959	.074401
12-15	.144844	.060296	.097534	.080537
16-20	.089260	.063139	.065703	.064980
21-27	.100303	.092476	.105774	.079847
28-36	.100090	.074450	.085957	.081441
37-47	.123466	.079142	.082017	.150595
48-60	.089073	.091758	.104700	.093001

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.635322	.830168	.028341	.691440
1	.728442	.456611	.036918	.711126
2	.548997	.333095	.263090	.573247
3	.333403	.365764	.362482	.301276
4	.241556	.390097	.257865	.144515
5	.365299	.354266	.212774	.346615
6	.568283	.516301	.427607	.389656
7	.489536	.577506	.297528	.275066
8	.399152	.396238	.085412	.159878
9-11	.158/25	.171725	.216678	.278044
12-14	.187405	.277369	.394110	.212556
15-21	.231748	.362868	.257987	.308468
22-30	.251257	.195725	.283046	.138714

GROSS STATISTICS

3 CU	WIND SPEED	6.49 M/SEC	SIGMA A 12.4 DEG
UNSTABLE	WIND DIRECTION 285 DEG		SIGMA E 7.3 DEG
	SOLAR RAD. 1.00 LY/MIN		

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AV;
VARIANCES				
U	0.30508E 01	0.23195E 01	0.16087E 01	0.16135E 01
V	0.17711E 01	0.14551E 01	0.10827E 01	0.85054E 00
W	0.53866E 00	0.52529E 00	0.50654E 00	0.18290E-00
T	0.22939E-00	0.49149E-01	0.17919E-01	0.41795E-01
E	0.26803E 01	0.21504E 01	0.15991E 01	
GUSTINESS RATIOS				
U	0.26913	0.23467	0.19543	0.19572
V	0.20506	0.18587	0.16033	0.14210
W	0.11309	0.11167	0.10967	0.06590
COVARIANCES				
U,V	-0.13107E-00	-0.11664E-00	0.13535E-01	-0.11609E-00
U,W	-0.53250E 00	-0.50979E 00	-0.43244E-00	-0.34758E-00
U,T	-0.50425E 00	-0.21893E-00	-0.10041E-00	-0.18165E-00
V,W	-0.18780E-01	-0.44811E-01	-0.17758E-01	-0.20652E-01
V,T	-0.40541E-01	0.51310E-01	0.27466E-01	0.37014E-01
W,T	0.38458E-01	0.29991E-01	0.18990E-01	0.26673E-01
WE	0.11411E-01	0.54031E-01	0.12367E-00	
NORMALIZED COVARIANCES				
U,V	-0.05639	-0.06349	0.01026	-0.09909
U,W	-0.41539	-0.46184	-0.47899	-0.63981
U,T	-0.60278	-0.64840	-0.59139	-0.69951
V,W	-0.01923	-0.05126	-0.02398	-0.05236
V,T	-0.06160	0.19186	0.19719	0.19632
W,T	0.10541	0.18665	0.19931	0.30507

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13200	0.90287	0.16980	0.74074	0.13930	0.95287
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
0	.010327	-.478898	-.591341	-.024055	.197367	.199279
1	.009145	-.423831	-.536237	-.012367	.156536	.214287
2	.005706	-.338644	-.457686	-.001917	.110106	.199357
3	.002542	-.273660	-.383975	.003405	.073577	.171810
4	-.005486	-.223014	-.319325	.016013	.054940	.151805
5	-.012668	-.174213	-.258272	.026393	.050399	.127462
6	-.018825	-.124408	-.203297	.029452	.050166	.101525
7	-.019482	-.094341	-.154194	.041284	.042900	.080825
8	-.022789	-.070977	-.116007	.043823	.035042	.064482
9	-.024658	-.046441	-.080288	.032119	.024354	.049212
10	-.026139	-.015903	-.041059	.024934	.017670	.031816
11	-.030472	.007294	.001452	.021343	.014336	.014791
12	-.034949	.030570	.037787	.012097	.014028	-.004645
13	-.026971	.050710	.067525	.003873	.009703	-.018177
14	-.025605	.074055	.095168	-.002717	.004326	-.032214
15	-.021362	.103819	.123424	-.012615	-.002385	-.049355
16	-.017169	.129836	.147725	-.019666	-.008559	-.062687
17	-.015369	.148206	.165263	-.024508	-.009395	-.069459
18	-.013970	.159680	.175744	-.023235	-.011709	-.075274
19	-.014873	.167793	.189206	-.013024	-.014932	-.082800
20	-.013803	.179916	.200199	-.001199	-.021405	-.094642
21	-.012202	.181163	.207768	.009491	-.028006	-.104752
22	-.009350	.178297	.210564	.005097	-.030886	-.112049
23	-.011379	.179114	.200640	.005226	-.033769	-.112678
24	-.016221	.174764	.191746	.007226	-.035725	-.109925
25	-.015329	.174655	.182114	.005165	-.035181	-.109698
26	-.010911	.171862	.167902	.006457	-.034947	-.107855
27	-.006876	.159911	.153618	.005900	-.038765	-.101269
28	-.005159	.146403	.137787	.005504	-.038876	-.097291
29	-.001456	.133926	.119651	-.004287	-.040003	-.097006
30	.005535	.111216	.096360	-.012785	-.032973	-.092909
31	.008476	.076069	.073121	-.012664	-.025348	-.070932
32	.019182	.043988	.053740	-.020336	-.020521	-.061244
33	.024315	.019332	.032457	-.025557	-.021405	-.051010
34	.025024	.006451	.016674	-.028929	-.022738	-.043688
35	.026035	-.007425	.004893	-.025709	-.020971	-.034410
36	.034801	-.019896	.002652	-.032777	-.025716	-.030534
37	.046194	-.029513	.004882	-.035288	-.033133	-.023616
38	.058330	-.044068	.004520	-.024218	-.038833	-.006481
39	.063664	-.063115	-.002617	-.012154	-.045091	.015166
40	.064458	-.074007	-.011555	-.010039	-.044863	.031002
41	.060327	-.084164	-.022327	-.006881	-.039448	.044949
42	.056239	-.082519	-.029886	-.007921	-.035224	.045565
43	.051761	-.081873	-.036652	-.009673	-.036654	.047817
44	.047785	-.082448	-.040472	-.009210	-.037581	.053808
45	.042392	-.078203	-.037691	-.012285	-.037903	.053257
46	.036199	-.067502	-.028127	-.020296	-.038876	.053064
47	.027966	-.057349	-.019155	-.020686	-.037403	.053459
48	.019562	-.043615	-.010226	-.014850	-.031645	.048693
49	.006163	-.037227	-.008347	-.011544	-.023185	.045492
50	-.004467	-.041085	-.009060	-.011108	-.004344	.050935
51	-.012751	-.039488	-.004960	-.013602	.011655	.051918
52	-.017202	-.035626	-.002134	-.000729	.019774	.051872
53	-.018562	-.030994	-.003532	.010504	.027682	.040850
54	-.021813	-.029520	-.001149	.015453	.038189	.038398
55	-.024516	-.024435	.001113	.015568	.040722	.032961
56	-.024116	-.016687	-.000276	.008241	.038724	.020672
57	-.016955	-.002600	.003194	.003167	.036729	.011073
58	-.012518	.015704	.007371	-.000363	.035946	.005923
59	-.016595	.028900	.007421	-.002016	.035942	-.005277
60	-.024014	.035399	.006365	.007315	.034805	-.009740

RUN NO 97 15M 7-3-63 1446-1600(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13200	0.90287	0.16980	0.74074	0.13930	0.95287
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
1	.019222	-.040163	-.048763	.018459	.013385	.003444
2	.026437	-.055742	-.082487	.036150	.019523	.012753
3	.031862	-.051924	-.105954	.039635	.025317	.018283
4	.044633	-.037182	-.123390	.046562	.029100	.027013
5	.057756	-.019166	-.132970	.055992	.031020	.039264
6	.062061	-.000378	-.143873	.063469	.033414	.057132
7	.066378	.005503	-.153422	.050228	.044110	.075861
8	.072272	.013947	-.159424	.037153	.053955	.084576
9	.074277	.019655	-.159777	.030859	.053901	.088607
10	.078321	.022989	-.154470	.028123	.054784	.085895
11	.079714	.018829	-.151647	.018873	.053111	.083554
12	.074146	.017533	-.148007	.014537	.046334	.075359
13	.063253	.012655	-.142184	.016875	.041641	.072192
14	.055188	.008043	-.132132	.012362	.039730	.073817
15	.046312	.004535	-.123289	.009947	.039317	.071233
16	.034098	.001433	-.111161	.013815	.034555	.060897
17	.025776	-.001076	-.092297	.017092	.038785	.046393
18	.022349	-.004649	-.078194	.018467	.044924	.032827
19	.018138	-.002402	-.068133	.023605	.046197	.026646
20	.015107	-.008654	-.051019	.028825	.040392	.018380
21	.009484	-.009725	-.030270	.030822	.034785	.004056
22	.003800	-.012811	-.014206	.019301	.035484	.002202
23	-.000548	-.011702	-.002252	-.004619	.036829	.001519
24	-.004352	-.015224	.011729	-.025297	.032178	-.007312
25	-.009894	-.022702	.024900	-.041169	.019343	-.019818
26	-.015763	-.025191	.034290	-.044001	.005338	-.030645
27	-.015020	-.016051	.037462	-.037657	.001493	-.031161
28	-.011560	-.007178	.035045	-.033355	.006239	-.019265
29	-.018594	-.007702	.032768	-.041849	.006046	-.017406
30	-.024660	-.012828	.035180	-.047051	.002287	-.021830
31	-.025247	-.021165	.041568	-.038505	.002757	-.038826
32	-.023947	-.024706	.045681	-.033101	.000008	-.050446
33	-.021036	-.029138	.041200	-.024259	-.002411	-.047085
34	-.016885	-.027655	.035109	-.016011	-.002154	-.041684
35	-.016694	-.012613	.028482	-.008521	-.002194	-.036376
36	-.020211	.002676	.022960	-.001928	-.003363	-.035896
37	-.021940	.004628	.019904	-.003015	-.008139	-.027704
38	-.025631	.005227	.017132	.001019	-.019459	-.020038
39	-.029399	.014336	.015538	.009828	-.031854	-.010704
40	-.025367	.026540	.009173	.002129	-.037772	.004061
41	-.015630	.028188	.006075	-.004039	-.036435	.009107
42	-.004678	.025357	.006939	.002027	-.030064	.008990
43	.004380	.026463	.008393	.003738	-.022228	.013138
44	.012040	.024884	.005971	.002365	-.013898	.015464
45	.013620	.018051	.000979	-.009528	-.012910	.014665
46	.011518	.001358	-.007094	-.015977	-.009632	.010789
47	.007481	-.006055	-.011996	-.014513	-.005414	.013105
48	.004810	-.002593	-.016229	.000448	-.006926	.015308
49	.011969	-.000862	-.012280	.009019	-.008805	.014863
50	.019698	-.006039	-.006155	.013404	-.003293	.010676
51	.024634	.001380	-.001790	.026103	.001536	.012144
52	.027732	.003976	.003467	.036215	.010253	.015861
53	.025333	.001821	.011169	.033228	.022128	.013286
54	.023092	.005918	.013032	.031047	.035067	.007846
55	.021293	.009672	.013742	.043417	.037260	.010235
56	.018778	.001339	.014762	.053101	.038813	.010404
57	.010373	-.002036	.016406	-.033992	.036414	.008238
58	.007643	.002487	.020247	.016542	.032121	.003093
59	.010689	.002119	.023748	.008155	.029580	.000867
60	.014879	.004358	.024182	.003561	.027920	.002424

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RUN NO 97 15M 7-3-63 1446-1600(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16089 10E 01	0.10829 10E 01	0.50568 10E 00	0.17920 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.845926	.781639	.635448	.843537
2	.657965	.526450	.323179	.672391
3	.522198	.349007	.184772	.544970
4	.420850	.231165	.120898	.445825
5	.329418	.149313	.064282	.367961
6	.246054	.095029	.025389	.301714
7	.177987	.063029	-.002616	.237713
8	.121585	.031510	-.022262	.179080
9	.072009	-.003744	-.031549	.115255
10	.023366	-.042246	-.053859	.053383
11	-.027981	-.079056	-.067180	.001361
12	-.081881	-.095054	-.078500	-.037702
13	-.125143	-.102741	-.087089	-.074610
14	-.166320	-.111432	-.088857	-.114391
15	-.209241	-.120102	-.086382	-.152232
16	-.243684	-.125586	-.092561	-.194547
17	-.260028	-.125042	-.095535	-.225662
18	-.272399	-.133027	-.114070	-.246856
19	-.292683	-.157336	-.119254	-.269607
20	-.310940	-.180290	-.131678	-.291275
21	-.316580	-.186997	-.139094	-.304803
22	-.309818	-.176932	-.139965	-.303108
23	-.296561	-.175671	-.144239	-.287985
24	-.285025	-.170825	-.155388	-.270956
25	-.275155	-.164422	-.172832	-.247486
26	-.261057	-.159618	-.178045	-.217624
27	-.232986	-.165403	-.157583	-.197273
28	-.198994	-.160884	-.138941	-.181882
29	-.170033	-.147104	-.131454	-.164907
30	-.134410	-.112064	-.106661	-.132379
31	-.094418	-.067209	-.063165	-.098115
32	-.056252	-.038155	-.012532	-.066845
33	-.022673	-.017235	.004394	-.045299
34	-.000089	-.005788	.008705	-.028786
35	.014253	.002805	.014905	-.015898
36	.019986	.003242	.030774	-.008579
37	.024286	-.000523	.049345	-.010661
38	.029453	-.006951	.063555	-.008417
39	.044195	-.011295	.076244	-.005296
40	.055340	-.003050	.078961	.004212
41	.066526	-.005069	.067372	.016347
42	.075956	-.013889	.046811	.021847
43	.083989	-.012294	.043354	.028577
44	.087292	-.005930	.038206	.030886
45	.077169	.003075	.049658	.026825
46	.054367	.014453	.054194	.012157
47	.037329	.025665	.059128	-.003170
48	.019894	.035323	.057703	-.014640
49	.006043	.037874	.069845	-.015545
50	.000876	.038840	.061169	-.016216
51	-.004846	.023846	.047078	-.012184
52	-.006286	.018567	.043988	-.011800
53	-.001855	.015824	.052927	-.010279
54	.000982	.012821	.049465	-.014022
55	.001365	.011078	.042507	-.023557
56	-.001086	.019734	.036911	-.020853
57	-.012559	.027963	.003393	-.013677
58	-.022966	.032106	-.021289	-.011053
59	-.019398	.034871	-.034437	-.013410
60	-.012997	.021851	-.032569	-.012642

RUN NC   97   15M   7-3-63   1446-1600(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.036372	-.038126	-.020914	.078212	.076851	.032251
1	-.227708	-.526308	-.168966	.760999	.529347	.418123
2	-.058957	-.859002	-.207698	.506324	.435094	.599812
3	.119901	-.951089	-.215392	.080124	.287842	.547895
4	.059897	-.474263	-.126238	.026279	.182525	.213526
5	.025742	-.189157	-.056128	-.034364	.111619	.091292
6	.079911	-.190367	-.037928	-.472846	.097922	.082543
7-8	.031721	-.157971	-.032961	-.690550	.114311	.051642
9-11	.001808	-.121670	-.020044	-.126412	.076716	.025365
12-15	.008260	-.057972	-.011904	-.057669	.063867	.012281
16-20	-.003734	-.034641	-.005372	.015333	.057788	-.003752
21-27	-.000169	-.025186	-.004013	-.045271	.023586	-.001113
28-36	.001106	-.015450	-.001996	-.003079	.010773	-.006813
37-47	.000550	-.005091	-.001361	-.044211	.010517	-.008907
48-60	-.000830	-.003213	-.000921	-.007713	.007974	-.005007

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-01	10E-01	10E-02	10E-02
1	.216469	-.395370	-.077230	.017789	.331196	.165799
2	.307385	-.082163	-.013426	.082745	.313627	.250770
3	.353006	.398919	-.160321	.132419	.202633	.297037
4	.205443	.150294	-.060350	.078977	.060869	.144731
5	.093193	-.493051	-.021484	.019279	.043810	.013932
6	.039644	-.526915	-.008880	.034835	.027407	-.007297
7-8	-.010248	-.704999	-.008664	.074640	.025223	-.035247
9-11	-.009001	-.599687	-.005326	.000916	-.022054	-.019562
12-15	.012243	-.338418	-.002664	.004009	.013874	-.014083
16-20	-.003321	-.200547	-.002058	-.001883	.009345	.008654
21-27	.008381	-.048290	-.000700	.005586	.001486	.002356
28-36	.007402	-.037693	-.000263	-.001071	.002779	-.003707
37-47	-.001323	-.004527	-.000346	-.000832	-.000222	-.001121
48-60	.000565	-.013271	.000084	-.001947	.001589	-.000679

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.019991	.010638	.015699	.040240
1	.198566	.100710	.246162	.284366
2	.276342	.128884	.429696	.322411
3	.308258	.138572	.510312	.329077
4	.186230	.096645	.316725	.199151
5	.086867	.064490	.216664	.090194
6	.066975	.060857	.266244	.061680
7-8	.058990	.054541	.241176	.060642
9-11	.040937	.035141	.168596	.039754
12-15	.025940	.027940	.138893	.026655
16-20	.015343	.016996	.103475	.019591
21-27	.012067	.010194	.087564	.011114
28-36	.007088	.006734	.061396	.007384
37-47	.003987	.004073	.039729	.005616
48-60	.002745	.002848	.028460	.003650

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11710	0.54328	0.25972	0.39433	0.18850	0.87455
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
0	-.099137	-.639772	-.699432	-.052377	.196366	.304994
1	-.117964	-.233312	-.490237	-.020089	.140077	.166678
2	-.071213	.056401	-.292284	-.052382	.081470	.020353
3	-.033119	.077845	-.211524	-.032501	.032789	-.015982
4	.017765	-.004314	-.136192	-.055598	-.001107	.013321
5	.004738	.014997	-.058307	-.041256	-.012111	.027298
6	-.015367	.107472	-.000431	.004813	-.008030	-.017824
7	-.003022	.103460	.055983	.077662	-.036342	-.021533
8	.009458	.028541	.076606	.060469	-.043265	.009440
9	-.002346	.014896	.085560	.041585	-.006488	.013761
10	018528	.056218	.111519	.043326	.003193	.004454
11	.004972	.063025	.134924	.025774	.000039	-.033226
12	-.058116	.046377	.149883	.047246	.047246	-.042725
13	-.034661	-.031291	.124064	.028303	.020548	-.015748
14	-.005902	-.018344	.099649	.013385	.019713	-.032534
15	-.018817	-.011571	.117954	.037207	-.003594	-.058809
16	-.005328	-.011466	.136721	.055971	-.024779	-.035684
17	.002723	.003270	.132285	.054758	-.029997	-.039964
18	.011107	.049274	.112858	.019055	-.042204	-.054793
19	.045700	.033639	.126310	-.009603	-.069542	-.086366
20	.108940	.015116	.117482	-.084255	-.075681	-.079415
21	.137149	-.027736	.063010	-.100473	-.070007	-.014217
22	.095448	-.005369	.037149	-.054214	-.060521	-.006985
23	.048408	.042424	.073618	-.022026	-.048779	-.026923
24	.060597	.037986	.085222	-.035057	-.052371	-.028379
25	.096824	.056218	.081930	-.002151	-.071622	-.003582
26	.131798	-.019194	.094235	-.093072	-.069333	.034075
27	.100412	-.008197	.077750	-.043824	-.065534	.012054
28	.075585	.010603	.089704	-.002081	-.080885	.001398
29	.092082	.034563	.059271	-.044138	-.080253	.002283
30	.041177	-.051351	.019408	.006254	-.039422	.037572

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.088203	-.013320	-.052302	.061573	.119016	.038298
1	-.446570	-.131028	-.376645	-.146241	.727177	.340397
2	-.157382	-.164234	-.334882	-.816027	.420586	.291217
3	-.072673	-.232767	-.262485	-.924501	.312956	.174624
4	-.245867	-.268913	-.174729	-.269334	.536558	.145638
5	-.199471	-.235649	-.123847	-.143716	.523140	.182026
6	-.092689	-.186127	-.086848	.045997	.272912	.169641
7	-.105710	-.177957	-.066356	.562426	.132867	.176235
8	-.083222	-.204970	-.066458	.429483	.129452	.172260
9-11	-.065374	-.162465	-.043010	.061753	.145928	.127078
12-14	.031474	-.242149	-.047142	-.249277	.072313	.172100
15-21	.014706	-.107732	-.027032	.056572	.036915	.040839
22-30	.034585	-.073743	-.013327	-.155111	.018476	.031795

RUN NO   97   15M   7-3-63   1446-1600(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11710	0.54328	0.25972	0.39430	0.18850	0.87455
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
1	.072318	-.013102	-.152251	.035604	.066494	.091374
2	.056020	-.014934	-.158013	.028799	.077793	.063752
3	.070181	-.014176	-.156633	.011409	.087475	.048665
4	.058730	.022033	-.162527	.042027	.082344	.042758
5	.051240	.012906	-.136645	.066509	.070673	.033373
6	.019586	-.001158	-.128944	.045974	.045527	.004911
7	-.010145	-.018051	-.111166	.017835	.018191	-.027240
8	.009162	-.027862	-.094806	.000110	.022030	-.021208
9	-.001441	-.022383	-.113865	-.035406	.031953	-.006378
10	-.002734	-.026360	-.103002	-.029022	.040389	-.005577
11	.024117	-.020732	-.059249	.035771	.031459	-.041360
12	.013864	-.019380	-.031594	.039372	.034308	-.028471
13	-.014427	-.021578	-.010481	.056341	.034439	-.019304
14	-.010497	-.018085	-.016559	-.008535	.042465	-.007647
15	-.009127	-.026644	-.040509	-.034064	.052279	-.011767
16	.012875	-.064266	-.041331	-.029065	.067449	-.041801
17	.070383	-.039463	-.026173	-.014172	.073603	-.012520
18	.079156	.008855	-.027592	-.032303	.075893	.015409
19	.023270	.031138	-.051809	-.033234	.072822	.032207
20	.032369	.028021	-.042037	-.010913	.086785	.017703
21	.020176	.039402	-.029590	-.018607	.075675	.019957
22	.026682	.035660	-.044289	.003614	.065050	.049316
23	.024818	.020608	-.042275	.003018	.054826	.043582
24	.062432	.011661	-.024902	.026460	.057469	.032269
25	.038212	.016536	-.021767	.007436	.026131	.030959
26	.048132	-.007415	.015038	.029731	.012625	.002749
27	.023487	-.005913	.051660	.016603	-.021949	-.004666
28	-.000761	-.000698	.066259	.067384	-.056408	-.022767
29	-.045275	-.006178	.111996	.032233	-.098510	-.054780
30	-.112313	.008411	.123197	-.056264	-.145123	-.040137

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-01	10E-02	10E-02	10E-02
1	.238919	-.761246	-.205620	.312829	.973270	-.019438
2	.097513	-.400287	-.145917	.486068	.339294	.009261
3	.159838	.240836	-.125601	.484493	.266547	.127874
4	.225370	.258328	-.092449	.245150	.409956	.159611
5	.163914	-.092485	-.050528	.377025	.306986	.114871
6	.115026	.089852	-.039558	.422228	.236890	.118198
7	.145328	.008122	-.043892	.006850	.200598	.100720
8	.113599	-.417404	-.045765	-.402039	.137441	.068592
9-11	.004847	-.226481	-.018119	-.001784	.011926	.040751
12-14	.026513	-.024570	-.021457	.141153	.048969	.052967
15-21	.034990	.057277	-.013702	.099661	.033263	.039181
22-3C	.036010	-.082131	-.002618	.000095	.017949	.014269

RUN NC 97 15M 7-3-63 1446-1600(EST)
301 POINT RUNNING MEAN, 1U POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16134	0.84986	0.18294	0.41808
	10E 01	10E 00	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.506076	.501567	.170207	.777063
2	.166964	.237003	-.131432	.558341
3	.097888	.108877	-.140690	.431168
4	.054533	.002573	-.007471	.299734
5	-.040157	-.028346	.038108	.175644
6	-.074191	-.056153	-.175368	.070587
7	-.100598	-.127308	-.148902	-.033433
8	-.103812	-.090132	.011047	-.080342
9	-.083384	-.110390	.000862	-.129436
10	-.119232	-.122732	-.083325	-.204489
11	-.151389	-.164565	-.107091	-.235176
12	-.160068	-.199104	-.018709	-.248698
13	-.060986	-.222888	.041665	-.252415
14	.014433	-.158085	-.009187	-.231975
15	-.011658	-.113512	.022963	-.237546
16	-.041056	-.041910	.014942	-.240601
17	-.064491	-.015324	-.005410	-.224681
18	-.089443	-.052477	-.083080	-.193061
19	-.093446	-.110906	-.034154	-.195538
20	-.084713	-.057519	.016688	-.186462
21	-.042787	.005102	.077724	-.134894
22	-.027283	.042970	.056245	-.133874
23	-.085557	.087575	-.031419	-.160537
24	-.105725	.111921	-.044866	-.173374
25	-.109524	.059759	-.042874	-.189221
26	-.117767	.039703	.061296	-.221443
27	-.073478	-.037281	-.009059	-.211736
28	-.086821	-.054992	.056204	-.232417
29	-.051778	-.091678	-.075159	-.202351
30	.015237	-.091917	.027836	-.143030

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.024932	.009044	.001267	.016678
1	.176911	.085011	.031517	.113590
2	.167236	.104943	.056553	.095351
3	.171046	.103863	.087653	.068863
4	.153198	.069247	.098873	.038635
5	.110742	.052995	.094693	.022451
6	.079014	.049538	.080770	.016334
7	.078914	.054239	.076706	.012410
8	.090139	.044757	.094601	.011168
9-11	.053543	.027782	.080176	.007034
12-14	.065299	.025358	.131400	.007033
15-21	.042996	.018759	.065389	.004401
22-30	.025364	.018203	.075987	.00237t

GROSS STATISTICS

3 CU	WIND SPEED	6.49 M/SEC	SIGMA A 12.4 DEG
UNSTABLE	WIND DIRECTION	291 DEG	SIGMA E 5.9 DEG
	SOLAR RAD.	1.00 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.27408E 01	0.16156E 01	0.97431E 00	0.11904E 01
V	0.19640E 01	0.14158E 01	0.90087E 00	0.91771E 00
W	0.61366E 00	0.56288E 00	0.49803E-00	0.25967E-00
T	0.11593E-00	0.20554E-01	0.10264E-01	0.16206E-01
E	0.26593E 01	0.17974E 01	0.11856E 01	
GUSTINESS RATIOS				
U	0.19685	0.15114	0.11737	0.12974
V	0.16664	0.14148	0.11286	0.11391
W	0.09315	0.08921	0.08391	0.06059
COVARIANCES				
U,V	0.17417E-00	-0.58776E-01	-0.28698E-01	-0.51540E-01
U,W	-0.58427E 00	-0.44730E-00	-0.33251E-00	-0.31300E-00
U,T	-0.38739E-00	-0.10000E-00	-0.40058E-01	-0.90452E-01
V,W	-0.95258E-01	-0.84521E-01	-0.38435E-01	-0.59908E-01
V,T	-0.14217E-00	-0.17738E-01	-0.81296E-02	-0.17235E-01
W,T	0.51642E-01	0.25099E-01	0.11439E-01	0.25226E-01
WE	0.32890E-00	0.16721E-00	0.14299E-00	
NORMALIZED COVARIANCES				
U,V	0.07507	-0.03886	-0.03063	-0.04931
U,W	-0.45052	-0.46906	-0.47734	-0.56295
U,T	-0.68724	-0.54877	-0.40058	-0.65122
V,W	-0.08677	-0.09468	-0.05738	-0.12272
V,T	-0.29795	-0.10398	-0.08455	-0.14133
W,T	0.19362	0.23334	0.16000	0.38886

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.93675 10E 00	0.69638 10E 00	0.99983 10E-01	0.66971 10E 00	0.96154 10E-01	0.71481 10E-01
0	-.030626	-.477203	-.400440	-.057397	-.084588	.159930
1	-.031674	-.427711	-.380430	-.047577	-.077224	.168683
2	-.038565	-.348329	-.341315	-.027798	-.066119	.164817
3	-.039962	-.269085	-.301429	-.020445	-.060999	.152935
4	-.035089	-.202408	-.260521	-.020388	-.056843	.145005
5	-.031465	-.152343	-.215948	-.019801	-.049210	.133535
6	-.029271	-.103653	-.171616	-.015388	-.036309	.119219
7	-.027764	-.073852	-.128294	-.009180	-.027752	.093233
8	-.024076	-.056105	-.086347	-.004267	-.017692	.056187
9	-.017439	-.039005	-.055547	.001161	-.012238	.028380
10	-.003688	-.016959	-.034559	.008356	-.008349	.019380
11	.004788	.009337	-.015410	.009267	-.003366	.017853
12	.011732	.035380	.006870	.007512	-.000060	.010945
13	.021069	.065595	.024868	.007565	-.004891	.002048
14	.029641	.085669	.041339	.013644	-.007863	-.012455
15	.036829	.100394	.056142	.018900	-.004619	-.035140
16	.039962	.109998	.072924	.021613	.006240	-.055984
17	.047908	.114076	.091206	.022395	.020336	-.072656
18	.052703	.120768	.106879	.020999	.026161	-.092485
19	.047059	.123745	.120409	.018745	.029380	-.104384
20	.040208	.127219	.132910	.008339	.036995	-.109956
21	.034478	.132501	.150048	.001978	.039418	-.112406
22	.031832	.137827	.171397	-.001847	.037958	-.116152
23	.021353	.136603	.188442	-.000882	.042025	-.118980
24	.013410	.134108	.196518	.009124	.041257	-.120242
25	.007011	.136124	.202097	.016729	.043453	-.120427
26	.003128	.142212	.211221	.017191	.037055	-.116935
27	.005015	.138297	.214122	.011821	.034276	-.105173
28	.008734	.127332	.199338	.008674	.024286	-.092031
29	.01501	.108539	.177647	.013679	.012350	-.084710
30	.014968	.092548	.155679	.014193	.005947	-.078007
31	.007876	.077036	.129588	.009016	.001075	-.067534
32	-.000995	.064770	.097332	.007662	.001033	-.050719
33	-.005984	.053182	.072285	.015643	-.003677	-.031368
34	-.005733	.038382	.047007	.014949	-.005043	-.008587
35	-.002220	.019469	.027833	.003612	.003085	.011288
36	.002600	.006975	.006917	-.020101	.010948	.024568
37	.005038	.002455	-.007562	-.042981	.018052	.029456
38	.004988	-.000322	-.018410	-.061845	.023256	.038120
39	.001036	-.000653	-.031989	-.060919	.017271	.045849
40	-.003641	-.002520	-.040397	-.050204	.026942	.042695
41	-.015936	-.008225	-.045199	-.033445	.026186	.044522
42	-.021253	-.019198	-.048714	-.019832	.025235	.049374
43	-.019165	-.030810	-.049692	-.015083	.016273	.046459
44	-.017908	-.039105	-.047826	-.013302	.004869	.042081
45	-.015107	-.041786	-.049355	-.017389	-.003632	.039959
46	-.013071	-.046371	-.058632	-.018507	-.012129	.042695
47	-.011610	-.051152	-.069683	-.022296	-.022825	.048559
48	-.007659	-.049568	-.077389	-.024637	-.023133	.053038
49	-.003046	-.045110	-.079335	-.019573	-.021345	.050301
50	.000494	-.046267	-.076507	-.013543	-.019359	.043484
51	.004955	-.048759	-.074013	-.003213	-.025587	.034414
52	.009486	-.049154	-.068251	.008189	-.028606	.030060
53	.005340	-.037212	-.059434	.015955	-.022388	.029950
54	-.004399	-.023042	-.052260	.015076	-.019919	.025668
55	-.015073	-.015640	-.048832	.016002	-.017398	.017477
56	-.022098	-.016964	-.049739	.024465	-.014964	.007481
57	-.026256	-.023206	-.046753	.024744	-.006458	.003795
58	-.028093	-.027343	-.041688	.028279	.001638	.002225
59	-.031977	-.028824	-.033068	.041040	.011134	-.003384
60	-.030701	-.027261	-.026714	.041350	.015855	-.009069

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.93675	0.69638	0.99983	0.66971	0.96154	0.71481
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.013000	-.036628	-.036668	-.000924	-.016091	.013475
2	.027628	-.055974	-.068986	.005675	-.016262	.034000
3	.038193	-.063931	-.093339	.008485	-.009097	.052174
4	.042509	-.063177	-.109041	.014141	-.007997	.059896
5	.042194	-.064567	-.118247	.006201	-.003579	.062017
6	.043286	-.071833	-.123934	.003358	-.000387	.062157
7	.049821	-.076095	-.131938	.010383	.006717	.063.10
8	.053819	-.077326	-.138321	.013407	.018199	.065693
9	.057071	-.072930	-.133057	.028189	.028864	.064252
10	.057247	-.066022	-.133986	.037227	.036116	.067379
11	.051911	-.056263	-.140422	.040228	.036404	.067353
12	.044047	-.051660	-.146722	.040013	.037026	.063005
13	.036622	-.051322	-.154574	.029535	.043722	.061903
14	.032932	-.049324	-.157913	.021774	.045121	.062479
15	.028097	-.044610	-.153226	.018897	.040279	.061771
16	.023885	-.035647	-.144658	.016885	.030849	.058139
17	.020315	-.030170	-.138086	.016415	.021454	.054627
18	.022514	-.024742	-.125391	.018777	.017345	.053565
19	.022639	-.017500	-.110546	.023971	.013338	.048051
20	.012259	-.008883	-.098785	.023062	.006752	.037506
21	-.001182	.003187	-.089365	.015328	-.000574	.029542
22	-.013060	.016618	-.077292	.003183	-.004238	.025515
23	-.018416	.023782	-.059644	-.006393	-.007737	.026206
24	-.024073	.029904	-.043326	-.011979	-.004930	.029403
25	-.028600	.030677	-.028596	-.016330	.005027	.032458
26	-.026771	.027130	-.014698	-.011244	.013217	.027285
27	-.023467	.029906	-.005460	-.012180	.011502	.020733
28	-.021461	.036432	.004273	-.023651	.004135	.014598
29	-.023544	.045149	.018581	-.032018	-.003362	.002665
30	-.030661	.052477	.032460	-.037519	-.006958	-.006673
31	-.034232	.059635	.050362	-.040543	-.007742	-.010490
32	-.031537	.058391	.060913	-.034153	-.006535	-.012527
33	-.024871	.056289	.070898	-.028283	-.002865	-.014555
34	-.017616	.047425	.076863	-.022554	-.005571	-.019943
35	-.010420	.032912	.080633	-.017847	-.011116	-.026649
36	-.006360	.026008	.081577	-.015650	-.021583	-.030950
37	-.003553	.025649	.079994	-.017471	-.031043	-.023264
38	-.001400	.024099	.077003	-.020497	-.038544	-.014339
39	-.001982	.019050	.074926	-.021972	-.038610	-.007429
40	-.003108	.011571	.070153	-.023951	-.036618	-.003260
41	-.003838	-.003467	.070712	-.026521	-.032515	-.004024
42	.000128	-.016434	.074068	-.024055	-.018905	-.015397
43	.000033	-.018215	.074193	-.026952	-.001317	-.022995
44	-.001504	-.016749	.072722	-.031325	.002745	-.021103
45	.000271	-.015723	.070621	-.026187	-.004340	-.015264
46	.000096	-.014456	.062077	-.014959	-.014321	-.012736
47	-.006087	-.019206	.048699	.003092	-.023185	-.013850
48	-.012856	-.022891	.036132	.012999	-.035783	-.009961
49	-.015534	-.022044	.021026	.027775	-.039177	-.007516
50	-.010487	-.016267	.007807	.039701	-.033512	-.006475
51	-.005863	-.006832	-.000491	.040177	-.021691	-.009582
52	-.007144	-.000517	-.005063	.035878	-.010373	-.015542
53	-.004703	.002366	-.009469	.032104	-.004021	-.013606
54	.000742	.006003	-.021352	.034852	.001610	-.008431
55	.003216	.005360	-.035375	.036234	.006017	-.005878
56	.004137	.000262	-.039496	.043821	.017585	-.008897
57	.004543	-.005710	-.038198	.051580	.030522	-.010587
58	.007911	-.007857	-.028453	.049906	.043584	-.006642
59	.006683	-.013648	-.022944	.044108	.051927	-.002777
60	-.002341	-.022576	-.017284	.024213	.048944	-.002328

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NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.97405	0.90087	0.49786	0.10263
	10E 00	10E 00	10E 00	1CE-01
0	1.000000	1.000000	1.000000	1.000000
1	.868806	.796961	.739772	.807605
2	.693773	.557438	.439737	.614205
3	.544084	.391158	.250086	.472535
4	.420645	.272787	.137677	.377802
5	.314939	.182389	.066557	.310409
6	.220891	.107318	.016632	.245154
7	.142899	.051126	-.004807	.182173
8	.079440	.006595	-.016899	.122535
9	.030866	-.032421	-.034043	.068986
10	-.013500	-.059866	-.051996	.031019
11	-.055117	-.083781	-.077717	-.003435
12	-.095076	-.097009	-.095787	-.034134
13	-.136721	-.096707	-.107063	-.057961
14	-.171439	-.094760	-.105879	-.083827
15	-.199594	-.115883	-.107980	-.123857
16	-.225797	-.142710	-.114854	-.154465
17	-.239992	-.155588	-.110314	-.174964
18	-.245045	-.165529	-.120764	-.192647
19	-.243871	-.178913	-.128250	-.215136
20	-.243244	-.182230	-.127051	-.251808
21	-.251631	-.180851	-.124682	-.280396
22	-.267577	-.178803	-.125664	-.295446
23	-.279531	-.174589	-.118677	-.302225
24	-.283074	-.177780	-.119873	-.309773
25	-.283525	-.175308	-.128934	-.308011
26	-.283060	-.153916	-.144070	-.298254
27	-.268000	-.123611	-.140139	-.289129
28	-.238639	-.102964	-.130378	-.288138
29	-.204124	-.085543	-.114673	-.276944
30	-.169578	-.067584	-.097571	-.240482
31	-.132703	-.044732	-.058195	-.184811
32	-.096622	-.017334	-.021079	-.135744
33	-.062034	.002232	-.000198	-.103038
34	-.030092	.017280	.002480	-.084289
35	-.004415	.021425	.001187	-.067497
36	.012000	.031271	-.008826	-.042392
37	.018987	.032842	-.008539	-.009673
38	.026629	.016438	-.004680	.016087
39	.036468	.004753	-.009780	.045252
40	.037414	-.001288	-.020599	.068173
41	.039712	-.002694	-.033840	.079847
42	.041824	.000483	-.020290	.073859
43	.042943	.009311	-.000606	.067097
44	.046857	.004416	.006462	.075132
45	.052076	-.014357	.018943	.093120
46	.061182	-.023429	.033134	.104688
47	.063600	-.025479	.046032	.105967
48	.062079	-.033731	.051217	.096589
49	.062490	-.037269	.047019	.099465
50	.066772	-.030798	.049497	.109371
51	.067471	-.019852	.053225	.106924
52	.063306	-.007142	.055230	.091597
53	.053615	-.006126	.037896	.075240
54	.046344	-.005808	.031296	.055183
55	.046790	-.001154	.042195	.037303
56	.051102	.003486	.053718	.031997
57	.052634	.009333	.053904	.028247
58	.048807	.010466	.036040	.025689
59	.042994	.000019	.029065	.024584
60	.045208	-.020310	.022042	.031867

RUN NO 97 46M 7-3-63 1446-1600(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
0	.009858	-.036877	-.007381	-.090060	-.022619	.021461
1	-.030742	-.444114	-.079240	-.172688	-.183818	.261714
2	-.114620	-.616715	-.106532	-.461614	-.203090	.410292
3	-.160792	-.625162	-.096356	-.797744	-.173656	.413500
4	-.107637	-.360650	-.036407	-.370885	-.091738	.140557
5	-.035152	-.212641	-.015144	-.264715	-.021124	.002529
6	.023882	-.179834	-.023649	-.400247	.001229	.026365
7-8	.038780	-.133395	-.017016	.036242	-.057315	.029360
9-11	-.002983	-.098384	-.004860	-.110575	-.006955	.004777
12-15	.002723	-.062485	-.001374	-.026690	.005922	-.023872
16-2C	.004216	-.020405	-.001207	-.117804	-.005554	.009355
21-27	.006061	-.013411	-.000922	-.066045	-.006772	-.001246
28-36	.000386	-.007007	-.000510	-.026327	-.002584	-.002560
37-47	-.001603	-.003619	-.000139	-.005581	-.000565	-.003964
48-6C	-.000824	-.003315	-.000052	.007039	-.000192	-.001440

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
1	.062056	-.042203	-.552229	.062233	.067917	.216504
2	.142752	-.144925	-.694855	.726796	.116350	.212735
3	.198434	-.220203	-.535997	.852614	.080784	.159140
4	.134331	-.131211	-.151401	.153035	.011488	.067615
5	.039221	-.043648	-.042722	-.156768	-.016115	.038421
6	.013361	-.044215	-.049016	-.179642	-.052167	.038477
7-8	.021075	-.031297	-.050963	-.033825	-.066322	.015615
9-11	.000939	-.020647	-.046144	-.083595	-.007053	.018654
12-15	.013629	-.009649	-.005336	.159803	-.005233	.003200
16-2C	.001973	-.012985	-.007042	-.049214	-.004388	-.001108
21-27	-.002564	-.003658	.001310	-.038799	-.010881	-.003341
28-36	-.002266	-.000456	-.001164	-.014646	-.003626	-.002424
37-47	-.000023	-.001253	.001251	.005006	-.001551	-.001181
48-6C	-.000125	-.000422	-.000233	-.017155	.001335	.000202

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.010471	.011639	.027570	.013134
1	.119642	.087472	.331980	.137191
2	.167878	.105737	.465034	.183488
3	.179090	.121767	.518598	.174672
4	.108876	.090786	.392646	.082855
5	.062591	.056446	.300193	.044962
6	.056809	.051061	.286609	.050642
7-8	.042431	.048016	.?7011	.042480
9-11	.025507	.029683	.192843	.024840
12-15	.014404	.017522	.146660	.017208
16-2C	.008467	.013357	.090433	.013330
21-27	.005553	.008542	.062602	.008697
28-36	.003176	.005226	.039400	.004952
37-47	.001966	.003090	.021757	.003756
48-6C	.001405	.002084	.015163	.003017

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10454	0.55603	0.13893	0.48812	0.12196	0.64870
	1OE 01	1OE 00	1OE 00	1OE 00	1OE 00	1OE-01
0	-.049303	-.562913	-.651071	-.122732	-.141319	.388867
1	-.018972	-.271081	-.485314	-.089716	-.123830	.289986
2	.002353	-.062163	-.291388	-.084919	-.079125	.111104
3	-.019464	.013112	-.177038	-.063380	-.070167	.080807
4	-.015304	.031465	-.145410	-.071532	-.037506	.085495
5	-.021505	.008569	-.099004	-.005241	-.017773	.056508
6	-.029205	.025186	-.015777	.054917	.006551	.024922
7	-.011148	.023644	.080687	.068301	.006828	-.021299
8	-.012222	.037526	.148962	.079736	.041404	-.055307
9	-.024022	.004930	.152752	.077434	.043958	-.010134
10	.003617	-.037833	.140086	.083842	.030652	-.001011
11	.030308	.031569	.099658	.016930	.039151	-.057143
12	.015252	.125569	.133349	.001043	.062893	-.128087
13	.000489	.150339	.116360	.003622	.066456	-.130829
14	-.031342	.065808	.097988	.017118	.063149	-.072485
15	-.038471	.060306	.072428	.061534	.074287	-.084942
16	-.070694	.014184	.058286	.108010	.095128	-.088019
17	-.083980	.015223	.050565	.103249	.067648	-.070406
18	-.023496	.001321	.064635	.054124	.014792	-.082004
19	.022684	.024253	.069918	.029228	.003352	-.052879
20	.062769	.033071	.080878	-.040788	-.027311	-.044143
21	.105791	.013401	.080766	-.123247	-.061378	-.023929
22	.160398	.005476	.074064	-.151780	-.118481	.000721
23	.156956	.024744	.079441	-.133574	-.123232	.016816
24	.116515	-.030731	.062167	-.106314	-.107868	.032594
25	.088853	-.026684	.060427	-.040383	-.059795	.002819
26	.095697	-.013653	.095685	-.006012	-.067438	-.051913
27	.040243	.039040	.133529	-.002502	-.043956	-.086481
28	.016203	.008451	.086353	.040557	.000827	-.105078
29	.009869	-.001406	.023760	.031374	.037901	-.060134
30	-.014746	.063838	.022192	.042586	.042880	-.035334

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	1OE-01	1OE-01	1OE-01	1OE-01	1OE-02	1OE-02
0	-.042612	-.040698	-.028264	.001826	-.042992	.074161
1	-.214576	-.288271	-.183905	-.062967	-.323908	.514147
2	-.005517	-.297165	-.166083	-.164743	-.491767	.469285
3	-.000291	-.269067	-.150543	-.170699	-.408834	.335353
4	-.107521	-.181951	-.107646	-.086401	-.088214	.159462
5	.095392	-.174448	-.058046	-.115796	-.140961	.140496
6	.083353	-.239362	-.030207	-.032113	-.133109	.146365
7	-.092193	-.271738	-.023820	.089578	-.014766	.132833
8	-.053021	-.187280	-.022324	.038407	-.018815	.102615
9-11	-.006405	-.134478	-.033022	-.001678	-.033338	.081820
12-14	-.043133	-.135841	-.023253	-.012940	-.019051	.122878
15-21	-.026512	-.067154	-.007717	-.007945	-.020202	.037542
22-30	-.000842	-.060380	-.005358	-.009360	.009294	-.012305

RUN NO   97   46M   7-3-63   1446-1600(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10454	0.55603	0.13893	0.48812	0.12196	0.64870
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
1	.010234	-.071909	-.144275	.010198	.006515	.090089
2	-.019859	-.040644	-.158738	.024271	.007068	.089673
3	-.038522	-.002197	-.108732	-.003941	-.002402	.036950
4	-.007986	-.044268	-.070134	.028313	-.006570	-.020694
5	-.011683	-.058364	-.078762	.067707	-.000711	-.052788
6	.018453	-.048588	-.087444	.090382	.034450	-.078690
7	.023284	-.077017	-.079836	.055975	.019933	-.094379
8	.018803	-.042766	-.077932	.041829	.019966	-.066727
9	.015005	-.029220	-.074230	.006944	.038147	-.042013
10	-.018466	-.060155	-.051886	-.002273	.039969	-.040177
11	-.034164	-.087273	-.075196	-.034897	.039766	-.019806
12	.020014	-.073415	-.086690	-.007647	.039824	.012008
13	.031288	-.004972	-.050028	.009281	.053613	.013653
14	.037076	.032450	-.031267	.005534	.058609	.005753
15	.094008	-.025083	-.035055	.037848	.069726	.003699
16	.093975	-.039340	-.041339	.045592	.060175	-.022561
17	.079770	-.045685	-.072795	-.010717	.056252	.014075
18	.057074	-.065691	-.088432	-.020741	.043065	.032639
19	.058006	-.036877	-.101268	.012091	.080214	.038026
20	.026359	-.062661	-.102865	-.009380	.080429	.019083
21	-.003684	-.055694	-.104903	-.003986	.026621	.006436
22	.042222	-.024565	-.075492	.040797	.028904	.013892
23	.032973	.000179	-.036859	.054372	.019132	-.005097
24	.046716	.058146	-.052247	.001580	.003363	.035421
25	.047156	.035488	-.042668	.046623	-.003195	.035761
26	.037689	.021186	-.016170	.063206	.003018	.009258
27	-.000023	.036188	.011615	-.001589	-.029760	.029215
28	-.015665	.080625	.051871	-.002372	-.009370	.048798
29	-.018654	.072518	.094627	-.010548	.028442	.032603
30	-.027167	.081891	.118251	-.069035	.058989	-.003201

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	.241188	-.244911	-.105343	.959017	.469091	-.106832
2	-.042175	-.124418	-.049450	.697323	.082234	-.118623
3	-.112731	-.063404	-.037141	.752568	-.089547	-.063351
4	.012130	-.041735	-.034829	.553645	-.024295	.041297
5	.024400	.013476	-.019434	.219701	-.016210	.116694
6	-.105644	.000667	-.022566	-.315042	-.022684	.154823
7	-.132764	-.045821	-.028864	-.722519	-.003739	.153768
8	-.011821	-.019641	-.020784	-.373972	-.004842	.103427
9-11	.041113	-.008996	-.020467	.106182	.023000	.067758
12-14	.010096	-.048836	-.012826	.251509	.036454	.027519
15-21	.035586	-.034169	-.003587	-.004883	-.011995	.011648
22-30	-.013928	.006561	-.001618	-.134662	-.001486	.005120

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11908	0.91769	0.25963	0.16208
	10E 01	10E 00	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.578415	.586239	.273128	.706978
2	.294410	.359148	.055209	.445275
3	.189038	.255792	-.065914	.299156
4	.110368	.087215	-.113909	.245221
5	.068299	-.045915	-.043675	.146744
6	-.006414	-.093781	-.087578	.047719
7	-.090015	-.111513	-.034257	-.065908
8	-.170620	-.118770	-.065594	-.139993
9	-.225456	-.093677	.009900	-.166808
10	-.181397	-.131329	.088699	-.164594
11	-.143064	-.203345	-.017325	-.170845
12	-.197232	-.252738	-.146533	-.233389
13	-.217552	-.207203	-.182744	-.226097
14	-.124448	-.183273	-.105102	-.219108
15	-.072318	-.228543	-.101154	-.147649
16	-.013363	-.196176	-.061776	-.122548
17	.030890	-.114594	-.033901	-.123550
18	.047448	-.085640	-.012587	-.148114
19	-.027345	-.111677	-.023289	-.122694
20	-.059964	-.012266	-.000888	-.150495
21	-.068057	.021869	.060294	-.165242
22	-.094399	.029257	.013573	-.154795
23	-.105759	.139917	-.041205	-.129619
24	-.051894	.144367	.049953	-.097928
25	-.067277	.103583	-.004152	-.089031
26	-.068073	.034614	-.004920	-.157246
27	-.125481	-.014671	-.007240	-.177773
28	-.067675	-.142904	-.037211	-.150419
29	-.027847	-.185976	.014764	-.116841
30	-.079533	-.161038	-.010032	-.098080

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.025964	.014531	.013586	.053152
1	.167384	.127092	.136775	.357904
2	.166338	.147903	.164606	.310687
3	.172951	.131955	.157645	.247943
4	.122621	.077873	.115258	.157757
5	.057553	.067590	.145589	.087057
6	.044957	.062001	.202431	.060226
7	.053864	.049794	.194846	.058407
8	.040964	.035215	.134109	.044958
9-11	.046810	.014893	.107496	.046509
12-14	.030711	.021332	.107927	.039254
15-21	.024144	.019726	.073689	.020098
22-30	.018745	.014863	.102914	.014641

```
RUN NO   97    15M    7-3-63    1446-1600(EST)
RUN NO   97    46M    7-3-63    1446-1600(EST)
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING
```

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.519842	.488482	.402700	.380105
1	.435058	.739868	.435842	.357927
2	.430595	.586626	.419561	.404041
3	.423147	.480585	.388156	.411780
4	.336666	.484004	.330850	.255730
5	.181524	.455081	.300842	.151775
6	.193263	.319225	.286662	.073981
7-8	.136636	.306309	.227962	.128607
9-11	.126734	.220009	.174324	.063526
12-15	.127053	.212545	.194944	.106736
16-20	.102474	.149641	.118336	.108019
21-27	.086699	.129925	.108758	.123709
28-36	.079313	.095744	.120513	.103699
37-47	.087311	.105620	.087334	.080404
48-60	.093134	.104350	.094382	.092033

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.945985	.899744	.780424	.934891
1	.863375	.893754	.724867	.174049
2	.781650	.878925	.662823	.794019
3	.725133	.873263	.632083	.722077
4	.611386	.859697	.731645	.480950
5	.461432	.850435	.564871	.232679
6	.360220	.819601	.342981	.398763
7	.439711	.831201	.362157	.527247
8	.565373	.868931	.629723	.432604
9-11	.399052	.604213	.506808	.275238
12-14	.497104	.518516	.464752	.625789
15-21	.309604	.504410	.416398	.343170
22-30	.175337	.298968	.350804	.304068

RUN NO   98   46M   7-3-63   1631-1727(EST)

GROSS STATISTICS

2 CU   WIND SPEED   9.08 M/SEC   SIGMA A 10.0 DEG
TRANSITIONAL   WIND DIRECTION 296 DEG   SIGMA E 5.7 DEG
                       .SOLAR RAD.   0.45 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.28785E 01	0.19839E 01	0.12654E 01	0.14234E 01
V	0.21168E 01	0.18647E 01	0.15746E 01	0.10996E 01
W	0.69350E 00	0.70252E 00	0.61864E 00	0.28399E-00
T	0.16895E-00	0.36389E-02	0.30856E-02	0.21839E-02
E	0.28444E 01	0.22756E 01	0.17293E 01	
GUSTINESS RATIOS				
U	0.18685	0.15512	0.12389	0.13139
V	0.16023	0.15039	0.13820	0.11549
W	0.09171	0.09231	0.08662	0.05869
COVARIANCES				
U,V	-0.24787E-00	-0.90486E-01	-0.44618E-01	-0.68884E-01
U,W	-0.51979E 00	-0.49917E-00	-0.38192E-00	-0.31247E-00
U,T	-0.15344E-00	-0.18355E-01	-0.49934E-02	-0.18236E-01
V,W	-0.74584E-01	-0.54405E-01	-0.36915E-01	-0.51348E-01
V,T	-0.93959E-02	-0.36539E-01	-0.30227E-01	-0.24020E-01
W,T	0.18414E-01	-0.65994E-03	-0.18324E-02	0.19459E-02
WE	0.33026E-00	0.22572E-00	0.13097E-00	
NORMALIZED COVARIANCES				
U,V	-0.10041	-0.04705	-0.03161	-0.05506
U,W	-0.36739	-0.42282	-0.43167	-0.49147
U,T	-0.22002	-0.21603	-0.08001	-0.32708
V,W	-0.06156	-0.04753	-0.03740	-0.09189
V,T	-0.01571	-0.44357	-0.43364	-0.49017
W,T	0.05380	-0.01305	-0.04194	0.07814

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14113	0.88475	0.62465	0.98707	0.69689	0.43689
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.031547	-.431746	-.079635	-.037447	-.433816	-.042053
1	-.025556	-.381062	-.080251	-.046272	-.368618	-.014067
2	-.014060	-.294517	-.078551	-.060515	-.287434	.013950
3	-.007670	-.210412	-.074440	-.058468	-.227945	.015920
4	-.013960	-.155870	-.062425	-.044275	-.176590	.012271
5	-.022650	-.125159	-.053534	-.021958	-.138723	.008802
6	-.020265	-.093120	-.049972	-.007917	-.105677	.017013
7	-.020230	-.066499	-.043001	.004072	-.074933	.026417
8	-.024803	-.052258	-.036478	.021019	-.043984	.037494
9	-.031515	-.042522	-.027520	.037461	-.009272	.041587
10	-.033177	-.029451	-.018203	.049637	.028084	.032581
11	-.027627	-.010769	-.014089	.057224	.056132	.027201
12	-.015923	.024877	-.017740	.054281	.080653	.020202
13	-.003426	.069751	-.019621	.046950	.090731	.018890
14	.004224	.106735	-.018801	.048099	.097103	.012616
15	.012201	.129851	-.018982	.050601	.104100	.001018
16	.016018	.132539	-.011175	.043473	.109602	-.004850
17	.018503	.132381	-.007198	.024776	.118494	.003076
18	.028454	.131544	-.011121	-.000335	.122732	.024004
19	.035174	.123165	-.020668	-.020397	.129981	.046796
20	.042748	.107467	-.024121	-.028568	.137717	.057562
21	.053751	.093187	-.024205	-.029372	.142731	.048228
22	.057821	.086438	-.017117	-.022101	.137549	.026036
23	.060614	.088210	-.003669	-.018680	.120387	.007618
24	.061391	.087879	.011826	-.021964	.106326	.002782
25	.057131	.083698	.029162	-.024001	.092091	-.011233
26	.049857	.076047	.034009	-.032489	.078801	-.022490
27	.048118	.066998	.035448	-.042199	.071252	-.022914
28	.048378	.060269	.031990	-.044440	.067207	-.017197
29	.045671	.056852	.023699	-.042251	.057114	-.012960
30	.034685	.049367	.034252	-.033012	.035359	-.010818
31	.018688	.050445	.035907	-.015230	.005551	-.018195
32	-.000424	.055140	.037195	.001571	-.015383	-.027598
33	-.016253	.052235	.043096	.005954	-.020372	-.038248
34	-.021470	.057922	.038394	-.000177	-.028134	-.041908
35	-.022474	.055453	.031011	-.001980	-.043850	-.046455
36	-.023166	.050894	.022136	.000075	-.052910	-.038981
37	-.024917	.044161	.017284	-.001505	-.049830	-.027461
38	-.028941	.041592	.018538	-.005049	-.046035	-.021511
39	-.035177	.036370	.018937	-.009510	-.042818	-.017255
40	-.042541	.021523	.020576	-.012771	-.041632	-.009819
41	-.049184	.001295	.024812	-.016944	-.034011	-.006293
42	-.054380	-.023191	.030744	-.020317	-.031158	-.013087
43	-.059064	-.038319	.040715	-.017483	-.023083	-.022467
44	-.058286	-.043815	.045447	-.004093	-.012804	-.027650
45	-.049010	-.042871	.045271	.010010	-.005289	-.028914
46	-.041585	-.042619	.044553	.024289	-.002864	-.022846
47	-.031896	-.048255	.042996	.040213	.008996	-.022127
48	-.026057	-.050164	.038737	.048457	.019925	-.020090
49	-.017397	-.053390	.033382	.044871	.030391	-.019628
50	-.008228	-.052292	.029277	.036768	.039931	-.016180
51	-.003202	-.047134	.025757	.037061	.045641	-.021594
52	.001961	-.043056	.028870	.044826	.057707	-.031018
53	.007663	-.033777	.027467	.053387	.056223	-.031576
54	.010537	-.024486	.024368	.061560	.047015	-.031273
55	.017843	-.016299	.023695	.062440	.045640	-.025854
56	.026728	-.006547	.027811	.050273	.046143	-.016320
57	.030079	.015006	.031952	.040455	.037253	-.016951
58	.032509	.033820	.031074	.033455	.029339	-.020988
59	.032334	.042638	.031557	.018650	.026658	-.015707
60	.027335	.040337	.034452	.006724	.024277	-.013003

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14113	0.88475	0.62465	0.98707	0.69689	0.43689
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.002936	-.026175	-.027221	.012430	-.040923	.036768
2	.000886	-.037980	-.047700	.029267	-.057363	.065554
3	.003039	-.044760	-.064220	.036366	-.068395	.080518
4	.009090	-.042582	-.087034	.044267	-.081462	.093655
5	.018050	-.036446	-.110826	.049372	-.092982	.108781
6	.026375	-.028428	-.129632	.051772	-.101210	.106962
7	.031899	-.019746	-.133860	.047448	-.102348	.037857
8	.029450	-.012557	-.131621	.037166	-.098419	.067734
9	.026477	-.007303	-.127396	.033388	-.086381	.061813
10	.021455	-.000618	-.119220	.027285	-.074148	.069606
11	.015835	.008537	-.109826	.014659	-.065014	.067698
12	.006143	.014301	-.101270	.008398	-.058163	.064505
13	.004680	.013421	-.093956	.009056	-.050857	.055780
14	.011236	.011149	-.084761	.012843	-.043807	.048384
15	.015287	.007294	-.080060	.006791	-.032910	.039074
16	.016671	.000266	-.067155	.000562	-.027795	.024924
17	.013602	-.003947	- .053254	.003934	-.026282	.010797
18	.012546	-.003051	.040107	.015043	-.021523	.004201
19	.010728	.002619	-.028712	.020263	-.019124	.002439
20	.005997	.010553	-.025925	.017889	-.0092..	.009013
21	.004391	.013079	-.027572	.008379	.003345	.017814
22	.007640	.017220	-.031805	-.003257	.011293	.021846
23	.007651	.022158	-.031226	-.007969	.019040	.016192
24	-.001222	.023688	-.020673	-.018240	.015026	-.003991
25	-.014280	.017592	-.010642	-.028522	.005149	-.019406
26	-.021471	.006843	-.002989	-.033995	-.004059	-.025781
27	-.018898	-.000733	-.005569	-.027707	-.002764	-.020106
28	-.015294	-.001138	-.005107	-.016958	.006510	-.013506
29	-.011840	.001946	-.005666	-.017094	.022006	-.013308
30	-.007866	.005886	.001041	-.018283	.029850	-.012700
31	-.000403	.011569	.009568	-.012463	.028079	-.009709
32	-.000368	.014743	.011802	-.003173	.021960	-.004374
33	-.008480	.013043	.020088	-.000102	.014486	-.003074
34	-.012754	.013422	.021065	-.001910	.021058	-.006417
35	-.011731	.016185	.018788	.004864	.020885	-.012465
36	-.004278	.014587	.014012	.007307	.014742	-.012774
37	.001603	.016378	.008712	.007983	.020763	-.013117
38	.004012	.011110	.012024	.008120	.017839	-.024140
39	.005942	.006279	.019084	.009824	.011012	-.038826
40	.004814	.002963	.029047	.007205	.002682	-.049742
41	.005768	-.004714	.039464	.000494	-.002492	-.055189
42	.012117	-.014206	.034522	-.007576	-.010966	-.052766
43	.021424	-.019878	.024897	-.008345	-.012816	-.041572
44	.028201	-.024254	.022381	-.014965	-.019293	-.032540
45	.029835	-.027498	.017313	-.014785	-.016041	-.025875
46	.029772	-.025530	.011305	-.005306	-.009018	-.016195
47	.021693	-.018615	.004666	.004523	-.008071	.002056
48	.010711	-.011420	.001011	.008642	-.009854	.012209
49	.000094	-.006250	-.000327	.005848	-.006114	.019201
50	-.003251	.002374	-.006505	-.003084	-.000794	.028438
51	-.002943	.010756	-.020735	-.005810	-.002237	.037638
52	-.005067	.012774	-.029086	-.003238	-.006440	.045553
53	-.002850	.016260	-.034973	-.001362	-.009318	.057642
54	-.008943	.020130	-.039991	.000893	-.015264	.058466
55	-.019575	.032824	-.041742	.001112	-.013242	.048198
56	-.031018	.036867	-.035082	-.004582	-.004185	.026627
57	-.041085	.029220	-.021708	-.010605	-.000313	.007536
58	-.051101	.011961	-.009622	-.012517	-.005058	.002927
59	-.060878	-.005697	.013590	-.006961	-.012013	-.003454
60	-.058101	-.015200	.026586	.003525	-.007847	.004138

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12650 10E 01	0.15745 10E 01	0.61881 10E 00	0.30845 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.859626	.826968	.733423	.761205
2	.683594	.617768	.416401	.535897
3	.535964	.470892	.218758	.386866
4	.415239	.360443	.107758	.283931
5	.325915	.270342	.055344	.210393
6	.245994	.197249	.007571	.153930
7	.178749	.135920	-.041365	.106136
8	.122059	.078598	-.069411	.049601
9	.078201	.030069	-.073786	-.008077
10	.033182	-.016762	-.066037	-.060037
11	-.020258	-.068001	-.075065	-.095779
12	-.078471	-.116766	-.112926	-.128759
13	-.130923	-.157964	-.138501	-.153863
14	-.172575	-.185462	-.144686	-.178453
15	-.207252	-.208482	-.147192	-.186953
16	-.228712	-.235570	-.143380	-.180305
17	-.238690	-.266892	-.138703	-.182895
18	-.241281	-.291093	-.142277	-.180144
19	-.238392	-.310027	-.130846	-.179291
20	-.229918	-.316741	-.105568	-.191159
21	-.229247	-.317165	-.076798	-.190055
22	-.229493	-.306585	-.064003	-.180203
23	-.229343	-.296835	-.077102	-.162799
24	-.230578	-.282479	-.102404	-.144015
25	-.223148	-.257969	-.109330	-.131451
26	-.207774	-.235881	-.099557	-.111732
27	-.183459	-.217785	-.095858	-.108489
28	-.159597	-.200970	-.091218	-.101979
29	-.143702	-.174053	-.083189	-.097842
30	-.126093	-.134558	-.061740	-.075365
31	-.103856	-.070392	-.036574	-.032102
32	-.078676	-.019884	-.019868	.012940
33	-.062161	.001904	-.008825	.032617
34	-.061253	.029440	-.016418	.038772
35	-.062852	.059131	-.017272	.042600
36	-.052124	.080207	-.009311	.039102
37	-.039109	.087050	-.008936	.030440
38	-.026165	.087866	-.006320	.029130
39	-.012890	.089581	-.008568	.037082
40	-.001316	.090485	-.005088	.025909
41	.004792	.088748	.018135	.008647
42	.012038	.093533	.046534	-.000084
43	.014196	.100885	.066594	-.009019
44	.008682	.092812	.082307	-.031440
45	.000661	.087679	.080164	-.032697
46	-.009627	.089234	.071611	-.041577
47	-.009137	.088042	.067356	-.065193
48	-.005723	.072630	.053590	-.084888
49	-.005547	.045230	.034693	-.084572
50	-.004223	.017827	.023462	-.078977
51	-.007953	.000147	.025951	-.078299
52	-.012275	-.021847	.034467	-.095315
53	-.018817	-.027900	.040283	-.099005
54	-.030237	-.023741	.032837	-.097016
55	-.036595	-.028174	.019616	-.097936
56	-.043906	-.028885	.011177	-.092378
57	-.054740	-.026308	-.009120	-.073790
58	-.056926	-.033016	-.033541	-.058954
59	-.047861	-.045918	-.047772	-.055516
60	-.046736	-.046299	-.038172	-.044457

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-03
0	.014045	-.041670	-.046017	-.013997	-.031679	.143961
1	-.018389	-.476585	-.236336	-.009864	-.305494	.774252
2	-.207580	-.642726	-.138163	.020115	-.454400	.273517
3	-.256263	-.662039	-.050339	-.077677	-.597785	-.277670
4	.027220	-.459293	-.019265	-.190959	-.421550	-.326903
5	.146525	-.310588	-.032521	-.198024	-.197324	-.056880
6	.058891	-.148447	-.052695	-.130393	-.151953	.016146
7-8	.003071	-.083180	-.013216	-.011184	-.115366	-.243237
9-11	-.012820	-.137137	-.000444	.025713	-.057692	-.108895
12-15	-.024779	-.087569	.003465	.012555	-.053869	.000785
16-2C	-.000082	-.035495	-.004719	.005113	-.033370	-.050866
21-27	-.018096	-.027348	.003361	.016369	-.018019	-.106037
28-36	.000040	-.005799	.000961	.001917	-.011835	-.047885
37-47	.001995	-.003731	-.001403	.001702	-.009317	-.027264
48-60	-.001058	-.003695	.000687	-.000745	-.003999	-.010217

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-01	10E-02	10E-02
1	.072354	.361010	-.245120	.040823	-.123975	.070855
2	.081306	-.028948	-.260708	.081050	-.166863	.109777
3	.123121	-.534933	-.242649	.127361	-.210591	.121167
4	.073183	-.577796	-.157312	.114285	-.160008	.089774
5	.004678	-.528712	-.107783	.058764	-.104026	.076066
6	.019963	-.676686	-.060339	.041452	-.080701	.045222
7-8	.022237	-.529125	-.015498	.075200	-.037009	.035755
9-11	-.027360	-.395752	.001551	.000482	-.016431	.016679
12-15	-.026580	-.114945	.011696	.001852	-.002527	.006726
16-2C	.005417	-.070322	-.002044	-.000412	-.005834	-.004003
21-27	.002337	-.010633	-.004783	.001368	-.005938	.005563
28-36	-.003716	-.020500	-.001130	-.002613	-.004361	-.000176
37-47	-.001857	-.021808	-.000051	-.001629	-.002201	-.001039
48-60	-.000987	-.008878	.000294	-.001479	.000012	.000155

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.021897	.009914	.023026	.036962
1	.180821	.144844	.304721	.291365
2	.212216	.243205	.494342	.355172
3	.219337	.297143	.617550	.437492
4	.147940	.182521	.513352	.345552
5	.086834	.084884	.439490	.205771
6	.060252	.071508	.381993	.165421
7-8	.042360	.063122	.296142	.120360
9-11	.032903	.043993	.255934	.079651
12-15	.022190	.029345	.175782	.068188
16-2C	.011101	.017710	.118334	.045979
21-27	.008063	.012810	.095219	.029197
28-36	.004025	.007720	.043759	.021317
37-47	.003082	.004817	.029967	.015694
48-6C	.002084	.002981	.016874	.011181

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12504	0.63563	0.55749	0.55872	0.49003	0.24910
	10E 01	10E 00	10E-01	.0E 00	10E-01	10E-01
0	-.055089	-.491595	-.327108	-.091902	-.490176	.078117
1	-.043621	-.184388	-.245899	.053181	-.211055	.066126
2	.027208	-.012929	-.187709	-.047455	-.058045	.067567
3	.018378	.058799	-.064615	-.028396	-.036297	-.055916
4	-.042384	.089583	.008913	.019179	-.032888	-.084024
5	-.014178	.027784	.026168	.056894	.006698	-.062229
6	.024169	.066195	.015186	.020545	-.029031	-.027765
7	.009957	.007027	-.049827	-.018203	-.039467	.050551
8	-.045255	.020298	-.024259	.015817	.058047	-.015134
9	-.019878	.083079	-.015102	.030552	.058419	.032514
10	.046640	.058850	.033060	-.011157	.066412	.048221
11	.007348	.094870	.103234	.008184	.040008	.002029
12	-.022608	.119708	.135832	-.036339	.086705	.003024
13	.047752	.046807	.126604	-.057900	.099000	-.020896
14	-.004483	-.043908	.139998	.012765	.071956	-.050631
15	-.026700	-.046708	.137079	-.017678	-.061642	-.002938
16	-.018914	-.041491	.079115	-.055745	.029135	.041754
17	.026983	-.084126	.095906	.010595	.069472	.031363
18	-.035782	-.033067	.147438	.091213	.066003	-.001899
19	-.032428	-.043305	.100951	.027582	.118829	.011493
20	.064451	-.020558	.046672	-.038777	.160374	.027962
21	.141902	.040885	.022338	-.075339	.070826	-.014639
22	.124435	.023767	.002800	-.031513	-.041462	-.032249
23	.113312	-.021815	-.013264	-.047045	-.093917	.001512
24	.069124	.003610	-.030185	.001550	-.054174	-.020697
25	.025344	.003987	-.014067	-.005858	.038304	-.023265
26	-.004622	.007848	-.053828	-.037982	.006241	.008429
27	-.068388	-.036656	-.088234	.081647	.009813	.019113
28	-.083849	-.028763	-.061326	.084574	-.049652	.011877
29	-.067021	-.004830	-.065105	.068008	-.009969	-.041720
30	.001449	.045484	-.069658	-.059952	-.056699	.020646

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
0	.000596	-.005661	-.021866	-.065978	-.033374	.031964
1	-.154468	-.063224	-.370202	.105272	-.281672	.069241
2	-.058521	-.155663	-.405494	.106874	-.274062	.022299
3	-.001592	-.295762	-.242773	-.148591	-.209511	.097479
4	-.089467	-.272334	-.084115	-.412533	-.152781	.188842
5	.033572	-.136633	-.125112	-.661850	-.118751	.301880
6	.007806	-.144977	-.178925	-.175685	-.059603	.567409
7	-.116348	-.264236	-.202114	.188955	-.120584	.645387
8	-.028771	-.280537	-.169891	-.237361	-.171966	.379542
9-11	-.022428	-.163071	-.027719	.104741	-.112603	.141445
12-14	-.105697	-.126075	.006901	.480079	-.061027	-.179981
15-21	-.035996	-.072855	-.002143	-.361412	-.087006	-.104675
22-30	.036547	-.095423	-.028527	-.768883	-.045348	.078936

RUN NC   98   46M   7-3-63   1631-1727(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12504	0.63563	0.55749	0.55872	0.49003	0.24910
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
1	.000837	.012346	-.121210	.035451	-.083814	.141655
2	-.020000	.013516	-.090791	-.034719	-.063248	.060632
3	-.053086	.022705	-.079637	-.036397	-.071815	.042592
4	-.061344	-.029105	.014229	-.049654	-.032381	-.039542
5	-.086483	-.047070	.026197	-.060303	.001209	-.004957
6	-.091569	-.034583	.064542	-.055607	-.014861	-.041634
7	-.08729	-.102892	.107837	-.085852	-.007960	-.106002
8	-.045165	-.032198	.051091	-.066738	.016960	-.053495
9	-.018985	-.010395	.018709	-.038361	-.046178	-.027635
10	-.079172	.008219	.053858	-.085070	-.066239	-.058384
11	-.067201	-.005527	.072820	-.061223	-.005938	-.095169
12	-.059485	.023814	.091900	-.071095	-.009758	-.102876
13	-.029631	-.035982	.079199	-.029455	-.020526	-.079964
14	-.026572	-.016754	.054418	-.016363	-.007633	-.073781
15	.027652	.003796	.038622	.069225	.015461	-.033127
16	.096158	.020424	-.032788	.089081	.056432	.004634
17	.112331	.005682	-.046504	.061035	.062862	.038216
18	.096677	.018725	-.027014	.040941	.039142	.052681
19	.076404	.026568	-.048772	.056333	.047240	.095596
20	.121102	.015524	-.039284	.090858	.107237	.054563
21	.036580	.079099	-.006398	.076649	.035761	.067154
22	-.049682	.107697	.013151	.010917	.001270	.051481
23	-.041899	.070776	-.024907	.018485	.030966	.063619
24	.018723	-.005829	-.078199	.043285	-.016741	.096143
25	.000412	.001089	-.042361	.026507	-.008864	.120036
26	-.004819	-.010444	.014494	.046846	-.024333	.088313
27	.04613	.008407	.041179	.012512	.010769	-.011956
28	.001696	-.039310	.062275	-.066698	.039541	-.022998
29	-.058011	-.016408	.070991	-.057727	-.022565	-.004116
30	-.101937	-.012798	.032340	-.091325	-.043890	-.000833

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-03	10E-03
1	-.288873	-.055142	.163616	-.126253	-.230233	-.746871
2	-.469531	-.104925	.114967	-.196068	-.875383	-.665014
3	-.347772	-.059841	-.023696	-.119114	-.696751	.142925
4	.041133	-.007651	-.135002	.034248	-.064016	.616031
5	.015450	.006361	-.108544	.036561	-.424739	.332197
6	-.126685	.070799	-.080219	-.018600	-.827544	.218143
7	.039642	.085010	-.127289	-.012959	-.719328	.437260
8	.144192	.062505	-.159822	.029480	-.627267	.553682
9-11	.040578	-.007369	-.052756	.011932	-.288798	.247178
12-14	-.029136	.006348	-.030179	.020690	-.254697	.286169
15-21	.027133	-.014159	-.013252	.024147	-.123371	.131185
22-30	-.003238	.009881	-.037168	.023044	-.117236	.221407

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RUN NC 98 46M 7-3-63 1631-1727(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.14225	0.10991	0.28402	0.21848
	10E 01	10E 01	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.517848	.343334	.122695	.500629
2	.203599	-.041495	.058821	.252151
3	.067142	-.054546	-.080579	.162620
4	-.047354	.014371	-.049041	.046745
5	-.089607	-.019241	-.045982	.018609
6	-.102756	.008795	-.111918	.030398
7	-.007557	.001364	-.108894	.112968
8	-.039169	-.067850	-.033148	.051759
9	-.106363	-.055475	-.081421	-.079008
10	-.118930	-.131177	-.035883	-.207725
11	-.182508	-.109152	-.066046	-.161993
12	-.227111	-.087156	-.141196	-.198523
13	-.185503	-.160167	-.041680	-.254063
14	-.098089	-.163445	-.065917	-.239320
15	-.062427	-.013902	-.030363	-.145952
16	-.059900	.013516	-.032420	-.175894
17	-.117873	.009626	.032072	-.209953
18	-.133462	-.039840	.107023	-.155761
19	-.052328	-.104112	.057407	-.178151
20	-.050523	-.161748	.011080	-.216682
21	-.093302	-.084877	-.023035	-.137436
22	-.063183	.017630	-.047604	-.031669
23	-.033468	.123560	.076917	.046557
24	-.064320	.092358	-.005188	.024792
25	-.085040	.001628	.035652	-.003915
26	-.008681	.065285	.003236	.011914
27	.092426	.019821	.017859	-.002510
28	.079717	.077690	.068638	.098730
29	.092708	.000154	.088517	.142338
30	.119389	.094703	-.062065	.171597

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.098702	.060606	.003484	.034320
1	.140543	.701525	.068816	.340982
2	.164513	.851628	.131934	.333493
3	.153090	.792871	.189529	.219609
4	.115009	.569204	.161608	.105727
5	.089795	.434892	.126628	.092402
6	.091771	.419695	.147542	.101356
7	.106924	.678028	.158513	.139998
8	.103289	.698863	.116384	.149085
9-11	.048790	.611862	.104004	.081050
12-14	.035747	.486580	.123248	.031644
15-21	.033982	.428593	.088815	.060740
22-30	.027394	.233857	.161726	.046743

GROSS STATISTICS

? CU	WIND SPEED	10.7 M/SEC	SIGMA A 6.70 DEG
TRANSITIONAL	WIND DIRECTION	294 DEG	SIGMA E 4.5 DEG
	SOLAR RAD.	0.45 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.20462E 01	0.14342E 01	0.77126E 00	0.11206E 01
V	0.14549E 01	0.12543E 01	0.10098E 01	0.76284E 00
W	0.64760E 00	0.67090E 00	0.58667E 00	0.26789E-00
T	0.16706E-00	0.36341E-02	0.21300E-02	0.26064E-02
E	0.20744E 01	0.16798E 01	0.11839E 01	
GUSTINESS RATIOS				
U	0.13344	0.11172	0.08192	0.09875
V	0.11252	0.10447	0.09374	0.08147
W	0.07507	0.07641	0.07145	0.04828
COVARIANCES				
U,V	-0.13695E-00	0.12318E-01	-0.45430E-02	-0.17975E-01
U,W	-0.36633E-00	-0.37112E-00	-0.21773E-00	-0.26679E-00
U,T	-0.12729E-00	-0.30526E-01	-0.87101E-02	-0.28113E-01
V,W	-0.24553E-01	-0.19741E-01	-0.15875E-01	-0.12766E-01
V,T	-0.33132E-02	-0.17569E-01	-0.13413E-01	-0.12961E-01
W,T	0.47684E-02	0.48724E-02	0.14418E-02	0.56745E-02
WE	0.15608E-00	0.18972E-00	0.85346E-01	
NORMALIZED COVARIANCES				
U,V	-0.07937	0.00918	-0.00515	-0.01944
U,W	-0.31823	-0.37834	-0.32368	-0.48694
U,T	-0.21771	-0.42282	-0.21490	-0.52020
V,W	-0.02530	-0.02152	-0.02063	-0.02824
V,T	-0.00672	-0.26022	-0.29921	-0.29068
W,T	0.01450	0.09868	0.04079	0.21475

RUN NC 98   914   7-3-63   1631-1727(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.88256	0.67271	0.40521	0.76980	0.46370	0.35344
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.005227	-.323813	-.214879	-.020774	-.289183	.040749
1	-.014661	-.296330	-.199739	-.013826	-.256139	.054877
2	-.027435	-.245356	-.174561	-.013359	-.212050	.072070
3	-.036610	-.194284	-.151941	-.012111	-.172441	.085459
4	-.041005	-.155516	-.129322	-.011785	-.137843	.092913
5	-.042475	-.120919	-.106956	-.012083	-.108095	.082714
6	-.041934	-.092719	-.087432	.008938	-.089355	.069116
7	-.035597	-.068370	-.073601	-.007648	-.060695	.059626
8	-.028105	-.045613	-.063785	-.002447	-.032720	.045898
9	-.022835	-.020598	-.053866	.009203	-.010418	.024866
10	-.007220	-.000735	-.043212	.011374	.008868	.005061
11	.008233	.012945	-.035357	.009547	.033231	-.011189
12	.017450	.022027	-.029393	.007025	.062113	-.018870
13	.022375	.031879	-.024703	-.001884	.080416	-.010709
14	.028365	.045707	-.026781	-.007169	.089546	-.000100
15	.039553	.055492	-.033450	-.006967	.092773	.004919
16	.041723	.056170	-.029585	-.010355	.098363	.001824
17	.044420	.049335	-.014098	-.007281	.108832	-.006071
18	.048559	.043759	.008547	.002964	.112031	-.023418
19	.048721	.048618	.026286	.006845	.110369	-.040432
20	.046268	.056316	.033336	.002855	.105515	-.040690
21	.043154	.063386	.038371	.000235	.101360	-.030075
22	.041823	.066215	.045192	-.003717	.100494	-.022341
23	.043277	.062144	.056689	-.013607	.097332	-.015638
24	.044413	.060754	.060913	-.020659	.093388	-.014250
25	.036872	.065863	.057975	-.009695	.080061	-.018619
26	.028522	.079804	.058716	.002055	.065678	-.031253
27	.015653	.083873	.065648	.012125	.054382	-.052971
28	.003068	.079759	.074032	.017095	.027808	-.058278
29	-.008242	.072679	.073292	.016723	.001948	-.045145
30	-.012089	.072283	.060944	.012094	-.015765	-.034415
31	-.007542	.068320	.044507	.005579	-.031114	-.027527
32	-.003963	.063949	.038020	.000609	-.040663	-.028112
33	-.008002	.056215	.041702	.002255	-.046882	-.028185
34	-.014365	.048047	.051130	-.002419	-.053161	-.021122
35	-.019089	.038632	.058383	-.006587	-.056385	-.012559
36	-.027641	.024359	.061027	-.013753	-.052569	-.010412
37	-.041628	.012240	.071011	-.012043	-.049267	-.008636
38	-.055843	.010692	.081806	-.000114	-.041076	-.007792
39	-.071843	.012672	.089259	.004198	-.036069	-.017393
40	-.080629	.019563	.088329	.004469	-.027300	-.029125
41	-.080109	.031045	.086509	.012941	-.022759	-.031668
42	-.072754	.030973	.090380	.019567	-.022860	-.030042
43	-.064129	.038581	.096544	.017311	-.018931	-.033917
44	-.053900	.048803	.099574	.011195	-.011590	-.032419
45	-.041329	.053474	.102050	.006782	-.000575	-.018901
46	-.030764	.050202	.103849	.010849	.007571	-.011605
47	-.023853	.037979	.101677	.018554	.008393	-.002240
48	-.022094	.031667	.093516	.022935	.016421	-.000627
49	-.014983	.022299	.087562	.024450	.027177	-.005162
50	.000376	.019761	.081447	.022775	.038657	-.006080
51	.010672	.012977	.074947	.019885	.049371	-.009266
52	.015787	.004319	.063851	.020662	.043607	-.008651
53	.017971	-.006915	.043840	.019349	.034067	-.009186
54	.027018	-.017900	.020971	.017140	.034654	.000549
55	.044080	-.025616	.001301	.006859	.033836	.010410
56	.063619	-.020385	-.018661	-.004939	.034321	.015841
57	.078296	-.015139	-.032913	-.015163	.029432	.013059
58	.088639	-.008995	-.046287	-.014889	.028590	.009348
59	.091325	.001321	-.054745	-.002318	.025387	.014942
60	.082752	.004511	-.056391	.014159	.014522	.018769

RUN NO 98   91M   7-3-63   1631-1727(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.88256 10E 00	0.67271 10E 00	0.40521 10E-01	0.76980 10E 00	0.46370 10E-01	0.35344 10E-01
1	-.000079	-.038846	-.026364	-.013566	-.027123	.016963
2	.000495	-.064476	-.049654	-.020112	-.044127	.019940
3	.005462	-.071138	-.061946	-.030351	-.056717	.021613
4	.007955	-.074708	-.065637	-.036110	-.066422	.026994
5	.010108	-.084121	-.061703	-.032833	-.078806	.034117
6	.009106	-.092389	-.055064	-.023698	-.078174	.041191
7	.007880	-.089476	-.057347	-.018880	-.077349	.043060
8	.007709	-.085264	-.065532	-.016665	-.080290	.038261
9	.008660	-.085861	-.070910	-.010680	-.080266	.042392
10	.010259	-.080919	-.072139	-.004425	-.073429	.042647
11	.018001	-.073030	-.063366	-.004508	-.069120	.030636
12	.024474	-.066650	-.058153	.004153	-.070280	.021839
13	.032635	-.063041	-.055843	.021765	-.063571	.015925
14	.044729	-.059967	-.054690	.031350	-.052781	.006547
15	.047354	-.055435	-.054093	.030419	-.050796	-.004658
16	.043400	-.050933	-.053949	.022411	-.049169	-.016616
17	.036311	-.046979	-.059837	.010679	-.042719	-.019378
18	.028385	-.043631	-.065538	.005718	-.031993	-.009505
19	.027046	-.043330	-.064877	.008171	-.028606	.013201
20	.029861	-.042480	-.063921	.012859	-.024368	.035773
21	.029674	-.040571	-.057353	.019831	-.027972	.046213
22	.024165	-.039038	-.048905	.016138	-.029606	.044165
23	.021383	-.030215	-.041340	.005634	-.025866	.039376
24	.022568	-.012875	-.035117	.002818	-.021023	.031795
25	.021086	-.002257	-.030536	.009423	-.016815	.029173
26	.016053	.002141	-.030108	.013887	-.007447	.025082
27	.005277	.015 15	-.031919	.008560	-.002697	.028917
28	.000528	.034136	-.025669	-.003493	.001581	.027823
29	-.002173	.043695	-.017082	-.014041	.014389	.020796
30	-.004693	.049802	-.006634	-.023823	.029360	.008942
31	-.011063	.049955	.006998	-.036953	.038035	-.013375
32	-.017224	.046215	.024327	-.037309	.038817	-.028013
33	-.023638	.047467	.034731	-.038389	.023841	-.025634
34	-.030914	.048215	.041474	-.038437	.010864	-.022867
35	-.037585	.043990	.045092	-.029078	.004726	-.020322
36	-.037803	.038025	.051201	-.022392	.005350	-.014438
37	-.037029	.032732	.063981	-.023098	.011246	-.015029
38	-.032844	.026733	.076709	-.014654	.009967	-.015390
39	-.030227	.020578	.084939	-.001871	.000175	-.011177
40	-.032827	.020570	.091466	.012038	-.001235	-.012231
41	-.037994	.025269	.093762	.015352	.007224	-.014680
42	-.042292	.027953	.082857	.014514	.017809	-.021451
43	-.037164	.020281	.061543	.022564	.027511	-.019162
44	-.030879	.019441	.044659	.032458	.031978	-.002465
45	-.016054	.023723	.031439	.034500	.038577	.009254
46	-.000345	.033246	.013909	.029140	.038110	.013244
47	.013547	.039256	-.002412	.022802	.039121	.011125
48	.028283	.041538	-.015456	.012024	.044096	.014530
49	.045449	.035214	-.025964	.004592	.049334	.018097
50	.056592	.037564	-.033354	.000295	.042351	.009379
51	.061424	.036928	-.036786	.002653	.039940	-.001218
52	.064546	.032830	-.041382	.012315	.037171	-.003590
53	.066440	.017016	-.047994	.022057	.033114	-.005365
54	.067738	-.000701	-.055414	.024505	.029001	-.000884
55	.064736	-.01 131	-.055922	.031157	.023379	.005355
56	.056002	-.021237	-.044928	.037275	.015824	-.001446
57	.041782	-.027549	-.035012	.044563	.006024	-.014703
58	.028772	-.028857	-.031376	.049847	-.002405	-.019350
59	.020880	-.027951	-.031734	.046295	-.010432	-.009252
60	.013234	-.024487	-.027828	.038889	-.015617	-.004228

RUN NC 98 91M 7-3-63 1631-1727(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.77125	0.10099	0.58676	0.21290
	10E 00	10E 01	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.874292	.836608	.737487	.792184
2	.719453	.629654	.436798	.569016
3	.590855	.474747	.251640	.429428
4	.481097	.365330	.133338	.340836
5	.391658	.273917	.049627	.266322
6	.310247	.202062	-.012565	.207792
7	.229727	.140709	-.052263	.148649
8	.160095	.079715	-.078535	.107788
9	.096327	.018854	-.095537	.067932
10	.045595	-.041748	-.108595	.020542
11	.007439	-.094276	-.117596	-.025386
12	-.025800	-.133417	-.118563	-.066046
13	-.060465	-.180155	-.115221	-.079735
14	-.091431	-.217319	-.116601	-.085732
15	-.113009	-.245112	-.112032	-.097475
16	-.128365	-.266891	-.101367	-.102290
17	-.140740	-.289808	-.099877	-.114003
18	-.160816	-.302335	-.100084	-.141297
19	-.184809	-.294860	-.095063	-.171737
20	-.205175	-.286940	-.098439	-.209488
21	-.227207	-.274611	-.104533	-.232637
22	-.244251	-.258972	-.103781	-.248851
23	-.254128	-.238328	-.099811	-.267979
24	-.262108	-.219725	-.088980	-.270505
25	-.269712	-.192555	-.092826	-.261008
26	-.279719	-.168759	-.090621	-.249858
27	-.291953	-.149652	-.085768	-.236975
28	-.298658	-.136646	-.085093	-.218678
29	-.288466	-.113434	-.070348	-.197687
30	-.265355	-.074766	-.050932	-.164661
31	-.229415	-.019980	-.044507	-.119269
32	-.194650	.030215	-.045097	-.081452
33	-.162148	.064030	-.041050	-.070539
34	-.132761	.086771	-.041287	-.064335
35	-.111173	.095290	-.028563	-.052539
36	-.093331	.091951	.009127	-.054316
37	-.072012	.084817	.036630	-.066897
38	-.056904	.074388	.046165	-.051801
39	-.052836	.057970	.054259	-.029183
40	-.053561	.033059	.035456	-.017501
41	-.054663	.021372	.007528	.007084
42	-.047334	.020177	-.013969	.026883
43	-.041382	.018140	-.012412	.036609
44	-.041479	.008110	-.015343	.031077
45	-.048982	-.009583	-.021427	.020316
46	-.049331	-.032998	-.018418	.012728
47	-.045056	-.046565	-.026626	.011685
48	-.039032	-.057521	-.051235	.016283
49	-.026899	-.066207	-.060291	.010256
50	-.011781	-.063822	-.037900	-.004708
51	-.003241	-.054976	-.009192	-.007645
52	.001983	-.049177	.003921	.023984
53	.008070	-.042810	.019246	.050566
54	.008690	-.039385	.026305	.049752
55	.012580	-.034849	.034394	.046729
56	.012188	-.030911	.032341	.036482
57	.007257	-.020145	.018592	.029745
58	.002084	-.005227	.008741	.027692
59	-.003014	.014240	.005443	.024471
60	-.007441	.033056	.023655	.014230

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
0	-.002385	-.046414	-.039093	-.070955	-.017040	.112884
1	.017364	-.401369	-.292134	-.409872	-.133485	.977315
2	-.093396	-.408872	-.211168	-.183286	-.210212	.920195
3	-.205418	-.355019	-.110835	-.103419	-.311987	.658988
4	-.081775	-.237389	-.062944	-.150008	-.232315	.332696
5	.019877	-.166537	-.029684	-.146435	-.086710	.156466
6	.027564	-.153228	-.034416	-.274539	-.048914	.108653
7-8	.044460	-.082228	-.047293	-.072910	-.047669	-.043153
9-11	.031138	-.046325	-.014216	-.018081	-.019835	-.159056
12-15	.008817	-.032355	-.008374	.080035	-.020271	-.116956
16-2C	.005427	-.019596	-.001579	-.057495	-.010379	-.047614
21-27	.003477	-.005636	-.002625	.005010	-.006954	-.029290
28-36	.003203	-.004298	-.002068	-.028524	-.002888	.005120
37-47	.000641	-.000714	-.000807	-.005794	-.003233	-.016526
48-60	.000702	-.001150	-.00C327	-.016913	-.001344	-.005278

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
1	.095140	-.139784	-.115672	-.027527	-.114202	.491660
2	.127859	-.226548	-.143269	.141763	-.136795	.447557
3	.073277	-.217969	-.090317	.097076	-.119899	.268183
4	-.049013	-.103598	-.008169	-.670866	-.073124	.087470
5	-.030854	-.046138	-.031518	-.872957	-.038428	.287223
6	-.012162	-.064769	-.034995	-.346453	-.033154	.436686
7-8	-.005237	-.052358	-.017972	-.424235	-.020337	.065403
9-11	.017852	-.011826	-.008130	-.008590	-.007755	-.102880
12-15	-.008592	-.010268	-.011387	-.109544	-.002412	.052347
16-20	.000641	-.009985	-.003283	.056333	-.000643	.010752
21-27	-.002305	-.005991	.002361	-.009787	-.001375	.021212
28-36	-.000125	-.000319	-.000553	-.023311	-.002370	.004565
37-47	.000438	.000135	.000616	-.008528	.000612	.010864
48-6C	.000574	.000418	-.000015	-.006691	-.001016	.002981

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.016724	.009388	.025512	.030529
1	.144868	.097325	.329126	.282653
2	.153602	.142187	.461192	.335990
3	.129417	.184628	.566216	.315438
4	.070920	.136366	.490451	.176600
5	.045501	.065281	.410129	.102249
6	.045786	.045822	.411220	.104076
7-8	.030162	.036528	.326644	.099776
9-11	.015701	.028025	.228477	.046466
12-15	.009739	.018308	.160214	.045493
16-2C	.006471	.012322	.107941	.027172
21-27	.003872	.007277	.072908	.021641
28-36	.002453	.004703	.047583	.012719
37-47	.001805	.002608	.028143	.008656
48-60	.001103	.001815	.017092	.005526

RUN NC   98   91M   7-3-63   1631-1727(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.92511	0.54830	0.54087	0.45229	0.44615	0.26443
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.019430	-.486571	-.519777	-.028226	-.290510	.214594
1	.001265	-.297687	-.440513	.002184	-.106667	.178053
2	.015782	-.136136	-.281354	.010755	-.013713	.073440
3	-.008211	.006509	-.153614	.025824	-.059305	.019948
4	-.054607	.103087	-.051917	.027325	-.050294	-.050219
5	-.021785	.091669	.017032	.035870	.034523	-.036048
6	.050814	.058998	-.025211	.008749	.003109	.002448
7	.009052	.029243	.018470	-.035186	.000344	-.027945
8	-.017429	.035555	.054214	-.068899	.006343	-.012116
9	.004174	.041538	.111695	-.022073	-.022777	.002497
10	.025436	.079865	.169259	.014163	.051924	-.054315
11	-.032425	.122288	.212297	.024647	.086359	-.076431
12	-.045570	.124649	.193432	.033488	.063258	-.067426
13	-.010787	.056884	.174769	.027921	.070523	-.082866
14	.020633	.036441	.166060	-.048482	.031012	-.030500
15	.036210	-.012199	.172176	-.053812	-.059057	-.037669
16	.018753	.007396	.185329	-.030874	-.030746	-.042273
17	-.003457	.045376	.159201	-.000951	.077908	-.092820
18	-.023155	.113790	.135355	.088519	.061797	-.058564
19	.016452	.027674	.124372	.076148	.013850	-.103242
20	-.013221	-.015337	.102945	.028509	.035303	-.016524
21	.012168	-.036128	.068880	-.010953	.070895	-.013893
22	.021011	-.047934	.052636	-.021464	.012983	-.011057
23	.072459	-.030817	.021100	-.059432	-.025612	.044814
24	.053476	-.013159	-.005563	-.059599	-.043326	.029374
25	.057971	.042644	-.048834	-.067819	-.019456	.046509
26	.003183	-.000995	-.068817	-.012188	-.021285	.013922
27	-.010224	-.025419	-.054158	-.018344	-.091676	.055546
28	-.021152	-.027715	-.089883	.026575	-.070205	.082699
29	-.026295	-.088828	-.147566	.027671	-.005967	.117316
30	.003921	-.137594	-.202236	.017768	-.017792	.159401

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02
0	-.052146	-.003819	-.013725	.002729	-.018131	-.005320
1	-.568950	-.182601	-.558255	.013722	-.141174	.066999
2	-.141159	-.287941	-.681922	.010513	-.145072	.102915
3	.058218	-.328322	-.511739	.027240	-.119083	.077289
4	-.163750	-.265869	-.263053	.013797	-.081916	.049306
5	-.136315	-.232316	-.187753	-.007094	-.045828	.055953
6	-.192398	-.216898	-.161510	.010060	-.025488	.049891
7	.508453	-.241086	-.177033	-.051147	-.078075	.058895
8	.986801	-.280378	-.183374	-.101691	-.095930	.067354
9-11	.065442	-.102539	-.083033	.010120	-.010297	.021035
12-14	-.389098	-.046626	-.011614	.002883	-.053316	.010186
15-21	-.221630	-.031741	-.020300	-.009353	-.072039	.005239
22-30	-.065443	-.040749	.006984	-.007730	-.017866	-.006389

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.92511	0.54830	0.54087	0.45229	0.44615	0.26443
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.008335	-.063699	-.067499	-.041060	-.114195	.031276
2	.007576	-.062963	-.073027	-.004001	-.117044	.054245
3	-.025479	.010447	-.067658	-.068014	-.101381	.019991
4	-.055543	-.018561	-.025532	-.039112	-.087385	.017090
5	-.042996	.034734	-.053168	-.056621	-.038958	-.019845
6	-.092136	-.024188	-.028290	-.073901	-.063523	-.050530
7	-.116797	-.021397	-.000130	-.180231	-.085762	-.059042
8	-.067487	-.018675	.004457	-.101634	-.043088	-.013375
9	.030926	-.030113	-.026602	-.084932	.022375	-.003386
10	.040947	.003823	-.042402	-.074825	.048432	-.027073
11	.069466	.043509	-.019757	-.024769	.079955	-.040784
12	.078482	.029258	-.006693	.012003	.088512	-.046048
13	-.006578	.020301	.032609	.046638	.071268	-.037755
14	-.014156	.016666	.029543	-.010314	.052007	-.043361
15	-.017025	.055775	.017703	-.002468	-.007972	.003397
16	.020370	-.022483	-.020733	.094022	-.032125	.106847
17	.037313	.010029	-.028424	.084237	-.044583	.122110
18	.057219	.027999	.000700	.067902	.005130	.081356
19	.071249	-.001136	.062217	.062973	.021892	.027762
20	.044202	-.005973	.080297	.050339	.039705	-.056544
21	.002385	-.043813	.086458	.044740	-.005335	-.046951
22	-.051271	.057685	.064210	.024669	.037498	.005300
23	-.126026	.015181	.043651	-.012921	-.005609	.027416
24	-.133540	.011611	.014109	.014752	-.088613	.029239
25	-.073726	-.041317	.017429	.021365	-.099624	.028328
26	-.045217	-.081131	.031428	-.010977	-.048401	-.028654
27	.003513	-.045656	.056716	.003063	.016111	-.038646
28	.037575	-.033292	.059940	.049664	.074858	-.054892
29	.038931	.030204	.055289	-.007453	.087248	-.045611
30	-.022735	.020566	.008021	-.025845	.052062	-.051347

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-03	10E-01	10E-02	10E-03
1	-.042761	.199854	-.377778	-.113723	-.015226	-.165021
2	-.129819	-.197543	-.993012	-.184585	-.069454	-.319124
3	-.244394	-.564009	-.794000	-.156468	-.158513	-.130861
4	-.134498	-.393708	-.588205	-.012995	-.172671	.378172
5	-.042169	-.056060	-.695896	.048409	-.107416	.369112
6	.082949	.066419	-.432399	.041996	-.008080	.001732
7	.252977	-.272316	-.609096	.033302	.003034	.207002
8	.117947	-.547734	-.854382	-.005542	-.072886	.595802
9-11	-.050914	-.595979	-.049048	-.033025	-.062673	.039154
12-14	.032783	-.238269	-.382200	-.002822	-.014727	-.044856
15-21	-.004322	-.223310	.003503	-.007997	-.018832	.036836
22-3C	.008705	.304606	-.151051	-.027375	.001227	-.060972

RUN NO 98   91M   7-3-63   1631-1727(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11215	0.76311	0.26807	0.26084
	10E 01	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.640783	.336031	.128967	.637197
2	.327905	.034290	.090980	.365707
3	.069268	.053632	-.087312	.227129
4	-.040267	.005508	-.090608	.132741
5	-.081374	-.128546	-.138860	.031356
6	-.086803	-.053293	.005140	-.013274
7	-.040979	-.096967	-.012023	-.067048
8	-.058896	-.117307	-.069027	-.107704
9	-.090213	-.119157	-.067873	-.163914
10	-.173518	-.144004	-.102813	-.272591
11	-.260568	-.102973	-.145154	-.322306
12	-.294781	-.034187	-.060248	-.263133
13	-.233240	-.110202	-.119121	-.220481
14	-.163611	-.107160	-.004211	-.150366
15	-.081121	.023372	-.017055	-.129098
16	-.084982	.018203	.023573	-.147261
17	-.108976	-.060713	-.071423	-.172159
18	-.149253	-.046579	-.074929	-.111205
19	-.098538	-.053579	.053355	-.105834
20	-.044528	-.049064	.022104	-.129821
21	-.006753	-.139067	.048393	-.126101
22	-.007292	.006411	-.005051	-.077741
23	-.040585	.043449	.002847	-.016130
24	.010986	.079332	.099948	-.004411
25	.001057	.044045	-.055735	-.012284
26	.000140	-.014515	.034468	.034556
27	-.006772	.032077	-.024611	.045392
28	.003875	.099994	.046429	.077290
29	.071013	-.002906	.034492	.143838
30	.167766	.044906	.191191	.228301

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.008358	.023963	-.000550	.037014
1	.130454	.423532	.074401	.413196
2	.161266	.583063	.138689	.458754
3	.150983	.663209	.174699	.399011
4	.099988	.607344	.141388	.249325
5	.075146	.477294	.118501	.139550
6	.078305	.346020	.123225	.095367
7	.093655	.377456	.146570	.124424
8	.091462	.369391	.171496	.140904
9-11	.036209	.311667	.117390	.072815
12-14	.025442	.242806	.069309	.064790
15-21	.013241	.336383	.098261	.046433
22-30	.014960	.178320	.142660	.030455

61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.615881	.534333	.499938	.609995
1	.593815	.626515	.356788	.620072
2	.547262	.586286	.319134	.435750
3	.496385	.585217	.322584	.351596
4	.363552	.555635	.329479	.404314
5	.138820	.398642	.315212	.332530
6	.126944	.330002	.314256	.123809
7-8	.155573	.272100	.221306	.067913
9-11	.078287	.178824	.236348	.082669
12-15	.142004	.140796	.154939	.169241
16-2C	.169208	.119445	.114946	.124060
21-27	.119369	.127387	.112799	.089579
28-36	.109347	.085129	.138115	.124613
37-47	.114179	.062180	.130040	.133009
48-60	.120781	.100536	.099946	.119727

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 01	10E 00
0	.908213	.547141	-.179452	.645157
1	.958303	.885275	.062443	.841959
2	.881493	.869764	.059511	.846208
3	.756782	.807870	.054658	.706110
4	.703976	.702718	.041921	.557777
5	.670330	.611234	.033337	.548509
6	.696050	.552638	.048633	.542667
7	.765704	.723160	.062654	.685999
8	.786815	.832714	.062575	.831979
9-11	.397533	.653591	.023901	.456685
12-14	.604751	.517301	.035628	.100627
15-21	.498393	.629494	.026210	.503835
22-30	.279813	.334206	.035201	.398028

RUN NO   99A   15M   7-3-63   1807-1923(EST)

GROSS STATISTICS

2 AC AS	WIND SPEED	5.29 M/SEC	SIGMA A 13.6 DEG
TRANSITIONAL	WIND DIRECTION	321 DEG	SIGMA E 9.1 DEG
	SOLAR RAD.	0.06 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.35124E 01	0.28194E 01	0.18014E 01	0.19987E 01
V	0.15093E 01	0.12903E 01	0.11608E 01	0.59401E 00
W	0.55040E 00	0.54575E 00	0.50435E 00	0.15826E-00
T	0.49754E-00	0.30245E-02	0.21534E-02	0.18276E-02
E	0.27860E 01	0.23278E 01	0.17332E 01	
GUSTINESS RATIOS				
U	0.35428	0.31741	0.25371	0.26725
V	0.23224	0.21473	0.20366	0.14569
W	0.14024	0.13965	0.13425	0.07520
COVARIANCES				
U,V	-0.31709E-00	-0.69882E-01	-0.72787E-02	-0.11048E-00
U,W	-0.43826E-00	-0.44574E-00	-0.33153E-00	-0.27463E-00
U,T	-0.23603E-00	0.36509E-01	0.17992E-01	0.31366E-01
V,W	0.89945E-02	-0.11303E-01	-0.16876E-01	0.29198E-01
V,T	-0.14327E-00	-0.16773E-01	-0.15770E-01	-0.83664E-02
W,T	0.78582E-04	-0.11183E-01	-0.94596E-02	-0.60791E-02
WE	-0.13512E-00	-0.87156E-01	-0.15847E-01	
NORMALIZED COVARIANCES				
U,V	-0.13772	-0.03664	-0.00503	-0.10140
U,W	-0.31520	-0.35934	-0.34782	-0.48829
U,T	-0.17855	0.39536	0.28887	0.51896
V,W	0.00987	-0.01347	-0.02206	0.09523
V,T	-0.16533	-0.26849	-0.31542	-0.25392
W,T	0.00015	-0.27524	-0.28704	-0.35744

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RUN NC 99A 15M   7-3-63 1807-1923(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14461	0.95329	0.62286	0.76525	0.49999	0.32960
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.005059	-.347823	.288738	-.022185	-.315322	-.286779
1	-.008361	-.302032	.279707	-.012149	-.257890	-.231784
2	-.014730	-.220953	.252430	.009835	-.187222	-.159041
3	-.025505	-.153011	.218252	.029806	-.130566	-.114025
4	-.035375	-.101179	.184995	.038915	-.094433	-.078121
5	-.039275	-.061042	.149565	.051356	-.066154	-.050862
6	-.041247	-.038500	.112703	.049601	-.045480	-.036292
7	-.037489	-.020676	.076706	.048455	-.032898	-.023734
8	-.037197	-.010991	.045218	.049396	-.021111	-.004853
9	-.038236	-.006029	.029312	.047221	-.016970	.013037
10	-.036038	-.003859	.018168	.036107	-.017984	.031166
11	-.032947	-.002438	.007118	.023711	-.003900	.040274
12	-.030859	.000032	-.005962	.014464	.024202	.036121
13	-.027116	.004638	-.026780	.012685	.046117	.027432
14	-.024416	.014391	-.048900	.008736	.063646	.025017
15	-.020257	.024033	-.064705	∗.005882	.075199	.030469
16	-.011069	.027896	-.076672	-.026105	.081162	.036159
17	.000767	.027539	-.086351	-.030353	.076677	.051044
18	.013419	.040338	-.099564	-.031908	.077275	.059113
19	.025017	.051946	-.105069	-.028479	.080485	.055132
20	.035637	.060123	-.111184	-.025553	.074976	.055152
21	.046497	.067896	-.118597	-.021551	.070311	.063573
22	.055104	.075349	-.124686	-.020695	.075300	.067627
23	.055578	.082604	-.130658	-.027953	.079585	.072043
24	.057810	.085372	-.127951	-.036975	.084687	.067395
25	.057790	.086575	-.117776	-.029036	.087656	.054267
26	.051704	.084132	-.108540	-.025015	.084630	.050282
27	.044105	.085988	-.103747	-.024476	.077059	.051585
28	.032282	.082529	-.089760	-.026249	.062584	.046718
29	.025880	.076650	-.081232	-.019029	.050895	.038946
30	.024762	.063520	-.068096	-.014285	.037610	.037579
31	.020479	.056815	-.058528	-.016807	.024084	.029553
32	.019597	.057588	-.049363	-.022755	.012661	.019585
33	.015112	.054233	-.039963	-.028684	-.000505	.007689
34	.008231	.055472	-.030218	-.033957	-.002681	-.000268
35	.005843	.058451	-.021456	-.023645	.001767	-.003135
36	.001376	.058201	-.006810	-.012016	.006004	-.004971
37	.002586	.043585	.005986	-.012299	.009844	-.010012
38	.005843	.021438	.008907	-.022224	.003246	-.008503
39	.005299	.005597	.012992	-.018597	-.013440	-.002104
40	.000376	.003049	.024597	-.014926	-.030027	.001739
41	-.004030	.007035	.034708	-.012230	-.033008	-.002870
42	-.007505	.010140	.041619	.001142	-.035761	-.018624
43	-.016309	.006907	.048446	.023272	-.039292	-.030184
44	-.021953	.002401	.053792	.028126	-.038569	-.035346
45	-.024252	-.002683	.049014	.022034	-.038994	-.030310
46	-.030291	-.010386	.045791	.013271	-.045216	-.025483
47	-.036351	-.020393	.046929	.009459	-.043546	-.027550
48	-.036667	-.031155	.044302	.009332	-.037948	-.022094
49	-.037056	-.034847	.040269	.016074	-.032818	-.018786
50	-.038993	-.031560	.044976	.017549	-.022908	-.017116
51	-.035961	-.019467	.051120	.012825	-.016048	-.011136
52	-.025085	-.008763	.045579	.011839	-.015152	-.000907
53	-.010950	-.010204	.036781	.007524	-.009209	.008858
54	.005888	-.021150	.029600	.001461	.001007	.012503
55	.014954	-.029663	.024257	.010896	.009635	.010598
56	.021860	-.032944	.018399	.024681	.013996	-.000563
57	.027224	-.032879	.010263	.028227	.021404	-.008963
58	.029196	-.027994	.000585	.030753	.026834	-.012248
59	.029940	-.017281	-.005134	.031396	.026351	-.010249
60	.033097	-.009496	-.014934	.024876	.021008	-.013805

RUN NC 99A 15M 7-3-63 1807-1923(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14461	0.95329	0.62286	0.76525	0.49999	0.32960
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
1	.012860	-.043406	.041106	.013314	-.000910	-.039660
2	.017330	-.056457	.076715	.017293	.005776	-.055095
3	.015283	-.046413	.101154	.024179	.007186	-.046848
4	.014588	-.048268	.117358	.010790	.005056	-.044804
5	.013201	-.046604	.125029	.011779	.004017	-.044262
6	.017391	-.049502	.124963	.014043	.011724	-.038154
7	.014885	-.049378	.123843	.010758	.020892	-.033291
8	.006567	-.045016	.124106	-.000191	.030526	-.040592
9	.006227	-.037159	.121479	-.005297	.039105	-.047475
10	.007165	-.031189	.112287	-.006004	.033512	-.046992
11	.007120	-.029894	.102264	.007252	.023737	-.041456
12	.004811	-.023369	.097844	.019341	.017988	-.042967
13	-.003798	-.016677	.100705	.019445	.013265	-.059245
14	-.017141	-.010933	.102421	.012947	.005931	-.074954
15	-.022696	.000067	.095979	.012759	-.005040	-.080468
16	-.022075	.002953	.090291	.018528	-.016455	-.072546
17	-.022433	.007934	.081820	.025243	-.025952	-.052810
18	-.016207	.016728	.072345	.038010	-.027546	-.026627
19	-.015429	.022985	.061729	.034524	-.021986	-.015497
20	-.021508	.027283	.056934	.010119	-.019125	-.013472
21	-.031865	.026149	.051188	-.008424	-.013352	-.017967
22	-.036654	.027073	.039908	-.013052	-.007872	-.027803
23	-.044148	.025855	.037177	-.020148	-.008218	-.038419
24	-.053706	.019254	.035207	-.031832	-.005794	-.044354
25	-.056633	.010739	.033608	-.033144	.002007	-.039471
26	-.054461	.004316	.027975	-.024140	.001210	-.031951
27	-.051270	.002921	.018462	-.011795	-.002450	-.019951
28	-.044184	.007150	.007882	-.004455	-.000441	-.008046
29	-.029282	.007594	-.010074	-.000043	.000920	.003083
30	-.017314	.002745	-.025341	-.002554	-.001009	.012850
31	-.004285	-.003006	-.032858	-.002815	-.006345	.018003
32	.012229	.000094	-.036625	.002407	-.013637	.025788
33	.023687	.003454	-.038804	.013680	-.014923	.038389
34	.026267	.005539	-.040420	.020733	-.008188	.051330
35	.030584	.004260	-.042333	.018430	-.000547	.049674
36	.034282	.005028	-.048376	.013394	-.002503	.041938
37	.038004	-.002797	-.055975	.012841	-.011340	.047116
38	.040844	-.013664	-.053798	.015467	-.017127	.054051
39	.035517	-.026023	-.049409	.012993	-.011793	.065210
40	.026164	-.032380	-.044167	.005575	-.000910	.068048
41	.018700	-.034649	-.035367	-.017312	.007460	.057322
42	.015776	-.037126	-.030077	-.036077	.018490	.045396
43	.014237	-.031046	-.027026	-.041165	.026793	.028866
44	.018003	-.024626	-.025236	-.025316	.029317	.022477
45	.025298	-.012993	-.032037	-.000924	.021362	.012663
46	.030585	-.006081	-.035947	.017015	.011860	.007292
47	.038467	-.003420	-.033917	.025473	.000733	.007520
48	.042212	.012618	-.031237	.024567	-.006839	.010240
49	.045514	.023097	-.030601	.030757	-.006872	.005347
50	.045640	.030580	-.032543	.026209	-.011205	-.003137
51	.040083	.034640	-.023973	.021874	-.014129	-.010196
52	.033800	.043833	-.014860	.021845	-.018055	-.016762
53	.030604	.053218	-.011151	.017549	-.017151	-.023500
54	.027998	.056907	-.010925	-.000955	-.013528	-.030315
55	.024694	.056412	-.011465	-.013955	-.006141	-.034303
56	.018392	.059507	-.007235	-.029464	.005542	-.034661
57	.008568	.053678	.001008	-.039475	.016236	-.038787
58	-.002964	.040602	.005061	-.043976	.019519	-.043903
59	-.016114	.029235	.009938	-.039727	.020420	-.040283
60	-.028128	.014928	.016710	-.038597	.025247	-.035362

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.18015 10E 01	0.11609 10E 01	0.50446 10E 00	0.21535 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.850384	.779132	.619839	.776231
2	.668186	.523799	.259127	.534923
3	.529864	.337170	.095927	.373792
4	.421316	.205856	.011055	.264399
5	.327535	.111095	-.033234	.186689
6	.241496	.045362	-.044055	.123953
7	.169077	-.001049	-.045611	.072016
8	.106686	-.032010	-.038043	.020617
9	.052592	-.051077	-.055783	-.012199
10	.008468	-.063837	-.065209	-.046316
11	-.026124	-.077435	-.056235	-.078876
12	-.053698	-.096774	-.052665	-.105534
13	-.087602	-.115854	-.043631	-.116813
14	-.122761	-.128193	-.046269	-.133404
15	-.147411	-.130446	-.054304	-.155184
16	-.167774	-.123520	-.058836	-.175889
17	-.187665	-.126637	-.061829	-.190666
18	-.213654	-.141114	-.070409	-.204241
19	-.240633	-.150739	-.071319	-.209973
20	-.262659	-.148756	-.067129	-.204119
21	-.278565	-.150776	-.068746	-.192244
22	-.288380	-.168113	-.073246	-.186378
23	-.291054	-.188047	-.091825	-.180649
24	-.284199	-.191337	-.114982	-.183431
25	-.269867	-.192259	-.122770	-.178607
26	-.253016	-.172563	-.120254	-.169756
27	-.241005	-.142069	-.108148	-.159577
28	-.230854	-.115051	-.074210	-.141687
29	-.207821	-.105619	-.046216	-.132865
30	-.172182	-.085498	-.037203	-.116897
31	-.136097	-.053910	-.025726	-.092004
32	-.107633	-.029175	-.007550	-.063975
33	-.085288	-.006610	.001358	-.037496
34	-.069782	.010657	.003270	-.019237
35	-.064784	.020721	-.016762	.002419
36	-.061269	.013192	-.034076	.017638
37	-.049854	.001284	-.024349	.023603
38	-.030281	.000437	.003425	.030419
39	-.007817	-.009968	.027485	.041767
40	.008418	-.017763	.034116	.051485
41	.010929	-.035111	.017372	.065385
42	-.002755	-.038117	.014263	.082220
43	-.007215	-.035365	.011076	.093805
44	-.003629	-.025187	.013581	.098135
45	.000561	-.016842	.008738	.095708
46	.010413	.002595	.011536	.090856
47	.020410	.019906	.016483	.074510
48	.027612	.029558	.025759	.064540
49	.035597	.032605	.039970	.057233
50	.041266	.039745	.037541	.049584
51	.041421	.040324	.012557	.051024
52	.042204	.042051	-.004773	.043859
53	.044061	.035970	-.013393	.026851
54	.051479	.029040	-.013601	-.000125
55	.068064	.019043	-.020867	-.024853
56	.077870	.003589	-.020969	-.027065
57	.084684	-.000824	.002446	-.041668
58	.085118	-.009178	.015986	-.054935
59	.081545	-.006777	.000793	-.058017
60	.076426	.002937	-.004972	-.050770

RUN NC   99A   15M   7-3-63   1807-1923(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
0	-.022035	-.039510	.033179	.006528	-.010712	-.006554
1	-.206328	-.446611	.315744	.101262	-.144619	-.080117
2	-.268293	-.524653	.437499	.124201	-.234108	-.121825
3	-.172909	-.434641	.441666	.077657	-.267185	-.138434
4	.076935	-.232646	.220607	-.005195	-.158740	-.089539
5	.158145	-.189301	.101010	-.039019	-.087395	-.059474
6	.112590	-.204011	.082604	-.067623	-.069625	-.057008
7-8	-.003835	-.200478	.072310	-.058732	-.059263	-.052810
9-11	.032542	-.129077	.035713	-.026212	-.054554	-.027434
12-15	.017892	-.076273	.004842	-.021125	-.040113	-.017543
16-2C	.006540	-.037334	.002506	-.005009	-.015226	-.017875
21-27	-.003454	-.019765	.003760	-.003485	-.015511	-.006361
28-36	.000247	-.011777	-.000051	-.003947	-.007817	-.006126
37-47	-.000504	-.004298	-.000686	.000893	-.003350	-.003499
48-6C	.001209	-.001308	.000060	-.000150	-.003727	-.001284

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-03	10E-03
1	-.152210	-.029353	.265995	.292974	-.061535	-.645198
2	-.125100	-.046879	.314066	.309668	.086578	-.897569
3	.091030	-.123881	.260822	.431784	.317187	-.627397
4	.191047	-.167883	.125680	.306702	.379428	-.074330
5	.057162	-.110367	.084326	-.070399	.303438	-.122140
6	-.035313	-.077529	.081452	-.388775	.200613	-.160758
7-8	.053124	-.022373	.044589	.304459	-.207830	-.003290
9-11	-.009401	-.034779	.031432	.220871	-.114591	-.237310
12-15	.024237	-.019298	.004459	.090703	.037454	-.019004
16-2C	-.001834	-.019490	.005509	-.042728	.047755	-.108020
21-27	.012690	-.014985	-.002337	.078758	-.028942	-.021459
28-36	-.001628	-.007903	.001257	-.031553	-.013707	-.025437
37-47	.003139	-.001631	-.000514	.018130	-.003423	.003759
48-60	-.001626	.003302	-.000180	.036581	-.006196	.004159

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.024401	.006363	.016315	.018803
1	.255790	.089321	.207180	.180670
2	.319463	.125585	.301315	.267384
3	.311658	.142035	.347895	.309611
4	.184617	.106226	.263037	.205612
5	.102388	.072317	.220945	.137477
6	.088680	.069551	.250172	.119829
7-8	.080141	.067735	.262981	.092846
9-11	.044049	.041758	.201698	.070484
12-15	.027211	.029285	.165126	.044250
16-2C	.017164	.016447	.130027	.033241
21-27	.011823	.011681	.086057	.022306
28-36	.007744	.007220	.065967	.013417
37-47	.004581	.004532	.042321	.009183
48-60	.003118	.003156	.023924	.006293

hi

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10894	0.56238	0.60427	0.30655	0.32939	0.17003
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.101411	-.488332	.519064	.095247	-.253998	-.357527
1	-.120044	-.212230	.334130	.104053	-.082265	-.099029
2	-.036766	-.027081	.153186	-.023795	.046733	.028003
3	-.006193	.046774	.079735	-.037334	.036347	.033880
4	-.023319	.096945	.042025	-.030237	.023669	.021802
5	-.000298	.071075	-.012562	.006648	.040348	.029751
6	.066851	.061609	-.102495	.008545	.057877	.067003
7	.061895	.085562	-.160753	-.067453	.060457	.082764
8	.063982	.104345	-.176879	-.039292	.033567	.081458
9	.057988	.045260	-.158059	.037234	.034607	.010463
10	.067893	.023844	-.145181	.010182	.024314	-.010816
11	-.018935	.035625	-.101998	-.014398	.026304	.007889
12	-.038916	.011522	-.070123	-.026145	-.007153	-.019053
13	-.048774	-.008068	-.092824	.045944	-.071749	-.022300
14	-.058680	-.027949	-.062436	.001174	-.048724	-.060169
15	-.017593	-.016991	-.009725	-.017910	-.069178	.037957
16	.068631	.027495	-.043553	-.066064	-.016347	.069925
17	.014196	-.025761	-.027021	-.029388	.030747	-.007482
18	-.024563	-.015209	.001879	.074591	-.021028	.009519
19	-.007613	-.007677	.043905	.055091	-.039598	.000532
20	-.052190	-.022047	.047519	.046343	-.017646	.041371
21	-.026429	-.009180	.013992	.037643	.034532	.023656
22	.012813	.034069	.039407	-.038967	.002296	.032401
23	.007322	.061444	.022789	-.035983	-.012028	.061277
24	.039572	.059421	.030033	-.026395	-.023620	-.008319
25	.047833	.040121	.071485	.004605	-.039174	-.032994
26	.043913	-.009071	.069847	.011233	.008566	-.065295
27	.035566	-.065070	.043462	-.037898	.020832	-.005807
28	.022862	-.052307	.019012	-.006491	.003489	-.024437
29	-.037701	-.077147	.024603	.033683	-.010057	-.073786
30	-.038414	-.076564	.039198	-.010676	-.016047	-.042515

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-03	10E-03
0	-.021795	.000634	.008537	.021253	.004487	.029428
1	-.094108	-.063469	.230605	.069851	.183124	-.092493
2	-.115374	-.125608	.429825	.145052	-.002349	-.208032
3	-.252579	-.235058	.563965	.325865	-.544492	-.322308
4	-.320134	-.292329	.441601	.309976	-.950026	-.534950
5	-.253534	-.249210	.283033	.347211	-.793135	-.575769
6	-.097447	-.213598	.168712	.505523	-.397900	-.407213
7	.085669	-.175984	.090624	.251157	-.321123	-.230952
8	.034776	-.156317	.065227	.088922	-.500743	-.146713
9-11	-.074317	-.152558	.109901	.310589	-.424298	-.286427
12-14	-.068516	-.112890	.107893	.480509	-.570281	-.408953
15-21	.008884	-.067041	.054778	-.048781	-.337979	-.210160
22-30	.047393	-.054651	.026590	-.197960	-.158666	-.171318

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10894	0.56238	0.60427	0.30655	0.32939	0.17003
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.003177	-.024802	.161813	.010183	.038471	-.111873
2	-.018668	.036894	.171112	-.000271	-.010194	-.133943
3	-.003667	.058891	.125270	-.040495	-.000069	-.068991
4	.021203	-.003525	.107624	-.056015	.009084	-.027941
5	.050541	.028370	.103733	-.014059	-.030748	-.083534
6	.001040	.021413	.103614	-.082863	.002085	-.088524
7	-.059528	-.070657	.098297	-.049049	-.015331	-.037250
8	-.049117	-.060507	.091392	.026473	.006694	-.000517
9	-.094411	.028815	.042119	-.039488	.076476	-.001844
10	-.084741	.036198	-.015558	.008804	.107728	.001777
11	-.013829	.059246	-.025066	.008653	.066370	.014421
12	-.005200	.043513	-.036097	-.006613	.049340	.041106
13	-.010330	.008120	-.068338	-.006163	.036029	.021008
14	.064686	.039938	-.106251	.057713	.007296	-.014451
15	.033261	-.001815	-.093377	.012551	-.005320	.025024
16	-.032033	-.034038	-.053126	-.028410	.015591	.047724
17	-.005021	-.032035	-.041096	.012003	.025627	.031776
18	.012513	-.022737	-.017645	-.025283	.009494	-.016294
19	.038896	-.051047	.020951	.010503	-.043439	.021932
20	.064211	-.013361	.019809	.003792	-.024451	.043221
21	.050460	.035586	.022733	-.000517	-.085678	-.007421
22	.068122	-.002789	.038735	.021764	-.139612	.003621
23	.067794	.026471	.047790	.043283	-.141546	.010114
24	.040248	.063909	.036302	.046985	-.122103	-.000829
25	-.056711	-.013132	.052285	-.034069	-.051077	-.061447
26	-.095642	-.055513	.051526	-.046174	-.046641	-.015116
27	-.094835	-.007313	.047122	-.016784	-.005125	.005653
28	-.039020	-.018998	.046621	.008059	.050480	-.024967
29	-.001591	.013086	.023869	-.012195	.017302	-.015661
30	.038388	.078347	-.015864	-.024628	-.025020	-.049954

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E 02	10E-02	10E-03	10E-03
1	-.103611	.035936	.108717	-.286306	.549163	-.159782
2	-.162131	.031685	.213869	-.384464	.551574	-.343432
3	-.042066	.006462	.353802	-.432930	-.258223	-.504396
4	.132972	-.021196	.251808	-.333719	-.484004	-.423148
5	.144436	.036090	.082734	-.105938	-.157642	-.307951
6	.118859	.105670	.059178	.117093	.010821	-.204041
7	-.066693	.065440	.097183	.082620	.465373	-.128311
8	-.190205	.003327	.100956	.120380	.376153	-.120224
9-11	-.061688	-.044725	.099165	.121015	-.082152	-.197989
12-14	.021057	.016775	.046595	.038979	.105723	-.257793
15-21	.001786	-.048366	.029292	.011726	.140269	.018053
22-30	.020970	.012419	.004006	.020505	.030228	-.013138

301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.19986	0.59385	0.15824	0.18270
	10E 01	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.540519	.223354	.164777	.514099
2	.183324	-.092612	-.073869	.264810
3	.048927	-.077636	-.099423	.195296
4	-.051391	-.165990	-.093540	.150827
5	-.119974	-.095773	-.135707	.056345
6	-.139060	-.034049	-.111952	-.076758
7	-.240547	-.012446	-.022064	-.134233
8	-.294773	.027187	-.093193	-.118362
9	-.254061	-.060777	-.022108	-.160609
10	-.191330	-.094398	.004328	-.199052
11	-.187590	-.137287	-.032415	-.225770
12	-.165882	-.127156	-.007163	-.152907
13	-.140526	.071461	.012958	-.208002
14	-.037372	.132986	.019424	-.184214
15	.131005	.078444	-.038398	-.168250
16	.135493	.020250	-.086295	-.151521
17	.082693	-.061174	-.002450	-.047274
18	.111663	.037090	-.007203	-.058443
19	.131420	.055232	.070770	-.026039
20	.090176	-.048573	.078606	-.062358
21	.063744	-.102255	.040678	-.064650
22	.025539	-.113971	-.011262	.029144
23	-.080844	-.130130	-.008897	.060336
24	-.099216	-.009703	-.054111	.091976
25	-.056368	-.008326	-.077334	.141030
26	-.014468	.053811	-.001659	.120433
27	.014097	.037777	.043453	.055764
28	-.000961	.015398	.047092	.046069
29	-.006129	-.037089	.123449	.052285
30	.037601	-.029132	.017394	.044732

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.005780	.018280	.001734	.025838
1	.077278	.157546	.023197	.227434
2	.170762	.177067	.042546	.270864
3	.306014	.289948	.072133	.253211
4	.274679	.379882	.064499	.154743
5	.145245	.272966	.095639	.101703
6	.107572	.240340	.104743	.078122
7	.111609	.382586	.083485	.070596
8	.097904	.475676	.075966	.051056
9-11	.083250	.299906	.075004	.051981
12-14	.064472	.268681	.069799	.063748
15-21	.047079	.237336	.068465	.044317
22-30	.027338	.209812	.063749	.036648

GROSS STATISTICS

2 AC AS	WIND SPEED	7.89 M/SEC	SIGMA A 10.1 DEG
TRANSITIONAL	WIND DIRECTION	327 DEG	SIGMA E 6.1 DEG
	SOLAR RAD.	0.06 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.30855E 01	0.22884E 01	0.12931E 01	0.17359E 01
V	0.18141E 01	0.13752E 01	0.12476E 01	0.66361E 00
W	0.64605E 00	0.63818E 00	0.55696E 00	0.26711E-00
T	0.42948E-00	0.41312E-02	0.29901E-02	0.28079E-02
E	0.27728E 01	0.21509E 01	0.15488E 01	
GUSTINESS RATIOS				
U	0.22263	0.19173	0.14412	0.16699
V	0.17071	0.14863	0.14157	0.10325
W	0.10187	0.10125	0.09459	0.06550
COVARIANCES				
U,V	-0.14492E-00	0.61406E-02	0.81508E-01	-0.19918E-01
U,W	-0.62041E 00	-0.58540E 00	-0.36583E-00	-0.39903E-00
U,T	-0.17740E-00	0.62802E-01	0.34730E-01	0.51833E-01
V,W	0.15830E-01	0.22417E-02	-0.19577E-01	0.81950E-02
V,T	-0.20941E-00	0.34588E-02	0.45674E-02	0.74510E-03
W,T	-0.19203E-01	-0.26451E-01	-0.20353E-01	-0.15651E-01
WE	-0.16253E-01	0.16942E-00	0.15418E-00	
NORMALIZED COVARIANCES				
U,V	-0.06125	0.00346	0.06417	-0.01856
U,W	-0.43942	-0.48441	-0.43108	-0.58600
U,T	-0.15411	0.64590	0.55853	0.74242
V,W	0.01462	0.00239	-0.02348	0.01946
V,T	-0.23724	0.04589	0.07478	0.01726
W,T	-0.03646	-0.51515	-0.49875	-0.57147

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12700	0.84862	0.62170	0.83364	0.61073	0.40808
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
0	.064186	-.431088	.558414	-.023215	.074664	-.498764
1	.058533	-.376826	.530600	-.022821	.062262	-.415722
2	.053760	-.295373	.472425	-.022377	.050805	-.301177
3	.047218	-.225929	.407207	-.019876	.037163	-.215599
4	.039464	-.163499	.343400	-.015937	.024317	-.150139
5	.032148	-.107936	.285214	-.008859	.017753	-.105045
6	.024476	-.068274	.235486	-.009802	.014460	-.080564
7	.019936	-.042419	.195375	-.016670	.012924	-.058455
8	.017459	-.026681	.157980	-.017449	.011493	-.038110
9	.012745	-.012273	.119348	-.013185	.008207	-.021627
10	.006546	-.001360	.081273	-.008435	.001079	-.010301
11	-.001429	.005884	.046574	-.002920	.000522	-.004232
12	-.009528	.014716	.014852	.003472	.013310	.002385
13	-.019502	.021593	-.015485	.011436	.020199	.018031
14	-.026359	.029693	-.044026	.015600	.009847	.041439
15	-.029655	.044226	-.074682	.015431	-.009205	.067318
16	-.028105	.056820	-.101998	.012868	-.017959	.090551
17	-.027996	.073594	-.126472	.017752	-.023330	.111915
18	-.028866	.085204	-.146893	.024561	-.030168	.120208
19	-.033487	.094701	-.164656	.040445	-.039488	.125539
20	-.043729	.101475	-.180564	.052263	-.050685	.136734
21	-.049673	.111871	-.197500	.056035	-.053017	.151873
22	-.047128	.118050	-.208499	.047672	-.046519	.150568
23	-.039344	.123374	-.215665	.034033	-.035913	.149563
24	-.028546	.127468	-.219807	.014345	-.027359	.158585
25	-.019226	.132718	-.220134	-.006515	-.021243	.160788
26	-.017661	.129915	-.213260	-.009652	-.016680	.152568
27	-.021862	.114568	-.204549	-.011842	-.015935	.134239
28	-.024259	.098770	-.190330	-.011828	-.016880	.108699
29	-.023015	.084523	-.172493	-.007919	-.021117	.074522
30	-.022612	.066849	-.154200	.003339	-.026315	.041857
31	-.022997	.044985	-.137003	.012082	-.030721	.024797
32	-.019906	.026681	-.120805	.006007	-.026921	.019689
33	-.012822	.009713	-.107841	-.002104	-.015230	.016514
34	-.006516	-.007443	-.092616	-.010802	-.006693	.003105
35	-.004137	-.017395	-.077961	-.011094	-.008254	-.012763
36	-.000571	-.019447	-.064747	-.012935	-.010167	-.015464
37	.008339	-.012349	-.057716	-.016111	-.007707	-.012657
38	.017223	.000659	-.057190	-.020408	-.001124	-.011478
39	.020042	.008433	-.052965	-.014711	.002990	-.015416
40	.024223	.004900	-.040349	-.008463	.011978	-.026571
41	.025973	-.006532	-.026237	-.007557	.018977	-.043320
42	.028361	-.021639	-.014242	-.010851	.022471	-.057449
43	.037062	-.032565	-.003217	-.019874	.028166	-.068165
44	.045444	-.040534	.001273	-.034219	.031320	-.074525
45	.052607	-.046155	.005402	-.037913	.032706	-.081503
46	.054493	-.050265	.014888	-.028401	.030427	-.080960
47	.048590	-.045944	.025698	-.019879	.028711	-.071848
48	.039018	-.035008	.029164	-.018123	.028426	-.062036
49	.036489	-.022728	.024697	-.017363	.028774	-.048221
50	.033858	-.017401	.019293	-.016637	.029180	-.033584
51	.027937	-.006645	.014339	-.009447	.024731	-.021670
52	.021865	.006147	.010596	.000905	.020876	-.015305
53	.010972	.012778	.003103	.014873	.016028	-.010685
54	-.004657	.016355	-.001197	.025914	.013928	-.003614
55	-.016666	.024211	-.005608	.026644	.015995	.010998
56	-.022715	.036385	-.010991	.014145	.016653	.026270
57	-.022173	.046771	-.011275	-.000008	.021426	.039950
58	-.024864	.044638	-.006248	-.000881	.018246	.049124
59	-.028626	.040991	-.006138	-.007107	.013484	.054795
60	-.034127	.044217	-.010868	-.006691	.003491	.059930

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12700	0.84862	0.62170	0.83364	0.61073	0.40808
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.008663	-.007792	.025311	.009943	.003918	-.006333
2	-.017764	-.014555	.046182	.013145	.009599	-.016402
3	-.019240	-.019488	.057127	.020529	.011527	-.028720
4	-.019509	-.013645	.059892	.024048	.014862	-.037406
5	-.024797	-.012693	.063974	.015610	.021842	-.041184
6	-.027472	-.006389	.060488	.000609	.028775	-.032260
7	-.023798	.001960	.058673	-.003737	.035023	-.028075
8	-.019390	.005694	.059502	.005483	.038840	-.028574
9	-.014246	.011190	.056972	.003163	.043425	-.028456
10	-.009003	.014766	.052693	-.006398	.050667	-.025746
11	-.005857	.021911	.046849	-.002823	.050369	-.020476
12	-.004510	.024821	.043070	.005282	.039793	-.013293
13	.000783	.024701	.041647	.019409	.023457	-.010913
14	.007863	.019132	.038696	.024750	.012206	-.008941
15	.008993	.014798	.034363	.019120	.003975	-.012042
16	.008830	.011948	.033523	.017249	.003803	-.020701
17	.004817	.004667	.035057	.010080	.005028	-.020489
18	.003765	-.005049	.030990	-.012625	.010313	-.010749
19	.003321	-.014398	.027799	-.036693	.019647	-.001138
20	.002184	-.017936	.025227	-.040085	.024987	.002109
21	-.000571	-.012012	.019167	-.031636	.028966	-.002568
22	-.002095	-.004364	.007908	-.019882	.027885	-.004359
23	-.005317	.000842	-.002461	-.011314	.016031	-.006783
24	-.002518	.007173	-.007983	-.001758	.004950	-.003588
25	.008647	.018586	-.014241	.003833	-.001736	-.006501
26	.025298	.022112	-.018332	.008762	.002490	-.011473
27	.042224	.011848	-.014964	.015037	.004402	-.013960
28	.051503	.006526	-.009867	.020842	-.000247	-.012159
29	.050736	.000369	-.006193	.027403	-.010485	-.009399
30	.050335	-.008642	-.002193	.029393	-.022065	-.009361
31	.047145	-.010784	-.000310	.029701	-.028284	-.001873
32	.041463	-.008869	-.000816	.023442	-.026639	.008903
33	.039326	-.008238	-.000822	.018314	-.024956	.015757
34	.040634	-.008149	.001725	.018401	-.024932	.015299
35	.034336	-.014677	.008900	.024167	-.028989	.012000
36	.023057	-.021874	.014152	.017294	-.026344	.009858
37	.010528	-.023641	.017426	-.000282	-.018423	.010429
38	.001913	-.029735	.020735	-.010957	-.010147	.004566
39	-.001905	-.030594	.022843	-.011956	-.005694	.005166
40	-.001656	-.030828	.022522	-.006463	-.011285	.011945
41	.002007	-.031047	.019495	.000254	-.016753	.012554
42	.010527	-.027073	.012412	.012804	-.021269	.003518
43	.017687	-.018717	.003940	.018829	-.024403	.001034
44	.014202	-.013345	.001034	.021204	-.025517	-.000836
45	.007391	-.012453	.003891	.021857	-.027843	.002621
46	.008671	-.020662	.007211	.023611	-.032842	.008913
47	.008346	-.025397	.007896	.027145	-.037862	.017217
48	.004322	-.025752	.003094	.025910	-.036173	.023603
49	.001529	-.028337	-.000300	.009073	-.030400	.029721
50	-.007347	-.027503	-.003558	-.012899	-.024217	.031639
51	-.017371	-.023147	-.005849	-.029754	-.017229	.030111
52	-.028461	-.016315	-.006796	-.042625	-.008151	.031863
53	-.037568	-.001731	-.013799	-.048338	.006923	.033352
54	-.043985	.010370	-.020545	-.047615	.018924	.027355
55	-.046578	.010238	-.026363	-.046858	.029481	.020834
56	-.044664	.015122	-.033514	-.048730	.031493	.019580
57	-.042470	.026310	-.037995	-.049675	.030862	.019644
58	-.038848	.031131	-.040498	-.044145	.026546	.009302
59	-.027077	.033341	-.041990	-.037033	.021972	-.004409
60	-.013610	.039031	-.043595	-.023357	.014885	-.014580

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12928	0.12476	0.55704	0.29896
	10E 01	10E 01	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.869282	.794456	.725975	.836168
2	.708518	.552371	.430270	.654722
3	.581974	.380891	.247736	.525590
4	.472407	.246962	.131993	.422986
5	.380301	.146258	.051555	.342278
6	.302266	.066851	.002738	.275753
7	.238559	.009526	-.026286	.212643
8	.181163	-.042929	-.052847	.150190
9	.121827	-.090409	-.066169	.102665
10	.063553	-.125707	-.068955	.061981
11	.010303	-.146249	-.060935	.026911
12	-.038023	-.146953	-.055845	-.017021
13	-.079949	-.146107	-.067140	-.065411
14	-.112695	-.150183	-.089838	-.111944
15	-.139069	-.159103	-.110415	-.153527
16	-.162794	-.168764	-.125916	-.191927
17	-.191567	-.167714	-.136256	-.232289
18	-.213832	-.150178	-.149652	-.262519
19	-.226907	-.144212	-.151715	-.285520
20	-.243828	-.142423	-.159677	-.303321
21	-.262727	-.162173	-.167580	-.315034
22	-.275798	-.179887	-.156859	-.316014
23	-.288052	-.184297	-.150327	-.323302
24	-.291792	-.186093	-.154206	-.332277
25	-.292216	-.182304	-.178343	-.325751
26	-.286913	-.168222	-.189244	-.306072
27	-.275415	-.151620	-.171521	-.285309
28	-.261622	-.137473	-.135504	-.260636
29	-.246482	-.116470	-.100997	-.226450
30	-.220668	-.091359	-.055821	-.184747
31	-.177735	-.055234	-.015066	-.151216
32	-.140524	-.027808	.007989	-.125610
33	-.111828	-.005343	.017693	-.099335
34	-.085087	.011039	.036064	-.073712
35	-.062301	.021021	.051063	-.045087
36	-.048568	.032684	.051042	-.028593
37	-.047824	.033173	.044644	-.012421
38	-.050046	.032222	.032756	-.000355
39	-.044544	.033491	.020919	.011151
40	-.031992	.033360	.030059	.026431
41	-.026354	.029514	.045382	.047280
42	-.022478	.034701	.064978	.068641
43	-.014049	.045063	.071127	.074362
44	.000049	.039667	.065886	.075323
45	.013318	.034964	.066217	.075173
46	.018954	.034806	.066915	.070132
47	.021603	.035369	.058155	.064446
48	.025226	.028674	.052546	.057688
49	.022299	.028305	.045350	.047546
50	.022456	.041111	.037907	.040240
51	.018434	.052304	.026009	.035224
52	.010014	.055105	.025420	.030049
53	.000404	.050777	.034166	.025348
54	-.009427	.034310	.044442	.019477
55	-.017556	.017653	.030553	.013440
56	-.021931	.009931	.002408	.009669
57	-.026187	.016589	-.022548	.005310
58	-.029732	.016582	-.038006	-.006773
59	-.030759	.008997	-.030209	-.020457
60	-.027744	.001828	-.025560	-.029897

RUN NC   99A   46M   7-3-63   1807-1923(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-03	10E-02
0	-.000754	-.060443	.092056	.002700	.000713	-.023162
1	.069793	-.476737	.800053	.001335	.480477	-.214773
2	.212191	-.601148	.880453	-.057980	.995592	-.317935
3	.256947	-.620751	.745636	-.104875	.974286	-.349071
4	.107566	-.342357	.356742	-.054844	.303245	-.181585
5	.051513	-.179129	.158253	.004622	.069616	-.077528
6	.021695	-.199076	.124270	.038683	-.002386	-.077056
7-8	.004389	-.221128	.114696	.007774	.203721	-.106100
9-11	.011946	-.123989	.059899	-.006830	.272677	-.073390
12-15	.018745	-.056638	.032000	-.013553	.035237	-.039568
16-2C	-.005073	-.031193	.014489	.005474	.091792	-.031271
21-27	.000338	-.017336	.003761	.004145	-.012883	-.013585
28-36	.001724	-.013435	.003177	-.002445	.010345	-.008727
37-47	.001850	-.006467	.000888	.000667	.021169	-.005989
48-60	.001610	-.003093	.000561	-.000464	.015383	-.002673

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-03	10E-03
1	.131592	-.048008	.127096	.384742	.446218	-.337126
2	-.036954	.437871	.112745	-.019129	.871437	-.402111
3	-.131654	.192875	.124929	.029892	.731604	-.323662
4	-.055834	-.082083	.099573	.460595	.292186	-.250217
5	-.009338	.026113	.041070	.464492	.191183	-.243826
6	-.064286	-.207124	.023937	-.000853	.241903	-.227954
7-8	-.065106	-.591161	.038710	-.231025	-.002998	-.078647
9-11	.008003	-.043421	.012873	.497542	-.231260	-.080619
12-15	.000202	-.082034	.009379	-.047739	.103604	.013891
16-2C	-.002522	-.019999	.004048	.055827	-.025305	.019522
21-27	-.006643	.001396	.000178	-.089941	.019751	.026790
28-36	.001331	.015360	.000653	.072237	-.010918	-.009490
37-47	.002583	.009366	-.001275	.008881	-.005580	.005245
48-60	-.000107	-.016741	.000759	.003361	-.003970	-.005957

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.026810	.005480	.021842	.041468
1	.225437	.084884	.292739	.432561
2	.254042	.137357	.504604	.566795
3	.232669	.168769	.631438	.558444
4	.129294	.126763	.428251	.287455
5	.070031	.091926	.276724	.128069
6	.061170	.088989	.301421	.112884
7-8	.047656	.071876	.319996	.110348
9-11	.026866	.038951	.237366	.077044
12-15	.019187	.025968	.140127	.044019
16-2C	.010626	.019185	.108737	.032360
21-27	.006767	.010227	.067319	.021250
28-36	.004662	.007440	.047019	.013535
37-47	.003109	.004733	.028512	.009782
48-6C	.001854	.002874	.019409	.006142

RUN NC 99A 46M 7-3-63 1807-1923(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10740	0.68134	0.69847	0.42119	0.43179	0.27391
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.018545	-.585663	.742084	.019457	.017256	-.571375
1	-.037193	-.346906	.467250	.040595	-.017191	-.267509
2	-.088338	-.149140	.140107	.088862	-.076515	-.017798
3	-.057301	-.032511	-.037971	.012568	-.047925	.034503
4	-.043287	.034771	-.129230	-.003644	-.028546	.057300
5	-.010602	.111152	-.159660	-.007990	.009401	.099298
6	-.026751	.201286	-.163668	-.018467	-.009573	.197445
7	.009323	.176688	-.123945	.016253	-.019219	.162735
8	.079184	.131186	-.059772	-.048558	.037182	.054010
9	.072714	.139271	-.048960	-.070536	.046707	-.005743
10	.061766	.160115	-.102178	-.056799	.066386	.036683
11	.059271	.124088	-.085197	-.052859	.061393	.086762
12	.016626	.024969	-.044829	.011313	.009677	.012563
13	.027157	-.033267	-.048788	-.016787	.003485	-.055932
14	-.027774	-.052648	-.045506	.038963	-.033143	-.095574
15	-.012282	-.011720	-.027686	.008880	-.042202	-.025388
16	.053068	-.057890	.013770	-.059755	.045656	-.027006
17	.064242	-.139419	.059659	.009816	.044245	-.074690
18	-.001260	-.061108	.042888	.008773	.015569	-.013310
19	-.051986	-.053282	.035080	.112287	-.033049	-.009854
20	-.078205	-.052927	-.005770	.039642	-.007963	.005688
21	-.077712	.016652	-.075624	.008609	-.024988	.035592
22	-.033823	.043359	-.093991	.037633	-.008322	.075302
23	.013373	.014174	-.050874	.000838	.017203	.061505
24	.009321	.019301	.011133	.013064	.013157	.013945
25	.032462	.001115	.077933	-.037729	.030567	-.016365
26	.016463	.023021	.115388	-.009451	-.009601	-.055345
27	.050878	.019622	.095927	-.035201	.000497	-.043968
28	.099359	.076033	.001526	-.040736	.024015	.008498
29	.012959	.085316	-.053602	-.037055	.012839	.028895
30	.015384	.078183	-.093883	-.036748	.034749	.070074

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-03	10E-02
0	-.014085	-.016045	.027048	.017154	-.020655	-.004752
1	-.125098	-.131224	.270925	.097305	-.382805	-.031915
2	-.218232	-.299195	.401337	.462406	-.573894	-.057457
3	-.288439	-.624916	.582181	.924428	-.694951	-.137511
4	-.129034	-.671023	.620565	.588424	-.407621	-.198459
5	-.003001	-.423293	.518521	.151989	.039769	-.165603
6	.071923	-.267392	.498605	.005216	.399510	-.124395
7	.174556	-.230995	.514455	-.209943	.472662	-.115594
8	.060908	-.184050	.360753	.001914	-.005406	-.089776
9-11	.006824	-.118356	.221363	.076841	.175364	-.041632
12-14	.061065	-.124082	.149115	-.343983	.368153	-.097101
15-21	.015290	-.067896	.082701	-.183561	.069681	-.038966
22-3C	-.004946	-.057727	.038174	.097429	.002325	-.024893

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301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10740	0.68134	0.69847	0.42119	0.43179	0.27391
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
1	.041009	-.010548	.072374	.074923	.035246	-.033220
2	.052783	-.048645	.066623	.014049	.016992	-.004550
3	.104626	-.046461	.067401	.090798	-.021631	-.014212
4	.054723	-.085029	.065778	.036783	-.030000	.021082
5	.008692	-.064036	.029106	-.001884	-.019526	.043909
6	-.014673	.005339	-.003622	-.012108	.032435	-.007144
7	-.025557	-.014319	.015978	.023702	.010500	-.031793
8	-.024282	-.036777	.039091	.027274	.062587	-.016143
9	-.028381	-.013628	.025762	-.029385	.055445	.025136
10	-.009327	.035605	-.017016	-.052695	.013948	-.015226
11	-.049944	.045153	-.018056	-.044980	.025033	-.039921
12	-.055050	.056188	.015127	-.056110	.035273	-.049626
13	.008182	.009120	.029228	-.010712	-.034794	-.016738
14	.052013	.033481	.014280	.034347	-.100034	-.030867
15	.033780	.016945	-.008118	.009858	-.070422	-.012333
16	-.074166	.041619	-.040469	-.070540	-.038780	-.004989
17	-.032203	.033471	-.055862	-.031363	-.021855	-.002155
18	.004542	.018553	-.023352	.013045	.004262	-.009429
19	-.012636	.001061	-.011657	.043239	.023324	.029780
20	-.019119	.025478	-.007390	.015334	.052788	-.002023
21	-.000325	-.018584	-.009635	.009015	-.003012	.044508
22	.044595	-.022964	-.015322	.031679	-.049077	.051371
23	.066805	-.032873	.016639	.054970	-.031719	.036877
24	.052725	-.041983	.024564	.064042	.012685	.009598
25	.045423	-.012465	.027149	.035034	-.000070	-.010301
26	.010566	-.001301	.008794	.030377	-.029707	-.024108
27	-.004657	.000594	.028300	-.040355	.012907	.003533
28	-.035387	-.013738	.056010	-.015121	.049243	-.030185
29	-.030548	-.004478	.041392	-.075870	.028854	-.031277
30	-.022116	-.017529	.026742	-.059802	.012478	-.013117

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-03	10E-03
1	-.049273	.019402	.065201	-.151182	.048505	-.232213
2	.006238	-.062379	.105571	.012453	.374962	-.140081
3	.129759	-.155097	.122845	.601284	.437216	.141578
4	.176204	-.126796	.077856	.733779	-.167834	.188816
5	.217569	-.062533	.086691	.506597	-.768584	-.036493
6	.206811	-.032957	.102315	.369544	-.405915	-.077931
7	.078273	-.003329	.064233	.121175	.374545	-.087373
8	.056944	-.010957	.038076	.138855	.324963	-.068898
9-11	.036308	.001534	.055931	.411195	.312163	-.192963
12-14	-.034671	.044718	-.021060	-.189164	.130675	-.044567
15-21	-.010242	-.014233	.031877	.162037	.073456	-.018854
22-30	.035767	.016424	.005569	.360348	-.013494	-.051621

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.17374	0.66397	0.26719	0.28080
	10E 01	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.613645	.115356	.259381	.500274
2	.267597	-.017671	.035156	.050496
3	.043041	-.081179	-.015208	-.102761
4	-.090269	-.052311	.027846	-.131384
5	-.172733	-.034391	-.060922	-.140054
6	-.223657	-.071175	-.182376	-.142185
7	-.197565	-.056492	-.217015	-.101653
8	-.184504	-.090120	-.178916	-.005545
9	-.175977	-.100076	-.199285	.021879
10	-.233869	-.050348	-.119230	-.079771
11	-.199845	-.123064	-.103316	-.098620
12	-.146458	.017617	-.044595	-.049182
13	-.133252	-.038009	.021305	-.061610
14	-.084718	-.016966	.073109	-.072481
15	-.024327	-.002206	.012971	-.058906
16	.042362	.070147	.047317	-.022463
17	.120472	.023742	.110245	.042423
18	.105047	.025735	.031343	.013777
19	.117447	.054773	.058983	.023414
20	.104762	.063892	-.000477	-.027477
21	.018237	-.007820	.010181	-.071959
22	.007567	-.016875	.030503	-.106876
23	.010873	-.027291	-.011442	-.045165
24	.041883	.008326	-.018845	.022824
25	.075166	.009737	-.035658	.112562
26	.088216	-.053951	-.027506	.155340
27	.032361	-.067787	-.015116	.168638
28	-.083255	-.137014	-.048858	.053467
29	-.110315	-.053863	.009226	-.036481
30	-.135229	.005653	-.058783	-.111849

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.007789	.020265	.004248	.020030
1	.085662	.140440	.055270	.147869
2	.171685	.230289	.129943	.180111
3	.268167	.400992	.257687	.218678
4	.227994	.391851	.275384	.227360
5	.148572	.281414	.181314	.219095
6	.135255	.263997	.105043	.240148
7	.136170	.287103	.080274	.261210
8	.098949	.293390	.082360	.197453
9-11	.061234	.315757	.103315	.134860
12-14	.041551	.281670	.131920	.122577
15-21	.028836	.258922	.090894	.067512
22-3C	.021071	.337374	.101322	.037013

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RUN NC    99A    15M    7-3-63    1807-1923(EST)
RUN NC    99A    46M    7-3-63    1807-1923(EST)
   61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.672709	.211053	.197638	.376018
1	.556387	.548894	.258552	.377962
2	.452955	.501038	.342595	.444685
3	.336419	.466147	.365882	.482869
4	.180854	.498475	.310780	.343608
5	.035802	.488070	.307003	.100325
6	.036089	.315788	.347964	.134006
7-8	.095860	.191960	.216004	.147579
9-11	.047808	.223648	.191085	.139832
12-15	.090789	.204845	.103447	.134287
16-20	.087512	.090280	.063153	.073531
21-27	.109260	.132687	.071213	.093336
28-36	.114692	.060183	.152076	.079881
37-47	.114032	.078691	.097667	.083279
48-60	.131518	.109023	.073419	.078508

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.854845	.652535	.293738	.676655
1	.776635	.477153	.253469	.680214
2	.790824	.307220	.229485	.696755
3	.801083	.422105	.256017	.701478
4	.762286	.576501	.348150	.680879
5	.699588	.557918	.358734	.625060
6	.672640	.347394	.286158	.446003
7	.676704	.302838	.219649	.537005
8	.696056	.490759	.266682	.605117
9-11	.424661	.639834	.330270	.289808
12-14	.491960	.423815	.489280	.620272
15-21	.256990	.402621	.387453	.339533
22-30	.208087	.261150	.409371	.245416

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RUN NO 100A 15M 7-3-63 2124-2224(EST)

GROSS STATISTICS

1 AC AS	WIND SPEED	3.79 M/SEC	SIGMA A 11.9 DEG
STABLE	WIND DIRECTION	316 DEG	SIGMA E 9.1 DEG
	SOLAR RAD.	0 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
L	0.14032E 01	0.11279E 01	0.82147E 00	0.77178E 00
V	0.60118E 00	0.55678E 00	0.48412E-00	0.31305E-00
W	0.29403E-00	0.28391E-00	0.25959E-00	0.10536E-00
T	0.23626E-00	0.56693E-02	0.32117E-02	0.39125E-02
E	0.11492E 01	0.98437E 00	0.78259E 00	
GUSTINESS RATIOS				
L	0.31255	0.28022	0.23914	0.23180
V	0.20458	0.19688	0.18358	0.14763
W	0.14307	0.14059	0.13443	0.08564
COVARIANCES				
L,V	-0.59422E-01	-0.20654E-01	0.38085E-02	-0.38475E-01
L,W	-0.21453E-00	-0.19881E-00	-0.15660E-00	-0.13484E 00
,T	0.13738E-00	0.32278E-01	0.13531E-01	0.27890E-01
,W	-0.13217E-01	-0.11896E-01	-0.13697E-01	-0.61569E-02
,T	-0.62771E-01	-0.17540E-01	-0.12617E-01	-0.11889E-01
W,T	-0.43155E-02	-0.65129E-02	-0.47106E-02	-0.36607E-02
WE	-0.51161E-01	-0.26658E-01	-0.50145E-02	
NORMALIZED COVARIANCES				
L,V	-0.06470	-0.02606	0.00604	-0.07828
L,W	-0.33399	-0.35133	-0.33912	-0.47286
L,T	0.23859	0.40364	0.25344	0.50754
V,W	-0.03144	-0.02992	-0.03861	-0.03390
V,T	-0.16656	-0.31219	-0.31996	-0.33972
W,T	-0.01637	-0.16234	-0.15314	-0.18030

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.63051	0.46172	0.51356	0.35448	0.39428	0.28873
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.006075	-.338971	.263162	-.038679	-.320158	-.162753
1	.002857	-.310607	.260705	-.035461	-.269520	-.138499
2	-.005251	-.252956	.247462	-.026885	-.206107	-.098601
3	-.008008	-.187582	.216321	-.024466	-.164783	-.065928
4	-.007581	-.134886	.180613	-.029040	-.131313	-.048196
5	-.003014	-.095743	.145811	-.028374	-.107163	-.030540
6	.004539	-.057919	.106128	-.034373	-.087027	-.009628
7	.008710	-.025421	.068163	-.036482	-.063337	-.004412
8	.005255	.000095	.039548	-.024786	-.042277	.007927
9	-.009529	.027243	.017670	-.020585	-.028793	.026199
10	-.021307	.055071	.000457	-.019333	-.005699	.038100
11	-.028363	.073243	-.013412	-.019272	.020589	.048903
12	-.030968	.087025	-.022629	-.015423	.049804	.057702
13	-.023140	.094145	-.031563	.001594	.062039	.050229
14	-.017909	.090400	-.038146	.013852	.071778	.038608
15	-.019167	.081458	-.046579	.024932	.090302	.026262
16	-.021190	.077658	-.057107	.038192	.104169	.018642
17	-.026672	.074907	-.059345	.044272	.110313	.018636
18	-.029529	.070339	-.057319	.051209	.109685	.024352
19	-.025972	.068277	-.058493	.055095	.105119	.026917
20	-.029853	.075896	-.059427	.054719	.103602	.019189
21	-.029705	.082601	-.057087	.049551	.104907	.007791
22	-.019722	.085347	-.060101	.047240	.101551	.001296
23	-.008669	.090359	-.065988	.044154	.101529	.000553
24	.000996	.094530	-.068147	.045699	.101469	.003987
25	.011798	.093337	-.073638	.036308	.093240	.004763
26	.020928	.079928	-.078317	.033742	.083930	-.003464
27	.030002	.059767	-.081535	.037818	.081974	-.003430
28	.038091	.038961	-.077250	.033017	.079330	-.001296
29	.038635	.025112	-.065662	.021512	.070245	.001179
30	.037394	.014677	-.054413	.007655	.054362	.001633
31	.036582	.002890	-.041357	.001785	.029346	-.005650
32	.036463	-.012271	-.030238	-.005995	.015695	-.000194
33	.035648	-.033384	-.019955	-.006314	.010171	.006406
34	.040458	-.046174	-.017693	.001163	.001460	.004431
35	.038525	-.054446	-.018111	-.004604	-.005836	.005624
36	.036290	-.051515	-.021115	-.021156	-.008452	.008472
37	.034081	-.049833	-.022925	-.049481	-.010793	.015456
38	.030643	-.044359	-.019598	-.062734	-.018269	.013492
39	.025282	-.037833	-.018914	-.056058	-.036413	.017744
40	.020563	-.031562	-.022448	-.050143	-.050962	.034127
41	.024919	-.028180	-.026444	-.052931	-.060662	.041642
42	.026886	-.014928	-.033839	-.048216	-.052255	.036778
43	.023517	-.000249	-.038235	-.044344	-.042327	.032307
44	.014946	.010901	-.034562	-.033097	-.035031	.023445
45	.006637	.010776	-.028350	-.019371	-.029776	.003958
46	.001582	.017667	-.027637	-.013503	-.030776	-.011308
47	-.001975	.032956	-.033693	.002435	-.035026	-.025525
48	-.009857	.038031	-.036500	.005701	-2 .320946	-.033696
49	-.017223	.041805	-.037912	.010893	-18.357904	-.039507
50	-.027826	.050218	-.039585	.010808	-19.493840	-.025729
51	-.042358	.050983	-.033519	.002025	-23.724988	-.005644
52	-.048382	.043781	-.024244	-.001475	-29.650254	-.002621
53	-.047754	.030344	-.021240	-.000139	-36.425425	-.000164
54	-.049846	.023624	-.017111	.000001	-29.945489	-.002606
55	-.052042	.021785	-.011115	.003001	-19.791072	.003562
56	-.050373	.016072	-.005539	.002038	-2.845885	.015757
57	-.046363	.007185	.002638	.000005	8.738480	.017443
58	-.037601	-.005796	.011250	.004739	7.617149	.012100
59	-.024783	-.016848	.011971	.003533	13.847434	.012979
60	-.016578	-.021575	.007085	.000813	16.117315	.006454

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.63051	0.46172	0.51356	0.35448	0.39428	0.28873
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.018638	-.018030	.043896	-.002701	-.013755	-.064405
2	.032664	-.018522	.079355	.000859	-.015747	-.095497
3	.038234	-.012485	.101044	-.001564	-.011985	-.102951
4	.035703	-.002001	.117904	.000361	-.011238	-.103449
5	.032677	.006810	.122576	.005139	-.008142	-.092084
6	.032609	.008271	.115718	.003635	-.013732	-.077934
7	.031193	-.001461	.109786	.007570	-.020210	-.067166
8	.030532	-.008581	.101522	.000508	-.020967	-.063379
9	.030650	-.001726	.094999	-.018470	-.017996	-.068119
10	.034815	.007886	.093001	-.030793	-.018403	-.072193
11	.044733	.019639	.087916	-.028807	-.023498	-.075257
12	.056795	.015662	.077492	-.018780	-.023145	-.077385
13	.063133	.010953	.068663	-.014682	-.017567	-.075051
14	.061205	.014129	.063658	-.010815	-.011577	-.062890
15	.047990	.018133	.058505	-.009377	.000087	-.051133
16	.030192	.013710	.058525	-.012679	.006732	-.038168
17	.022095	.010226	.060347	-.004982	.007139	-.029951
18	.024539	.007200	.064737	.008231	.010537	-.023584
19	.029764	.000581	.063390	.014314	.006680	-.023429
20	.029271	-.005265	.062337	.007455	-.001210	-.028727
21	.029676	-.016082	.055930	.003871	-.007735	-.025396
22	.029236	-.019041	.047870	.007353	-.016620	-.020229
23	.031958	-.021863	.038825	.012063	-.018643	-.014076
24	.026679	-.022209	.026407	.016765	-.013128	-.002181
25	.021057	-.019974	.012814	.021614	-.015677	-.010588
26	.015306	-.013822	.006156	.021003	-.018573	.021223
27	.010709	-.010667	-.003937	.016404	-.020603	.028045
28	.006155	-.015859	-.016594	.011086	-.021964	.034171
29	.000179	-.020732	-.028356	-.001119	-.014208	.041297
30	-.007987	-.022824	-.027087	.002873	-.001521	.042468
31	-.021976	-.018154	-.019303	-.001867	.005497	.036397
32	-.033892	-.006669	-.019450	.003435	.008292	.030131
33	-.038128	.003070	-.022367	.013600	.004089	.038852
34	-.043948	.006381	-.018616	.021203	-.004382	.037886
35	-.062596	.012430	-.010753	.012484	-.003012	.012567
36	-.087143	.024854	-.007233	-.004424	.003024	-.010089
37	-.106310	.034846	-.004088	-.015440	.017496	-.018070
38	-.114168	.039702	-.000591	-.021387	.030344	-.029294
39	-.112001	.041698	-.003483	-.023807	.040022	-.025894
40	-.105200	.040628	-.002857	-.021896	.047097	-.017606
41	-.090011	.040487	-.000573	-.020137	.045739	-.018193
42	-.074791	.038271	.004885	-.021255	.030633	-.021938
43	-.065369	.029055	.008655	-.033111	.021480	-.019141
44	-.060328	.016117	.005925	-.035233	.018453	-.008893
45	-.050432	.009116	-.002673	-.034118	.017101	.001726
46	-.033730	.004468	-.011017	-.030119	.017489	.011080
47	-.015212	-.000040	-.018687	-.027953	.021538	.012074
48	-.006426	-.000477	-.024968	-.027000	2 .316943	.009607
49	-.000359	-.006774	-.030767	-.024973	18.356609	.014259
50	.003395	-.011256	-.037503	-.023217	19.487017	.018352
51	.010540	-.011927	-.041817	-.014050	23.723333	.014202
52	.022331	-.012732	-.039635	-.005957	29.652641	.011351
53	.030846	-.003411	-.036125	-.007538	36.431989	.015054
54	.040173	.004799	-.035237	-.000040	29.942364	.021979
55	.047227	.009334	-.031798	.018032	19.777689	.025743
56	.052652	.010070	-.023928	.028584	2.823919	.028622
57	.053948	.004858	-.018581	.031870	-8.770311	.027228
58	.058154	-.002560	-.015156	.032418	-7.650842	.025017
59	.067943	-.005745	-.014162	.037979	-13.881470	.021644
60	.082718	-.012991	-.020272	.038104	-16.159415	.011701

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RUN NC 100A   15M   7-3-63   2124-2224(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.82126 10E 00	0.48407 10E 00	0.25958 10E 00	0.32114 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.852088	.796044	.661198	.805617
2	.664163	.566750	.346809	.589876
3	.514372	.413727	.182822	.436946
4	.399608	.296166	.088351	.313406
5	.303750	.217824	.026807	.215469
6	.213333	.147374	-.000864	.144522
7	.128589	.077681	-.028520	.092297
8	.049419	.029092	-.064054	.055114
9	-.016077	-.002052	-.079201	.020735
10	-.066315	-.024845	-.073222	-.013588
11	-.107032	-.053738	-.075572	-.048443
12	-.148671	-.095642	-.106510	-.085641
13	-.185535	-.131425	-.116934	-.111739
14	-.214225	-.159109	-.116338	-.130372
15	-.224156	-.186561	-.120149	-.137550
16	-.233887	-.210801	-.134675	-.136770
17	-.239062	-.230739	-.135459	-.142492
18	-.241240	-.242534	-.112618	-.160786
19	-.243243	-.241483	-.092636	-.184664
20	-.245641	-.241044	-.076669	-.197818
21	-.250874	-.245958	-.077414	-.213207
22	-.259916	-.239627	-.093095	-.224410
23	-.260252	-.241873	-.106235	-.224014
24	-.249303	-.248830	-.125842	-.217552
25	-.245331	-.240275	-.138481	-.205773
26	-.234119	-.234396	-.124588	-.182680
27	-.213387	-.224994	-.111382	-.168823
28	-.187484	-.209285	-.082917	-.153960
29	-.149087	-.192591	-.047593	-.140561
30	-.103165	-.162933	-.001632	-.125026
31	-.046079	-.116428	.034491	-.094627
32	-.001854	-.073825	.053007	-.073148
33	.035484	-.039201	.060492	-.051639
34	.061247	-.011891	.059009	-.029673
35	.081219	.000724	.047276	-.007462
36	.090093	.010814	.031470	.005182
37	.089692	.025327	.018659	.011209
38	.091907	.039807	.019926	.024305
39	.101987	.061252	.021783	.036571
40	.103705	.078548	.011751	.037855
41	.098084	.081913	.001575	.031483
42	.079711	.072982	-.011499	.018922
43	.048359	.061491	-.028103	.019851
44	.010387	.054495	-.035649	.020346
45	-.024517	.053872	-.021234	.018565
46	-.053027	.059267	-.002030	.017289
47	-.076685	.074039	-.001601	.013676
48	-.094222	.090718	-.004554	.004664
49	-.099006	.100347	.000933	.000060
50	-.087875	.100552	-.001794	.000441
51	-.079207	.095418	-.025876	-.002526
52	-.069687	.088631	-.029846	-.013785
53	-.066248	.081500	-.002512	-.028079
54	-.060072	.090015	-.001569	-.027217
55	-.053409	.087644	-.004394	-.026308
56	-.040563	.073969	-.001968	-.020111
57	-.026596	.071811	-.001889	-.008586
58	-.010974	.069213	.000926	-.002443
59	-.002403	.058469	.002493	-.001125
60	.011594	.054412	.028557	-.010570

RUN NC 100A 15M 7-3-63 2124-2224(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-01	10E-03
0	-.057341	-.012196	.041049	.010218	-.063173	-.034049
1	-.711826	-.134657	.305650	-.099293	.167601	-.347057
2	-.415455	-.210641	.30210	-.514323	-.090480	-.419872
3	.499371	-.299506	.278607	-.772178	-.014112	-.528795
4	.657807	-.233852	.190044	-.208487	.027381	-.661623
5	.054818	-.128791	.115643	.215948	-.090583	-.615154
6	-.208097	-.127450	.097864	.141825	.094463	-.393673
7-8	-.066533	-.095585	.059123	.113432	-.018391	-.267501
9-11	-.086727	-.026153	.018502	-.053142	-.002227	-.088389
12-15	.054181	-.028968	-.002290	.000209	-.009539	-.103705
16-20	.107814	-.012763	-.000776	-.041607	-.003164	-.061748
21-27	-.007268	-.006176	-.000395	-.005063	-.000202	-.041338
28-36	.010144	-.000394	-.002522	-.013749	.002337	-.027431
37-47	.003173	-.000845	-.000339	.007973	-.002146	.002945
48-60	-.007135	-.000760	.000264	-.001643	.000165	-.006076

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-01	10E-03
1	.052764	.039759	.197010	-.035092	.093973	-.628594
2	.163281	-.050448	.199742	-.011563	-.104516	-.764703
3	.105114	.207874	.180269	-.219766	.117040	-.915491
4	-.013191	.247599	.108647	-.170803	-.106375	-.632757
5	.029979	-.205952	.057726	.059481	.066623	-.230666
6	.030859	-.274980	.069659	.098685	-.022083	-.251253
7-8	-.006433	-.076461	.064985	.128322	.017301	-.271592
9-11	.021081	.009170	.017427	.019110	-.016659	-.205264
12-15	.013960	-.060797	.012939	-.058177	.004707	-.172014
16-20	.001446	-.114505	-.000340	-.007591	-.001629	-.048150
21-27	.001722	-.003819	.000806	.006109	-.002226	-.024187
28-36	-.000743	-.020087	.001357	.004069	.002274	-.020369
37-47	-.000058	-.008408	-.000641	-.018204	-.002242	-.006599
48-60	.000012	-.004418	-.000337	.000745	.000824	.000857

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.008445	.016094	.008548	.043455
1	.085146	.407690	.111163	.358924
2	.121541	.692788	.174039	.443573
3	.151952	.782578	.240243	.473896
4	.104880	.477326	.207640	.308695
5	.053833	.279239	.142564	.190288
6	.051599	.259195	.139377	.180098
7-8	.036533	.206398	.133794	.153050
9-11	.018398	.158953	.094182	.093111
12-15	.012807	.094947	.073685	.071808
16-20	.008416	.061686	.056225	.034593
21-27	.005623	.048927	.040612	.026236
28-36	.003172	.025511	.027576	.018454
37-47	.001948	.020841	.018615	.012426
48-60	.001355	.011001	.012262	.007445

RUN NC 100A   15M   7-3-63   2124-2224(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.49111	0.28502	0.54931	0.18151	0.34981	0.20302
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.078344	-.473085	.507728	-.033921	-.339875	-.180316
1	-.039482	-.125192	.350588	-.078214	-.162910	-.045925
2	-.020782	-.011069	.211351	.054413	-.025823	-.041183
3	.034389	-.014707	.107519	.005323	-.017892	-.021132
4	.029018	-.018300	.015569	-.085386	-.027364	.002723
5	.011110	.046345	-.063088	.018538	-.018059	-.027764
6	.014476	.004919	-.051003	.009350	.045074	-.020314
7	.010554	-.045256	-.037104	.091281	.060441	-.043688
8	.008922	.001156	-.009345	.016264	.092936	-.016724
9	-.052062	.104288	-.040942	.063079	.061541	.004210
10	-.017293	.078811	-.058889	.083728	.058943	-.012826
11	-.0116.0	.042172	-.124183	-.000172	.046462	.015296
12	.027029	.091091	-.208505	-.029743	.042100	.057866
13	.004198	.106633	-.182399	.027520	.060531	.048821
14	.002527	.039600	-.127768	.016332	.039366	.021108
15	-.000483	.057127	-.121211	-.009277	.035067	.041237
16	.047290	.041959	-.086800	-.124513	-.008575	.099955
17	.007583	-.022230	-.008998	-.084130	-.059490	.055494
18	-.039375	.022840	.067273	-.059545	-.058300	.041276
19	-.047265	.052311	.036965	-.050363	-.041880	.060842
20	.001231	-.007617	-.046337	-.087322	-.008450	.095575
21	.012045	-.009903	-.053847	-.044488	.011601	.040090
22	.034457	-.021017	-.064180	-.000651	.027473	.010410
23	.033361	-.070493	-.069345	.029111	.071926	.063493
24	.100778	-.044940	-.034181	.011243	.032314	.029427
25	.012199	.012255	.041064	.069054	.040594	-.016364
26	.016612	-.007736	.053427	.108595	.059364	-.049580
27	-.007904	-.112864	.019178	.092478	.023545	-.069443
28	.035842	-.072222	-.004913	.031499	.013768	-.018556
29	.027300	.071235	-.039662	.038296	.021990	-.074624
30	-.016114	.042905	-.048894	.051245	-.002188	-.080162

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-02	10E-03
0	-.029489	-.003715	.036076	-.014108	-.006417	-.032726
1	-.261518	-.079677	.402255	.128269	-.079056	-.642558
2	-.112501	-.120721	.473604	.008451	-.112039	-.548745
3	-.133492	-.116154	.441533	-.410891	-.159288	-.133583
4	-.219834	-.059838	.250118	-.342784	-.125378	.005481
5	-.316482	-.039387	.149711	.032531	-.054534	-.098347
6	-.744321	-.048938	.246809	.053150	-.056150	-.149898
7	-.632056	-.072464	.292921	.057337	-.054491	-.214941
8	-.227130	-.082265	.147861	.102671	-.022219	-.214916
9-11	-.150933	-.063419	.037946	-.092251	-.056976	-.138270
12-14	-.300816	-.029283	.046762	-.150366	-.061223	-.090079
15-21	.076017	-.062107	.038004	-.095701	-.032891	-.085291
22-30	-.122028	-.044783	.028427	.208077	-.017682	-.190804

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301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.49111	0.23502	0.54931	0.18151	0.34981	0.20302
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.008182	.014179	.155437	-.031538	.018072	-.144261
2	-.026730	-.002890	.181248	.019472	.078158	.108693
3	-.108628	.008000	.175631	.024729	.125984	-.058176
4	-.183480	.037469	.169713	-.037917	.177243	-.090823
5	-.076547	.015177	.132678	.023095	.158082	-.022164
6	.027457	-.033231	.084256	.054490	.101389	.010493
7	-.020957	-.043714	.112145	.048485	.093051	-.027615
8	-.031611	.034759	.113539	-.026503	.073545	-.062601
9	-.027232	.027517	.058792	-.086125	-.014178	.013288
10	-.014619	.030949	.053658	-.019375	-.025171	.044845
11	-.017840	.015581	.055412	.001062	-.027835	.024240
12	.013792	-.045335	.007740	.012707	-.046345	.048255
13	.109051	-.070799	-.038678	.087161	-.101822	.069056
14	.093147	-.008058	-.039452	.045034	-.118719	.058934
15	.025533	.011607	-.056886	-.015563	-.083390	.086943
16	.009181	-.055092	-.088579	-.006793	.004971	.061865
17	.033086	-.032863	-.042024	-.006781	.001149	-.000396
18	.008707	-.007213	.000073	-.010687	-.009812	-.076932
19	.017905	.055762	-.000743	-.025549	-.026944	-.093436
20	.006475	.077483	-.057741	-.017327	.029319	-.037986
21	-.048726	.058614	-.008116	-.080658	.024483	-.104497
22	-.087569	.015794	-.034514	-.026495	.060959	-.005205
23	-.045746	.010134	-.046882	.031074	.024260	.021238
24	-.034823	-.055057	-.016625	.004277	.049770	-.004190
25	-.004104	-.033228	.029159	.009251	.018278	-.049138
26	-.051544	.029944	.036576	-.062251	.008210	-.035137
27	.001154	.050332	.063231	.030211	-.002409	-.012898
28	.007740	.020426	.124368	.031134	-.039463	-.064108
29	.030406	.007271	.086191	.056595	-.025218	-.056320
30	.078355	-.037437	-.005236	.045543	.004796	.012311

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
1	-.033834	-.049655	.227314	.042839	.049252	-.007752
2	-.084975	-.012370	.304995	.074157	.109472	-.143088
3	-.167530	.192927	.329692	-.000557	.197871	-.611704
4	-.121388	.128341	.204193	.023978	.160978	-.661197
5	-.041160	-.172242	.112218	.182074	.052059	-.210662
6	-.046062	.014877	.105513	.089313	.001272	-.174554
7	-.058264	.293845	-.138065	-.176210	-.003058	-.447029
8	-.044566	.165667	.104572	-.270991	-.001277	-.345425
9-11	.074356	-.140482	.056402	.071748	-.025782	-.279602
12-14	.069060	-.021606	.016728	.036013	-.021007	-.022169
15-21	-.023463	.074981	.027480	-.144466	.003526	-.199828
22-30	.012087	.011904	.004502	.014393	-.007967	.010902

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.77118	0.31275	0.10534	0.39127
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.428614	.261535	.167538	.621834
2	.156526	-.103660	.009383	.356624
3	.079089	-.127509	-.010822	.218395
4	.031705	.021249	-.046887	.100221
5	-.136250	.061232	-.063957	-.012208
6	-.090739	-.032751	-.067186	-.102444
7	-.053063	-.170285	.016599	-.081643
8	-.085119	-.159753	-.106920	-.085303
9	-.142852	-.231093	-.169560	-.145107
10	-.170410	-.141166	-.149681	-.136512
11	-.186078	-.116162	-.092895	-.165052
12	-.271580	-.027368	-.012876	-.233007
13	-.228533	-.067258	-.067343	-.278479
14	-.146156	-.047440	-.037518	-.2 259
15	-.114196	-.000515	-.026767	-.228863
16	-.099638	.137930	.018959	-.114609
17	.049309	.155930	.113434	-.007971
18	.085703	.124578	-.059770	.026241
19	.021442	.024630	-.047763	-.021276
20	.021408	.029176	.008118	-.108042
21	.050146	.056687	-.010358	-.162852
22	.068209	.031056	.016108	-.163623
23	.095517	-.013869	.016212	-.136502
24	.107543	.033986	.031316	-.081669
25	.104898	-.013318	-.057003	-.028928
26	.067786	-.160941	-.029776	.030187
27	.125990	-.176490	.018324	.074661
28	.054112	-.005898	-.015715	.048448
29	-.139654	-.008820	-.041386	.013489
30	-.156100	-.078411	-.019693	.025497

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.028589	.003247	.017534	.059410
1	.494605	.046216	.344350	.589314
2	.849071	.137999	.554430	.627643
3	.968980	.280394	.761233	.562887
4	.569624	.243323	.682135	.365087
5	.360252	.109016	.459526	.223946
6	.452642	.076266	.350091	.266831
7	.541061	.106640	.430808	.279473
8	.417847	.122809	.524523	.121239
9-11	.242838	.209503	.525950	.095462
12-14	.216443	.186525	.283700	.079466
15-21	.256587	.107430	.457284	.071404
22-30	.172532	.097909	.469840	.057849

GROSS STATISTICS

I AC AS			
STABLE	WIND SPEED 6.07 M/SEC	SIGMA A 9.40 DEG	
	WIND DIRECTION 322 DEG	SIGMA E 5.9 DEG	
	SOLAR RAD. 0 LY/MIN		

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.11177E 01	0.95716E 00	0.69355E 00	0.64441E 00
V	0.94902E 00	0.76079E 00	0.73237E 00	0.38418E-00
W	0.35457E-00	0.35539E-00	0.33140E-00	0.14197E-00
T	0.18933E-00	0.10679E-01	0.73670E-02	0.73984E-02
E	0.12106E 01	0.10368E 01	0.87857E 00	
GUSTINESS RATIOS				
U	0.17417	0.16118	0.13721	0.13225
V	0.16049	0.14370	0.14096	0.10211
W	0.09810	0.09821	0.09484	0.06207
COVARIANCES				
U,V	-0.11154E-01	-0.49122E-01	-0.38331E-03	-0.59340E-01
U,W	-0.24344E-00	-0.23895E-00	-0.20098E-00	-0.14539E-00
U,T	0.80654E-01	0.61662E-01	0.37734E-01	0.49835E-01
V,W	0.37921E-01	0.43659E-01	0.35313E-01	0.19738E-01
V,T	-0.14300E-00	0.31116E-02	0.90485E-02	-0.14010E-02
W,T	-0.39522E-01	-0.26258E-01	-0.21831E-01	-0.15976E-01
W,E	0.49645E-01	0.26491E-01	0.26055E-01	
NORMALIZED COVARIANCES				
U,V	-0.01102	-0.05756	-0.00054	-0.11926
U,W	-0.38671	-0.40969	-0.41918	-0.48068
U,T	0.17533	0.60991	0.52786	0.72174
V,W	0.06537	0.08396	0.07169	0.08451
V,T	-0.33737	0.03452	0.12321	-0.02628
W,T	-0.15254	-0.42623	-0.44184	-0.49293

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.71264	0.47944	0.71487	0.49258	0.73447	0.49413
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.000439	-.419151	.527927	.071570	.123326	-.441755
1	-.003002	-.365836	.498348	.060706	.097322	-.370398
2	-.000836	-.278624	.439900	.039459	.063086	-.272499
3	-.001442	-.201039	.368708	.023452	.040573	-.197357
4	-.008501	-.130335	.294200	.007955	.029846	-.134852
5	-.012037	-.072605	.231233	.000916	.021836	-.082573
6	-.010724	-.036130	.177473	-.002207	.012218	-.040321
7	-.002513	-.006338	.126605	-.010536	.004094	-.012495
8	.006884	.012470	.081337	-.031655	-.001873	-.009232
9	.016888	.027392	.061210	-.053839	-.004538	-.006099
10	.029574	.039578	.007771	-.067943	-.001958	.004408
11	.035123	.056664	-.020987	-.064563	-.000095	.018471
12	.043196	.065972	-.045683	-.051943	.000464	.035875
13	.046694	.069979	-.064781	-.035203	-.005605	.043878
14	.044241	.060947	-.078721	-.026545	-.009516	.047984
15	.040049	.044217	-.094356	-.018388	-.012987	.056288
16	.036534	.028091	-.107520	-.013085	-.015016	.049647
17	.026128	.034519	-.125069	-.005669	-.018518	.049770
18	.010832	.053348	-.144652	.002313	-.016633	.066397
19	.000537	.071025	-.163734	.010757	-.011659	.089785
20	-.004486	.096543	-.181118	.014254	-.008047	.100308
21	-.004978	.112401	-.192392	.016852	-.012649	.093609
22	-.002400	.115850	-.193194	.023934	-.023613	.094596
23	-.005164	.117522	-.189814	.025777	-.032621	.105020
24	-.013944	.116306	-.189137	.027848	-.033405	.116851
25	-.019164	.105795	-.181283	.018310	-.023816	.119797
26	-.026223	.094609	-.165205	.009210	-.017565	.114570
27	-.032676	.089988	-.145297	.002719	-.018233	.098752
28	-.031960	.080549	-.125018	.001732	-.023375	.079558
29	-.020331	.067588	-.103974	.004900	-.036082	.068582
30	-.014226	.048414	-.082631	.009564	-.047112	.053455
31	-.007609	.028828	-.065359	.013587	-.047983	.030073
32	-.003172	.017096	-.052919	.017119	-.043554	.011967
33	-.003206	.010811	-.048722	.013213	-.034114	.007270
34	-.014823	.006103	-.048521	.009797	-.024643	.002896
35	-.025971	.001514	-.048210	.008764	-.014482	-.005933
36	-.029495	.006292	-.044071	.002462	.000032	-.011239
37	-.026723	.010013	-.031467	-.007202	.012626	-.013091
38	-.027135	.010470	-.018589	-.002301	.015856	-.004643
39	-.028262	.009946	-.007759	.009797	.018617	.011689
40	-.035711	.001474	.000353	.017856	.019990	.025103
41	-.045626	-.010895	.006199	.020161	.020315	.026876
42	-.043787	-.022600	.015474	.023190	.024798	.021602
43	-.037393	-.031278	.027350	.015617	.030946	.020681
44	-.036263	-.036287	.031927	.006161	.033614	.009893
45	-.039813	-.040356	.036292	-.010294	.034019	-.007829
46	-.033070	-.042931	.040577	-.017290	.026347	-.020999
47	-.026174	-.040884	.044842	-.005267	.007477	-.026650
48	-.021592	-.039416	.048295	.007077	-.012023	-.025653
49	-.015976	-.043030	.055275	.013717	-.027296	-.029819
50	-.012981	-.053764	.055404	.023292	-.043685	-.029000
51	-.010570	-.053656	.048357	.028862	-.050395	-.021589
52	-.006606	-.045176	.043456	.020128	-.050295	-.012521
53	.006943	-.030178	.034368	.002266	-.048910	-.016349
54	.016209	-.018851	.027122	-.005858	-.043087	-.024247
55	.019513	-.017767	.027416	-.008963	-.031987	-.024978
56	.023397	-.018326	.030248	-.010203	-.020897	-.023251
57	.028238	-.020797	.031758	-.004813	-.009520	-.029769
58	.028304	-.025074	.033506	.003204	-.002546	-.035325
59	.026650	-.036231	.033169	.004058	.007805	-.029297
60	.033413	-.045714	.033353	-.005215	.016697	-.001369

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.71264	0.47944	0.71487	0.49258	0.73447	0.49413
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.009450	-.012486	.017152	-.016077	.006866	-.003848
2	-.010663	-.011159	.034357	-.032970	.013235	-.012990
3	-.014985	-.002601	.047010	-.046357	.017265	-.029283
4	-.018052	.008935	.054399	-.058607	.013078	-.042832
5	-.019134	.019399	.057578	-.059029	.006234	-.049048
6	-.008492	.027960	.060460	-.054691	-.000926	-.043673
7	-.000037	.032252	.062504	-.049260	-.004161	-.061100
8	.005410	.028425	.065488	-.046488	-.009586	-.041173
9	.008864	.022327	.067510	-.041891	-.005759	-.033874
10	.016853	.018566	.073389	-.026652	-.000679	-.034098
11	.021279	.015403	.080082	-.015431	-.002180	-.034590
12	.017714	.024563	.082583	-.006425	.004639	-.040524
13	.008398	.028416	.083436	-.008091	.013370	-.047320
14	-.001131	.016768	.084827	-.012895	.017504	-.046507
15	-.003810	.002737	.086563	-.012178	.015036	-.039552
16	-.003844	-.006711	.093576	-.010782	.011638	-.029293
17	-.005858	-.011726	.077431	-.010889	.013574	-.008323
18	-.005969	-.014673	.066537	-.015444	.020172	.014881
19	-.002734	-.016069	.063452	-.020164	.026269	.023066
20	.007388	-.018900	.072093	-.022440	.024188	.021642
21	.019612	-.014400	.077161	-.015101	.011369	.013783
22	.027325	-.002417	.072655	-.005513	-.001057	.009713
23	.035122	.003258	.057966	.004680	-.008073	.010903
24	.033870	.005008	.045861	.006283	-.012813	.013864
25	.026449	.005858	.034587	.009669	-.012648	.014882
26	.022148	.001990	.028252	.013435	-.012078	.009519
27	.020172	-.004112	.029829	.008895	-.010650	-.000079
28	.014434	-.012123	.031026	.006574	-.011574	.000316
29	.004518	-.017991	.022705	.003413	-.009863	.001746
30	.001281	-.019925	.010979	-.004629	-.001073	-.000648
31	.004791	-.020393	.006592	-.009034	.006669	.001990
32	.005144	-.020727	.003495	-.008437	.005748	.008589
33	.002097	-.019755	-.006233	-.005278	.004214	.017351
34	-.001166	-.017524	-.022147	-.000003	.003490	.020003
35	.000887	-.014866	-.034502	.010834	.000057	.021034
36	.010618	-.011305	-.045617	.023232	-.003757	.021495
37	.016914	-.008101	-.053416	.030655	-.011356	.018626
38	.017986	-.004620	-.060536	.026205	-.019127	.013186
39	.016015	.001753	-.067340	.021573	-.022696	.011622
40	.012132	.003530	-.069999	.006170	-.022574	.019959
41	.010463	-.002941	-.068163	.000413	-.025617	.028779
42	.001384	-.009017	-.069799	-.002155	-.031078	.051325
43	-.007669	-.012226	-.070344	.002522	-.029377	.062708
44	-.016119	-.012252	-.069517	.009317	-.029190	.056138
45	-.017967	-.005726	-.069751	.015102	-.032875	.048104
46	-.017634	.001105	-.066662	.022268	-.035762	.043511
47	-.015736	-.002635	-.057135	.022251	-.038846	.034257
48	-.014103	-.006644	-.047106	.015069	-.034477	.023393
49	-.017184	-.009953	-.041952	.001899	-.025962	.011234
50	-.017337	-.007353	-.044487	-.002014	-.023866	-.002977
51	-.013604	-.004984	-.042147	-.003421	-.021534	-.015023
52	-.001679	-.001380	-.035349	-.004369	-.015482	-.027587
53	.008153	.005945	-.029326	.003319	-.014694	-.042232
54	.008355	.013709	-.021900	.012119	-.017564	-.051931
55	.008522	.010775	-.017349	.012896	-.018083	-.058018
56	.003452	.003294	-.015150	.010727	-.013144	-.053825
57	-.001309	.004193	-.015697	.006030	-.000416	-.047415
58	-.010336	.008031	-.014519	-.007342	.014051	-.040691
59	-.016769	.014109	-.008303	-.017764	.025379	-.040256
60	-.007081	.020752	.003116	-.013425	.029119	-.050648

121

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.69363	0.73217	0.33139	0.73677
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.849180	.815144	.725452	.834833
2	.663816	.583342	.428379	.641395
3	.515998	.416006	.238934	.500971
4	.392666	.298559	.107433	.382905
5	.287302	.206905	.001140	.281036
6	.199820	.132285	-.061133	.204555
7	.120924	.069346	-.080081	.143153
8	.053411	.003929	-.075359	.102765
9	.005478	-.046710	-.072119	.069086
10	-.038088	-.088450	-.083635	.023356
11	-.072395	-.123916	-.096923	-.022307
12	-.099963	-.149778	-.103477	-.057469
13	-.123800	-.166730	-.105339	-.081444
14	-.139857	-.189122	-.098551	-.105635
15	-.154935	-.200764	-.093035	-.137467
16	-.165766	-.203825	-.071525	-.160524
17	-.188699	-.199512	-.074449	-.183864
18	-.214509	-.200028	-.088225	-.209319
19	-.231321	-.199560	-.097989	-.233287
20	-.249792	-.205053	-.100601	-.252357
21	-.267962	-.215220	-.098922	-.258319
22	-.275942	-.232142	-.098838	-.263832
23	-.271476	-.240888	-.105646	-.272022
24	-.263420	-.226964	-.125779	-.270244
25	-.238665	-.206948	-.130270	-.259035
26	-.212096	-.194024	-.140287	-.239757
27	-.195686	-.186614	-.145183	-.218337
28	-.175884	-.179995	-.137841	-.196627
29	-.149132	-.165069	-.124546	-.183171
30	-.123236	-.141463	-.102689	-.162895
31	-.093299	-.106617	-.054994	-.127393
32	-.076256	-.064538	-.0ú8473	-.101232
33	-.071769	-.025705	.010640	-.090008
34	-.071112	.002387	.026709	-.080083
35	-.070826	.020712	.031703	-.067077
36	-.066988	.030917	.038475	-.044920
37	-.056945	.035107	.029851	-.027243
38	-.041190	.041592	.009087	-.023861
39	-.022115	.059212	-.004134	-.021009
40	.000494	.074399	.002559	-.013395
41	.020150	.087212	.016460	-.008605
42	.045591	.095710	.029915	-.001714
43	.063330	.097381	.033776	.005505
44	.074190	.102378	.032423	.016139
45	.082686	.109623	.031933	.034855
46	.084888	.109765	.037279	.047672
47	.081741	.096377	.045370	.046352
48	.079592	.082844	.048124	.041536
49	.079583	.084607	.042755	.042336
50	.074666	.081297	.055959	.037743
51	.061729	.070591	.046013	.035802
52	.053511	.045045	.037326	.042722
53	.046054	.023766	.035370	.046984
54	.039029	.013248	.020296	.057700
55	.037543	.008044	.001224	.067492
56	.038747	.010192	-.002997	.072930
57	.040353	.009800	-.000159	.075455
58	.044220	.004580	.009707	.076352
59	.050004	-.003165	.019691	.068680
60	.054220	-.013300	.025914	.047969

RUN NC 100A 46M 7-3-63 2124-2224(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-0⁻	10E-01	10E-02	10E-02	10E-02	10E-02
0	.047621	-.011744	.069458	-.018224	.005192	-.021967
1	.869675	-.180315	.639441	-.265759	.090105	-.234369
2	.404788	-.280659	.809472	-.134527	.124274	-.307243
3	-.468022	-.308171	.808552	.241285	.116709	-.320723
4	-.695771	-.200200	.475694	.627795	.044940	-.205929
5	-.647101	-.141218	.249664	.816670	.050875	-.119506
6	-.299362	-.145138	.179314	.735274	.077763	-.123015
7-8	.282535	-.150171	.177486	.312940	.035636	-.135386
9-11	.240417	-.054533	.064903	.004825	.036161	-.074462
12-15	-.009198	-.048182	.036622	.019766	.017876	-.049456
16-2C	-.038780	-.013543	.014838	.146844	.015973	-.016095
21-27	-.025269	-.010644	.005088	-.008425	.011423	-.018554
28-36	.008529	-.005776	.001330	.014683	.005702	-.009722
37-47	.014073	-.004274	.002747	.010639	.002486	-.006118
48-6C	.008489	-.001218	.000967	-.002424	.001915	-.002550

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	.509515	-.062538	.279390	-.418515	.028584	-.175853
2	.215667	.225423	.299766	-.595424	.391229	-.668374
3	-.189042	.385579	.157289	-.615198	.151333	-.740953
4	-.193400	.292723	.021171	-.490312	-.043833	-.582156
5	-.059266	.191690	.030065	-.446873	-.124005	-.470105
6	.020486	.131633	.019160	-.381766	-.249460	-.043202
7-8	-.258446	-.124407	.013210	-.363240	.231747	.077058
9-11	-.251182	-.066438	.012489	-.053145	.161424	-.167765
12-15	.029211	-.118667	.007564	-.017105	.125908	.080477
16-20	.005556	-.055547	.001686	-.015252	.000854	.021708
21-27	.018163	-.019021	-.000572	.035429	-.025008	.042216
28-36	-.037563	-.009803	-.000959	-.010631	-.016283	-.008482
37-47	-.004950	-.002677	-.000459	.000581	.006507	.003089
48-60	-.013059	-.001170	-.000218	.007743	.008072	-.004873

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.007851	.002862	.010772	.010038
1	.083019	.055035	.162426	.099259
2	.111790	.096780	.261133	.123623
3	.116547	.116351	.313367	.120961
4	.075021	.077067	.236928	.072079
5	.047939	.052084	.200261	.041029
6	.037494	.048279	.227895	.034558
7-8	.035017	.035261	.205222	.032776
9-11	.017370	.020305	.142888	.020618
12-15	.010980	.015176	.100431	.013236
16-20	.006575	.010118	.051468	.007085
21-27	.004451	.006134	.039531	.005224
28-36	.002719	.003877	.029146	.003424
37-47	.001914	.002160	.017290	.002394
48-60	.001205	.001471	.011356	.001350

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.49743	0.30252	0.69082	0.23340	0.53297	0.32414
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.119293	-.480609	.721386	.084569	-.026287	-.492862
1	.017676	-.092264	.400950	-.080305	-.046950	-.177371
2	-.039752	.032131	.118866	.059894	-.071185	.034364
3	-.072923	.059417	.021739	.023397	-.106652	.058182
4	-.062468	.040885	-.046452	.015909	-.025292	.088708
5	-.013305	-.006384	-.053257	-.008298	-.024758	.067428
6	.073494	-.026934	-.090373	-.028677	.047243	.025783
7	.077558	.080226	-.172723	-.032096	.088735	.070283
8	.010201	.036275	-.162686	.011439	.061136	.039775
9	.067370	.001860	-.096594	.021108	.073213	-.009555
10	.096915	-.085605	-.049994	-.031026	.088542	-.106753
11	.089640	-.035919	-.027797	-.038433	.080933	-.064200
12	.005684	.018447	-.054020	-.004611	.030090	-.042803
13	-.013038	.092962	-.114065	.040697	-.006745	.085634
14	-.040833	.067947	-.099425	.043754	-.030772	.138880
15	-.018124	.042917	-.051630	.002223	.008438	.072428
16	-.004723	-.024199	.027152	-.078479	.027781	-.011813
17	-.027529	-.019130	.024132	.026162	-.014823	-.025054
18	.015492	.036198	-.027973	.051534	-.080974	-.027426
19	-.022991	.043262	-.057500	-.013603	-.062268	.022438
20	-.076283	.063044	-.047328	-.009214	-.044607	.054330
21	-.088887	-.002847	.003782	-.022309	-.068738	.032746
22	-.026489	-.055705	.025552	-.003831	-.014446	-.019905
23	.043983	.000472	.007747	.006324	.069031	-.005437
24	-.008327	.000125	.003138	.024088	.020084	.011170
25	.012483	.078943	-.032536	.032705	.039150	.053473
26	.062684	.014744	-.030564	-.028866	.037875	.045831
27	.057686	-.033072	.016069	.046539	-.009316	-.080133
28	.009484	-.044514	.026068	-.027205	.015525	-.080048
29	-.019986	.046996	-.053636	-.065219	-.026420	-.001445
30	-.023086	.070390	-.115338	.064843	-.025916	.069001

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02
0	.004143	-.077293	.024160	.005325	.003732	-.006602
1	.002942	-.650065	.339259	.015639	-.017291	-.062903
2	-.060831	-.627326	.471632	.043668	-.094537	-.064271
3	-.142329	-.526935	.582334	.098052	-.189598	-.063107
4	-.105175	-.510333	.542262	.125899	-.133002	-.080164
5	-.017433	-.747531	.455463	.066722	-.015207	-.128946
6	.038399	-.950960	.378836	-.042715	.026475	-.173384
7	.067000	-.892178	.306980	-.077073	.070340	-.145306
8	.022258	-.562648	.201284	-.077110	.065426	-.059558
9-11	.038334	-.807829	.224668	-.178580	.041140	-.094784
12-14	-.031422	-.793680	.179337	.060307	-.000239	-.065198
15-21	-.033514	-.485719	.102981	.068490	.004986	-.055747
22-30	-.055496	-.585115	.061002	.395877	.000614	-.032430

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.49743	0.30252	0.69082	0.23340	0.53297	0.32414
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.000896	.009003	.100956	-.056784	.004450	-.056476
2	.050729	-.006871	.096184	-.044752	-.024531	-.007517
3	.028924	-.023219	.064811	.010791	-.042124	-.036958
4	.002585	-.022700	-.035691	-.016171	-.023045	.035166
5	-.022236	-.006455	-.015369	.022637	-.033860	-.033257
6	-.018814	.030398	-.011163	-.002839	.042162	-.081905
7	-.033901	.052020	.012748	-.010978	.060703	-.049006
8	-.059338	.019714	-.009558	-.026087	.014960	.013527
9	-.009850	-.020984	-.024536	.021549	-.036063	-.003817
10	.001068	-.046038	-.052566	-.028858	-.027852	.055907
11	.024066	-.075058	.030250	.048822	-.082880	.035168
12	.054533	-.029668	.034729	.070167	-.000719	.040816
13	.030429	-.030386	.028653	.046856	.049298	.005198
14	-.000921	-.022212	.010917	-.043800	.041750	.033274
15	.027987	-.024177	-.013287	.004607	-.048670	.065690
16	-.004495	-.041645	.005232	-.020032	-.027220	.058533
17	.047799	-.000463	.035832	-.019377	-.024959	-.007254
18	.028989	-.027954	.036141	.013315	.029717	-.021173
19	.009150	-.002202	.024014	-.030780	.022569	-.013341
20	.021446	-.034589	-.001031	.077661	-.020216	.030576
21	.018380	.052837	-.060498	.078447	-.006009	-.010964
22	-.134122	.113092	-.041690	-.106453	.113270	-.078533
23	-.051373	.099597	.006168	-.019059	.029891	-.100610
24	-.005545	.062154	.019572	-.090544	.018112	-.099526
25	-.025730	.042236	-.015647	-.086228	.043971	-.027246
26	-.020430	.046175	-.037824	-.014766	-.004310	.019356
27	-.038515	.008355	-.028695	-.044452	.025265	.038133
28	.017548	.013309	.042224	.059992	-.117556	-.053513
29	.042505	.061095	.025796	.117538	-.056166	-.055248
30	-.004098	-.023617	.004392	.061939	.011638	.025869

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	.174539	-.368743	.038725	.078493	-.205944	.168969
2	-.103754	-.176935	.017096	.026365	-.256579	-.065504
3	-.445529	.299680	.007163	-.147042	.017269	-.591602
4	.051712	.156995	.062934	-.161996	-.046302	-.438619
5	.544745	-.164713	.109172	-.131247	-.276495	-.014584
6	.598292	-.241308	.102661	.036629	-.394050	.085854
7	.687400	-.407471	.105271	.059014	-.704491	.204322
8	.243947	-.164099	.088852	-.295786	-.675029	.112119
9-11	-.013559	.245689	.115647	-.191963	.552779	-.287553
12-14	.008432	.036243	.037709	-.137195	-.002118	-.231010
15-21	-.142206	.027039	-.004672	-.069531	.110112	.032351
22-30	-.115600	-.008762	.039049	.102298	-.142696	-.299315

301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.64474	0.38377	0.14194	0.74019
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.446062	.135704	.055452	.489841
2	.116334	-.123871	-.064191	.117020
3	.011587	-.175102	-.133139	-.017415
4	-.027611	-.053204	-.085412	-.099021
5	-.037156	-.054440	-.037823	-.110985
6	-.085993	-.061757	-.012628	-.117304
7	-.206453	-.074510	-.072224	-.185374
8	-.196232	.063040	-.039500	-.156322
9	-.102749	.016121	-.024389	-.115084
10	-.071589	-.028610	.075311	-.097329
11	-.060930	-.125729	.034904	.000241
12	-.085877	-.061523	-.063070	-.035870
13	-.142291	.006468	-.131971	-.161892
14	-.082013	-.104376	-.078121	-.220623
15	-.043726	-.063999	-.035653	-.099131
16	.008295	.068957	.076775	.025531
17	.013624	.224077	-.028532	.085269
18	-.080452	.102650	.107663	.041074
19	-.096652	-.033162	-.041441	-.028972
20	-.049753	-.076382	-.028942	-.060377
21	.021026	-.054596	-.015729	.009621
22	-.014940	.066055	.112319	.031589
23	-.021242	.026084	.054546	.040605
24	.025670	.017751	-.048583	.047380
25	-.028668	-.020366	-.041641	-.031361
26	-.004680	.026635	-.000729	-.049416
27	.027923	-.068033	.088108	.035113
28	.109021	-.069761	-.028996	.029864
29	.023770	-.144300	-.064879	-.053498
30	-.042126	-.067470	-.002808	-.130359

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.030695	.009831	.035297	.020585
1	.420979	.052837	.254320	.381994
2	.558282	.090473	.374977	.601638
3	.651615	.163312	.504591	.771668
4	.602644	.155020	.465195	.684771
5	.496742	.119690	.546200	.603172
6	.391477	.185520	.767134	.610088
7	.335235	.282684	.833730	.537534
8	.266088	.234225	.624113	.314920
9-11	.282727	.190877	.687872	.374647
12-14	.276651	.225049	.657716	.223405
15-21	.164120	.145545	.559303	.187664
22-3C	.134066	.167765	.789815	.124346

RUN NC 100A 15M 7-3-63 2124-2224(EST)
RUN NC 100A 46M 7-3-63 2124-2224(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.468167	.076104	.198807	.384993
1	.325606	.360658	.416149	.473106
2	.211674	.333377	.381822	.442480
3	.230822	.295067	.278546	.460097
4	.195239	.275253	.172160	.353772
5	.074739	.290075	.089187	.155220
6	.136834	.277136	.061245	.261953
7-8	.090497	.135488	.102899	.145578
9-11	.162780	.094243	.111550	.139859
12-15	.142963	.098184	.150190	.121932
16-20	.171239	.118880	.059421	.136341
21-27	.134'25	.076753	.115810	.187873
28-36	.072915	.073775	.115612	.159181
37-47	.113765	.086067	.071905	.124775
48-60	.117625	.114470	.056064	.113877

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.954876	.227118	.287243	.725366
1	.695511	.143969	.388622	.776310
2	.490333	.494798	.374179	.672210
3	.378929	.673079	.307138	.565433
4	.506214	.639952	.330847	.534684
5	.704067	.549126	.249746	.591148
6	.641096	.457154	.243504	.705935
7	.729159	.408657	.335142	.762635
8	.560591	.335377	.373575	.577150
9-11	.180236	.500644	.576379	.318025
12-14	.421502	.232489	.343599	.518200
15-21	.340539	.232568	.248906	.528716
22-3C	.278331	.259867	.207394	.260425

RUN NO 100B   46M   7-3-63   2235-2335(EST)

GROSS STATISTICS

CLEAR   WIND SPEED   7.40 M/SEC   SIGMA A 7.70 DEG
STABLE   WIND DIRECTION 321 DEG   SIGMA E 5.0 DEG
                     SOLAR RAD.   0 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
L	0.15265E 01	0.12911E 01	0.79334E 00	0.94874E 00
V	0.91357E 00	0.82508E 00	0.74941E 00	0.36031E-00
W	0.36833E-00	0.31341E-00	0.34708E-00	0.12814E-00
T	0.52525E-01	0.15989E-01	0.10841E-01	0.10790E-01
E	0.14042E 01	0.12448E 01	0.94492E 00	
GUSTINESS RATIOS				
L	0.16696	0.15355	0.12036	0.13163
V	0.12916	0.12275	0.11698	0.08112
W	0.08201	0.08258	0.07961	0.04837
COVARIANCES				
L,V	0.78147E-01	-0.14513E-01	-0.35722E-02	-0.14432E-01
U,W	-0.32186E-00	-0.32030E-00	-0.23409E-00	-0.20396E-00
U,T	0.13683E-00	0.10273E-00	0.56085E-01	0.84107E-01
V,W	0.19577E-01	0.19835E-01	0.20249E-01	0.16891E-01
V,T	0.23115E-01	0.71808E-02	0.10013E-01	0.23030E-02
W,T	-0.34867E-01	-0.35841E-01	-0.27760E-01	-0.20178E-01
W,E	0.51924E-01	0.82258E-01	0.63988E-01	
NORMALIZED COVARIANCES				
U,V	0.06618	-0.01406	-0.00463	-0.02468
U,W	-0.42925	-0.46131	-0.44610	-0.58498
U,T	0.48323	0.71500	0.60477	0.83126
V,W	0.03375	0.03573	0.03970	0.07861
V,T	0.10552	0.06252	0.11109	0.03693
W,T	-0.25068	-0.46385	-0.45256	-0.54266

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.77098	0.52472	0.92734	0.50996	0.90127	0.61338
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	-.004546	-.446051	.604815	.039839	.111072	-.452471
1	-.009459	-.379339	.567786	.030175	.087852	-.376057
2	-.013417	-.282050	.493395	.025769	.061110	-.268209
3	-.007993	-.205778	.413201	.023982	.041342	-.188146
4	-.001093	-.149457	.333927	.022815	.027663	-.124068
5	.004634	-.105319	.261274	.023916	.020033	-.073349
6	.010156	-.072099	.199000	.023575	.014448	-.040293
7	.008718	-.049834	.146092	.015324	.014581	-.010672
8	.000261	-.035319	.103148	.002297	.012463	.004338
9	-.007057	-.015570	.069455	.001968	.001530	.009653
10	-.015797	.003199	.041282	-.002225	-.017484	.010246
11	-.017453	.018192	.013615	-.012455	-.022174	.017362
12	-.016176	.028219	-.014241	-.027289	-.010329	.022358
13	-.012881	.045522	-.047499	-.033194	-.000650	.030399
14	-.000155	.065728	-.082352	-.029259	.000977	.045144
15	.006856	.075763	-.108985	-.032304	-.000848	.051549
16	.009807	.081869	-.132436	-.034211	-.007273	.048527
17	.007094	.089469	-.154993	-.038520	-.008825	.047245
18	.006943	.090780	-.172485	-.040356	-.004730	.052968
19	.010777	.090090	-.187579	-.040888	-.006457	.060863
20	.014625	.087739	-.199076	-.044261	-.013976	.064603
21	.014534	.084085	-.206098	-.047757	-.019617	.073865
22	.013620	.081338	-.204266	-.037233	-.025537	.075049
23	.013817	.083568	-.200436	-.017788	-.029804	.075504
24	.012744	.088801	-.193310	.000325	-.030829	.081068
25	.012898	.096959	-.185369	.019507	-.033246	.087564
26	.015905	.098825	-.173767	.026925	-.038417	.088126
27	.012873	.094577	-.157926	.029823	-.043698	.086522
28	.009856	.079446	-.138028	.031197	-.044613	.085412
29	.005186	.073580	-.120022	.023635	-.036891	.079505
30	.005172	.069882	-.102119	.014295	-.030246	.078531
31	-.003110	.056265	-.083429	.012084	-.023786	.067140
32	-.012203	.046962	-.073407	.007178	-.009763	.053263
33	-.019697	.039776	-.064970	.010441	-.001006	.039424
34	-.028409	.034676	-.056216	.016917	-.001696	.033361
35	-.033354	.035195	-.050350	.022997	-.004861	.035430
36	-.028712	.037469	-.05 884	.039715	-.007043	.043283
37	-.019776	.035935	-.047277	.054956	-.006512	.049940
38	-.013229	.034977	-.039303	.053625	-.001991	.050274
39	-.011667	.026330	-.033325	.049655	.001530	.045179
40	-.014193	.017866	-.025408	.040385	.000325	.040338
41	-.019090	.011483	-.022795	.031264	-.010342	.040303
42	-.015105	.010042	-.023143	.016534	-.012972	.043859
43	-.008966	.014829	-.024758	.002355	-.007078	.042354
44	-.002973	.015970	-.023502	.000449	-.003174	.034165
45	-.001004	.015293	-.021692	.010925	.003496	.023834
46	-.001362	.008915	-.020641	.020980	.013252	.019164
47	.002107	.000511	-.021498	.016500	.019929	.006567
48	.006017	-.009100	-.020621	.004460	.028725	-.009332
49	.009596	-.009956	-.020054	-.012252	.033260	-.021643
50	.013059	-.006076	-.018741	-.031553	.027842	-.034744
51	.014666	-.001393	-.013618	-.049102	.024681	-.039730
52	.018723	.005658	-.016069	-.057081	.021043	-.034656
53	.016079	.005973	-.022301	-.048683	.007931	-.030714
54	.008146	.001324	-.026117	-.039445	.001201	-.032173
55	.003289	.004556	-.031441	-.034281	-.001101	-.031107
56	-.000970	.009378	-.039033	-.025143	-.009788	-.027227
57	-.003780	-.002477	-.039365	-.019333	-.016714	-.027367
58	-.004462	-.015785	-.029336	-.019653	-.021051	-.025312
59	-.005856	-.026837	-.017245	-.020544	-.022156	-.026931
60	-.004477	-.040014	-.002730	-.018981	-.024616	-.023450

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.77098 10E 00	0.52472 10E 00	0.92734 10E-01	0.50996 10E 00	0.90127 10E-01	0.61338 10E-01
1	-.013633	-.019015	.011078	.007867	-.006386	.009087
2	-.018195	-.023458	.026123	.015545	-.013572	.008971
3	-.014297	-.024570	.038359	.015877	-.015396	.008424
4	-.008257	-.024406	.044690	.015754	-.021812	.003266
5	-.005350	-.020004	.044169	.016087	-.027895	-.005841
6	-.001745	-.013668	.042318	.005671	-.032877	-.007638
7	.007523	-.009307	.041248	-.000092	-.038248	-.009565
8	.019027	-.009570	.037196	-.000481	-.045540	-.006557
9	.026445	-.007301	.029978	.000679	-.055127	-.002962
10	.035161	-.000527	.026795	.011133	-.061840	-.006397
11	.036936	.002281	.022825	.027939	-.066222	-.006196
12	.042436	.009639	.018682	.048595	-.070988	-.007021
13	.044598	.006268	.011935	.055357	-.072270	-.000987
14	.040244	-.002750	.009030	.052753	-.061262	-.000281
15	.034539	-.011474	.011682	.038301	-.042119	.001069
16	.031655	-.018295	.020242	.018293	-.025663	.003241
17	.026313	-.020693	.028083	-.001880	-.011289	.000715
18	.016764	-.017984	.032927	-.018260	.003427	-.006372
19	.003560	-.017376	.031582	-.026510	.011793	-.006172
20	-.010472	-.017389	.023448	-.031000	.016795	-.004998
21	-.021255	-.019816	.023423	-.028950	.029823	-.002738
22	-.023884	-.024734	.023101	-.022321	.035222	-.002199
23	-.016955	-.027779	.023928	-.014250	.034595	.003035
24	-.013100	-.029263	.022176	-.009973	.030996	.012657
25	-.003934	-.024899	.015341	-.008781	.030150	.018859
26	.006916	-.016518	.009335	-.009933	.028668	.015103
27	.013546	-.007810	.003750	-.007977	.023080	.009582
28	.019030	-.010728	.002210	-.007404	.014796	.004986
29	.025398	-.012697	.002678	-.010485	.007901	.002431
30	.02806	-.010410	.008561	-.014396	.001889	-.008495
31	.033891	-.010521	.011892	-.011550	-.001647	-.015501
32	.033362	.001267	.011283	-.000465	-.005773	-.018001
33	.026616	.011362	.006061	.013050	-.004567	-.013724
34	.019747	.012556	.002240	.026026	-.000399	-.003879
35	.015607	.012032	.000735	.036035	.006958	.003688
36	.013671	.006057	-.002840	.030775	.011437	.005867
37	.014951	.004766	-.005199	.017280	.011743	.000395
38	.018688	.007220	-.009172	.017770	.008359	.001312
39	.021913	.012519	-.009011	.016389	.005724	.003446
40	.021816	.024523	-.004979	.002826	-.004670	-.000587
41	.017324	.025232	-.001448	-.004655	-.015476	-.006179
42	.012775	.025926	.003034	.002436	-.030406	-.008030
43	.011379	.019726	.011630	.015497	-.043700	-.007785
44	.003438	.015344	.013971	.010950	-.045467	-.001338
45	.000709	.018164	.013701	.007647	-.032921	.008791
46	.002478	.020271	.006926	.013780	-.023633	.015769
47	.006633	.020265	.003266	.023250	-.022942	.008889
48	.007327	.022240	.003395	.027223	-.035018	-.007998
49	-.001230	.025909	-.002004	.029555	-.040631	-.020265
50	-.010573	.027514	-.007440	.019525	-.032969	-.027080
51	-.017459	.032479	-.009551	.007571	-.016118	-.030228
52	-.032639	.040720	-.014778	-.005910	.000566	-.022979
53	-.044924	.036910	-.022083	-.017953	.015869	-.015091
54	-.050881	.019632	-.025992	-.029840	.026432	-.009170
55	-.050842	.003352	-.025162	-.041478	.034161	.000869
56	-.046994	-.003297	-.018783	-.040403	.034495	.003307
57	-.047294	-.010256	-.014967	-.034902	.029565	.000036
58	-.052182	-.007931	-.013652	-.024043	.020979	-.001101
59	-.047197	-.002882	-.016977	-.017696	.007490	.004987
60	-.040174	.004078	-.021759	-.016085	.000651	.008879

RUN NC 1008   46M   7-3-63   2235-2335(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.79329	0.74930	0.34707	0.10840
	10E 00	10E 00	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.857614	.770251	.705662	.832961
2	.680528	.498886	.395266	.628979
3	.537227	.298488	.206026	.473865
4	.410712	.153888	.077324	.364149
5	.321180	.066174	.000657	.278537
6	.240710	.001340	-.044888	.200322
7	.173985	-.042789	-.063752	.132553
8	.116251	-.058922	-.058140	.068526
9	.057081	-.071506	-.050006	.024234
10	.002909	-.085774	-.050450	-.005186
11	-.042483	-.097284	-.056933	-.028931
12	-.075012	-.111714	-.069257	-.062575
13	-.103449	-.116382	-.079960	-.103838
14	-.129771	-.115363	-.088795	-.142491
15	-.143342	-.110047	-.086870	-.173040
16	-.160397	-.108248	-.071483	-.191039
17	-.182027	-.119105	-.079034	-.211443
18	-.200335	-.130496	-.100707	-.227510
19	-.216582	-.143466	-.120095	-.234746
20	-.230186	-.145108	-.123402	-.242056
21	-.244852	-.141815	-.126522	-.252753
22	-.256282	-.131959	-.122220	-.257804
23	-.261564	-.133915	-.125852	-.248859
24	-.261158	-.142519	-.135419	-.240176
25	-.260331	-.144750	-.146127	-.224764
26	-.255315	-.154510	-.153309	-.206804
27	-.245092	-.161127	-.132680	-.187704
28	-.225566	-.156669	-.110937	-.168868
29	-.205174	-.140087	-.100103	-.148336
30	-.178799	-.108165	-.079885	-.124572
31	-.147175	-.075227	-.035497	-.089305
32	-.117777	-.048191	.009928	-.049619
33	-.096615	-.020933	.034446	-.022073
34	-.078424	.000494	.045076	-.000778
35	-.062941	-.002802	.029573	.011693
36	-.046538	.003681	.003877	.011633
37	-.035033	.026756	.002131	.007848
38	-.018984	.038783	-.009927	.006397
39	-.006268	.042125	-.008843	.006904
40	.001354	.036666	-.003548	.009239
41	.002514	.042540	-.003903	.005053
42	-.001436	.053695	-.004657	-.000663
43	-.004381	.059934	-.010508	-.005559
44	-.012424	.065215	-.007081	-.008143
45	-.024693	.077082	-.000926	-.004600
46	-.027353	.082824	.019711	-.005354
47	-.026374	.069740	.040862	-.006066
48	-.023612	.048796	.056997	-.005490
49	-.024738	.036320	.052641	-.006390
50	-.014569	.045739	.038793	-.010871
51	-.000007	.057268	.020463	-.020852
52	.004799	.066766	-.010693	-.036562
53	.001732	.055209	-.017611	-.046490
54	-.008026	.041713	-.007951	-.045743
55	-.024332	.023212	-.010584	-.042840
56	-.032252	.002851	-.022198	-.040184
57	-.030010	-.017369	-.013412	-.035598
58	-.028308	-.034163	-.006561	-.029088
59	-.021506	-.038551	-.009940	-.023056
60	-.011360	-.040802	-.004558	-.014354

RUN NC 100B   46M   7-3-63   2235-2335(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.034862	-.023974	.011234	.021290	.005669	-.022868
1	.005850	-.294585	.104921	-.148958	.109295	-.323373
2	-.133070	-.359402	.119999	.137410	.152548	-.380515
3	-.397876	-.348759	.114859	.829453	.129823	-.335632
4	-.031536	-.237407	.069769	.742882	.056839	-.235781
5	.365635	-.161644	.033654	.194597	.046938	-.189045
6	.113607	-.129432	.022600	-.073196	.073475	-.176978
7-8	-.106536	-.098731	.022243	-.151057	.067182	-.159793
9-11	-.230437	-.077292	.013740	.003191	.019239	-.105570
12-15	-.023176	-.047673	.005426	.042004	.022005	-.060802
16-2C	.086383	-.027566	.002051	.007404	.025097	-.029644
21-27	.027407	-.015423	.001231	.041188	.002527	-.023112
28-36	.023733	-.009893	.000540	-.003038	.006116	-.012588
37-47	.010203	-.005245	.000340	.015176	.004229	-.008235
48-60	.000988	-.002572	.000097	.012173	.002818	-.003177

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
1	.113406	-.439626	.161023	.225086	-.000601	-.056139
2	.052932	-.420173	.122628	.165509	-.106332	-.031398
3	.038813	-.035823	.086085	.423890	-.189050	-.097183
4	.052112	.114210	.050432	.481815	-.156369	-.106440
5	.002154	-.104698	.047175	.075369	-.046035	-.034610
6	-.064296	-.266293	.063281	-.288803	.035547	.095429
7-8	-.064338	-.254356	.054966	-.219851	.063857	-.000606
9-11	-.002548	-.126689	.006848	.279781	-.007029	.136227
12-15	-.007092	-.014591	.004121	.045297	-.009067	.032214
16-2C	-.004846	-.067254	-.002874	-.031307	.001172	.057015
21-27	-.005332	-.008729	-.001324	.006677	-.000346	-.004986
28-36	-.000306	-.024140	-.001444	.011991	-.000546	.005860
37-47	.000039	-.009287	-.000591	-.017428	.000727	.022096
48-6C	-.000001	-.000952	-.000474	.002632	.001013	-.001134

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.011855	.029127	.009955	.014096
1	.116509	.442621	.178339	.131682
2	.138612	.728311	.273577	.165625
3	.134513	.859214	.322155	.179549
4	.081968	.607915	.239776	.118403
5	.048437	.491859	.174639	.062714
6	.044486	.520392	.191506	.051724
7-8	.034163	.436365	.207329	.047223
9-11	.018439	.310343	.152122	.031761
12-15	.012874	.200702	.110612	.018324
16-2C	.007628	.115020	.059845	.012538
21-27	.004422	.078121	.047220	.008615
28-36	.003082	.043945	.030638	.004827
37-47	.001995	.033235	.021203	.002927
48-6C	.001272	.019507	.012521	.002174

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.58443	0.34867	0.10114	0.21486	0.62328	0.37185
	10E 00	10E 00	10E 00	10E 00	10E-01	10E-01
0	-.024694	-.584964	.831556	.078610	.036949	-.542638
1	-.038253	-.236012	.479246	-.006830	-.025578	-.183346
2	-.007735	-.026162	.178825	-.048452	-.042801	-.005315
3	-.006048	.034698	.070633	.016282	-.058444	.059420
4	-.004691	.085947	-.028382	.019293	-.043857	.098232
5	.033663	.056881	-.105733	-.019676	.001257	.047316
6	.001550	-.007246	-.116222	-.026773	-.029522	-.000728
7	.018164	-.015774	-.095127	.009438	.07?201	-.038958
8	-.013391	.086452	-.160080	.038697	.063549	.036080
9	-.070923	.104764	-.212614	.085779	-.008574	.084029
10	-.015852	.098375	-.268622	.011131	.015863	.078777
11	.050409	.145084	-.274237	-.026939	.057346	.115894
12	.075216	.093669	-.198121	-.059957	.017623	.059849
13	.047285	.007821	-.131909	-.071789	.062304	.015693
14	.031395	-.035252	-.032596	-.006800	.015360	-.037578
15	.002924	-.033235	.031533	.051549	.002200	-.022474
16	.015258	-.058089	.052162	.000807	.029885	-.039904
17	.015346	.009423	.056052	-.016288	.004636	.043731
18	-.001206	.030776	.074223	-.051332	-.009283	.051888
19	-.024543	.061377	.047141	-.025896	-.044528	.079077
20	-.044265	.034593	.088246	.008503	-.052870	.018441
21	-.049392	-.007847	.158179	.033797	-.040224	-.039757
22	-.055461	-.117775	.196231	.093155	-.026243	-.089045
23	-.054209	-.076522	.107769	.016555	-.057901	-.094217
24	-.036871	-.042841	.082892	.030240	.005518	-.079473
25	.002421	.002070	.008139	-.009299	.053778	.007607
26	.006997	.042801	-.075142	-.020215	.037249	.023386
27	-.022988	.011100	-.063441	.019691	-.014222	-.012495
28	.032909	.024950	-.073318	-.003918	.010081	.033200
29	.048033	-.045766	-.063708	-.043892	.009819	.018924
30	.067674	-.015813	-.087235	-.055928	.023373	-.019625

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.004901	-.007111	.003579	.007601	-.002018	-.004883
1	-.064464	-.080567	.040039	.038486	-.033370	-.065732
2	-.503012	-.139171	.092345	.074851	-.084910	-.117220
3	-.494766	-.195559	.141963	-.018692	-.108823	-.151485
4	.269317	-.170587	.100200	-.171517	-.018294	-.131600
5	.052209	-.112691	.050982	-.048992	.026384	-.110423
6	-.599725	-.065074	.038790	.105913	.016193	-.073175
7	-.726823	-.117629	.049260	.245850	.048055	-.120239
8	-.482103	-.197196	.063467	.279366	.055524	-.207095
9-11	.389916	-.124709	.032450	-.162111	.043984	-.128240
12-14	-.319607	-.060675	.020552	.216883	.007516	-.059006
15-21	-.040468	-.060383	.020182	.196826	.002640	-.061946
22-30	.213586	-.045630	.009501	.021479	.037576	-.059374

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NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.58443	0.34867	0.10114	0.21486	0.62328	0.37185
	10E 00	10E 00	10E 00	10E 00	10E-01	10E-01
1	.072046	-.022846	.036170	.119067	-.103493	-.005988
2	.070822	-.041714	.056432	.016208	-.022810	.003021
3	.086506	.001011	.032572	.089527	-.042570	-.010213
4	.076771	.026933	.010917	.071868	-.041640	-.013162
5	.005263	.014091	-.005749	.050702	-.007486	-.019136
6	-.007707	-.031267	-.016025	.011048	.029649	.005076
7	.018483	-.004673	-.023735	-.011250	.053090	.002194
8	.068947	-.020604	-.034719	.099256	-.042642	.027098
9	.050798	-.015291	-.022798	-.033059	-.036990	.026710
10	.034283	.077060	-.011214	-.032711	-.084600	-.026147
11	.035137	.037314	-.005740	-.005259	-.062748	-.034698
12	-.005874	-.015526	-.031991	-.031696	-.055689	.019082
13	.008231	.001811	-.012933	-.023862	-.050079	.000710
14	-.044277	.001947	.035284	-.028938	.054175	-.048001
15	-.062710	.001595	.037629	-.049857	.058688	-.017642
16	-.049009	.041633	.048210	-.046681	.082454	-.050251
17	-.045127	.052052	.038950	-.026820	.022103	-.032359
18	-.032901	.007833	.026484	.043905	.018835	-.013312
19	-.089975	-.029786	.027422	-.031406	.102890	-.012861
20	-.108211	-.013137	.003219	-.026930	.095335	.031556
21	-.038224	.006938	.013601	-.009356	.081603	-.041697
22	-.019083	.006422	-.001467	.064546	.033133	-.025771
23	.015759	.014815	-.019177	-.041324	.013910	.001045
24	.020788	-.034416	-.005992	.076453	-.041419	.046351
25	.072889	-.046594	-.008791	.064721	-.054846	.017546
26	.050409	-.039575	.010699	.003057	-.069224	-.014665
27	.070578	-.004595	-.009305	.029453	-.078289	.008594
28	.055572	.005980	-.035101	-.001455	-.094817	.041850
29	.061330	.015082	-.057100	-.029241	-.049991	.019494
30	.044070	-.020277	-.023469	-.031250	-.010788	.043204

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
1	.033744	.233028	.023342	.030952	-.026742	-.342444
2	.137737	.029371	-.048505	.263867	-.111615	.002252
3	.142676	-.188540	-.027042	.538947	-.061697	.143965
4	.026652	-.131799	.114061	.427855	.063760	-.104752
5	.035472	-.051556	.150543	.242075	-.010930	-.233252
6	.077095	-.024694	.081308	.183853	-.111498	-.123375
7	.094170	.053467	.065788	.176809	-.144245	-.008925
8	.107589	.071153	.089069	.176368	-.105984	.002856
9-11	.033987	-.393318	.031922	-.128584	-.00438	.164037
12-14	-.029882	-.037983	.038655	-.060264	-.007327	-.132950
15-21	.024142	.066574	-.008833	.198014	-.057490	-.001876
22-30	.004862	.020805	-.005562	.195948	-.026776	-.048277

RUN NC 100B   46M   7-3-63   2235-2335(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.94840 10E 00	0.36014 10E 00	0.12819 10E 00	0.10787 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.552922	.123954	.125226	.487140
2	.208656	-.069431	-.116815	.146910
3	.057515	-.128053	-.118031	.074388
4	-.020905	-.112199	-.086104	-.038827
5	-.113836	-.001467	-.058956	-.135805
6	-.129832	-.154350	.042189	-.160444
7	-.120977	-.029340	.130292	-.105878
8	-.188073	.000072	-.098013	-.151548
9	-.260707	-.042969	-.174095	-.190993
10	-.332308	-.080177	-.084902	-.211885
11	-.331239	-.145611	-.054547	-.236113
12	-.205877	-.037997	-.068743	-.198374
13	-.130221	-.077567	-.007234	-.133904
14	-.070098	-.002725	.070392	-.016856
15	-.003697	.046700	.000818	.038708
16	.075313	.115744	.119769	.046692
17	.078348	.212300	-.059947	.044046
18	.081129	.086406	-.035491	.060184
19	.078392	-.036280	-.039664	.025425
20	.083671	-.071228	-.048928	.120030
21	.144811	-.065198	-.048806	.191825
22	.195072	.050862	.059602	.196067
23	.125011	-.086217	.108816	.107946
24	.091464	.090562	.039832	.090989
25	.015698	-.019787	.021322	-.035766
26	-.062045	.028822	-.057183	-.106006
27	-.067887	-.014250	-.032262	-.107799
28	-.036744	-.142579	-.100458	-.146201
29	-.025173	-.097081	.075189	-.110574
30	-.058166	-.102889	.092241	-.110470

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-02	10E-02
0	.002681	.004458	.036269	.006413
1	.043425	.032771	.283663	.047648
2	.102404	.085571	.402254	.097108
3	.155910	.195138	.567397	.150972
4	.110843	.210113	.574698	.112577
5	.055306	.121896	.429503	.069526
6	.041662	.134339	.270187	.058760
7	.053523	.248370	.534904	.062730
8	.066996	.232671	.920334	.073618
9-11	.040131	.163558	.863826	.036799
12-14	.024402	.178519	.420943	.031932
15-21	.021882	.128558	.593063	.032486
22-3C	.013447	.181625	.562257	.018398

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RUN NO 100B 91M 7-3-63 2235-2335(EST)

GROSS STATISTICS

CLEAR	WIND SPEED	8.85 M/SEC	SIGMA A 5.20 DEG
STABLE	WIND DIRECTION	318 DEG	SIGMA E 3.4 DEG
	SOLAR RAD.	0 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.97565E 00	0.75288E 00	0.48724E-00	0.52918E 00
V	0.61916E 00	0.46611E-00	0.44431E-00	0.23213E-00
W	0.26316E-00	0.25276E-00	0.24086E-00	0.10135E-00
T	0.40001E-01	0.12895E-01	0.92815E-02	0.85138E-02
E	0.92898E 00	0.73588E 00	0.58606E 00	
GUSTINESS RATIOS				
U	0.11161	0.09804	0.07887	0.08220
V	0.08891	0.07714	0.07529	0.05444
W	0.05796	0.05681	0.05546	0.03597
COVARIANCES				
U,V	0.13118E-00	0.51791E-01	0.51034E-01	0.34963E-01
U,W	-0.19689E-00	-0.18155E-00	-0.12518E-00	-0.11762E-00
U,T	0.85408E-01	0.66607E-01	0.39455E-01	0.53182E-01
V,W	-0.45537E-01	-0.25439E-01	-0.32322E-01	-0.15183E-01
V,T	0.25541E-01	0.12910E-01	0.11285E-01	0.86918E-02
W,T	-0.23717E-01	-0.24760E-01	-0.19944E-01	-0.14995E-01
WE	0.50869E-02	0.17078E-01	0.19976E-01	
NORMALIZED COVARIANCES				
U,V	0.16877	0.08743	0.10985	0.09976
U,W	-0.38858	-0.41617	-0.35541	-0.50791
U,T	0.43233	0.67600	0.58670	0.79233
V,W	-0.11281	-0.07412	-0.09884	-0.09899
V,T	0.16230	0.16652	0.17579	0.19552
W,T	-0.23116	-0.43370	-0.42180	-0.51047

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.46517	0.34260	0.67260	0.32704	0.64205	0.47288
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.109846	-.365504	.586824	-.099068	.175693	-.421631
1	.099057	-.327309	.556196	-.083446	.160127	-.352340
2	.083364	-.261932	.483610	-.055934	.130677	-.260094
3	.066770	-.200563	.399758	-.033727	.100917	-.182857
4	.045272	-.142749	.314678	-.017554	.074076	-.116767
5	.030446	-.086437	.231639	-.006660	.052518	-.063708
6	.023924	-.046550	.166105	-.004485	.028055	-.030288
7	.018292	-.027481	.115103	-.000059	.009190	-.012204
8	.011179	-.015483	.071093	.008285	-.002295	.002405
9	.004309	.004059	.030554	.016000	-.008430	.015419
10	-.004137	.026497	-.010347	.026310	-.015404	.026665
11	-.008407	.048083	-.044726	.039105	-.020281	.032199
12	-.003957	.066881	-.067891	.039219	-.019837	.040851
13	.004625	.076560	-.087981	.022964	-.013043	.058904
14	.007206	.078933	-.104188	.003265	-.009158	.074653
15	-.000002	.082784	-.119604	-.004902	-.015056	.083160
16	-.009555	.086178	-.135918	-.007153	-.019898	.088686
17	-.016597	.089862	-.149436	-.005293	-.026124	.092063
18	-.034095	.100443	-.161939	.018419	-.041648	.094829
19	-.055189	.112896	-.180190	.049451	-.060381	.101920
20	-.072740	.122248	-.192731	.064246	-.073936	.107265
21	-.090095	.129085	-.197135	.064367	-.085688	.111707
22	-.098535	.128488	-.195747	.060710	-.095752	.115498
23	-.100503	.115505	-.188583	.062735	-.096708	.112369
24	-.097702	.104053	-.183676	.062585	-.095799	.101606
25	-.093670	.086806	-.174322	.054683	-.089742	.085717
26	-.089289	.066067	-.159328	.046136	-.079317	.078138
27	-.080577	.053623	-.141323	.035037	-.061104	.067683
28	-.068221	.042793	-.118719	.021371	-.043982	.055324
29	-.048152	.032973	-.100958	.000791	-.028087	.043854
30	-.027674	.025144	-.088984	-.016843	-.010086	.023450
31	-.012723	.008695	-.071677	-.025045	.004960	-.009485
32	.008648	-.012179	-.051960	-.029905	.016891	-.029932
33	.035823	-.032481	-.032724	-.042312	.027136	-.037526
34	.057842	-.050389	-.014183	-.049055	.034582	-.042934
35	.069132	-.063114	.001096	-.050032	.046358	-.049402
36	.074122	-.067162	.009010	-.057294	.051294	-.050859
37	.072746	-.063074	.011285	-.072205	.049544	-.045257
38	.068621	-.066260	.015271	-.084421	.041521	-.038378
39	.062598	-.066930	.013628	-.081749	.035687	-.033271
40	.054029	-.058032	.007230	-.074917	.036004	-.024803
41	.048369	-.040881	.000089	-.068980	.038346	-.020615
42	.050768	-.027446	-.002993	-.060007	.043646	-.018704
43	.062805	-.023252	.003156	-.052370	.055466	-.022514
44	.072262	-.023546	.013133	-.046258	.058629	-.023428
45	.072568	-.019973	.018719	-.031331	.050609	-.019717
46	.067781	-.018150	.019904	-.018593	.041034	-.015239
47	.061836	-.025246	.022047	-.004341	.035010	-.024514
48	.051973	-.028948	.026145	.000319	.027228	-.032797
49	.039241	-.023647	.026238	.006070	.016972	-.040002
50	.025967	-.013810	.023899	.014559	.006300	-.044169
51	.007335	.002564	.015980	.027804	-.007360	-.038803
52	-.018139	.024871	.001425	.040929	-.025748	-.025864
53	-.042550	.039796	-.008548	.057952	-.048643	-.010846
54	-.061138	.042866	-.014825	.074444	-.073107	.005185
55	-.069789	.046860	-.021992	.080331	-.079255	.020546
56	-.072637	.047125	-.021923	.069079	-.075635	.027892
57	-.074069	.046649	-.018662	.057212	-.067918	.031086
58	-.076983	.041672	-.012701	.049897	-.064157	.031424
59	-.076490	.032425	-.003349	.037087	-.056465	.029470
60	-.073367	.021420	.004274	.026112	-.044592	.035337

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.46517	0.34260	0.67260	0.32704	0.64205	0.47288
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.002122	-.009834	.014631	-.010322	.007558	.010671
2	.000139	-.003536	.022492	-.013810	.016604	.007360
3	.001229	.009048	.025915	-.011649	.016997	.006028
4	.000631	.012956	.033344	-.017600	.011538	.005512
5	-.001811	.011126	.041195	-.028349	.005549	.004145
6	-.003266	.007186	.044862	-.030290	.002630	.000013
7	-.002697	.005560	.044520	-.028751	.001414	-.008097
8	-.000778	.011305	.040425	-.028125	-.001286	-.012845
9	-.004742	.015643	.035421	-.026115	-.006179	-.016962
10	-.009482	.011089	.033963	-.019644	-.007762	-.019623
11	-.010615	.002068	.032741	-.016875	-.004074	-.021317
12	-.010638	-.000756	.029436	-.008427	-.007798	-.019007
13	-.014171	-.002819	.026475	-.004385	-.007520	-.016413
14	-.011956	-.006093	.019984	-.003347	-.006447	-.013238
15	-.009631	-.007965	.015898	-.007123	-.005550	-.012103
16	-.012375	-.002602	.011164	-.010012	-.004079	-.016644
17	-.016804	.010879	.001162	-.012613	-.004333	-.018496
18	-.009111	.019125	-.002297	-.004189	-.005362	-.010470
19	.010241	.022771	.001589	.004488	-.007419	-.008613
20	.026065	.025100	.001973	.011801	-.011255	-.004734
21	.033541	.026216	.002496	.018281	-.016022	.000530
22	.034695	.022782	.006630	.016856	-.015997	.005370
23	.031851	.014997	.011615	.002004	-.009454	.008764
24	.027366	.006860	.021433	-.014528	.000359	.003355
25	.019059	-.004281	.030157	-.021480	.012051	.000570
26	.006936	-.018122	.027235	-.025100	.020597	-.000558
27	.001972	-.030012	.018036	-.022369	.019515	.001210
28	-.002986	-.031635	.006698	-.019276	.015347	.007548
29	-.001264	-.031284	.000568	-.011870	.010584	.019878
30	.004546	-.032734	.001001	-.000577	-.001818	.023248
31	.008928	-.032316	.002292	.000409	-.010427	.018275
32	.012503	-.026166	.006991	.004080	-.009956	.016443
33	.014606	-.029089	.017900	.007790	-.006012	.014105
34	.011033	-.030580	.027922	.007722	-.003655	.012203
35	.008942	-.035630	.030428	.013650	-.000806	.014203
36	.012901	-.042298	.029451	.018281	.003670	.017259
37	.018721	-.044925	.026815	.020174	.005159	.020176
38	.020883	-.044036	.021526	.022592	.000564	.023206
39	.016870	-.039271	.014681	.027149	-.007940	.025570
40	.013709	-.032323	.007817	.025478	-.014650	.032109
41	.019473	-.030806	.006133	.024618	-.017488	.035839
42	.023080	-.026880	.007906	.018225	-.022149	.030944
43	.017873	-.022785	.006035	.000609	-.015818	.011894
44	.012121	-.015883	.003125	-.014296	-.014529	.012794
45	.008290	-.006683	.003172	-.017098	-.025759	.009416
46	.009938	.001236	.002205	-.012480	-.035520	.007950
47	.009610	.006434	-.001883	-.002545	-.043975	.006254
48	.009400	.011668	-.008414	.000169	-.044657	-.001531
49	.010097	.020500	-.014381	.003255	-.038156	-.012628
50	.009401	.023299	-.018149	.009667	-.035346	-.021900
51	.011565	.028413	-.021049	.020189	-.031258	-.030213
52	.014199	.031125	-.026583	.035003	-.029086	-.034769
53	.009382	.037872	-.033448	.048545	-.032828	-.038528
54	.000480	.051458	-.038541	.053993	-.033266	-.038803
55	-.007757	.060543	-.044371	.054921	-.029125	-.036947
56	-.007249	.062499	-.051833	.048898	-.024717	-.034006
57	-.004929	.058423	-.061625	.042847	-.019020	-.031800
58	-.004615	.050451	-.064859	.030225	-.010543	-.024959
59	-.004064	.040296	-.055085	.020290	.001262	-.017237
60	-.008308	.035366	-.046449	.012529	.009185	-.016532

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NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.48730	0.44403	0.24087	0.92837
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.862434	.799713	.721350	.849588
2	.686123	.546112	.421285	.656446
3	.538765	.372365	.238854	.497222
4	.411071	.253603	.118472	.365901
5	.298828	.161440	.034107	.253493
6	.205213	.091374	-.015288	.160216
7	.127499	.030752	-.050703	.093302
8	.064701	-.021817	-.078234	.049622
9	.014906	-.069279	-.094009	.010477
10	-.025019	-.108460	-.113331	-.027454
11	-.056981	-.133717	-.130328	-.054007
12	-.089990	-.152216	-.136080	-.081419
13	-.126351	-.176641	-.138770	-.117538
14	-.158969	-.186976	-.131351	-.146126
15	-.184023	-.175110	-.112378	-.167022
16	-.212668	-.162757	-.111892	-.180297
17	-.243234	-.167125	-.113808	-.192944
18	-.262042	-.171478	-.115238	-.210827
19	-.265863	-.166184	-.129233	-.230727
20	-.265943	-.163546	-.132704	-.244178
21	-.263738	-.164439	-.137629	-.263365
22	-.256934	-.163664	-.145021	-.271731
23	-.248578	-.163411	-.141322	-.264892
24	-.239393	-.164280	-.137478	-.253056
25	-.224042	-.161601	-.124203	-.240917
26	-.205476	-.161011	-.110759	-.229556
27	-.188699	-.152282	-.097835	-.211226
28	-.168742	-.145718	-.090018	-.192638
29	-.146641	-.139992	-.083405	-.176402
30	-.118484	-.103429	-.049301	-.146597
31	-.085102	-.056760	.002360	-.107022
32	-.056512	-.016905	.018144	-.067141
33	-.036283	.013408	.027414	-.043115
34	-.020063	.026998	.038343	-.024455
35	-.000799	.028037	.054745	-.003207
36	.012420	.019861	.063104	.008460
37	.021373	.024278	.066585	.009324
38	.017765	.034159	.058050	.014174
39	.006573	.038623	.041153	.021129
40	-.000070	.028240	.019025	.027712
41	-.005303	.019568	.006462	.039726
42	-.008835	.025293	.007610	.052115
43	-.006690	.032746	.028897	.066266
44	-.003290	.034924	.039264	.072335
45	-.004738	.029859	.047219	.067838
46	-.006521	.016118	.056302	.063728
47	-.010291	.011106	.061487	.070015
48	-.012860	.024611	.065799	.079133
49	-.009159	.045084	.063250	.082401
50	-.005388	.062551	.054675	.078390
51	-.010606	.063573	.044214	.068271
52	-.016812	.056301	.036643	.059229
53	-.010872	.047512	.024613	.040435
54	-.005175	.041767	.011436	.014673
55	.006096	.031096	-.011071	-.010184
56	.021022	.017869	-.024776	-.022938
57	.030322	.013424	-.018376	-.027515
58	.036837	.014617	-.014487	-.028050
59	.041328	.003824	-.011019	-.031204
60	.048139	-.013533	-.014034	-.036029

RUN NC 100B   91M   7-3-63   2235-2335(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
0	.001286	-.012261	.065392	.003104	.010629	-.015465
1	.025015	-.101021	.601390	.141710	.091622	-.140931
2	.113486	-.176730	.773383	-.283480	.190361	-.242064
3	.163952	-.253136	.833072	-.817772	.263580	-.330156
4	.033560	-.174905	.534508	-.345364	.121718	-.232644
5	-.037115	-.080016	.280924	.077452	.019618	-.115647
6	.019557	-.070748	.217276	-.232214	.060434	-.102103
7-8	.058106	-.069235	.185950	-.396881	.107076	-.115730
9-11	.010505	-.036663	.085358	-.023279	.025384	-.075461
12-15	.006294	-.027030	.042895	-.106429	.012355	-.045924
16-2C	.005436	-.005518	.013759	-.054814	.007763	-.020845
21-27	-.001156	-.003911	.004141	-.026477	.005538	-.010515
28-36	.001143	-.004409	.003739	-.013143	.001209	-.009539
37-47	.001177	-.001072	.000523	-.002802	.000621	-.005320
48-60	.000402	-.000661	-.000017	-.002184	.000430	-.003375

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	.301460	-.187008	.115858	-.154813	-.214646	.036393
2	-.071451	.207089	.069269	-.226036	-.011260	-.299677
3	-.215871	.233310	.055848	-.182946	-.139068	-.305016
4	-.168689	-.123873	.071187	-.147054	.062008	.010021
5	-.055168	-.076383	.055652	-.230952	.239328	.056983
6	.164648	.107994	.036363	-.199353	.172619	.127611
7-8	.156990	.140607	.010416	.028510	.051572	.117897
9-11	-.099581	-.094754	.005882	-.045210	.191958	.064571
12-15	.020632	.015358	-.002058	.040235	.038996	.016582
16-20	.020658	-.025418	.000235	-.005592	.024290	.011634
21-27	-.016199	-.044246	.003700	-.022443	.006822	.020977
28-36	-.007614	-.007869	.000979	-.013033	-.019340	.019712
37-47	-.005568	-.003483	-.000042	.005768	-.006732	.009328
48-6C	-.002934	.000344	-.000109	-.000695	-.002717	.003667

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.060434	.022417	.004909	.010054
1	.603313	.314754	.093668	.102966
2	.779956	.497653	.183254	.144024
3	.859793	.612242	.256001	.156475
4	.589913	.467091	.206895	.097463
5	.326170	.332265	.152133	.058071
6	.253679	.305274	.151385	.052085
7-8	.216400	.227838	.143014	.046872
9-11	.144220	.134282	.089126	.028475
12-15	.066908	.100513	.069059	.016763
16-2C	.042308	.064269	.044405	.008140
21-27	.027392	.042605	.030517	.005690
28-36	.017706	.026561	.020250	.003856
37-47	.011615	.015033	.013282	.002267
49-60	.007327	.008727	.008150	.001547

RUN NC 100B   91M   7-3-63   2235-2335(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.35059	0.23167	0.67124	0.15343	0.44453	0.29375
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.099728	-.50'707	.792302	-.098961	.195528	-,510445
1	.066607	-.24,622	.418232	-.018105	.079273	-.188034
2	-.005733	-.063160	.154901	.040244	-.011686	-.003855
3	-.031273	-.064319	.074338	-.019770	-.023242	-.039094
4	.070647	-.033102	-.023935	-.109648	.050003	.009198
5	.026251	.065662	-.078576	.048513	-.025991	.048840
6	-.067093	.119175	-.139071	.076187	-.054625	.125818
7	.025770	.135125	-.135700	.018919	.044648	.125168
8	.048058	.119665	-.165814	.003554	.026488	.049143
9	.047445	.116221	-.183209	-.091662	.080351	.044262
10	-.040945	.108357	-,162711	.000618	-.007853	.065665
11	-.025132	.077686	-.102659	.005712	-.064983	.027999
12	-.026704	.092928	-.070690	.047010	-.031615	.077505
13	.028059	.033662	.001096	-.016735	-.043042	.004178
14	.039851	-.057468	.090070	.062670	.020011	-.044349
15	-.043243	-.026459	.056245	-.003454	.037112	-.025233
16	-.047495	-.091708	.050802	-.007701	-.027548	-.035929
17	-.032117	-.101717	.050557	.021888	-.077803	-.031755
18	-.005948	-.069119	.041336	-.004914	-.040117	-.080367
19	-.021148	-.044888	.053145	.018811	-.039560	-.033384
20	.009242	-.022757	-.034417	-.025495	-.001561	-.005397
21	-.079959	.045053	-.045217	-.020210	-.050633	.024466
22	-.037191	-.002913	-.053727	-.016698	-.004958	.035983
23	.024488	.003222	-.072876	.055180	.008436	.013783
24	-.040953	.077342	-.074291	.066744	-.021037	.075806
25	.010739	.108250	-.129896	-.005379	.037566	.066866
26	.008044	.100607	-.116407	-.003907	-.027463	.089613
27	-.054585	.075705	-.099663	.007455	-.033096	.048238
28	-.020479	.112541	-.125379	.032059	.006056	.115402
29	.021587	.024311	-.049452	-.078895	.031703	.018845
30	.011972	.032201	.007379	.031456	.017153	-.010927

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-03	10E-02
0	.116138	-.007607	.059237	-.012269	.136711	-.008129
1	.693003	-.053991	.370804	-.116314	.968393	-.055583
2	.414855	-.088049	.429394	-.101104	.710470	-.077010
3	.129862	-.172716	.696296	-.077401	.306236	-.150488
4	.110906	-.170395	.737321	-.043694	.234075	-.164808
5	.173651	-.084370	.447633	-.071557	.420307	-.107265
6	.167010	-.050494	.258220	-.156370	.503885	-.086786
7	.217026	-.054377	.238742	-.095654	.791255	-.081184
8	.283734	-.044607	.261719	.043825	.953879	-.059107
9-11	.025879	-.028840	.203222	.154372	.023517	-.035974
12-14	.522980	-.049774	.156823	-.234841	.701673	-.079858
15-21	.018519	-.038986	.130067	-.163861	.382749	-.056027
22-3C	-.001640	-.017271	.089424	.016639	.076516	-.034804

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.35059	0.23167	0.67124	0.15343	0.44453	0.29375
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.000106	-.029968	.066435	-.097817	-.005527	.011511
2	.013954	-.026173	.072235	.005144	-.029015	.028585
3	.039234	-.046486	.078640	-.027056	-.042409	.017417
4	.024157	-.021672	.061376	.023393	-.058013	.041669
5	-.019105	.024941	.019364	.005915	-.035597	-.009929
6	-.030174	.066024	-.004078	-.002672	.004914	-.042430
7	-.058170	.037106	.021370	-.102867	.048287	-.008160
8	-.028423	-.023596	.030716	-.041302	.091733	.002158
9	.059746	-.023705	.013930	.021694	-.056571	.008236
10	.112119	-.017274	-.001049	.084496	-.136855	.001011
11	.040516	.039640	-.024313	.006018	-.026880	-.031640
12	.009626	-.011265	.013293	-.009149	.021861	-.037981
13	.054526	-.060222	-.000838	.050838	-.026647	.091334
14	.038232	-.043403	-.042167	.025657	-.057788	.058589
15	.029589	-.019290	-.017498	.086086	-.040982	.022081
16	.023891	-.019348	.014294	-.014689	.018317	-.034665
17	.041925	.008235	-.030181	-.016801	-.002870	-.025138
18	-.023435	-.028978	.012494	-.018012	.033290	.010518
19	-.070414	-.018444	.043547	.036526	.055873	-.036431
20	-.079307	.040085	.013183	.020527	.088300	-.061159
21	-.072168	.013012	.031176	-.029679	.052296	.000678
22	-.042343	.018222	-.019853	-.060640	-.007250	.031508
23	-.025141	.064957	-.024714	-.026903	-.028991	-.019836
24	.017277	.083693	.008240	.039565	-.034768	-.095189
25	.014705	.016702	.012651	-.006249	.010801	.037554
26	-.025778	-.018782	-.001934	.007131	.045834	.059381
27	-.056630	.007472	-.045295	-.024583	.082237	.008531
28	.020954	.032782	-.041251	.000875	.021716	-.045665
29	.008813	.032185	-.072408	-.078002	.031944	-.005257
30	.021543	-.050942	-.036927	.017418	.003298	.025690

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	.471417	-.127821	.066583	.074286	-.527071	.036779
2	.332873	-.034171	.077517	-.041257	-.541646	.072176
3	-.283804	.150416	.115164	-.192498	-.071372	-.040180
4	-.413760	-.004690	.115856	-.149975	.143910	.008822
5	.210755	-.222954	.071254	.020356	-.484882	.299183
6	.410987	-.224567	.068055	.079305	-.759806	.301132
7	.420924	-.246159	.090213	.043999	-.478950	.059443
8	.533241	-.233368	.070853	-.046195	-.432795	.024496
9-11	-.245143	-.113930	.043245	-.235911	.566694	.115187
12-14	-.036450	.184390	-.020719	-.017565	-.283792	-.165485
15-21	-.028794	-.066877	.024364	-.110621	.037072	.074691
22-3C	.000047	-.019569	.001039	-.149429	.068255	-.084070

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RUN NC 1008 91M 7-3-63 2235-2335(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.52938 10E 00	0.23218 10E 00	0.10139 10E 00	0.85110 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.525246	.035824	.042328	.421058
2	.191570	-.125756	-.007030	.088966
3	-.106361	-.083890	.020387	.007396
4	-.039784	-.095394	.021814	-.043250
5	-.109404	.005831	-.022025	-.070177
6	-.145708	-.066093	-.107026	-.168896
7	-.175234	-.007438	-.082237	-.145762
8	-.261001	-.074798	-.134096	-.109006
9	-.265351	.059356	-.112835	-.116878
10	-.230073	-.066712	-.142112	-.107604
11	-.165842	-.001326	-.036085	-.069945
12	-.081199	-.057168	-.127605	-.056448
13	.004161	.024834	-.073761	-.029628
14	.075294	-.006693	-.006964	.053804
15	.083637	-.008578	-.036318	.011099
16	.134450	.045329	.164560	.005949
17	.154320	-.001372	-.007636	-.002882
18	.122173	.012916	.162908	.035335
19	.086261	-.021040	.057741	.019833
20	-.043680	-.057718	.060514	-.065589
21	-.054705	-.034359	.032650	-.019427
22	-.076565	-.003142	.009657	.013544
23	-.129546	-.063965	.059912	.008646
24	-.121148	.056244	-.048738	-.066216
25	-.209319	.018997	-.078874	-.109926
26	-.203001	-.107364	-.051562	-.081232
27	-.135432	-.056527	-.108526	-.068034
28	-.161899	-.012237	-.113847	-.081589
29	-.098587	.030651	.022078	-.013960
30	.009276	-.004872	-.065414	.052485

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.053884	.005343	.021180	.078863
1	.331042	.043922	.178998	.492663
2	.412258	.047601	.414369	.557684
3	.746420	.068737	.776900	.804136
4	.777472	.088614	.634971	.850467
5	.403768	.086745	.303881	.666390
6	.224542	.088410	.283801	.508617
7	.241913	.109432	.328782	.443660
8	.249918	.113310	.288794	.428615
9-11	.223499	.108369	.340071	.341729
12-14	.135381	.121058	.412780	.354576
15-21	.139543	.105115	.466590	.236097
22-30	.082477	.123661	.588145	.202975

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RUN NC  100B  46M    7-3-63   2235-2335(EST)
RUN NC  100B  91M    7-3-63   2235-2335(EST)
    61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.395489	.018917	.309116	.518493
1	.428315	.566017	.327825	.547804
2	.396824	.504063	.207529	.531817
3	.322283	.417664	.106119	.505478
4	.218707	.330065	.072513	.408894
5	.159168	.348578	.113330	.250397
6	.041282	.371397	.189576	.148534
7-8	.071560	.204970	.265020	.199724
9-11	.076910	.130306	.087194	.161397
12-15	.121561	.068382	.095717	.095457
16-20	.072183	.098741	.126774	.106631
21-27	.081691	.125797	.110080	.071942
28-36	.086031	.089462	.097642	.116685
37-47	.107837	.099798	.102651	.099423
48-60	.111110	.094656	.099734	.111120

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 01	10E 00	10E 00	10E 01
0	.104043	.104522	.145963	.100837
1	.083883	.109695	.491642	.084643
2	.050899	.242003	.309085	.054669
3	.044695	.472135	.261702	.058242
4	.059520	.575144	.301102	.069871
5	.062261	.664378	.396918	.072944
6	.018966	.588547	.097114	.063260
7	.014573	.569206	.144046	.046279
8	.052148	.564955	.371226	.056093
9-11	.038778	.636159	.530113	.043289
12-14	.047732	.376663	.311299	.053008
15-21	.039406	.411688	.216371	.051462
22-30	.026976	.264939	.266450	.028249

GROSS STATISTICS

1 CO UNSTABLE	WIND SPEED 5.59 M/SEC	SIGMA A 14.9 DEG
	WIND DIRECTION 284 DEG	SIGMA E 7.8 DEG
	SOLAR RAD. 1.05 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.21777E 01	0.20444E 01	0.12262E 01	0.15083E 01
V	0.19820E 01	0.16056E 01	0.80335E 00	0.11929E 01
W	0.45769E-00	0.46308E-00	0.42638E-00	0.18793E-00
T	0.72156E 00	0.12703E-00	0.40174E-01	0.11002E-00
E	0.23087E 01	0.20566E 01	0.12280E 01	
GUSTINESS RATIOS				
U	0.26399	0.25578	0.19809	0.21970
V	0.25185	0.22668	0.15034	0.19538
W	0.17102	0.12173	0.11681	0.07755
COVARIANCES				
U,V	-0.37772E-00	-0.28638E-00	0.24755E-01	-0.30193E-00
U,W	-0.38765E-00	-0.39528E-00	-0.31358E-00	-0.27649E-00
U,T	-0.44038E-00	-0.27594E-00	-0.12535E-00	-0.22725E-00
V,W	-0.22327E-01	-0.16186E-01	-0.14314E-01	-0.77274E-02
V,T	0.16859E-00	0.78880E-01	0.24295E-01	0.65248E-01
W,T	0.62682E-01	0.30109E-01	0.21678E-01	0.26123E-01
WE	0.10262E-00	0.84749E-01	0.12078E-00	
NORMALIZED COVARIANCES				
U,V	-0.18181	-0.15807	0.02494	-0.22510
U,W	-0.38829	-0.40625	-0.43382	-0.51934
U,T	-0.35131	-0.54147	-0.55478	-0.55786
V,W	-0.02344	-0.01877	-0.02446	-0.01632
V,T	0.14098	0.17466	0.13524	0.18010
W,T	0.10907	0.12414	0.16563	0.18167

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.99237	0.72297	0.22192	0.58522	0.17964	0.13087
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.024664	-.433760	-.564944	-.024267	.135153	.165451
1	.018609	-.391313	-.509217	-.020675	.112523	.172339
2	.004778	-.320000	-.428876	-.011839	.086142	.153190
3	-.009428	-.256665	-.356921	-.003349	.067995	.138810
4	-.020075	-.201860	-.300077	-.004083	.056589	.117736
5	-.024889	-.160881	-.252485	-.007642	.044069	.098081
6	-.020643	-.123414	-.209166	-.008839	.030528	.083515
7	-.020622	-.087079	-.165694	-.010270	.024191	.071767
8	-.020409	-.050628	-.122952	-.010526	.020814	.045726
9	-.018350	-.018660	-.080881	-.008953	.015492	.026898
10	-.015546	.005590	-.042560	-.016664	.009755	.012986
11	-.007633	.019891	-.003199	-.021212	.001626	-.000019
12	.000686	.034672	.029315	-.022085	-.005218	-.013902
13	.007434	.061656	.054964	-.018535	-.013668	-.038570
14	.016591	.092709	.077170	-.025971	-.015653	-.059210
15	.022553	.111203	.092036	-.028735	-.016194	-.067653
16	.024882	.127321	.106094	-.016561	-.014971	-.071503
17	.023885	.140465	.119318	-.008301	-.016107	-.073011
18	.019533	.141571	.126539	-.003675	-.020163	-.067948
19	.013575	.140150	.135674	.008015	-.021310	-.058839
20	.004954	.138214	.143360	.023001	-.017546	-.050385
21	.001936	.138999	.152441	.027206	-.016122	-.051987
22	.001544	.136622	.162916	.026234	-.017669	-.051791
23	-.003910	.133064	.168777	.122249	-.015446	-.048557
24	-.014787	.128276	.170901	.030173	-.013756	-.046984
25	-.024033	.123487	.168658	.036759	-.018486	-.041884
26	-.022344	.116782	.164740	.034740	-.027485	-.038727
27	-.016409	.111630	.152322	.030617	-.031750	-.036222
28	-.013052	.105839	.139581	.031132	-.038096	-.033228
29	-.010150	.094324	.129589	.037137	-.043452	-.030434
30	-.008486	.070700	.116563	.047158	-.040837	-.023412
31	-.003965	.045747	.101010	.049932	-.042676	-.018118
32	-.007017	.024553	.083320	.046533	-.041979	-.017714
33	-.014787	.008808	.068495	.040919	-.035162	-.014893
34	-.019343	.000862	.053950	.035644	-.021743	-.011118
35	-.025851	.000450	.044078	.032991	-.010502	-.014093
36	-.034879	.003051	.037553	.035342	.003707	-.016582
37	-.039709	.000921	.030035	.033200	.015948	.019873
38	-.043447	-.004029	.022601	.024774	.027531	-.022578
39	-.043240	-.010263	.023658	.012281	.033531	-.025866
40	-.039903	-.019747	.025552	.000251	.036721	-.017914
41	-.031612	-.032717	.026087	-.015611	.038097	-.008328
42	-.023317	-.039499	.026777	-.023904	.034185	.001983
43	-.012999	-.038908	.026301	-.029836	.025614	.000064
44	-.008329	-.038970	.030482	-.034752	.021474	.001704
45	-.000738	-.032544	.034542	-.043809	.018959	-.000197
46	.008950	-.025198	.041458	-.057355	.015801	-.010181
47	.022047	-.014416	.042897	-.059573	.003264	-.021153
48	.028725	-.005714	.042703	-.054521	-.005105	-.024788
49	.031165	.001802	.044907	-.047262	-.007400	-.027758
50	.035699	.010104	.044627	-.036507	-.007409	-.026745
51	.039803	.020723	.041711	-.027179	-.014957	-.020988
52	.043806	.021559	.036409	-.021757	-.026126	-.023609
53	.045507	.012012	.025745	-.027567	-.030939	-.029744
54	.045545	-.006759	.024241	-.035710	-.028056	-.028813
55	.045095	-.023679	.024173	-.041328	-.019920	-.022954
56	.044813	-.029030	.021568	-.036525	-.014727	-.017561
57	.044263	-.026086	.016245	-.037857	-.017103	-.019978
58	.042374	-.023120	.004169	-.035349	-.022140	-.025088
59	.042511	-.027586	-.011011	-.028564	-.026133	-.019708
60	.037106	-.030134	-.026311	-.014123	-.028159	-.002414

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61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.99237	0.72297	0.22192	0.58522	0.17964	0.13087
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
1	.015166	-.056076	-.037531	-.009103	.005638	-.013341
2	.036566	-.084583	-.066285	-.005365	.014088	-.015877
3	.058113	-.089035	-.089039	.002703	.020317	-.006341
4	.076244	-.082611	-.107946	.010802	.031313	.013086
5	.090062	-.066613	-.124056	.015569	.047013	.033184
6	.100361	-.057137	-.136282	.025891	.054902	.040115
7	.104575	-.051977	-.143798	.034701	.056124	.050528
8	.105010	-.046626	-.153626	.038981	.051951	.055126
9	.099431	-.037222	-.164914	.038709	.046823	.055416
10	.096495	-.026708	-.168578	.039907	.039489	.050928
11	.094228	-.010822	-.163487	.045018	.036307	.047590
12	.091964	-.006126	-.158983	.046246	.036605	.046116
13	.081472	-.006267	-.153837	.042041	.029987	.049922
14	.073392	-.001190	-.151344	.037806	.025368	.057432
15	.065140	-.000530	-.143445	.037247	.021083	.055755
16	.054029	-.004017	-.132287	.023837	.017484	.052183
17	.038095	-.002653	-.123905	.006643	.016591	.056236
18	.028276	.001028	-.111950	.003295	.012060	.050177
19	.023576	-.001781	-.100705	.007743	.010247	.031814
20	.024898	-.014039	-.090803	.005037	.008697	.017192
21	.024627	-.025585	-.076978	-.000314	.011685	.006085
22	.016007	-.030739	-.056986	-.012558	.012836	-.005710
23	-.001666	-.030306	-.037538	-.021157	.007938	-.011810
24	-.018547	-.025070	-.028403	-.029283	-.000550	-.010858
25	-.039265	-.016282	-.022265	-.027892	-.007773	-.008926
26	-.055101	-.017113	-.017805	-.024295	-.014174	-.013707
27	-.058296	-.020661	-.010295	-.017137	-.015094	-.025013
28	-.055231	-.017645	-.000830	-.014265	-.011741	-.032868
29	-.055252	-.007330	.001620	-.017620	-.013884	-.028150
30	-.048970	.007319	.003674	-.021913	-.013368	-.022166
31	-.043139	.017281	.008592	-.021884	-.020530	-.020101
32	-.037686	.018009	.015593	-.026390	-.022197	-.013673
33	-.034186	.014968	.020283	-.033194	-.023633	-.008189
34	-.022791	.010749	.019754	-.042773	-.021891	-.007382
35	-.012011	.002107	.023116	-.050420	-.014313	-.007144
36	-.002675	.000956	.027988	-.045813	-.011263	-.007956
37	.010327	.002822	.027639	-.028870	-.001959	-.012908
38	.022099	.005630	.025757	-.014798	.013247	-.012717
39	.031779	.011187	.029040	-.003236	.032739	-.010610
40	.034207	.015157	.033126	.001624	.048746	-.010014
41	.044058	.015682	.037040	.007746	.059088	-.011652
42	.055911	.018808	.038086	.014935	.066816	-.015895
43	.058816	.018414	.039831	.020392	.065847	-.022698
44	.057874	.020571	.041072	.029009	.059517	-.022539
45	.057079	.024509	.045501	.038027	.046070	-.014869
46	.056231	.022811	.051504	.042785	.032273	-.010125
47	.048877	.022415	.051642	.042402	.015517	-.006755
48	.036193	.018917	.046646	.042387	.010391	.000417
49	.022269	.014039	.042883	.036819	.008102	.000844
50	.012481	.016697	.041203	.024569	.004726	-.001223
51	.004953	.019581	.043352	.011927	-.001598	.001459
52	-.002109	.019749	.047367	-.002223	-.005119	.001458
53	-.009059	.015972	.051722	-.008303	-.009508	-.001735
54	-.012119	.011207	.054948	-.009984	-.013877	-.003703
55	-.014933	.010368	.055502	-.008717	-.018134	-.004034
56	-.015451	.002660	.057240	-.002725	-.018958	-.004887
57	-.011302	-.003166	.057092	-.000977	-.018461	-.008991
58	-.007246	-.004609	.054818	-.000267	-.015234	-.006706
59	-.005704	-.006179	.049935	.002861	-.010046	.000139
60	-.008235	-.012551	.047678	.012343	-.014437	.006703

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12260 10E 01	0.80329 10E 00	0.42635 10E 00	0.40173 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.860184	.812164	.686560	.851314
2	.688443	.599187	.385972	.699049
3	.551594	.457865	.216998	.583641
4	.446016	.350339	.118232	.498939
5	.357916	.254114	.057460	.426250
6	.280050	.170295	.035125	.361599
7	.203308	.106912	.011673	.297321
8	.130723	.056551	-.024991	.240749
9	.062618	.021165	-.071440	.184077
10	.000321	-.000228	-.090849	.134279
11	-.048814	-.019352	-.087466	.083632
12	-.094607	-.046399	-.083259	.036875
13	-.137281	-.075436	-.092122	.000123
14	-.174156	-.095063	-.097751	-.039487
15	-.196036	-.102296	-.104595	-.074438
16	-.216010	-.104949	-.116233	-.106330
17	-.239985	-.117054	-.110492	-.132032
18	-.257757	-.135439	-.102810	-.156103
19	-.266944	-.154807	-.109557	-.175996
20	-.276188	-.161890	-.114966	-.195122
21	-.287962	-.178610	-.121634	-.213025
22	-.289162	-.194558	-.144630	-.232329
23	-.284835	-.202247	-.152613	-.250867
24	-.278881	-.207989	-.154247	-.267127
25	-.270841	-.213176	-.159019	-.280349
26	-.259001	-.219030	-.153143	-.282154
27	-.239453	-.212590	-.153833	-.275768
28	-.215706	-.193467	-.144805	-.272448
29	-.188256	-.171415	-.118781	-.272126
30	-.151214	-.143575	-.085778	-.253401
31	-.109732	-.110175	-.043472	-.222574
32	-.067341	-.094564	-.004485	-.196062
33	-.032879	-.081380	.020264	-.177417
34	-.008281	-.068069	.022634	-.162921
35	.007180	-.048890	.030409	-.148915
36	.012322	-.033250	.025652	-.141578
37	.018398	-.021179	.025679	-.122895
38	.024801	-.013031	.028620	-.104433
39	.026849	-.006390	.032249	-.097022
40	.021911	.002630	.035349	-.092129
41	.018264	.003332	.038147	-.085489
42	.018977	-.012194	.031835	-.081632
43	.023998	-.025635	.019939	-.082694
44	.021975	-.033917	.014225	-.085322
45	.016987	-.039528	.022690	-.080024
46	.007428	-.043052	.029087	-.077283
47	-.004728	-.047335	.034940	-.069806
48	-.013369	-.047899	.015867	-.066907
49	-.024383	-.040633	.009231	-.059605
50	-.035936	-.030380	.010691	-.046288
51	-.042335	-.024633	.010214	-.034969
52	-.045602	-.017943	.005780	-.023670
53	-.039162	.001413	.014014	-.008981
54	-.032814	.019912	.032668	-.003578
55	-.024251	.026968	.041272	-.001595
56	-.017613	.033353	.044010	-.004165
57	-.007500	.039024	.040236	-.003449
58	.007740	.040239	.029525	.001919
59	.021359	.039890	.022630	.016507
60	.029052	.039830	.022576	.031166

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.255674	-.031385	-.029726	.043265	.075120	.053380
1	-.128989	-.403871	-.245750	-.408368	.388888	.468902
2	.161406	-.584866	-.262340	-.780873	.402012	.523192
3	-.580350	-.654087	-.240477	-.198194	.380740	.540592
4	-.466089	-.407863	-.142102	.531341	.171106	.390382
5	.165997	-.204649	-.072423	.201143	.155504	.209038
6	.311374	-.151052	-.058748	.014655	.204851	.084173
7-8	.792733	-.110632	-.039374	-.140946	.043585	.010982
9-11	.169686	-.082731	-.018749	-.091290	.071593	.024634
12-15	.142112	-.035799	-.016455	-.032566	.046720	.014005
16-20	.112745	-.029838	-.009874	-.038335	.017498	.007548
21-27	.021727	-.011748	-.005558	-.042813	-.020668	-.005569
28-36	-.005415	-.006689	-.002680	.006294	.015490	-.001364
37-47	.009389	-.004670	-.001718	.009672	.004230	-.005276
48-60	-.001561	-.001425	-.001194	-.002555	.005592	-.007367

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.232079	-.088665	-.145057	.012519	.238593	.173957
2	.275016	-.100122	-.147937	.060765	.201001	.254598
3	.402208	-.079304	-.117070	.104740	.312003	.260980
4	.269152	-.071036	-.058889	.047524	.216330	.118485
5	.050371	-.099867	-.022434	-.002304	.044558	-.021131
6	.043889	-.118133	-.006873	-.004492	.107411	-.076024
7-8	.044498	-.081945	-.006384	-.026698	.031250	-.016709
9-11	-.009639	-.041261	-.003078	-.007968	-.018755	-.028909
12-15	-.003782	-.027465	-.002983	-.004877	-.021837	-.048589
16-20	-.003694	-.021336	-.001348	-.001934	-.008562	-.013392
21-27	-.001388	-.003825	.000043	-.002793	.007376	-.008329
28-36	-.001895	-.002389	-.000522	-.002833	.001906	.004621
37-47	-.001281	-.001915	-.000160	-.000519	-.004206	-.002911
48-60	-.000864	.000720	.000039	-.000543	.000135	.001605

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.017748	.013936	.014529	.124568
1	.169388	.108914	.230971	.893725
2	.216288	.118510	.368311	.841685
3	.232389	.112701	.441473	.648238
4	.145626	.071327	.310517	.332740
5	.072841	.046405	.218705	.187254
6	.060019	.048047	.246613	.169622
7-8	.046061	.039302	.223139	.121464
9-11	.025294	.022678	.144911	.075576
12-15	.017809	.014409	.115557	.053558
16-20	.012138	.008585	.097052	.037095
21-27	.007414	.007061	.053746	.025698
28-36	.004456	.004829	.043146	.015875
37-47	.003000	.002715	.027545	.011470
48-60	.002012	.001757	.018585	.008848

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13406	0.53244	0.40721	0.47355	0.36218	0.14384
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
0	-.225219	-.519293	-.558064	-.016318	.180151	.181607
1	-.211531	-.197671	-.385077	-.029230	.140323	.076005
2	-.158433	.013371	-.215398	-.015928	.096683	-.003410
3	-.116398	.055607	-.103534	.029697	.041808	-.028569
4	-.069145	.051321	-.021837	-.018391	.012478	-.052768
5	.011201	.102647	.047192	-.070153	-.050314	-.070611
6	.052651	.047212	.059874	-.034245	-.092559	-.027620
7	.056589	.065225	.066406	-.000342	-.115375	.016028
8	.087067	.062622	.090992	-.009290	-.129843	.032546
9	.127374	-.024005	.118636	-.024274	-.145617	.068458
10	.125879	.021338	.125760	.013338	-.113920	.053672
11	.083779	.047426	.139405	.031395	-.080954	.018491
12	.051072	.056794	.162644	.037535	-.062807	-.017447
13	.035155	.099789	.213930	.045513	-.048076	-.053346
14	.010865	.057027	.194338	.010507	-.003018	-.048592
15	-.019273	.034225	.148538	.039913	.039766	-.045025
16	-.034501	.033267	.126287	.022430	.093545	-.073666
17	-.043302	.027486	.086294	.043876	.121683	-.070573
18	-.063494	-.072047	.031070	.015607	.139597	-.033731
19	-.044606	-.075596	-.008707	.017611	.125846	-.021009
20	-.008564	-.094467	-.044699	.004003	.104453	.018785
21	.023064	-.066818	-.051181	-.014603	.075229	.016313
22	.065457	.014198	-.026710	-.073999	.022296	-.038195
23	.092548	.023059	-.040352	-.054600	-.015162	-.043264
24	.112199	-.005649	-.065674	-.035178	-.041143	-.013479
25	.104258	-.016590	-.081275	-.018705	-.064209	.018459
26	.089796	.012433	-.088691	-.014560	-.070053	.036942
27	.072269	-.089416	-.112546	.025475	-.060873	.094213
28	.045028	-.126378	-.116573	.016141	-.039241	.104485
29	.000620	-.042809	-.130038	.072513	-.023140	.097687
30	-.002905	.006509	-.127622	.055266	-.013271	.088572

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	-.086258	.004494	-.001977	-.067898	-.007893	-.013241
1	-.566021	-.046774	-.255780	-.528290	-.036429	.157648
2	-.601418	-.154875	-.415102	-.628790	.070111	.170549
3	-.852201	-.231041	-.397245	-.211415	.234287	-.007761
4	-.714599	-.171710	-.202776	.441940	.191187	-.013160
5	-.211527	-.168272	-.156009	.280194	.047927	.256489
6	-.064351	-.256053	-.186991	.121807	.030460	.462584
7	-.060625	-.231897	-.156435	.006846	.025641	.383965
8	-.026889	-.150339	-.096054	-.239894	-.000147	.216025
9-11	-.027343	-.125472	-.067948	-.199686	.011066	.080205
12-14	.025912	-.134264	-.031737	-.352328	.004528	.087725
15-21	-.029039	-.101291	-.035813	.265336	.005160	.098375
22-3C	.014807	-.045905	-.018381	-.012930	.005296	.035880

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13406	0.53244	0.40721	0.47356	0.36218	0.14384
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
1	.092535	-.023395	-.120837	.031971	.023917	.051025
2	.086333	.018284	-.139293	.019894	.018747	.046409
3	.051091	.045010	-.131180	-.035603	-.001388	.029363
4	.044409	.074914	-.111974	-.034752	-.021744	.024324
5	.007130	.110451	-.086382	-.014858	-.049040	.023402
6	-.044284	.084540	-.079453	-.035194	-.069205	.021181
7	-.059117	.077620	-.098182	-.050269	-.058370	.030871
8	-.067418	.102175	-.100360	-.056274	-.016548	.044439
9	-.014451	.070735	-.090259	-.027787	.011883	.067000
10	.014049	-.012892	-.098321	-.002912	.022566	.058122
11	.028925	.018194	-.082030	.016800	.043566	.062424
12	.022694	-.038185	-.057149	.008209	.063015	.013358
13	.053916	-.066438	-.004580	.030614	.089299	-.057748
14	.088148	-.116751	.013362	.071105	.110940	-.091143
15	.076094	-.101399	.030666	.053155	.097920	-.086642
16	.068332	-.101755	.057822	.045234	.098955	-.088147
17	.057648	-.054431	.073864	-.000553	.085368	-.076563
18	.043789	-.070912	.065993	.001385	.072327	-.064458
19	.054595	-.041752	.034135	.034059	.062355	-.029517
20	.077264	.000803	.027856	.047298	.051268	.012513
21	.029336	-.000393	.018304	.007642	.028662	.026817
22	.000901	-.000127	.023504	-.043880	.020649	.044469
23	-.001220	.046356	.010975	-.006834	.019832	.071536
24	-.031105	.083306	.023656	-.039301	-.008024	.046843
25	-.055131	.046094	.025605	-.002275	-.048189	.021108
26	-.068933	.074730	-.000353	.002036	-.065223	.034917
27	-.096100	.065048	-.035663	-.058232	-.092669	.049256
28	-.113172	.005448	-.045235	-.080493	-.102517	.040146
29	-.043600	.035965	-.036073	.007612	-.084850	.054170
30	.005659	.050102	-.005941	.042435	-.059318	.029558

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
1	.311048	.018147	-.185452	.028312	.110637	.043679
2	-.025214	.151919	-.215799	-.533645	-.031030	.262571
3	-.133295	.236317	-.178465	-.861835	-.105360	.376264
4	.168169	.074775	-.061708	-.217748	-.031606	-.010897
5	.339382	-.060830	-.034054	.380274	.032037	-.194060
6	.340355	-.052546	-.075396	.424788	.043851	.078922
7	.259252	-.022747	-.087355	.204889	.035322	.227859
8	.145841	-.018056	-.060911	.005023	.030546	.155988
9-11	.041613	-.025594	-.037188	.105785	.012774	.027849
12-14	.089392	-.029014	-.018384	.402983	-.003025	.060266
15-21	.053364	-.009711	-.012127	.050336	.004264	.025479
22-30	.000453	.003303	-.002637	-.039313	.000462	.010420

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.15073 10E 01	0.11924 10E 01	0.18808 10E 00	0.11001 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.584992	.683975	.115114	.802429
2	.271533	.454134	-.054264	.562857
3	.132989	.284862	-.113206	.347168
4	.033407	.137956	-.077869	.171673
5	-.094156	-.008235	-.100971	.024706
6	-.119876	-.094909	-.025412	-.077083
7	-.150840	-.209701	-.075667	-.159994
8	-.181887	-.295371	-.115457	-.245871
9	-.198298	-.314255	.074223	-.306445
10	-.214570	-.320303	-.027718	-.335842
11	-.246822	-.359721	-.005514	-.360539
12	-.236012	-.331062	-.048376	-.382104
13	-.281377	-.288785	-.128813	-.388362
14	-.247915	-.227155	-.007856	-.331530
15	-.143226	-.161006	-.059798	-.275502
16	-.093144	-.045118	-.030467	-.219644
17	-.026008	.023803	-.039538	-.154117
18	.083948	.094316	.194107	-.079205
19	.139932	.119182	-.009348	-.027836
20	.151218	.141091	.045370	.018830
21	.107931	.107813	.070472	.050720
22	.049748	.103629	-.002085	.055966
23	.062272	.086482	.021570	.075260
24	.080554	.026811	-.028664	.112069
25	.097665	.027972	-.043954	.157014
26	.095620	-.001425	-.109880	.183658
27	.129715	-.025799	.101234	.210683
28	.093560	-.023742	.084799	.235806
29	.001415	-.000666	-.003199	.263387
30	-.045781	-.026044	-.031683	.262208

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.006359	.012916	.002727	.010671
1	.116833	.138478	.030036	.180135
2	.209325	.215284	.057854	.254604
3	.248396	.258670	.089395	.242862
4	.146011	.152935	.079083	.127524
5	.089043	.064641	.082991	.070402
6	.107153	.055760	.117591	.059878
7	.097068	.049713	.111339	.050166
8	.059983	.033732	.081724	.033846
9-11	.048754	.027737	.085757	.021829
12-14	.037604	.021597	.091618	.010780
15-21	.034370	.016536	.079886	.007961
22-30	.018901	.013531	.083650	.005457

GROSS STATISTICS

1 CU	WIND SPEED 6.93 M/SEC	SIGMA A 13.4 DEG
UNSTABLE	WIND DIRECTION 290 DEG	SIGMA E 7.8 DEG
	SOLAR RAD. 1.05 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG

VARIANCES

L	0.20160E 01	0.17276E 01	0.83451E 00	0.14154E 01
V	0.23732E 01	0.17244E 01	0.84230F 00	0.13086E 01
W	0.63339E 00	0.59535E 00	0.46432E-00	0.34350E-00
T	0.35788E-00	0.45842E-01	0.17007E-01	0.38057E-01
E	0.25113E 01	0.20237E 01	0.10709E 01	

GUSTINESS RATIOS

L	0.20489	0.18966	0.13183	0.17168
V	0.22230	0.18949	0.13247	0.16507
W	0.11484	0.11134	0.09833	0.08457

COVARIANCES

L,V	-0.19052E-00	-0.17504E-00	0.49798E-01	-0.18473E-00
L,W	-0.52450E 00	-0.48012E-00	-0.25862E-00	-0.39079E-00
L,T	-0.23230E-00	-0.64418E-01	-0.31649E-01	-0.52817E-01
V,W	0.94967E-01	-0.29843E-01	-0.41412E-01	-0.23529E-01
V,T	-0.10160E-00	-0.10810E-00	-0.29423E-01	-0.96177E-01
W,T	0.11699E-00	0.37842E-01	0.15040E-01	0.33253E-01
WE	0.58055E 00	0.39019E-00	0.15618E-00	

NORMALIZED COVARIANCES

L,V	-0.08710	-0.10142	0.05937	-0.13573
L,W	-0.46416	-0.47342	-0.41544	-0.56045
L,T	-0.27348	-0.22890	-0.26565	-0.22757
V,W	-0.07746	-0.02945	-0.06620	-0.03509
V,T	-0.11025	-0.38450	-0.24575	-0.43098
W,T	0.24573	0.22906	0.16925	0.29084

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.83876	0.62263	0.11919	0.62559	0.11975	0.88896
	10E 00	10E 00	10E 00	10E 00	10E 00	10E-01
0	.059628	-.415502	-.265761	-.066477	-.245906	.169315
1	.054790	-.385938	-.251287	-.060447	-.215250	.166340
2	.051602	-.331123	-.221551	-.046918	-.173556	.143142
3	.048736	-.282306	-.186822	-.033462	-.138211	.121103
4	.048328	-.243061	-.157583	-.029174	-.114668	.102875
5	.046181	-.199831	-.131490	-.032327	-.102337	.088559
6	.040684	-.157880	-.106960	-.029043	-.088502	.081233
7	.036554	-.125490	-.088873	-.016915	-.075527	.063019
8	.030551	-.100238	-.070056	-.002558	-.064419	.054105
9	.026542	-.070017	-.051817	.010148	-.047569	.041117
10	.018668	-.031706	-.034146	.019265	-.030735	.023950
11	.006765	.004585	-.014381	.025226	-.011607	.013635
12	-.006189	.030720	.002891	.031149	.003554	.004222
13	-.019100	.055048	.017204	.034719	.014248	-.006178
14	-.030716	.080151	.025927	.032859	.018000	-.013266
15	-.039765	.101724	.031051	.030051	.025937	-.014679
16	-.047732	.115493	.034851	.029145	.034786	-.015483
17	-.052843	.124579	.037462	.031495	.044842	-.015703
18	-.054274	.130163	.043506	.034186	.058973	-.015802
19	-.056362	.138215	.048365	.038885	.074269	-.016443
20	-.057920	.147254	.047923	.038562	.083360	-.016026
21	-.056077	.149833	.050620	.033490	.086199	-.018426
22	-.045574	.143069	.056601	.025683	.082794	-.026219
23	-.035535	.136370	.059472	.017750	.078749	-.032256
24	-.033911	.132753	.061574	.013862	.074232	-.034083
25	-.034081	.126332	.064734	.004760	.069985	-.040774
26	-.032284	.122462	.074050	-.001621	.073027	-.048963
27	-.028889	.117463	.084921	.001698	.075158	-.057636
28	-.025802	.109622	.092088	.012236	.072952	-.063588
29	-.025076	.101042	.099328	.015203	.067734	-.068962
30	-.019361	.088322	.100246	.005414	.058738	-.066626
31	-.014384	.073012	.096581	-.012605	.051356	-.059937
32	-.009596	.056068	.090835	-.026990	.044987	-.058393
33	-.000240	.038644	.079306	-.033313	.034740	-.057159
34	.016432	.019887	.064986	-.045789	.021718	-.055857
35	.030665	.002380	.047438	-.052559	.005897	-.051603
36	.038875	-.007390	.034238	-.047165	-.013782	-.048658
37	.047387	-.008952	.028726	-.040975	-.033163	-.054834
38	.054879	-.004030	.026080	-.038054	-.042166	-.053215
39	.060287	-.000271	.024747	-.040407	-.044355	-.042902
40	.059174	.000691	.024045	-.041704	-.051516	-.035320
41	.055383	-.000255	.026776	-.040486	-.058001	-.032632
42	.047646	-.003002	.029650	-.033325	-.060121	-.033817
43	.036816	-.000816	.029926	-.020079	-.060338	-.034475
44	.022116	.003357	.032597	-.003788	-.064985	-.036132
45	.007688	.008395	.033981	.008917	-.071991	-.036043
46	-.000068	.010060	.036289	.017720	-.071014	-.029868
47	-.005661	.009259	.037176	.025339	-.065734	-.019403
48	-.007469	.017371	.035827	.026908	-.052754	-.009398
49	-.010123	.021380	.034083	.027371	-.038802	-.000801
50	-.009905	.027303	.025949	.025205	-.028663	.007074
51	-.006211	.035812	.018359	.025735	-.024151	.006864
52	-.004676	.046063	.009332	.023360	-.024569	.010292
53	-.001498	.051131	.002636	.018671	-.019171	.013223
54	-.001218	.049112	-.000655	.021844	-.002985	.009273
55	-.000869	.045071	-.006061	.018368	.014014	.004519
56	-.001127	.041563	-.012749	.012689	.030568	-.002975
57	-.002967	.037509	-.013631	.010719	.041998	-.004994
58	-.004089	.029874	-.015188	.007634	.044541	-.011758
59	-.005436	.021605	-.013132	.008900	.046801	-.017337
60	-.005417	.013099	-.013526	.006816	.049105	-.021341

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.83876	0.62263	0.11919	0.62559	0.11975	0.88896
	10E 00	10E 00	10E 00	10E 00	10E 00	10E-01
1	.014098	-.040995	-.027517	-.004636	-.028058	.005599
2	.030311	-.067942	-.048505	-.001092	-.044168	.017770
3	.043938	-.085556	-.063664	.009450	-.058936	.029569
4	.057453	-.097538	-.080184	.017275	-.073953	.039679
5	.068060	-.107561	-.091933	.017222	-.082002	.046544
6	.071744	-.111202	-.100587	.016444	-.078297	.054006
7	.072465	-.113780	-.109583	.021814	-.068710	.061311
8	.068727	-.115370	-.117597	.026693	-.056702	.065014
9	.063669	-.112300	-.120108	.027954	-.052080	.069905
10	.063447	-.107707	-.125229	.024118	-.048566	.076684
11	.063850	-.104934	-.129739	.016505	-.043717	.080421
12	.064512	-.098090	-.132403	.016088	-.042901	.079190
13	.067228	-.084713	-.129705	.017410	-.038156	.082079
14	.066982	-.070064	-.125268	.016936	-.031366	.080988
15	.064940	-.062020	-.116834	.015642	-.024295	.076626
16	.059529	-.055246	-.104057	.016663	-.024750	.072978
17	.051094	-.048518	-.091904	.013247	-.023053	.060125
18	.037916	-.040913	-.079606	.007386	-.023951	.043921
19	.020422	-.027517	-.066087	.001578	-.025577	.030836
20	.001490	-.017419	-.048763	-.006649	-.023420	.015613
21	-.017111	-.007420	-.033626	-.011489	-.018823	.000576
22	-.031835	.005146	-.022936	-.013888	-.018156	-.010283
23	-.046905	.018590	-.014917	-.014509	-.014712	-.008982
24	-.059134	.029885	-.008278	-.019579	-.005299	-.009295
25	-.065117	.039766	-.000479	-.020956	.004630	-.011892
26	-.071692	.047959	.012745	-.021953	.011565	-.021813
27	-.079142	.054884	.027850	-.018394	.014627	-.028510
28	-.084902	.066364	.035935	-.019505	.013719	-.032569
29	-.086408	.074010	.036947	-.019680	.016099	-.031956
30	-.079993	.073010	.035397	-.022577	.017432	-.034558
31	-.071562	.069065	.030747	-.022022	.019784	-.030056
32	-.066471	.060592	.022958	-.025303	.022699	-.025124
33	-.061992	.051500	.019620	-.020742	.026093	-.028939
34	-.048638	.045405	.017601	-.012310	.028229	-.032019
35	-.037563	.037075	.012225	-.002152	.030256	-.030586
36	-.032294	.028942	.010587	.005378	.030438	-.031126
37	-.027576	.019772	.010427	.017791	.031463	-.032389
38	-.017048	.011278	.005462	.036493	.020274	-.032189
39	-.011009	-.001269	.000894	.045941	.005244	-.027412
40	-.011183	-.012603	.003212	.045851	.002575	-.023573
41	-.005214	-.023167	.007694	.040806	.007066	-.021350
42	.008818	-.026916	.013535	.035928	.014953	-.020439
43	.025864	-.037321	.013765	.033837	.020456	-.017351
44	.039862	-.048865	.010535	.032802	.028184	-.016588
45	.052443	-.050869	.007460	.029519	.033550	-.007320
46	.065438	-.039856	.008283	.034674	.040387	.013187
47	.080710	-.028761	.006874	.042532	.040138	.027045
48	.093915	-.018144	.004355	.046208	.036124	.033304
49	.104984	-.006622	.004682	.044057	.032546	.042108
50	.105058	.004274	.008442	.037821	.025811	.041647
51	.102602	.011140	.011887	.027264	.014770	.037265
52	.101966	.018988	.010412	.019718	.007198	.037462
53	.100066	.029451	.007521	.016032	-.001941	.041394
54	.093762	.033708	.008615	.014100	-.015172	.040385
55	.082594	.033494	.011028	.005634	-.019477	.031982
56	.072268	.027602	.008831	-.005216	-.020222	.021772
57	.065251	.019892	.008712	-.011515	-.022090	.011595
58	.059244	.022024	.013473	-.015147	-.023245	.002495
59	.049970	.024420	.021249	-.020166	-.022410	-.010980
60	.034748	.023572	.028211	-.015544	-.014815	-.023140

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.83479	0.84274	0.46439	0.17017
	10E 00	10E 00	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.880971	.838380	.782655	.846035
2	.736572	.642834	.536467	.667203
3	.619477	.488436	.374366	.526909
4	.522925	.375110	.263356	.424985
5	.431020	.293559	.175658	.351680
6	.340556	.225798	.102942	.291864
7	.261846	.174391	.055913	.243016
8	.188713	.138808	.014190	.193539
9	.117822	.102379	-.018371	.139744
10	.047977	.064196	-.048920	.090797
11	-.020598	.020855	-.080443	.047253
12	-.077732	-.018056	-.097888	.011458
13	-.128744	-.050812	-.120284	-.015429
14	-.172529	-.081720	-.145717	-.034019
15	-.210297	-.112141	-.161999	-.057275
16	-.240067	-.141048	-.171281	-.083239
17	-.258654	-.167873	-.178644	-.111847
18	-.279995	-.191993	-.185422	-.142843
19	-.300662	-.209317	-.192534	-.174042
20	-.310908	-.227520	-.193300	-.186083
21	-.317310	-.246491	-.188885	-.189090
22	-.317747	-.263102	-.183259	-.190781
23	-.317525	-.273119	-.182870	-.199926
24	-.308375	-.281193	-.188554	-.214056
25	-.292124	-.271800	-.197125	-.221665
26	-.274384	-.256329	-.199442	-.224903
27	-.256633	-.241668	-.185303	-.224197
28	-.244129	-.225806	-.168054	-.218091
29	-.225796	-.208068	-.150713	-.208311
30	-.197055	-.185718	-.119036	-.193639
31	-.157809	-.156998	-.075478	-.177575
32	-.118157	-.137094	-.027604	-.163281
33	-.079783	-.124073	.007291	-.139938
34	-.050897	-.115179	.030550	-.116792
35	-.025998	-.100869	.047030	-.090188
36	-.009111	-.088507	.057406	-.072253
37	.007275	-.071881	.056091	-.056928
38	.021332	-.046208	.045394	-.055340
39	.028586	-.022078	.041323	-.063221
40	.029820	-.002717	.041846	-.065014
41	.024375	.010411	.044409	-.056431
42	.021159	.015585	.038895	-.054834
43	.019598	.014502	.030899	-.063251
44	.019094	.016220	.022288	-.066551
45	.009577	.018009	.017444	-.061093
46	-.005553	.024518	.010362	-.059682
47	-.018069	.027710	.001663	-.053939
48	-.027794	.025699	-.009375	-.051421
49	-.037675	.028269	-.004459	-.042326
50	-.047274	.043407	.000512	-.033695
51	-.056189	.063868	-.004024	-.027623
52	-.061793	.080053	-.017212	-.027164
53	-.069262	.088998	-.020380	-.031074
54	-.070306	.076769	-.019425	-.036231
55	-.063542	.058108	-.018197	-.037784
56	-.057692	.035232	-.024799	-.032578
57	-.049364	.017579	-.027552	-.032757
58	-.044317	.011973	-.021330	-.028282
59	-.040310	.011382	-.014000	-.028701
60	-.032431	.013585	-.013528	-.036662

RUN NO 101A   46M   7-4-63   0814-0930(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
0	.004731	-.050705	-.098796	-.003409	-.098130	.056703
1	.052666	-.473329	-.791364	-.001719	-.503454	.437506
2	.148017	-.567412	-.751221	-.042735	-.6067.6	.379865
3	.225833	-.577539	-.560107	-.124657	-.611715	.235276
4	.100669	-.343166	-.298723	-.098369	-.245701	.128168
5	-.010064	-.150919	-.216565	-.028185	-.105839	.118907
6	-.004274	-.105482	-.210587	-.030112	-.120986	.097785
7-8	-.034118	-.061558	-.070392	-.006565	-.074560	.032772
9-11	.009304	-.044833	-.055943	-.001822	-.060751	.017695
12-15	.003741	-.029884	-.038081	-.004471	-.053201	.020862
16-20	-.000631	-.012590	-.012039	-.007733	-.031489	.009526
21-27	.003723	-.008779	-.006334	-.004883	-.017895	.002534
28-36	.000378	-.005106	-.003049	.001521	-.007157	-.001250
37-47	.000294	-.001020	.000810	-.000189	-.005135	.000333
48-60	.001313	-.000789	-.001576	-.000098	-.003984	-.003240

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
1	-.000533	-.107454	-.513215	.191409	-.152061	.150346
2	.160585	-.201473	-.562728	.156205	-.257193	.241701
3	.334278	-.293618	-.544109	.719191	-.257289	.272982
4	.169467	-.188783	-.291572	.539464	-.160965	.120583
5	-.003158	-.052618	-.052875	-.074369	-.111709	.011867
6	-.018005	-.050442	.018240	-.041079	-.112371	-.032541
7-8	.032433	-.040388	-.016762	.007330	-.090993	-.019260
9-11	.021299	-.012188	-.021684	-.008860	-.028410	.012618
12-15	-.008891	-.011991	-.005571	-.066509	-.010443	-.006368
16-20	-.003079	-.003313	-.003670	-.007650	.008966	-.001631
21-27	.000017	-.003097	-.002885	-.063009	-.005685	-.001048
28-36	.000339	-.002265	-.003094	-.001799	-.004641	-.003283
37-47	-.001177	.000248	.000623	.003945	-.002444	.000191
48-60	.000067	-.000632	.000797	.001030	-.000350	-.000351

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.014800	.014368	.034922	.053357
1	.137267	.127890	.389945	.335517
2	.16764	.148897	.562840	.308955
3	.171473	.134760	.664414	.253641
4	.101547	.072970	.452426	.143319
5	.048156	.041824	.273095	.085895
6	.037435	.037556	.273096	.079740
7-8	.024503	.034728	.219175	.060867
9-11	.014739	.023709	.155034	.040904
12-15	.010166	.016609	.099813	.028095
16-20	.005840	.009200	.066310	.019369
21-27	.004354	.006055	.046702	.010947
28-36	.002766	.003361	.030567	.006925
37-47	.001558	.002389	.017786	.004476
48-60	.001265	.001632	.012426	.003415

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13616	0.69786	0.23218	0.67080	0.22317	0.11438
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
0	-.135670	-.559985	-.227486	-.035075	-.430951	.290714
1	-.133393	-.346050	-.156335	-.005176	-.354927	.212233
2	-.142774	-.166612	-.089261	.018153	-.276690	.138994
3	-.126514	-.060340	-.024444	-.012341	-.195022	.050834
4	-.088712	-.012903	.009853	-.008959	-.121702	-.001641
5	-.077343	.053051	.020397	.019510	-.029290	-.011589
6	-.046427	.057426	-.003550	-.004358	.084132	.000686
7	-.011825	.028690	-.010728	-.030850	.134862	.022179
8	.034922	.056084	-.035414	-.021278	.162309	.040405
9	.091868	.132002	-.057263	-.035182	.166596	.066474
10	.135129	.177057	-.033983	-.051015	.154923	.030419
11	.130136	.163630	.020642	-.063310	.138888	-.026716
12	.109157	.166294	.093077	-.090364	.088635	-.083922
13	.111043	.174923	.128887	-.077427	.036731	-.100428
14	.044929	.169037	.184423	-.003282	.034550	-.146146
15	.003760	.136895	.219238	.045679	.025507	-.192712
16	-.011025	.069248	.206425	.080382	.009540	-.205863
17	.021722	.052228	.162801	.087522	-.019226	-.174438
18	.034408	.054770	.114621	.052267	-.059875	-.125937
19	.033132	.025379	.048580	.044341	-.049710	-.093340
20	.028394	-.061356	-.018907	.030177	-.042499	-.029664
21	.026709	-.126680	-.067295	.012446	-.014760	-.008612
22	.029547	-.125803	-.076073	-.012117	.021351	-.014387
23	.022469	-.150534	-.053279	.029740	.060722	-.031422
24	.015179	-.132340	-.043338	.039883	.082812	-.001170
25	.016483	-.118324	-.062519	.007851	.128715	.039558
26	.012494	-.055211	-.100400	-.002970	.127348	.102098
27	-.006757	-.058730	-.143297	.002363	.113939	.145930
28	.013459	-.109390	-.181299	.023093	.103562	.149982
29	.025147	-.059193	-.147190	.013959	.063030	.104147
30	.016708	-.038169	-.147168	-.019337	.012723	.131829

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.075237	.002652	.004078	-.029739	-.030116	.043427
1	-.703008	-.320661	-.094048	-.115851	-.174915	.759624
2	-.762231	-.637931	-.132628	.008838	-.185760	.755182
3	-.672832	-.655277	-.047143	.120587	-.235359	.268392
4	-.280190	-.301691	.032070	.042075	-.181375	-.007299
5	.127829	-.227644	-.044444	-.101052	-.079515	.308317
6	.226643	-.256506	-.098078	-.073232	-.035350	.485979
7	.034483	-.255384	-.057541	.039837	-.005297	.326423
8	-.097707	-.261334	-.023436	.030918	.002511	.168425
9-11	.002716	-.148194	-.013227	-.021165	-.008315	.067033
12-14	.048486	-.058857	-.011391	-.000232	-.015387	.059047
15-21	-.000416	-.077354	-.004021	-.030864	-.004206	.012408
22-30	-.012300	-.048452	-.005611	.003232	-.006561	.035959

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13616	0.69786	0.23218	0.67080	0.22317	0.11438
	10E 01	10E 00	10E 00	10E 00	10E'00	10E 00
1	.058671	-.046155	-.104984	.033602	-.031362	.055158
2	.065784	.030400	-.122951	.030310	-.020440	.042123
3	.054740	.099446	-.119651	.005586	-.024508	.006104
4	.094350	.072511	-.126125	.034669	-.032610	.004614
5	.126376	.106033	-.112922	-.006681	-.037517	.022948
6	.081356	.124990	-.095861	-.049810	-.045646	-.004888
7	.033425	.105161	-.105399	-.075233	-.040816	.015965
8	.015091	.059305	-.100647	-.071820	-.038243	.048193
9	-.009920	.046352	-.093804	-.037433	-.021093	.073828
10	-.021328	.038505	-.112046	-.010627	-.000130	.093138
11	.000705	-.030930	-.109948	.005141	.054742	.074961
12	.049976	-.037912	-.084842	.072980	.100493	.067962
13	.063668	-.018051	-.062090	.063700	.077111	.078760
14	.059555	-.033394	-.038567	.042347	.044071	.055049
15	.032747	-.055058	.005541	-.013291	.005400	.007882
16	.045596	-.077516	.009287	.002401	-.021771	.010859
17	.048240	-.072243	-.001475	.018911	-.028622	-.007185
18	.058524	-.075997	-.008161	.015247	-.029233	-.018046
19	.045838	-.088651	.008658	.023699	-.040301	-.032674
20	.053111	-.085151	.012579	.025452	-.010064	-.062874
21	.032596	-.044441	.029517	.004236	.020160	-.073932
22	.006486	-.044357	.044263	.016921	.054139	-.104627
23	-.014843	-.025775	.069421	.005707	.042543	-.107222
24	-.020637	-.001996	.085531	-.031930	.023703	-.085033
25	-.034746	.012124	.059695	-.010998	.012865	-.036195
26	-.081245	.042855	.054688	-.015515	-.023851	.006272
27	-.064909	.051590	.040926	.030821	-.018526	.044978
28	-.055875	.056318	.000628	.072642	-.003617	.077643
29	-.059948	.058889	.003124	.102256	.022448	.065039
30	-.052795	.037090	.036482	.128537	.045092	.044817

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.572648	.064860	-.159889	.004059	.027083	.348109
2	.297809	.257947	-.134692	-.057322	-.163540	.296783
3	.224288	.290344	-.080847	-.077453	-.407126	-.017859
4	.357822	.106611	-.036191	.002009	-.464067	-.153772
5	.307451	.013899	-.027460	.099780	-.050115	.007909
6	.147698	-.036364	-.035570	.146493	.329577	.078034
7	-.012442	-.074092	-.042575	.099378	.092018	.135242
8	-.134700	-.055937	-.022335	-.009000	-.178421	.104838
9-11	-.001267	-.028623	-.011762	-.014128	-.041917	.048437
12-14	.054423	-.032531	-.009280	.000070	-.064579	.048584
15-21	.043857	-.053065	-.007663	.026521	-.032761	.035369
22-3C	-.006554	.005502	-.000391	-.017496	-.015906	.001973

301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.14165	0.13088	0.34381	0.38055
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.663919	.698080	.374047	.770054
2	.398781	.445215	.126597	.517077
3	.242862	.255092	.034893	.289637
4	.142963	.110523	.028879	.093033
5	.011134	.025745	-.069993	-.042449
6	-.037747	-.086455	-.102104	-.127948
7	-.047839	-.189494	-.046811	-.154159
8	-.135609	-.234714	-.087860	-.158427
9	-.248827	-.258468	-.136240	-.141370
10	-.361553	-.288911	-.174583	-.162869
11	-.378655	-.292300	-.136360	-.218352
12	-.402471	-.255521	-.133041	-.271884
13	-.379919	-.211261	-.155913	-.269634
14	-.348704	-.188862	-.174589	-.272712
15	-.282796	-.122208	-.105694	-.228226
16	-.198445	-.060455	-.062897	-.153011
17	-.146204	-.007885	-.050176	-.065604
18	-.096357	.088312	-.052287	-.023227
19	-.008206	.091846	-.018060	-.024345
20	.095021	.064336	.038448	-.052758
21	.152020	.008846	.075359	-.069939
22	.182135	-.021871	.028121	-.069625
23	.205608	-.056325	.081670	-.095728
24	.201145	-.042550	.016545	-.084214
25	.188085	-.014348	.063716	-.046672
26	.136156	.004903	.022243	.033052
27	.163878	.031406	.031779	.076859
28	.168996	.031881	.108565	.110142
29	.090185	-.005201	-.002110	.099147
30	.025151	-.002082	.039342	.110292

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.007680	.022646	.011484	.072051
1	.183490	.177856	.224803	.648338
2	.291646	.222273	.342449	.714489
3	.274642	.253441	.363466	.671877
4	.108878	.168060	.234871	.444483
5	.056190	.079507	.185429	.302962
6	.068424	.065403	.190697	.310175
7	.073739	.059212	.180025	.263612
8	.073771	.039276	.166222	.122361
9-11	.040140	.036435	.136103	.058468
12-14	.022648	.026937	.104242	.051307
15-21	.024703	.013800	.112194	.028847
22-3C	.015735	.014498	.099002	.026313

RUN NC 101A 15M 7-4-63 0814-0930(EST)
RUN NC 101A 46M 7-4-63 0814-0930(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.642055	.589816	.688829	.482498
1	.467089	.655571	.459698	.360992
2	.410797	.624330	.432213	.256564
3	.428971	.551918	.470225	.171271
4	.417042	.402834	.496888	.110909
5	.207972	.315592	.414795	.046004
6	.068006	.349287	.381423	.122102
7-8	.061026	.264417	.258142	.125471
9-11	.085803	.171394	.086487	.085455
12-15	.082558	.113684	.207932	.070268
16-2C	.067101	.117856	.090446	.067886
21-27	.104042	.137508	.079574	.165809
28-36	.093481	.057611	.087354	.082097
37-47	.095082	.100035	.103499	.121959
48-6C	.075354	.090013	.089997	.120274

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.891551	.910075	.721346	.708270
1	.936041	.954743	.742421	.801999
2	.933785	.941388	.712067	.695412
3	.892789	.898384	.727959	.445731
4	.787509	.828287	.768850	.249610
5	.720691	.759097	.760638	.557754
6	.756050	.674461	.697621	.650176
7	.599297	.567239	.611832	.428781
8	.323215	.594879	.545723	.298436
9-11	.362282	.680424	.442833	.227238
12-14	.383390	.591248	.367509	.309595
15-21	.452641	.402208	.485531	.217146
22-30	.186547	.181116	.437490	.139946

RUN NO 101B   46M   7-4-63   0944-1100(EST)

GROSS STATISTICS

6 CU   WIND SPEED   6.98 M/SEC   SIGMA A 14.1 DEG
UNSTABLE   WIND DIRECTION 289 DEG   SIGMA E 7.4 DEG
                   SOLAR RAD.   0.93 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.23965E 01	0.15578E 01	0.76045E 00	0.12311E 01
V	0.28160E 01	0.16325E 01	0.10070E 01	0.12096E 01
W	0.63096E 00	0.57375E 00	0.48613E-00	0.27035E-00
T	0.34094E-00	0.53139E-01	0.20259E-01	0.45279E-01
E	0.29217E 01	0.18822E 01	0.11268E 01	
GUSTINESS RATIOS				
U	0.22179	0.17881	0.12493	0.15896
V	0.24041	0.18305	0.14377	0.15757
W	0.11380	0.10852	0.09989	0.07449
COVARIANCES				
U,V	0.22020E-00	0.92876E-01	0.11751E-00	0.78059E-01
U,W	-0.48609E-00	-0.35949E-00	-0.23202E-00	-0.25781E-00
U,T	-0.83691E-01	-0.11887E-00	-0.31717E-01	-0.10794E-00
V,W	0.14544E-01	-0.25427E-01	-0.44603E-01	0.38582E-02
V,T	0.15692E-00	-0.99291E-01	-0.44491E-01	-0.86050E-01
W,T	0.63006E-01	0.17489E-01	0.18029E-02	0.17425E-01
WE	0.31910E-00	0.26223E-00	0.10292E-00	
NORMALIZED COVARIANCES				
U,V	0.08476	0.05824	0.13428	0.06397
U,W	-0.39530	-0.38025	-0.38161	-0.44688
U,T	-0.09259	-0.41316	-0.25553	-0.45718
V,W	0.01091	-0.02627	-0.06375	0.00675
V,T	0.16014	-0.33712	-0.31149	-0.36769
W,T	0.13585	0.10016	0.01817	0.15749

RUN NO 1018   46M   7-4-63   0944-1100(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.87505	0.60793	0.12413	0.(	0.14285	0.99245
	10E 00	10E 00	10E 00	10(⊃0	10E 00	10E-01
0	.134314	-.381608	-.255695	-.063985	-.311547	.017820
1	.131652	-.342697	-.246168	-.054318	-.279567	.023742
2	.120056	-.281384	-.223106	-.040398	-.240614	.020976
3	.110092	-.225267	-.203265	-.026805	-.202200	.014463
4	.102740	-.173123	-.179626	-.016706	-.169434	.002578
5	.090929	-.121294	-.150835	-.018696	-.142344	-.003793
6	.073454	-.078197	-.115955	-.016966	-.114574	-.004623
7	.053863	-.044666	-.082489	-.003119	-.085133	-.004710
8	.038461	-.027185	-.057519	.014051	-.057541	-.010270
9	.026721	-.016451	-.041329	.022863	-.038252	-.005948
10	.007318	-.002210	-.034507	.033418	-.018686	-.000333
11	-.010851	.010132	-.025319	.037999	.000389	.008827
12	-.022801	.023429	-.011412	.038673	.015202	.018042
13	-.030212	.034157	-.000402	.030993	.021290	.026452
14	-.034639	.039622	.006059	.018098	.032337	.034240
15	-.042057	.048742	.012126	.006986	.042954	.037177
16	-.050313	.058428	.019133	.001374	.052643	.034360
17	-.058963	.066968	.028704	.008691	.060881	.036846
18	-.067652	.081214	.036609	.021885	.070449	.035998
19	-.078107	.096455	.042366	.028868	.078631	.028104
20	-.088437	.108406	.056353	.034638	.086755	.009585
21	-.091579	.117388	.071637	.036607	.092999	-.004402
22	-.085719	.127769	.082124	.034731	.091171	-.021634
23	-.079786	.131788	.090318	.023654	.084057	-.029860
24	-.077357	.137617	.096146	.011272	.077047	-.036481
25	-.078725	.140939	.098151	.003525	.069938	-.038381
26	-.076727	.135423	.097517	-.000556	.062705	-.032676
27	-.069200	.122534	.091137	-.005056	.058056	-.020291
28	-.058330	.104781	.084730	-.015379	.057721	-.005262
29	-.045343	.088656	.072185	-.021847	.060702	.001594
30	-.035417	.073154	.062890	-.023914	.054155	.003476
31	-.026571	.057612	.059772	-.019452	.042467	.000421
32	-.014948	.044918	.057438	-.014480	.037773	-.005077
33	-.009673	.034072	.056780	-.010709	.035031	-.007079
34	-.010283	.021349	.053625	-.007862	.030917	-.009676
35	-.007148	.012481	.051801	-.006147	.028726	-.018201
36	-.005396	.009524	.052431	-.002301	.026879	-.027227
37	-.002726	.010291	.055090	.000638	.025126	-.025661
38	-.000036	.013347	.054771	.004174	.026206	-.021489
39	-.001588	.012589	.056980	.009591	.029652	-.019277
40	-.001636	.005469	.055417	.011349	.027850	-.020426
41	.004514	-.003125	.049724	.006868	.023590	-.020194
42	.015244	-.014605	.046061	.001990	.017881	-.020465
43	.026000	-.035664	.042771	.000001	.012419	-.015606
44	.035561	-.053586	.041311	-.002649	.005735	-.003512
45	.044927	-.063926	.039668	-.010667	.004092	.002222
46	.053435	-.067671	.037916	-.021637	.008211	.002759
47	.056435	-.058194	.032992	-.033907	.016593	.002961
48	.052726	-.049495	.028627	-.036828	.025413	.002427
49	.053739	-.045376	.026036	-.043797	.037008	.005533
50	.047330	-.041220	.024442	-.053430	.049985	.005525
51	.037874	-.036149	.021374	-.061526	.059006	.010781
52	.030849	-.034029	.016544	-.057359	.061572	.010918
53	.025796	-.034447	.008434	-.042628	.061058	.007088
54	.019784	-.032437	-.008737	-.024735	.059701	.006498
55	.010735	-.030042	-.027276	-.007611	.059471	.000493
56	.001679	-.032775	-.043953	.008520	.053855	-.004934
57	-.008302	-.034461	-.054791	.016516	.043521	-.002637
58	-.015426	-.035408	-.059853	.018544	.024423	.002524
59	-.018901	-.030471	-.061921	.019433	.004803	.009408
60	-.020203	-.014089	-.066472	.0'9907	-.011558	.015994

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61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.87505	0.60793	0.12413	0.69961	0.14285	0.99245
	1Ce 00	10E 00	10E 00	10E 00	10E 00	10E-01
1	-.014614	-.037036	-.010598	-.006545	-.022440	.002369
2	-.024287	-.054924	-.014856	-.011494	-.036606	.011239
3	-.031657	-.060520	-.019629	-.016151	-.050873	.022084
4	-.039314	-.062842	-.020795	-.022330	-.059712	.021998
5	-.043256	-.065968	-.022908	-.021394	-.063260	.027801
6	-.045103	-.068340	-.025966	-.017130	-.062600	.024285
7	-.049848	-.067077	-.031568	-.016645	-.062764	.020823
8	-.051464	-.062685	-.033568	-.015474	-.062213	.018090
9	-.055319	-.063043	-.031977	-.026261	-.061405	.017319
10	-.062905	-.060554	-.029061	-.042677	-.057843	.015085
11	-.069521	-.055623	-.019629	-.048507	-.049636	.009621
12	-.074549	-.047797	-.009707	-.040894	-.037079	.009631
13	-.076578	-.046420	-.008350	-.035070	-.029394	.013130
14	-.078185	-.043777	-.009673	-.033881	-.027624	.011969
15	-.074764	-.042385	-.009182	-.036389	-.030954	.010409
16	-.071550	-.038835	-.005727	-.039479	-.034417	.005452
17	-.060877	-.039056	-.003901	-.044430	-.036046	-.003090
18	-.046793	-.040478	-.007224	-.042440	-.037301	-.013958
19	-.033960	-.039733	-.013093	-.032279	-.038531	-.015749
20	-.022613	-.035789	-.013362	-.027179	-.038422	-.012906
21	-.011109	-.030216	-.015524	-.015140	-.034199	-.009998
22	-.001105	-.025130	-.026956	.004237	-.024615	-.003006
23	.003749	-.020438	-.043214	.021531	-.022286	.007740
24	.006984	-.018247	-.051247	.027531	-.021447	.012219
25	.012016	-.012778	-.053752	.034349	-.021958	.013723
26	.015081	-.001268	-.051215	.047582	-.025370	.018035
27	.019840	.011760	-.047733	.062152	-.023766	.012067
28	.023171	.021710	-.043592	.073393	-.018771	.009076
29	.024167	.027897	-.041649	.075488	-.015473	.005324
30	.021789	.032241	-.039282	.064625	-.011072	.005290
31	.021677	.034002	-.035473	.044204	-.009992	.002214
32	.019700	.038083	-.029264	.028113	-.009600	-.002202
33	.016039	.040870	-.024489	.018165	-.010374	-.000713
34	.018498	.042931	-.022695	.017877	-.005221	.003733
35	.022122	.043036	-.019485	.022333	.001865	.006179
36	.026021	.033571	-.011066	.021745	.008895	.004436
37	.028093	.026362	-.002149	.024589	.013451	-.000501
38	.029639	.024516	.000193	.028695	.013063	-.002972
39	.033382	.022431	-.001129	.035621	.011455	.005942
40	.037568	.014027	-.002343	.037123	.012184	.007906
41	.037157	.003782	.001551	.034859	.015231	.007109
42	.038547	.004330	.008997	.027015	.022373	.006829
43	.036722	.009579	.016675	.012072	.027189	.001883
44	.032017	.010566	.023525	-.010127	.029761	-.006581
45	.031682	.008393	.023170	-.024559	.033200	-.009870
46	.037530	.002345	.022965	-.026461	.038223	-.009262
47	.041362	-.005183	.023267	-.016819	.038391	-.012449
48	.048808	-.011079	.022848	-.011105	.038297	-.017332
49	.053225	-.014796	.024303	-.009594	.038078	-.016470
50	.053719	-.017703	.023954	-.015282	.036112	-.010099
51	.051647	-.017920	.020701	-.019055	.035257	-.000085
52	.047108	-.017784	.020760	-.016833	.036461	.008785
53	.040491	-.021587	.018864	-.018545	.037309	.017616
54	.039929	-.025054	.012362	-.011776	.040231	.024217
55	.039405	-.028747	.005594	-.003588	.046419	.023725
56	.034268	-.028138	-.001960	.002916	.050550	.027477
57	.026970	-.018185	-.005530	.010487	.047149	.031154
58	.019613	-.012136	-.007555	.011437	.043974	.027064
59	.015065	-.012898	-.008164	.011555	.044805	.028315
60	.012059	-.013387	-.005965	.012104	.046579	.032816

RUN NO 101B   46M   7-4-63   0944-1100(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.76038 10E 00	0.10070 10E 01	0.48605 10E 00	0.20265 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.866660	.855838	.766593	.846583
2	.707811	.683995	.482258	.681570
3	.582810	.552366	.287318	.558511
4	.478832	.454625	.154645	.458781
5	.385718	.368924	.058703	.387739
6	.302677	.290695	-.008627	.322043
7	.221355	.215161	-.049518	.258156
8	.150585	.143794	-.076579	.194140
9	.089148	.082862	-.095072	.140453
10	.033194	.028672	-.107699	.095535
11	-.017614	-.018955	-.108936	.046855
12	-.060887	-.057903	-.100666	.002331
13	-.092394	-.089830	-.085976	-.025111
14	-.114674	-.121579	-.079885	-.055468
15	-.134301	-.149117	-.093970	-.090211
16	-.155278	-.169040	-.114036	-.120611
17	-.178936	-.188367	-.136482	-.152321
18	-.204910	-.207680	-.148539	-.176682
19	-.228417	-.224335	-.146847	-.202258
20	-.244328	-.237775	-.137582	-.226844
21	-.257577	-.251650	-.144010	-.248198
22	-.269175	-.256315	-.148995	-.258528
23	-.281028	-.259348	-.148453	-.256188
24	-.286194	-.261696	-.151582	-.251743
25	-.287429	-.258448	-.143570	-.250960
26	-.285227	-.249955	-.125781	-.248039
27	-.272523	-.240863	-.112166	-.244283
28	-.259072	-.222420	-.097814	-.242496
29	-.241773	-.201288	-.067637	-.228871
30	-.212645	-.179126	-.030905	-.204339
31	-.179304	-.150317	-.011470	-.177935
32	-.153515	-.118946	.002886	-.149730
33	-.134218	-.095376	.010829	-.134716
34	-.108382	-.075937	.022320	-.128077
35	-.084650	-.050050	.028449	-.115202
36	-.065180	-.030935	.019029	-.096477
37	-.054444	-.024028	-.004300	-.076584
38	-.047111	-.028090	-.026172	-.070870
39	-.035456	-.023010	-.031801	-.071116
40	-.026881	-.015922	-.025603	-.064656
41	-.022588	-.017335	-.025923	-.061063
42	-.016528	-.014595	-.018839	-.055175
43	-.006598	-.012407	-.008800	-.052891
44	.006680	-.010487	.005394	-.056632
45	.017986	-.014362	.030337	-.062003
46	.026744	-.028821	.051326	-.060655
47	.028748	-.041480	.059812	-.061075
48	.029909	-.049490	.059640	-.067471
49	.031313	-.052113	.054149	-.067292
50	.030861	-.053367	.057305	-.060800
51	.030294	-.053879	.061218	-.052565
52	.037424	-.059679	.060697	-.047334
53	.050910	-.067373	.057994	-.049444
54	.064428	-.076460	.053905	-.046100
55	.072887	-.078411	.045136	-.039493
56	.075503	-.074011	.037778	-.030159
57	.070720	-.062845	.037959	-.016534
58	.067778	-.043061	.038737	.000404
59	.063536	-.025841	.032795	.020951
60	.056260	-.015093	.016651	.042824

RUN NC 101B   46M   7-4-63   0944-1100(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
0	-.000804	-.026824	-.111295	.056781	-.123043	.149251
1	.183387	-.316554	-.880311	.149218	-.899192	.993143
2	.348309	-.442894	-.816407	-.381395	-.895409	.577287
3	.370587	-.435826	-.597066	-.844623	-.827826	-.227308
4	.178950	-.226599	-.316525	-.907968	-.530721	-.585777
5	.058002	-.127358	-.172180	-.589469	-.288937	-.334915
6	.019280	-.130300	-.156772	-.179990	-.191935	.188619
7-8	.035048	-.140216	-.154995	-.452425	-.154979	.973878
9-11	-.002703	-.062797	-.027806	.071785	-.077783	-.031807
12-15	.001010	-.030764	-.002400	-.063743	-.041213	.039668
16-2C	.001238	-.010068	.000748	-.110569	-.030049	.020413
21-27	.005991	-.011385	-.012194	-.045703	-.020220	-.046465
28-36	-.000989	-.006004	-.002911	.016022	-.006239	-.032265
37-47	-.000580	-.003033	-.000843	-.023731	-.008162	-.015001
48-60	-.000612	-.001584	.001411	-.005388	-.006549	-.021151

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-03
1	-.144466	-.108295	-.284135	.011628	-.368653	.554929
2	-.243646	-.154095	-.137101	-.094938	-.337140	.426036
3	-.216924	-.153903	.008435	-.144230	-.212362	.408074
4	-.100010	-.063634	-.024512	-.041523	-.144839	.566632
5	-.005340	-.032213	-.112815	.045231	-.141449	.623518
6	.040485	-.053953	-.092048	.042862	-.112869	.416605
7-8	.005873	-.039476	-.003918	-.022340	-.077534	-.003808
9-11	-.024148	-.014093	.005090	.001876	-.009751	.198644
12-15	-.002384	-.011223	.001892	-.013159	-.014273	-.073322
16-20	-.000684	-.007643	-.011311	.005810	-.003843	-.009130
21-27	-.001573	-.005511	-.001192	-.000143	.001168	-.040069
28-36	-.000678	-.001359	.000325	-.000110	-.001690	-.029776
37-47	-.000710	-.000891	-.001699	-.000279	-.002501	-.013058
48-6C	.000152	-.000381	-.001671	.000023	-.001623	.030159

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.014284	.019480	.020509	.053288
1	.127761	.164006	.282491	.396435
2	.147820	.182894	.435002	.392891
3	.135348	.175538	.530867	.331662
4	.076803	.106340	.430993	.184920
5	.045542	.058732	.316083	.098909
6	.040248	.051097	.289264	.084976
7-8	.030164	.037857	.313824	.070107
9-11	.014434	.020756	.203259	.043357
12-15	.009732	.013816	.115085	.029056
16-20	.006349	.010155	.087798	.020693
21-27	.004526	.006627	.051008	.013110
28-36	.002671	.003848	.033342	.007724
37-47	.001839	.002467	.019097	.006340
48-60	.001208	.001795	.012145	.004101

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RUN NO 101B   46M   7-4-63   0944-1100(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12199 10E 01	0.57649 10E 00	0.23604 10E 00	0.57158 10E 00	0.23403 10E 00	0.11060 10E 00
0	.063991	-.447196	-.457293	.006750	-.367690	.157553
1	-.016562	-.239314	-.362605	.052875	-.251817	.129339
2	-.065673	-.083910	-.251278	.039260	-.153378	.101895
3	-.058848	-.011230	-.154288	-.006110	-.070250	.072975
4	-.019401	.002924	-.075095	.004583	-.006104	.029906
5	.018792	.029142	-.012932	-.031989	.047564	-.003702
6	.025976	.084475	.009784	.008681	.061191	-.037134
7	.041801	.127804	.059875	.031284	.059778	-.049698
8	.076073	.168401	.102843	-.007645	.066592	-.094023
9	.069745	.163509	.126226	-.046295	.102086	-.087728
10	.018555	.075439	.144811	.000351	.138361	-.058159
11	-.009378	.039448	.145945	-.001358	.158997	-.037122
12	-.027097	.022480	.140711	-.012343	.140648	-.016048
13	-.055638	.000983	.130253	-.043041	.110931	-.008077
14	-.073687	-.028340	.110357	-.046369	.053463	-.007754
15	-.082248	-.034208	.104154	-.014852	.003133	-.030305
16	-.095953	-.076449	.071773	-.010665	-.051845	.006505
17	-.063635	-.120261	.038478	-.013918	-.085286	.023677
18	.014224	-.124468	-.003029	.011444	-.126797	.057179
19	.029841	-.078286	-.030977	.018446	-.115379	.048686
20	.023332	-.023406	-.033368	.037762	-.055251	.027544
21	.057984	.021570	-.024518	.022563	-.023848	-.001131
22	.060974	.079566	.001533	.009918	.025891	-.050136
23	.038563	.081855	.025703	.042321	.049713	-.045424
24	.057730	.063815	.044672	.009311	.036113	-.025232
25	.073778	.018904	.021970	-.008268	-.002205	-.030016
26	.080700	.061277	.005297	-.030355	-.045173	-.018189
27	.074197	.052965	-.008445	-.000722	-.030588	-.006753
28	.045924	.060527	.020824	.000881	.029311	-.001103
29	.026849	.078311	.023446	-.001791	.023132	.017250
30	.010824	.056498	.035203	.022023	-.019300	-.011949

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	-.024480	-.022065	-.023426	.013430	-.008499	.040185
1	-.034209	-.100554	-.192021	.267095	-.067642	.245981
2	.059907	-.168316	-.224721	.573125	-.122692	.306632
3	-.129572	-.396169	-.227090	.606421	-.188286	.456192
4	-.343699	-.426502	-.131096	.074860	-.125838	.386193
5	-.103731	-.208578	-.062658	.072974	-.031248	.165110
6	.160160	-.119743	-.058239	.380702	-.045814	.081892
7	.160568	-.103640	-.046030	.283077	-.076529	.005109
8	.102012	-.048882	-.032561	.159670	-.049988	-.061342
9-11	.090223	-.133723	-.027784	.188967	-.018170	.043056
12-14	.119818	-.091663	-.009958	-.433527	-.012081	-.005413
15-21	.041609	-.048399	-.008669	-.093379	-.011573	.013752
22-30	.035735	-.044747	-.004984	-.181594	-.009558	.011712

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RUN NO 101B '46M   7-4-63   0944-1100(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12199	0.57649	0.23604	0.57158	0.23403	0.11060
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
1	.006583	-.089555	-.045054	.015017	-.019630	.036474
2	.091661	-.111056	-.073271	.084085	.001189	.048458
3	.147174	-.092761	-.083377	.138272	.023375	.055714
4	.190561	-.078549	-.062203	.127998	.064910	.064664
5	.204441	-.091182	-.036869	.095882	.084306	.037080
6	.143271	-.073245	-.012830	.074266	.084113	.034944
7	.084198	-.037415	.008942	.024843	.041953	-.000098
8	-.000203	-.021993	.043569	-.005530	-.003882	-.037682
9	-.087549	.026285	.064468	.008294	-.071330	-.035065
10	-.093750	.069593	.067389	-.000248	-.104096	-.006895
11	-.144512	.074365	.078003	-.095097	-.106730	-.017937
12	-.176618	.065220	.090287	-.168449	-.087650	-.007359
13	-.164350	.035111	.113192	-.136426	-.078692	-.032152
14	-.114355	.030627	.090371	-.120213	-.073364	-.063717
15	-.070183	.010688	.046861	-.045910	-.076028	-.073442
16	-.020814	.007810	-.012906	.036705	-.057685	-.017639
17	.042056	.048074	-.085697	.061822	-.028369	.054167
18	.098335	.008770	-.132170	.090361	.023274	.151141
19	.131901	-.021675	-.151030	.064890	.063083	.140702
20	.189805	-.007273	-.148055	.060238	.083290	.108286
21	.185987	-.023214	-.134703	-.000807	.095104	.057493
22	.146149	.004745	-.116641	.026063	.104529	.044095
23	.099878	.006877	-.100831	-.015815	.099392	.023778
24	.058435	.013161	-.079655	.011108	.099362	.031257
25	.007928	-.015085	-.052940	-.009415	.104784	.003582
26	-.016053	-.032161	-.025278	-.019844	.111973	-.015894
27	-.033112	-.033361	-.005074	-.021303	.086406	-.024979
28	-.058146	-.018696	.000419	-.042651	.036813	-.045734
29	-.113419	-.011839	.014065	-.038818	.025492	-.066904
30	-.136715	-.031857	.058755	-.012523	.022596	-.111239

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.027014	-.000039	.016258	-.014208	-.433957	.085232
2	.099788	-.083872	.040160	.056901	-.163084	-.026843
3	.801071	-.200392	-.052032	.241488	.752549	.174988
4	.996159	-.218334	-.106491	.305474	.793279	.311189
5	.295271	-.136829	-.033968	.102203	.112105	.084376
6	-.062878	-.050886	-.005739	-.040307	-.185448	.051942
7	-.091126	-.009039	-.027879	.034817	-.334335	.169716
8	-.142318	-.008948	-.021590	.089056	-.412075	.028603
9-11	-.113672	-.052756	-.000929	-.042934	-.075460	-.029124
12-14	-.014166	-.027605	-.002195	-.009573	-.036132	.019348
15-21	-.034388	-.007632	.000959	-.019533	-.019101	.011896
22-30	-.024825	-.003612	-.000839	-.002516	-.032230	-.012690

RUN NO 1018   46M   7-4-63   0944-1100(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12303	0.12095	0.27 13	0.45283
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.673044	.553230	.242726	.778993
2	.379451	.212023	.100508	.525936
3	.195258	.014772	.047344	.327372
4	.061410	-.128131	-.052019	.191412
5	-.036181	-.197785	-.010807	.065702
6	-.127660	-.180724	-.085680	-.001286
7	-.224771	-.113014	-.152870	-.057135
8	-.292572	-.078611	-.222665	-.127400
9	-.305165	-.145242	-.189033	-.230730
10	-.278903	-.187793	-.167890	-.302639
11	-.259223	-.179118	-.070674	-.324024
12	-.240658	-.166996	-.059648	-.289488
13	-.187495	-.105504	-.055163	-.249423
14	-.109352	-.028066	-.015094	-.193159
15	-.041798	.022179	-.026982	-.158238
16	.055946	.103765	-.003076	-.127512
17	.099204	.153514	.136208	-.117132
18	.145646	.177838	.090355	-.092030
19	.104064	.145036	-.008841	-.060915
20	.067633	.051401	.065733	-.074247
21	.027804	.050105	.081587	-.098551
22	-.022934	-.026910	-.031472	-.118277
23	-.053090	-.092630	.024807	-.128261
24	-.105885	-.165109	-.014881	-.131334
25	-.091149	-.148414	.065780	-.077578
26	-.088029	-.088621	-.015937	.000641
27	-.105787	-.084676	.007112	.049667
28	-.108662	-.059029	-.070942	.033276
29	-.072251	.011778	-.083552	.026566
30	-.046311	.073241	-.043898	.050117

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.014525	.010800	.011274	.120043
1	.123193	.063613	.092305	.927795
2	.173330	.092822	.171252	.934657
3	.237180	.161104	.278159	.840390
4	.179503	.144744	.246932	.521371
5	.081265	.083398	.150675	.241926
6	.060530	.093956	.103173	.178383
7	.059946	.108913	.086078	.209376
8	.043004	.087311	.075862	.201763
9-11	.039974	.044775	.122379	.110911
12-14	.027064	.026167	.089726	.053835
15-21	.016443	.025062	.090707	.041011
22-30	.012764	.019647	.113568	.025194

RUN NO 101B   91M   7-4-63   0944-1100(EST)

GROSS STATISTICS

6 CU	WIND SPEED	7.97 M/SEC	SIGMA A 11.5 DEG
UNSTABLE	WIND DIRECTION	286 DEG	SIGMA E 6.3 DEG
	SOLAR RAD.	0.93 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.21417E 01	0.11407E 01	0.50628E 00	0.92835F 00
V	0.23882E 01	0.13860E 01	0.75353E 00	0.10807E 01
W	0.67295E 00	0.61094E 00	0.51213E 00	0.35421E-00
T	0.34173E-00	0.69044E-01	0.23758E-01	0.60608E-01
E	0.26015E 01	0.15691E 01	0.88597E 00	
GUSTINESS RATIOS				
U	0.18362	0.13400	0.08928	0.12089
V	0.19390	0.14771	0.10892	0.13043
W	0.10293	0.09807	0.0890'9	0.07467
COVARIANCES				
U,V	0.23473E-00	0.12536E-00	0.27065E-01	0.11691E-00
U,W	-0.31207E-00	-0.19908E-00	-0.72051E-01	-0.16796E-00
U,T	0.59951E-01	-0.51997E-01	-0.61244E-02	-0.49520E-01
V,W	-0.14278E-01	-0.72487E-01	-0.51989E-02	-0.78707E-01
V,T	0.20153E-00	-0.83530E-01	-0.32949E-01	-0.73081E-01
W,T	-0.13246E-01	-0.10323E-01	-0.18428E-01	-0.18312E-02
WE	0.38025E-00	0.21305E-00	0.66829E-01	
NORMALIZED COVARIANCES				
U,V	0.10379	0.09971	0.04382	0.11672
U,W	-0.25994	-0.23848	-0.14150	-0.29289
U,T	0.07008	-0.18528	-0.05584	-0.20877
V,W	-0.01126	-0.07878	-0.00837	-0.12721
V,T	0.22308	-0.27003	-0.24626	-0.28555
W,T	-0.02762	-0.05026	-0.16706	-0.01250

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.61783	0.50941	0.10972	0.62124	0.13381	0.11033
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.043736	-.141480	-.055974	-.008439	-.246204	-.166968
1	.038941	-.135912	-.052138	-.006478	-.229624	-.137665
2	.032053	-.121601	-.047590	-.007134	-.207606	-.100988
3	.028357	-.106187	-.042338	-.010002	-.188198	-.068677
4	.025156	-.091569	-.031795	-.014085	-.162166	-.041824
5	.025198	-.074290	-.022279	-.011576	-.135674	-.029380
6	.026301	-.056760	-.015083	-.006252	-.113412	-.022771
7	.019683	-.045596	-.011829	-.004713	-.091765	-.012711
8	.010654	-.031536	-.008412	-.002534	-.074866	-.004468
9	.002655	-.008726	-.006519	-.002483	-.053474	.005673
10	-.001811	.006867	-.005650	-.001523	-.031548	.015644
11	-.006327	.022207	-.005016	.000614	-.012459	.022545
12	-.010770	.035569	-.004645	.000273	.004129	.025888
13	-.014479	.048351	-.002940	-.000678	.021492	.026683
14	-.015699	.060181	-.003717	.000829	.032661	.031302
15	-.012296	.065499	-.003154	.001378	.047813	.033138
16	-.008550	.071391	-.004178	.003572	.056894	.035389
17	-.007944	.075605	-.002427	.000346	.062344	.047013
18	-.005957	.073132	.000311	-.010133	.066049	.056386
19	-.003765	.068244	.005225	-.013660	.066794	.062020
20	-.003306	.061714	.012572	-.015790	.070177	.060234
21	-.004823	.052731	.011409	-.019483	.068701	.058519
22	-.010187	.041631	.016226	-.025269	.065706	.059956
23	-.011889	.024798	.027193	-.030714	.060831	.059682
24	-.006204	.007895	.033763	-.034890	.057333	.059221
25	-.002963	-.000025	.036921	-.042651	.056903	.056420
26	-.003500	-.004028	.035288	-.044342	.052478	.051157
27	-.004918	-.002342	.025234	-.039334	.045452	.042070
28	-.000170	-.004074	.013187	-.030593	.044252	.028326
29	.006177	-.003602	.001344	-.022703	.047534	.010418
30	.010633	-.003909	-.005526	-.017173	.046023	-.009752
31	.014479	.000182	-.012651	-.013123	.047256	-.023373
32	.023100	.001120	-.016831	-.006633	.047388	-.029358
33	.028336	.001003	-.024069	-.001898	.041984	-.030763
34	.029438	.002010	-.032546	.002922	.042873	-.029723
35	.027809	-.004505	-.037378	.007965	.043682	-.029527
36	.023164	-.016074	-.041212	.014417	.041684	-.030268
37	.021534	-.017589	-.045178	.023229	.043229	-.027231
38	.018118	-.018268	-.045612	.032864	.047138	-.020009
39	.013001	-.023696	-.040921	.041614	.046218	-.008618
40	.007831	-.023427	-.035731	.042197	.045755	-.002750
41	.002908	-.022417	-.031579	.038210	.047472	.000921
42	-.002534	-.019486	-.023813	.034339	.045074	.004617
43	-.006435	-.010777	-.020452	.035750	.044288	.003844
44	-.014780	-.004269	-.017956	.039979	.043749	-.001899
45	-.021592	.000721	-.014005	.044723	.042540	-.003731
46	-.025493	.009794	-.010650	.050224	.043305	-.003749
47	-.028653	.018584	-.011516	.049662	.047871	-.003910
48	-.033181	.021299	-.008110	.041963	.051827	.002363
49	-.036226	.024944	-.006489	.038277	.052979	.005256
50	-.043626	.028307	-.001273	.037320	.049726	.005738
51	-.047177	.027555	-.001064	.034260	.042095	.014113
52	-.048199	.028967	-.004633	.031165	.029168	.014092
53	-.049214	.022382	-.006050	.028758	.016791	.014792
54	-.043701	.017120	-.006332	.028216	.006453	.017484
55	-.028002	.014346	-.004733	.026645	-.000474	.015353
56	-.016474	.009517	.004197	.023250	-.004773	.008281
57	-.008029	.004210	.010203	.015370	-.007554	.002664
58	-.002532	.000465	.020568	.004912	-.012943	-.007190
59	-.001213	-.000607	.035827	.000587	-.023162	-.016216
60	.000567	-.005264	.050306	-.000727	-.032350	-.019141

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.61783	0.50941	0.10972	0.62124	0.13381	0.11033
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
1	-.008632	-.041523	-.007758	.009941	-.014630	.004230
2	-.012506	-.072476	-.008470	.020053	-.023635	.002849
3	-.016982	-.092128	-.015710	.030672	-.031847	.001851
4	-.022861	-.106992	-.023281	.035702	-.033591	.003818
5	-.024526	-.123312	-.029614	.033570	-.033846	.008762
6	-.030774	-.137705	-.033166	.032799	-.031720	.009006
7	-.042145	-.141803	-.035131	.033047	-.033169	.006165
8	-.046850	-.139274	-.036679	.029494	-.037525	.005609
9	-.044989	-.134742	-.041774	.026502	-.044803	.009987
10	-.044974	-.131452	-.041179	.025869	-.046421	.018078
11	-.045992	-.126754	-.032271	.028903	-.041695	.024221
12	-.047009	-.120287	-.022099	.030511	-.031031	.026549
13	-.046790	-.113878	-.014905	.030147	-.014621	.023328
14	-.051898	-.100520	-.005215	.033398	-.005814	.021103
15	-.057020	-.087127	.001078	.035879	-.005282	.023213
16	-.061757	-.072529	.003137	.034687	-.008981	.028229
17	-.063296	-.057306	.004380	.034788	-.013056	.026146
18	-.059142	-.045409	.000238	.036927	-.015804	.026623
19	-.050538	-.034712	-.005380	.034983	-.020407	.022378
20	-.042278	-.022881	-.008386	.027242	-.023993	.019738
21	-.034656	-.013522	-.013835	.015376	-.027285	.019999
22	-.023702	-.002027	-.014225	.004390	-.029352	.011911
23	-.011418	.007962	-.009885	-.005018	-.027285	.012998
24	-.000282	.014555	-.010329	-.012012	-.023966	.017880
25	.005204	.021955	-.011192	-.019681	-.020186	.023171
26	.008253	.034043	-.006129	-.024570	-.020499	.027504
27	.013530	.044249	-.004245	-.022419	-.022645	.026835
28	.017132	.050244	-.007629	-.021810	-.024419	.027012
29	.018158	.057946	-.007831	-.021727	-.024838	.029265
30	.023857	.057239	-.007366	-.022709	-.021045	.034477
31	.032128	.045377	-.010017	-.024418	-.014051	.038431
32	.041724	.035484	-.010175	-.022699	-.006592	.039234
33	.050132	.025151	-.013788	-.019232	-.003205	.031998
34	.058640	.020064	-.017002	-.016933	-.002187	.013686
35	.067326	.016326	-.023102	-.011915	-.001037	.001455
36	.068214	.014645	-.024457	-.005185	-.000574	-.002099
37	.063424	.012290	-.018991	.000619	.001016	-.006711
38	.057426	.011485	-.022616	.000693	.001905	-.016086
39	.051517	.012967	-.029452	-.002640	-.001514	-.018736
40	.047107	.016004	-.036707	-.009594	-.006173	-.017386
41	.047607	.022801	-.041714	-.013892	-.012797	-.016128
42	.049394	.030508	-.038460	-.019655	-.019706	-.020423
43	.048841	.032602	-.035170	-.027187	-.018925	-.021129
44	.045907	.036233	-.031989	-.034935	-.011594	-.019734
45	.039877	.044756	-.024270	-.034972	-.008381	-.020703
46	.036308	.044996	-.016807	-.028495	-.010087	-.024345
47	.032097	.048983	-.012766	-.016802	-.011158	-.022619
48	.024733	.051204	-.008008	-.007590	-.004310	-.017159
49	.014879	.050836	-.006424	.003938	.005769	-.016020
50	.006581	.049196	-.003657	.018465	.012299	-.018069
51	.000405	.045524	.001956	.029665	.018332	-.014155
52	-.007615	.040906	.007515	.032599	.020815	-.016881
53	-.011234	.039884	.010892	.031441	.022087	-.022206
54	-.009091	.035130	.019918	.031944	.024291	-.023118
55	-.005801	.023750	.027512	.035383	.025682	-.018790
56	-.004613	.016770	.027109	.034925	.032732	-.019743
57	-.005449	.010731	.023197	.029305	.040335	-.022386
58	-.007998	.006662	.015700	.023914	.042360	-.023528
59	-.011070	.002350	.007221	.013080	.041891	-.027376
60	-.016523	-.007013	.002024	.000229	.042272	-.029376

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.50661	0.75346	0.51222	0.23763
	10E 00	10E 00	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.872133	.877819	.820818	.864227
2	.712420	.717053	.592045	.717036
3	.577840	.585388	.417766	.610213
4	.463280	.471349	.281849	.516938
5	.369308	.376573	.180493	.437821
6	.288489	.296086	.096115	.365465
7	.212996	.223151	.021974	.299603
8	.146243	.158323	-.035634	.240076
9	.087130	.096650	-.076258	.177347
10	.036164	.037606	-.105231	.116919
11	-.011203	-.015780	-.127213	.065328
12	-.051257	-.061729	-.138569	.027298
13	-.093804	-.103896	-.152525	-.01195.
14	-.136555	-.132867	-.168746	-.054672
15	-.173262	-.161147	-.178686	-.097528
16	-.205160	-.184225	-.189483	-.143997
17	-.233558	-.204665	-.202223	-.186142
18	-.255729	-.222244	-.214986	-.217881
19	-.274200	-.232078	-.229141	-.241329
20	-.286003 ·	-.232934	-.236780	-.254324
21	-.292972	-.229397	-.240350	-.263018
22	-.300262	-.224852	-.238794	-.267679
23	-.303208	-.226187	-.223161	-.273118
24	-.300016	-.227877	-.199564	-.277323
25	-.292727	-.226110	-.170679	-.276693
26	-.280008	-.219035	-.151467	-.279172
27	-.262797	-.206888	-.135568	-.270027
28	-.237800	-.193395	-.122209	-.261581
29	-.207852	-.173352	-.102910	-.258271
30	-.172930	-.142518	-.070012	-.240994
31	-.136167	-.108155	-.033550	-.214178
32	-.099619	-.082687	-.013441	-.190017
33	-.070282	-.063300	-.009998	-.166562
34	-.054322	-.052186	.000578	-.153609
35	-.044649	-.038283	.025651	-.138876
36	-.037271	-.024921	.050048	-.122102
37	-.027479	-.018277	.061641	-.111329
38	-.017074	-.017521	.059943	-.099373
39	-.015032	-.014163	.056386	-.084015
40	-.012313	-.013026	.059141	-.070453
41	-.008026	-.015501	.059882	-.066363
42	-.005500	-.021957	.065129	-.059221
43	-.003586	-.031740	.067131	-.045190
44	-.003066	-.049723	.061422	-.032143
45	-.003137	-.072675	.048095	-.021304
46	-.001612	-.099075	.036285	-.010103
47	.000588	-.122364	.028349	-.010592
48	.011999	-.132338	.021068	-.014908
49	.026088	-.132301	.012653	-.012579
50	.043920	-.133915	.003415	-.001763
51	.059390	-.136630	-.001609	.002437
52	.072359	-.133339	-.007085	.016102
53	.080206	-.120960	.015885	.024970
54	.087573	-.107347	.022556	.036961
55	.094891	-.095468	.021021	.050822
56	.097327	-.088050	.021170	.059975
57	.095331	-.076279	.029820	.065522
58	.092332	-.063515	.045178	.082031
59	.084096	-.050060	.058016	.095555
60	.076244	-.031586	.059054	.093392

RUN NO 101B 91M 7-4-63 0944-1100(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02
0	.180713	-.016431	-.053272	-.189865	-.108032	.006746
1	.548980	-.097658	-.112577	-.646607	-.835597	-.097327
2	.287475	-.125626	-.096886	.189272	-.771440	-.236645
3	.600377	-.183574	-.152421	.358579	-.645183	-.353205
4	.574291	-.159054	-.051705	-.368529	-.448141	-.245020
5	.125265	-.085332	.023114	-.393511	-.242098	-.070884
6	.157769	-.029366	-.043153	.021338	-.109425	-.061034
7-8	.076065	.006411	-.061190	.117579	-.053508	-.117355
9-11	-.071497	-.012789	-.006386	-.009050	-.044277	-.054206
12-15	.041347	-.005338	-.005260	.036010	-.022894	-.039307
16-2C	.042195	-.003126	.001131	.011574	-.008586	-.031049
21-27	.012467	.000415	.000431	-.010294	-.004954	-.010451
28-36	.005836	-.001779	-.001731	-.009356	-.007011	-.005802
37-47	.011931	.000511	-.001468	.001740	-.005286	-.007903
48-60	-.001271	.000157	-.000378	-.005813	-.001316	-.003065

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
1	-.063843	-.145491	-.168675	.477233	-.272033	.192324
2	-.160521	-.226506	-.068500	.896386	-.171870	.118394
3	-.127090	-.253056	-.079646	.949809	-.105417	.004424
4	-.004110	-.177593	-.104401	.403683	-.079066	-.011022
5	.019231	-.076498	-.064337	-.017132	-.089103	.070895
6	.006024	-.029331	-.056272	-.094615	-.101907	-.020414
7-8	-.005526	-.029963	-.010015	.300892	-.022458	-.020304
9-11	-.000240	-.. 7424	.028183	.102582	.015799	.007253
12-15	.002310	-.003607	-.007277	.027195	-.031395	.006002
16-20	-.004275	-.003633	.003055	-.014258	.000100	-.005602
21-27	-.000021	-.004084	-.	-.007723	-.000443	.005500
28-36	-.000721	.000124	-.002645	-.010919	-.000789	.001777
37-47	-.000844	.000009	-.002688	.006237	-.001234	.000116
48-60	.000291	-.000095	-.001321	-.000733	-.001468	.000495

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E 00	10E-01	10E-02
0	.081877	.018130	.021087	.067055
1	.783174	.130620	.358620	.502262
2	.965196	.134279	.614456	.508607
3	.954345	.132833	.792015	.418965
4	.567243	.088242	.582771	.220764
5	.282215	.047408	.365360	.117127
6	.222778	.038365	.317968	.088023
7-8	.196630	.026038	.280749	.068540
9-11	.118419	.016696	.171753	.049117
12-15	.067233	.010394	.098546	.025834
16-20	.044005	.006307	.066649	.021088
21-27	.025913	.003847	.040740	.012654
28-36	.016025	.002373	.023453	.009201
37-47	.011793	.001590	.016447	.006719
48-60	.007429	.000920	.009294	.004083

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10017	0.57356	0.23732	0.61858	(.25595	0.14655
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
0	.116710	-.292829	-.208667	-.127238	-.285530	-.012496
1	.089912	-.215133	-.198460	-.075575	-.223834	.031318
2	.069914	-.144107	-.163014	-.074898	-.147568	.062737
3	.041714	-.140471	-.132364	-.031445	-.100400	.032953
4	.017309	-.059680	-.097240	.052460	-.030878	-.000718
5	-.036701	.018539	-.052352	.068815	.019233	-.005548
6	-.048027	.038769	.012321	.067630	.055153	-.039049
7	-.055209	.052184	.038136	.081262	.068036	-.062873
8	-.068448	.078899	.018352	.079199	.093434	-.034935
9	-.080978	.100080	-.000793	.056127	.125018	-.004194
10	-.068370	.084493	.009490	.067239	.134213	-.006009
11	-.059243	.126069	.036495	.070557	.116200	-.002311
12	-.069497	.092089	.052277	.014716	.091363	-.021656
13	-.056242	.021491	.051744	-.021011	.088287	-.001770
14	-.017420	-.003656	.025109	-.047828	.056341	-.004975
15	.015376	.009232	.000529	-.129249	-.001408	.052217
16	.028840	-.015787	.026662	-.142775	-.043195	.018248
17	.030048	-.008448	.083971	-.090108	-.066134	-.001570
18	.045527	-.012827	.115924	-.071800	-.090333	-.006444
19	.039703	-.013504	.126480	.013415	-.056626	-.028953
20	.025794	-.023748	.114629	.034631	-.029663	-.016514
21	.021014	-.021733	.102978	.057295	.015985	-.031605
22	-.022438	.003564	.092438	.058609	.064364	-.053550
23	-.030607	.010750	.074585	.080976	.084024	-.065212
24	-.015642	.044117	.060452	.062621	.072484	-.034220
25	-.001414	.070206	.047341	.073132	.064266	-.029962
26	.012364	.053937	.053483	.014480	.026353	.002385
27	.021904	.063781	.049095	-.032341	.000880	.012045
28	.005672	.057025	.035616	.026168	-.027808	.021593
29	.009415	.047332	.000792	.006401	-.067036	.036562
30	.024513	.014652	-.061668	-.037013	-.086985	.075037

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.030752	-.045947	-.027898	.010394	-.006268	-.020997
1	.015426	-.268482	-.187820	.047088	-.083988	.060216
2	.212527	-.294115	-.132335	-.005646	-.127440	.084612
3	.382753	-.368916	-.077672	-.193775	-.183547	.147511
4	.287642	-.275039	-.070470	-.296254	-.136394	.245286
5	.076055	-.113296	-.051211	-.102815	-.034704	.124779
6	.043652	-.047926	-.014272	-.003335	-.027694	.015164
7	.067237	-.040533	-.011475	-.079646	-.043295	-.000581
8	.021671	-.058063	-.009257	-.075726	-.020940	-.066063
9-11	-.006391	-.004389	.013533	.010381	-.014247	-.118250
12-14	-.002578	-.020642	-.012708	.015324	-.002243	-.024510
15-21	.019092	-.037804	.000315	-.010055	-.010083	-.063888
22-30	.009246	-.007003	.000735	-.022018	-.002730	-.007123

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RUN NC 101B 91ʷ 7-4-63 0944-1100(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10017	0.57356	0.2 732	0.61859	0.25595	0.14655
	10E 01	10E 00	10E 00	10E 00	10E 00	10F 00
1	-.006161	-.124383	-.005336	.040943	-.042063	.045759
2	-.009427	-.066024	.021525	.008321	-.050264	.041659
3	.038730	-.046399	.034727	-.029766	-.057319	.043530
4	.047326	-.044035	.056820	-.043778	-.048120	-.011132
5	.030982	-.018832	.089388	-.055407	-.020511	-.020745
6	.018191	-.035180	.111473	-.025442	.017583	-.036785
7	.003777	-.076873	.127386	-.058073	.021307	-.020529
8	-.035618	.007986	.145316	.005179	.009158	-.005150
9	-.045813	.072649	.130470	.011915	-.011650	-.038891
10	-.045889	.063983	.108097	.013453	-.028957	-.054635
11	-.057184	.044906	.109466	.020518	-.034498	-.066016
12	-.035413	.027204	.081168	.018273	-.014103	-.046381
13	-.028377	.024205	.045556	.011713	-.017331	-.047868
14	-.017784	.019374	.010181	-.041406	-.027729	-.010998
15	.014882	.039987	-.056197	-.026277	-.037154	.002705
16	.052489	.034960	-.119714	.004176	-.067183	.035744
17	.050544	.019221	-.148690	.054434	-.074897	.076962
18	.053297	-.015760	-.158865	.010143	-.056584	.112422
19	.109891	-.050780	-.152927	.019986	-.032476	.119151
20	.119795	-.053126	-.111058	.034479	-.008129	.093165
21	.137242	-.083478	-.082089	-.026082	.027987	.071999
22	.127543	-.054339	-.076996	-.078453	.078575	.056419
23	.074645	.001176	-.041856	-.040293	.115989	.054545
24	.006552	-.016976	.002097	-.026330	.151528	.006440
25	-.053424	-.044713	.023865	-.071174	.162815	-.020709
26	-.066507	-.030623	-.002486	-.026351	.162335	-.021789
27	-.040389	.001135	-.037781	.021529	.145126	-.027731
28	- 014157	.036731	-.054345	.081809	.152492	-.007218
29	.004071	.021897	-.039238	.112162	.167962	-.007803
30	.023179	.042892	-.034280	.081006	.167348	-.020311

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	.057907	.014478	.084643	-.407927	-.502601	-.046757
2	-.118799	-.010555	.141611	-.448408	-.265651	-.264773
3	.060319	-.125557	.085689	-.754092	.103154	-.014983
4	.251373	-.155745	-.040353	-.496804	-.309300	.324459
5	.076585	-.078304	-.039239	-.326478	-.390202	.128067
6	-.000975	-.049821	.001036	-.027434	-.217588	.001527
7	-.032708	-.026076	-.009049	.795873	-.367243	.120144
8	-.076754	.006622	-.015344	.695581	-.282263	.160255
9-11	-.045835	-.083319	.001444	.277639	.036549	.120664
12-14	-.025611	-.042241	-.003425	.218636	-.007772	-.016760
15-21	.006433	-.043744	-.003404	.150280	-.037357	.003671
22-30	.013518	-.011703	-.001085	.023874	-.020392	.040155

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NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.92881	0.10804	0.35419	0.60636
	10E 00	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.719590	.612122	.241866	.806147
2	.462038	.330193	.062348	.565257
3	.325239	.140311	.069339	.384841
4	.217002	-.039803	.040619	.239987
5	.123309	-.205813	-.045449	.106984
6	.045135	-.227411	-.019514	-.011830
7	-.066079	-.177473	-.076441	-.126267
8	-.163951	-.173474	-.277718	-.211015
9	-.175544	-.224395	-.133759	-.270775
10	-.206895	-.247297	-.151863	-.321604
11	-.277518	-.183893	-.136559	-.330804
12	-.300986	-.173899	-.114365	-.299663
13	-.285695	-.142799	-.054423	-.255546
14	-.272715	-.030618	-.059851	-.213793
15	-.193655	.095958	-.036800	-.152466
16	-.161848	.196170	.065136	-.101773
17	-.141049	.186048	.084207	-.074648
18	-.128524	.192044	.133887	-.058562
19	-.158260	.138240	.066915	-.058420
20	-.155027	-.001282	.057852	-.069794
21	-.095203	-.095675	.011080	-.091662
22	-.029143	-.143448	-.018060	-.131347
23	.009587	-.150943	.047121	-.131876
24	.055277	-.171104	-.055779	-.097561
25	.051422	-.170416	-.074603	-.057800
26	.012730	-.173866	-.153173	-.026965
27	.016494	-.114693	-.089347	-.018094
28	.002071	-.101547	-.053674	-.007613
29	-.001519	-.024235	-.029189	.004087
30	.052270	.052275	-.097380	.005933

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.024220	.012358	.024113	.016874
1	.190518	.081103	.165190	.127842
2	.193518	.104225	.243516	.131407
3	.157620	.176356	.373095	.124214
4	.085756	.168228	.293941	.078979
5	.047487	.082292	.136145	.033450
6	.033668	.069819	.108767	.019540
7	.038401	.087130	.114082	.021319
8	.033057	.059855	.102993	.017651
9-11	.023749	.025258	.153267	.012758
12-14	.019921	.013009	.128240	.ь 80
15-21	.011763	.022585	.147571	.004544
22-30	.006999	.015230	.125445	.002472

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RUN NC  101B   46M    7-4-63   0944-1100(EST)
RUN NC  101B   91M    7-4-63   0944-1100(EST)
    61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.483275	.561256	.523318	.583961
1	.343101	.761662	.368985	.536991
2	.267337	.649279	.323747	.506229
3	.177664	.573544	.314471	.514345
4	.095100	.490124	.325996	.500262
5	.097960	.372539	.344434	.373815
6	.155349	.449761	.290264	.186873
7-8	.073886	.351577	.229097	.101625
9-11	.057086	.126863	.255032	.081431
12-15	.045975	.066898	.139873	.122362
16-20	.129586	.097257	.085850	.092272
21-27	.126396	.092829	.134627	.109095
28-36	.072841	.148112	.096545	.092434
37-47	.087528	.093694	.117017	.144246
48-60	.095089	.095460	.092995	.133147

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.926447	.927468	.026692	.876068
1	.878976	.865100	.-71845	.893192
2	.823441	.821334	.772902	.869040
3	.783921	.871510	.760792	.838449
4	.715941	.907284	.-14473	.816959
5	.507749	.893517	.598310	.749543
6	.302948	.895102	.420653	.547493
7	.267360	.868107	.379580	.570625
8	.315296	.773284	.436743	.514722
9-11	.320518	.572199	.310961	.520330
12-14	.313872	.519076	.359184	.609488
15-21	.203747	.486170	.351670	.428618
22-30	.324918	.169968	.261617	.279426

GROSS STATISTICS

7 CU SC	WIND SPEED	5.76 M/SEC	SIGMA A 15.7 DEG
UNSTABLE	WIND DIRECTION	296 DEG	SIGMA E 8.9 DEG
	SOLAR RAD.	0.66 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.29559E 01	0.26263E 01	0.16437E 01	0.18275E 01
V	0.24135E 01	0.16742E 01	0.11743E 01	0.10130E 01
W	0.64308E 00	0.63929E 00	0.57997E 00	0.21308E-00
T	0.13435E-00	0.41117E-01	0.17517E-01	0.33681E-01
E	0.30062E 01	0.24699E 01	0.16990E 01	
GUSTINESS RATIOS				
U	0.29848	0.28135	0.22258	0.23469
V	0.26971	0.22464	0.18814	0.17473
W	0.13922	0.13881	0.13222	0.08014
COVARIANCES				
U,V	-0.58844E 00	-0.27951E-00	-0.14696E-01	-0.26758E-00
U,W	-0.52708E 00	-0.47438E-00	-0.37090E-00	-0.31905E-00
U,T	-0.19178E-00	-0.16783E-00	-0.80295E-01	-0.13743E-00
V,W	0.82790E-02	-0.30672E-01	-0.53874E-01	0.82583E-02
V,T	0.66311E-01	0.59935E-01	0.27674E-01	0.38930E-01
W,T	0.77255E-02	0.75490E-02	0.55711E-02	0.13112E-01
W,E	-0.11591E-00	-0.12741E-01	-0.53844E-02	
NORMALIZED COVARIANCES				
U,V	-0.22031	-0.13330	-0.01058	-0.19666
U,W	-0.38230	-0.36610	-0.37988	-0.51129
U,T	-0.30432	-0.51072	-0.47320	-0.55395
V,W	0.00665	-0.02965	-0.06528	0.01778
V,T	0.11645	0.22844	0.19295	0.21076
W,T	0.02628	0.04656	0.05527	0.15478

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13895	0.97652	0.16970	0.82551	0.14346	0.10082
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
0	-.010525	-.379635	-.473350	-.065370	.192776	.055079
1	-.003447	-.339491	-.426270	-.049839	.140752	.104257
2	.002045	-.268588	-.361627	-.039173	.083079	.129088
3	.005128	-.210903	-.313700	-.024356	.043718	.132577
4	.007804	-.164688	-.263160	-.016548	.016612	.118615
5	.009153	-.117984	-.214764	-.018560	-.003259	.098462
6	.008827	-.080752	-.172607	-.014514	-.014672	.077686
7	.006440	-.053208	-.136610	-.007078	-.022721	.058188
8	.002724	-.033522	-.094896	.005628	-.025554	.049505
9	-.000036	-.008141	-.058174	.021324	-.021041	.043386
10	.000183	.016771	-.025683	.018912	-.013691	.023292
11	.006956	.035197	.006706	.015449	-.016500	.001892
12	.009224	.057238	.031345	-.003989	-.016957	-.019327
13	.006455	.079988	.057760	-.003555	-.011929	-.038863
14	.002387	.096121	.082575	-.001648	-.010440	-.046942
15	-.004688	.108649	.103228	.018151	-.019191	-.052412
16	-.013434	.117553	.118291	.032626	-.023399	-.062532
17	-.019066	.128369	.132144	.041404	-.021622	-.074293
18	-.028369	.134334	.142279	.042810	-.016584	-.080776
19	-.033769	.130337	.150937	.038073	-.015243	-.076323
20	-.038465	.122927	.152834	.035410	-.010775	-.073090
21	-.041989	.114515	.150094	.036220	-.010485	-.075972
22	-.035797	.105828	.148197	.029192	-.010924	-.076074
23	-.026007	.104117	.145049	.016501	-.010090	-.073376
24	-.021922	.103123	.139988	.011515	-.008803	-.065177
25	-.015448	.091015	.135580	.006247	-.012018	-.065399
26	-.008707	.082141	.125072	.004698	-.016199	-.057092
27	-.002570	.071167	.113010	.000246	-.019058	-.043428
28	.003326	.057142	.103219	-.008430	-.016713	-.040237
29	.005649	.041757	.088551	-.012995	-.009028	-.039225
30	.007560	.025190	.070448	-.026730	.004777	-.038355
31	.012747	.001930	.050137	-.038039	.019390	-.033517
32	.012460	-.011975	.031437	-.027080	.025868	-.023789
33	.007272	-.021996	.012831	-.013127	.026968	-.012051
34	.003215	-.029725	-.000119	-.000631	.025939	-.003897
35	-.002846	-.027610	-.005695	.011149	.026851	.005985
36	-.000112	-.025495	-.007880	.020288	.021240	.019767
37	.003483	-.035039	-.006177	.013128	.019535	.028246
38	.004954	-.044768	-.004066	-.004225	.021070	.026718
39	.005909	-.053843	-.000025	-.017771	.018770	.017430
40	.006188	-.058746	.003740	-.024544	.012953	.004664
41	.011494	-.050486	.001908	-.026847	.008228	.001463
42	.013825	-.033119	.000698	-.022435	.004856	-.002416
43	.017765	-.022381	.002732	-.019049	.003024	-.003225
44	.021385	-.007023	.001367	-.019166	-.000494	.000452
45	.020991	.004899	.002710	-.021026	-.000616	.000987
46	.019237	.006839	.006419	-.017300	.002770	.009262
47	.018264	.010918	.007822	-.015737	.008445	.008922
48	.020080	.014335	.009261	-.008775	.005201	.010795
49	.027869	.015806	.012212	-.003363	-.006768	.020721
50	.032800	.017415	.017832	.004449	-.023399	.025867
51	.026648	.026921	.021065	.017494	-.028663	.021011
52	.015117	.038186	.022022	.019439	-.015903	.010680
53	.005523	.043874	.016220	.020008	-.005904	.000589
54	-.002506	.043910	.011441	.008863	-.002933	-.011795
55	-.007992	.036803	.002517	.003937	-.005982	-.019812
56	-.011419	.022277	-.006221	.003224	-.011262	-.012909
57	-.014285	.000640	-.012091	.002020	-.015825	.001938
58	-.018913	-.011041	-.016002	.004795	-.020334	.009987
59	-.025093	-.010692	-.014496	.011457	-.019119	.011545
60	-.029779	-.012489	-.011870	.012003	-.019863	.009961

RUN NC 101C 15M 7-4-63 1122-1238(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13895	0.97652	0.16970	0.82551	0.14346	0.10082
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
1	.017654	-.038811	-.038126	-.017579	.015589	.006141
2	.038164	-.060506	-.061118	-.014681	.024444	.006817
3	.046532	-.060887	-.084264	-.001185	.015641	.003681
4	.050008	-.059524	-.104321	.004228	.008079	.011091
5	.052073	-.069122	-.117479	.003055	.010231	.005757
6	.051532	-.071017	-.127273	-.003842	.008023	.007451
7	.039178	-.062005	-.135874	-.004581	-.006738	.010646
8	.027056	-.052350	-.137457	.005196	-.016779	.009420
9	.017247	-.039972	-.138047	.012767	-.017708	.002975
10	.001918	-.023273	-.143878	.003466	-.013283	.006044
11	-.010298	-.005596	-.147247	-.004132	-.009623	.014587
12	-.012703	.001752	-.144334	-.011085	-.005072	.026170
13	-.010581	.012871	-.140206	-.008377	-.000962	.038287
14	-.007087	.017525	-.133849	-.004896	.004465	.038181
15	-.004371	.021966	-.120420	-.001914	.009234	.036268
16	.001840	.020861	-.105522	-.001401	.004604	.034999
17	.004397	.022397	-.096241	.005524	.002150	.031251
18	.008233	.020934	-.086506	.007517	.010073	.030710
19	.008426	.023101	-.074979	.009195	.021163	.030444
20	.014175	.028085	-.063329	.008971	.026373	.035819
21	.019327	.036439	-.046574	.007523	.031509	.037164
22	.012934	.032073	-.031481	.016045	.031161	.036063
23	.009318	.026591	-.014953	.017830	.031695	.034953
24	.008861	.021150	.000951	.020672	.034922	.028473
25	.010734	.012982	.014139	.023495	.037156	.016766
26	.010382	.009498	.020925	.022314	.037310	.003220
27	.008180	.010873	.023007	.017349	.035788	-.005158
28	.006335	.012958	.021083	.016493	.027077	-.011134
29	.004353	.021414	.020742	.021246	.017257	-.007746
30	.007922	.024511	.025253	.024112	.017507	-.010736
31	.010959	.019513	.032798	.015761	.020035	-.017323
32	.011642	.008708	.037024	.005997	.020401	-.018318
33	.015754	-.002142	.041795	.007391	.019252	-.026363
34	.024627	-.002640	.042523	.013634	.012010	-.026507
35	.027647	-.004056	.033352	.026295	.002380	-.028559
36	.026184	-.006787	.026631	.032952	-.000920	-.027696
37	.027273	-.014340	.022831	.024603	-.000413	-.028266
38	.024897	-.018607	.014801	.008040	.002138	-.022282
39	.024985	-.019941	.008986	-.004216	-.000599	-.007609
40	.027586	-.021891	.010168	-.012507	.002403	.003847
41	.029414	-.019612	.003145	-.010608	.001923	.008387
42	.024879	-.009772	-.003423	-.011927	.004122	.008702
43	.011861	.001453	-.007240	-.017760	.004374	.002745
44	-.003061	.000247	-.008007	-.028438	-.001187	.003149
45	-.014602	-.003344	-.010261	-.035777	-.010969	.012126
46	-.025186	-.006632	-.013877	-.028900	-.022801	.015494
47	-.035136	-.009242	-.016740	-.025330	-.028920	.007355
48	-.048044	-.015245	-.016877	-.029918	-.026542	.002218
49	-.059461	-.012863	-.014280	-.035097	-.024952	-.004854
50	-.071751	-.007288	-.013223	-.038341	-.027077	-.005397
51	-.083102	-.007974	-.011406	-.046742	-.029638	.001078
52	-.093602	-.005575	-.007691	-.058917	-.034453	.012622
53	-.099575	-.001438	-.009029	-.067995	-.038731	.017369
54	-.096510	.004384	-.006476	-.062370	-.039354	.013022
55	-.087641	.006706	.006564	-.050084	-.037057	.006441
56	-.077282	.010519	.013473	-.036315	-.040832	.002544
57	-.065189	.011081	.021644	-.022568	-.042726	-.004906
58	-.051391	.011250	.027597	-.009540	-.037743	-.013396
59	-.047240	.005526	.025937	-.008752	-.029418	-.018237
60	-.044261	.002110	.022889	-.007574	-.025297	-.014630

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61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16436	0.11746	0.58017	0.17521
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.846067	.797681	.644130	.822686
2	.659429	.568859	.323907	.638787
3	.514875	.410806	.150525	.517202
4	.392384	.298249	.065133	.425256
5	.286086	.214756	.018293	.347012
6	.201765	.148085	-.013935	.274675
7	.133172	.080983	-.037349	.220116
8	.071394	.023868	-.065025	.171719
9	.014226	-.013332	-.093019	.131719
10	-.042125	-.038355	-.102112	.095361
11	-.089844	-.071243	-.098172	.059432
12	-.130248	-.091374	-.096953	.026849
13	-.168638	-.101220	-.101706	-.007996
14	-.193736	-.115878	-.113971	-.049450
15	-.207952	-.147229	-.121439	-.099802
16	-.217707	-.174887	-.126619	-.137062
17	-.232592	-.201034	-.121072	-.173503
18	-.250866	-.221975	-.113558	-.205167
19	-.262712	-.231680	-.106690	-.227184
20	-.272817	-.234093	-.092774	-.233626
21	-.269078	-.242325	-.083399	-.236904
22	-.251719	-.239044	-.093427	-.243965
23	-.226112	-.227376	-.113860	-.257833
24	-.200646	-.209146	-.111848	-.266755
25	-.182399	-.193324	-.070900	-.269548
26	-.157241	-.192377	-.047654	-.265423
27	-.135807	-.189004	-.051977	-.257747
28	-.119125	-.170915	-.047613	-.241208
29	-.097681	-.139263	-.021130	-.216344
30	-.066931	-.099777	-.004212	-.181986
31	-.030129	-.065925	.022070	-.144855
32	-.002707	-.033444	.038865	-.114385
33	.016601	-.004269	.038774	-.090876
34	.026476	.011903	.039556	-.071460
35	.030677	.024237	.044929	-.057810
36	.034326	.033482	.034460	-.047334
37	.044161	.040200	.040610	-.042343
38	.050750	.050439	.056057	-.040419
39	.047899	.053310	.062523	-.039107
40	.040771	.049943	.044488	-.033100
41	.032204	.050405	.015560	-.023338
42	.018697	.054105	-.017549	-.015017
43	.004679	.051942	-.029679	-.000719
44	-.023205	.049134	-.022580	.010732
45	-.050525	.041130	-.009055	.018672
46	-.062004	.042923	-.011084	.017074
47	-.060348	.050339	-.007502	.015682
48	-.062392	.057120	-.012259	.020443
49	-.071207	.049485	-.024788	.021284
50	-.079485	.032939	-.010953	.013029
51	-.079916	.019674	-.014127	.007476
52	-.078918	.016074	-.026344	.008046
53	-.071946	.012847	-.038455	.013885
54	-.054381	-.000444	-.040755	.012818
55	-.030165	-.009255	-.038418	.014935
56	.002884	-.008480	-.026580	.020653
57	.030176	-.019953	-.005063	.020737
58	.048536	-.036882	.014356	.026063
59	.066760	-.053534	.017422	.022564
60	.073354	-.069858	.008855	.010137

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
0	-.023123	-.033320	-.018846	.001895	.038056	.010706
1	-.057001	-.366145	-.140588	-.001926	.125583	.237955
2	.054726	-.577805	-.162334	-.053741	.142185	.376688
3	.106776	-.771012	-.170010	-.115480	.251761	.419283
4	.030178	-.546278	-.106954	-.095898	.232231	.229242
5	-.052687	-.255963	-.047472	-.039212	.161425	.053367
6	-.089306	-.185860	-.031181	.004600	.185024	.001226
7-8	.000035	-.134853	-.023802	-.028145	.180063	-.025205
9-11	.002393	-.104097	-.014007	-.024488	.140079	-.018411
12-15	-.020768	-.060070	-.007604	.008275	.073301	-.021682
16-2C	-.000904	-.027726	-.005081	-.022963	.048504	-.038159
21-27	-.004126	-.018743	-.002949	-.001595	.034687	-.018416
28-36	-.002816	-.013658	-.002723	-.000550	.019865	-.016881
37-47	-.002774	-.003365	-.001398	-.002102	.013404	-.011294
48-60	-.001540	-.000983	-.000589	-.003481	.009331	-.010899

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
1	.155806	.036435	-.821292	.610044	.184005	.124317
2	.074365	-.011467	-.903367	.195937	.061794	.128999
3	.034808	-.122557	-.905606	-.431967	-.085169	.079600
4	.123026	-.185522	-.481939	-.142879	-.078269	-.042042
5	.105553	-.157540	-.136450	.117860	.003158	-.064913
6	.127250	-.126718	-.059861	.061162	.060561	-.000994
7-8	.136800	-.082569	-.050661	.046090	.048721	.008531
9-11	.036447	-.028437	-.035740	-.120424	.044417	.013358
12-15	-.003885	-.006047	-.021257	-.086199	.020324	-.000944
16-2C	.005831	-.015222	.000875	-.060961	.006092	.001873
21-27	.000176	-.012912	-.008120	-.148873	.015304	.002536
28-36	-.001916	-.002668	-.004326	-.011949	-.000609	.002497
37-47	-.002546	.002552	-.005136	-.012369	-.004725	.001914
48-6C	-.002331	.000084	-.001516	.008237	-.000966	-.003358

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.022365	.011227	.018405	.043657
1	.186716	.108668	.204308	.304188
2	.237390	.156459	.335588	.320703
3	.287945	.182054	.507126	.286953
4	.215061	.118936	.464068	.151811
5	.114362	.067118	.328534	.073291
6	.084380	.060564	.305409	.065034
7-8	.067633	.056068	.285641	.063729
9-11	.042491	.038046	.216460	.047524
12-15	.028740	.021241	.166947	.024409
16-2C	.014997	.016951	.138617	.019125
21-27	.010132	.010894	.090054	.013542
28-36	.007302	.006388	.064806	.009526
37-47	.004539	.004486	.043277	.005996
48-6C	.002899	.002892	.031686	.004230

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13597	0.62395	0.24816	0.46418	0.18462	0.84720
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
0	-.196795	-.511342	-.553800	.017791	.210866	.154774
1	-.185191	-.202413	-.377074	.044943	.145731	.087058
2	-.157192	.000122	-.182851	.073930	.109201	-.024676
3	-.108703	-.010585	-.097304	.024671	.090562	-.010531
4	-.059384	-.004332	-.000373	.005269	.059940	.016009
5	-.001131	.063706	.076341	.005376	.007044	.024242
6	.034069	.060798	.115498	.001394	-.055815	.012796
7	.081849	.028770	.36807	-.015608	-.092484	.030122
8	.142746	.077276	.76703	-.050943	-.124296	-.013587
9	.152913	.092280	.171676	-.051099	-.149395	-.044397
10	.103575	.096266	.153705	-.014854	-.151843	-.063477
11	.077334	.089419	.122608	.005793	-.113062	-.053629
12	.086245	.064936	.111762	.025464	-.068464	-.036034
13	.068756	.077890	.099443	-.020381	-.032929	-.080772
14	.045577	.050917	.098189	-.058085	-.014034	-.081400
15	.019359	-.018703	.008340	-.059772	.018250	-.040571
16	-.047200	-.069607	-.091682	-.015659	.030496	.033003
17	-.028964	-.106325	-.112951	.017950	.021611	.031821
18	-.037762	-.069478	-.068791	-.008791	.039241	.019851
19	-.045936	-.010376	-.014207	.016348	.033452	.014727
20	-.034080	-.052367	-.006236	.048209	.035152	.056072
21	-.063446	-.005211	.005929	.055177	.072910	.011513
22	-.051963	.021834	.009587	.073442	.065212	.006831
23	-.017963	-.003492	.000764	.016082	.054769	.007381
24	.016345	-.012627	.001369	-.035674	.055088	.046556
25	.015128	.031298	-.001721	-.027731	.061014	.040452
26	.015472	.061789	.001782	-.049345	.048093	-.012351
27	.015749	.033722	-.014290	-.055050	.038001	-.016134
28	.022187	.013823	-.016303	-.020665	.009511	-.022195
29	.004931	.039336	.001478	-.001762	.002952	-.047944
30	.045241	.070895	.023637	-.044313	-.037195	-.047963

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	-.037520	-.012049	-.005799	.048653	.000042	-.000368
1	-.355175	-.109223	-.094775	.377783	.020584	.074402
2	-.643382	-.215311	-.173356	.640483	.074239	.174019
3	-.930608	-.370262	-.260250	.801892	.120105	.199222
4	-.627932	-.299074	-.217458	.327775	.083730	.036090
5	-.205276	-.132569	-.111859	.281440	.026596	-.050755
6	-.046742	-.138981	-.079566	.328002	-.008184	.026141
7	.022066	-.207935	-.088564	-.248483	-.011104	.104994
8	.040229	-.177969	-.054969	-.377955	.002318	.093422
9-11	-.041998	-.143261	-.043598	.148026	.006589	.119073
12-14	.034799	-.112298	-.022113	-.342570	.006410	.054983
15-21	-.001086	-.134674	-.025512	-.169485	.006663	.053720
22-3C	-.005010	-.052610	-.008235	.028719	.005108	-.009759

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NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13597	0.62395	0.24816	0.46418	0.18462	0.84720
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
1	.009712	-.010382	-.159094	-.006261	.050866	.060603
2	-.024552	.065742	-.185100	.007013	.105542	.086638
3	-.031397	.050814	-.180874	-.025514	.100914	.058193
4	-.049845	.029985	-.185751	-.073619	.076077	.043219
5	-.104399	.031870	-.158271	-.118361	.054834	.042384
6	-.078869	.030387	-.090357	-.058810	.Q54470	.003876
7	.021300	.018735	-.044279	.025951	.083814	-.018591
8	.037405	-.015504	-.013219	.053413	.033955	.004158
9	.012820	-.062819	.037839	.016109	-.000794	-.041037
10	.023491	-.065833	.043966	.004685	.011921	-.054074
11	.077118	-.079672	.057462	.046635	.052749	-.035128
12	.123802	-.055098	.082468	.075020	.063231	-.044950
13	.103677	-.025619	.095044	.045042	.043021	-.063329
14	.011843	-.014732	.079628	.020333	-.003849	-.051672
15	.004277	.035664	.072657	-.034972	-.021741	-.024193
16	.021776	.034097	.044631	.037139	-.019886	-.026732
17	.024850	.025823	-.042094	.062118	-.007834	.004535
18	-.014239	.011374	-.065303	.036585	-.024069	.053090
19	.015738	.065113	-.056791	.053575	.002418	.058988
20	-.008621	.003247	-.044750	-.003040	.013637	.020400
21	-.059280	-.047917	-.031671	-.046121	-.026755	.002708
22	-.055693	-.005905	.009875	-.068361	-.045682	.004665
23	-.024492	.021453	.040559	-.116553	-.026821	-.016290
24	.010137	-.012902	.057072	-.067711	-.029422	-.027620
25	.017583	-.024631	.035537	-.031952	-.055755	-.004045
26	-.021430	-.010846	.014525	-.025552	-.076141	.005622
27	-.013117	.028144	-.014443	.005331	-.055941	.010425
28	-.001701	.000345	-.041406	.030653	-.034396	.028385
29	-.016199	.037179	-.073042	.004438	-.061705	.059785
30	-.014722	.102046	-.037214	-.038479	-.023542	.065250

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	.194695	-.043216	-.026902	.036405	.545961	-.085177
2	-.005596	-.018950	-.068923	-.015867	.561451	-.005775
3	-.329724	.064813	-.144936	-.103308	.436768	.149295
4	-.388715	.160162	-.166550	-.089478	.301616	.230499
5	-.140988	.120493	-.094236	-.053638	.265005	.128968
6	.052055	.001668	-.045103	-.029505	.290472	.060040
7	.126054	-.036844	-.053787	.045278	.222568	.099175
8	.081550	-.007066	-.033643	.051074	.032752	.072604
9-11	.121704	.021950	-.012879	.060518	.125573	.040445
12-14	-.102268	-.007209	-.015878	-.032352	-.012747	.021004
15-21	.052454	-.032662	-.012399	-.007301	-.024501	.003124
22-30	.005126	-.019090	-.001959	-.006973	-.017704	-.003251

RUN NO 101C   15M   7-4-63   1122-1238(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.18277	0.10115	0.21301	0.33695
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.539689	.500784	.101454	.744481
2	.234910	.201848	-.029871	.465690
3	.150687	.082420	.018524	.269657
4	-.002022	.017808	-.049066	.103814
5	-.166583	-.052539	-.112563	-.046103
6	-.172022	-.138191	-.078601	-.150186
7	-.221056	-.113935	-.039648	-.204268
8	-.318522	-.052539	-.047308	-.245871
9	-.306090	-.083393	-.118196	-.239436
10	-.242807	-.164377	-.088439	-.211073
11	-.232146	-.189072	-.057631	-.197915
12	-.162576	-.152446	-.011412	-.193526
13	-.109176	-.183675	-.058135	-.181398
14	-.063296	-.172340	-.095558	-.158432
15	.043104	-.059558	.045106	-.051259
16	.188103	.016033	.017676	.055039
17	.214608	.129341	.059981	.091888
18	.138473	.100649	.014742	.038728
19	.036303	-.042139	.009359	-.003411
20	-.001423	-.106432	.063221	-.006195
21	-.013597	-.098842	.022150	-.044154
22	.007236	-.133423	-.104030	-.089113
23	.004944	-.105821	.062763	-.084795
24	.010162	.019794	.022346	-.068834
25	-.031568	.090070	-.039699	-.021214
26	-.034035	.077215	-.064632	.025606
27	.000770	.012214	-.024154	.051639
28	.018384	-.039788	.048160	.041283
29	-.031576	-.026273	-.018238	.000098
30	-.060876	-.047521	-.072657	-.036911

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.005847	.011137	.004717	.078437
1	.085058	.093150	.050123	.482099
2	.178621	.108364	.084211	.527081
3	.306439	.121648	.131292	.623685
4	.274759	.096177	.123009	.500423
5	.135041	.055480	.091567	.276935
6	.079646	.058547	.091423	.198961
7	.098314	.080400	.098644	.187656
8	.077277	.050669	.089112	.101997
9-11	.059964	.030658	.082723	.072615
12-14	.036817	.033704	.062711	.050007
15-21	.052231	.024266	.108712	.038568
22-30	.025848	.019990	.101552	.021781

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RUN NO 101C   46M   7-4-63   1122-1238(EST)

GROSS STATISTICS

7 CU SC	WIND SPEED	7.84 M/SEC	SIGMA A 14.4 DEG
UNSTABLE	WIND DIRECTION	304 DEG	SIGMA E 7.5 DEG
	SOLAR RAD.	0.66 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.26693E 01	0.20089E 01	0.11676E 01	0.15094E 01
V	0.35468E 01	0.19165E 01	0.12429E 01	0.12853E 01
W	0.80055E 00	0.75924E 00	0.67376E 00	0.33191E-00
T	0.67779E-01	0.21203E-01	0.10784E-01	0.16747E-01
E	0.35083E 01	0.22426E 01	0.15421E 01	
GUSTINESS RATIOS				
U	0.20839	0.18079	0.13782	0.15671
V	0.24022	0.17658	0.14220	0.14461
W	0.11412	0.11114	0.10470	0.07348
COVARIANCES				
U,V	-0.46497E-00	-0.17457E-00	0.15453E-01	-0.19412E-00
U,W	-0.67750E 00	-0.59804E 00	-0.40033E-00	-0.41077E-00
U,T	-0.73322E-01	-0.42596E-01	-0.30222E-01	-0.33827E-01
V,W	0.15627E-00	0.37220E-01	0.33195E-02	0.55527E-01
V,T	-0.22679E-00	-0.12633E-00	-0.62391E-01	-0.96587E-01
W,T	0.84614E-02	0.17052E-01	0.13634E-01	0.12031E-01
W E	0.76740E 00	0.47224E-00	0.26315E-00	
NORMALIZED COVARIANCES				
U,V	-0.15112	-0.08897	0.01283	-0.13937
U,W	-0.46347	-0.48424	-0.45136	-0.58033
U,T	-0.17238	-0.20639	-0.26934	-0.21276
V,W	0.09274	0.03086	0.03363	0.08501
V,T	-0.46255	-0.62670	-0.53893	-0.65833
W,T	0.03632	0.13440	0.15995	0.16137

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12043	0.98699	0.11220	0.91495	0.11574	0.85246
	1OE 01	1OE 00	1OE 00	1OE 00	1OE 00	1OE-01
0	.012430	-.451462	-.269273	.003710	-.538628	.159725
1	.006440	-.385482	-.248607	-.001338	-.460289	.151466
2	-.006752	-.287153	-.214432	.004533	-.364079	.134477
3	-.013938	-.207329	-.182344	.019727	-.291081	.108616
4	-.020001	-.152054	-.149945	.031666	-.235678	.078723
5	-.027133	-.106468	-.120110	.040913	-.187712	.049687
6	-.030461	-.068303	-.096362	.045819	-.148642	.032101
7	-.030469	-.036248	-.073399	.042343	-.113007	.018386
8	-.031081	-.016924	-.046585	.043740	-.075117	.009343
9	-.029126	.001508	-.023072	.038445	-.040316	-.000587
10	-.023196	.018984	-.006010	.031356	-.012099	-.004958
11	-.015816	.032005	.013486	.023609	.017028	-.012141
12	-.013765	.043890	.031446	.013347	.041976	-.019820
13	-.005631	.057231	.043378	.003038	.062126	-.029076
14	.001527	.069428	.049029	.002567	.086551	-.036033
15	.011490	.073935	.050144	.006532	.104583	-.037794
16	.020531	.077339	.051694	.010846	.114028	-.041447
17	.029998	.078443	.050386	.015518	.124513	-.048090
18	.040923	.077270	.050279	.008723	.135296	-.047688
19	.045607	.082410	.050782	-.007107	.138835	-.041643
20	.046311	.083527	.053107	-.024242	.135109	-.035195
21	.042855	.082789	.058859	-.022979	.132972	-.032660
22	.039649	.084612	.057958	-.037744	.132441	-.031055
23	.030799	.082250	.056794	-.047355	.126794	-.024106
24	.024657	.074166	.055795	-.057876	.125133	-.014736
25	.017059	.068616	.057764	-.065549	.124767	-.007691
26	.004207	.064372	.065097	-.061044	.122726	-.008042
27	-.005777	.058855	.066494	-.053296	.118590	-.014236
28	-.005896	.052277	.060621	-.053761	.110009	-.016392
29	-.011687	.045833	.058742	-.044579	.099576	-.025106
30	-.013360	.039721	.049074	-.036627	.085975	-.026305
31	-.012387	.025562	.037448	-.033116	.069799	-.024215
32	-.006782	.012778	.025969	-.033405	.058413	-.021375
33	-.000020	.006963	.017056	-.027710	.044216	-.019896
34	.007010	.008304	.005563	-.029837	.025471	-.011606
35	.013278	.018475	-.000232	-.031832	.010926	.001350
36	.017542	.023340	-.002398	-.037263	-.000629	.007646
37	.015743	.024579	-.002021	-.033834	-.007950	.009901
38	.009137	.031355	-.000327	-.030810	-.011876	.014634
39	-.000470	.038615	.001585	-.022091	-.012797	.015789
40	-.011054	.047912	.008381	-.017275	-.016855	.010821
41	-.016484	.055513	.017029	-.009203	-.019884	.002862
42	-.014766	.053833	.021496	-.001064	-.014761	.000363
43	-.011310	.054194	.021609	.003056	-.007160	-.006129
44	-.010976	.050276	.022305	.002901	.002491	-.006889
45	-.014483	.039012	.023665	.012968	.016780	-.010856
46	-.011998	.024935	.020990	.022071	.023538	-.014436
47	-.011216	.013363	.022431	.036988	.026744	-.019639
48	-.011048	.001487	.028265	.049492	.027655	-.020854
49	-.014328	-.006019	.034429	.061215	.029882	-.023141
50	-.009750	-.011502	.037683	.067492	.027548	-.024975
51	-.005979	-.016911	.035881	.073559	.023020	-.027383
52	-.001409	-.016579	.033581	.070459	.024164	-.028655
53	.005405	-.013259	.030666	.061210	.034141	-.024330
54	.008152	-.014982	.029276	.045440	.038176	-.015842
55	.008042	-.016028	.026777	.031863	.038265	-.010651
56	.007600	-.019031	.026729	.022986	.035748	-.007334
57	.010143	-.020112	.025118	.018628	.029680	-.003904
58	.008431	-.012986	.024431	.019226	.019419	-.007795
59	.003691	-.010935	.025871	.016964	.010561	-.008764
60	-.007074	-.016631	.029834	.010664	.008766	-.005633

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12043	0.88699	0.11220	0.91495	0.11574	0.85246
	10E 01	1CE 00	10E 00	10E 00	10E 00	!0E-01
1	-.008736	-.022348	-.019008	-.023723	-.026110	-.014675
2	-.016791	-.026981	-.026040	-.030574	-.039828	-.023527
3	-.017987	-.028231	-.034490	-.032063	-.047936	-.027178
4	-.017008	-.034425	-.042947	-.026624	-.054359	-.026086
5	-.014252	-.037147	-.044970	-.015779	-.057037	-.023471
6	-.012337	-.036110	-.047017	-.009878	-.060523	-.029227
7	-.010641	-.032376	-.052720	-.012366	-.062708	-.033791
8	-.009680	-.034070	-.058440	-.011015	-.064478	-.023437
9	-.009270	-.040970	-.061457	-.006015	-.067377	-.014285
10	-.008735	-.042995	-.066718	.000665	-.064699	-.009182
11	-.006087	-.039586	-.068332	.001457	-.061939	-.010606
12	-.009501	-.032633	-.065151	-.005709	-.062445	-.015912
13	-.015060	-.027296	-.058858	-.007830	-.058554	-.021424
14	-.017355	-.021524	-.052506	-.005015	-.055377	-.022217
15	-.019697	-.021079	-.047646	-.001410	-.053633	-.020349
16	-.010401	-.021079	-.051112	.001723	-.047829	-.019755
17	.000356	-.021687	-.055203	.005087	-.043050	-.021126
18	.006387	-.016442	-.056076	.015940	-.038987	-.012885
19	.007845	-.011811	-.056417	.020403	-.033969	-.000862
20	.001237	-.014553	-.056302	.018702	-.034116	.008385
21	-.007717	-.015911	-.056321	.012046	-.036608	.020318
22	-.012228	-.014857	-.056091	.009949	-.034761	.034618
23	-.018010	-.011669	-.052599	.005242	-.034329	.041464
24	-.025840	-.001831	-.040109	-.010674	-.035488	.031974
25	-.036125	.007122	-.023559	-.026299	-.036806	.020942
26	-.042230	.005380	-.011838	-.034890	-.037182	.016354
27	-.041962	.005132	-.002902	-.035606	-.034925	.015685
28	-.037823	.003409	.007461	-.022056	-.025251	.016727
29	-.031186	.003149	.016461	-.008586	-.014320	.019908
30	-.022920	.001843	.021441	.002898	-.002968	.030434
31	-.014554	.002677	.023580	.014962	.005503	.046273
32	-.007556	.003079	.023734	.026118	.006891	.052873
33	-.006827	.005485	.022985	.026518	.004590	.048419
34	-.005152	.013015	.020347	.023443	.002601	.045857
35	-.003206	.017773	.020325	.021462	.007238	.042338
36	.001514	.018780	.021534	.012657	.015967	.033246
37	.007553	.012701	.018448	.010766	.020523	.019769
38	.013253	.007643	.016150	-.010956	.023418	.009943
39	.024465	.004479	.008591	.024542	.030625	.010012
40	.033274	.001973	.001345	.029436	.034829	.012562
41	.035827	.006259	-.000090	.031166	.039294	.014923
42	.032681	.008640	.004109	.024442	.041801	.013886
43	.029455	.013087	.008532	.014591	.045680	.007696
44	.028211	.023102	.013247	.011658	.045497	-.001849
45	.033538	.032725	.018376	.012952	.041904	-.011490
46	.031087	.029804	.023165	.006295	.043864	-.023948
47	.026660	.034138	.029198	-.001079	.049878	-.032110
48	.020951	.037223	.027783	-.004286	.052055	-.036073
49	.011520	.035292	.027121	-.001458	.048661	-.032190
50	.006281	.030970	.025664	.006844	.042067	-.028790
51	.005022	.026324	.020721	.013852	.029596	-.018961
52	.002737	.020949	.014012	.017079	.022551	-.004029
53	.001225	.013973	.011330	.010839	.023066	-.005101
54	-.004486	.009838	.013388	-.002602	.025439	-.012714
55	-.006265	.015308	.014773	-.005866	.023811	-.017250
56	-.010142	.014795	.014628	-.000650	.019168	-.017854
57	-.019073	.003024	.021656	-.007036	.011517	-.024581
58	-.030313	-.015246	.030412	-.02263	.005800	-.031336
59	-.027787	-.027497	.026371	-.030476	.002848	-.036159
60	-.017514	-.027990	.018500	-.027893	.006422	-.034625

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11075	0.12423	0.67387	0.10784
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.860168	.819099	.734149	.835990
2	.681546	.615571	.429383	.668835
3	.542061	.464107	.238988	.549361
4	.430189	.358799	.129345	.449545
5	.327657	.278372	.048523	.359716
6	.226866	.214871	.004399	.290304
7	.140246	.149635	-.024071	.233973
8	.076854	.089873	-.039740	.167621
9	.018002	.034390	-.055061	.107524
10	-.033648	-.009112	-.066694	.050785
11	-.072325	-.044692	-.077965	-.006754
12	-.101312	-.077130	-.098479	-.066205
13	-.124593	-.108149	-.125607	-.117692
14	-.147662	-.143004	-.147088	-.164820
15	-.165043	-.173622	-.151660	-.204774
16	-.177030	-.192310	-.150859	-.232748
17	-.189733	-.206192	-.141774	-.256153
18	-.205044	-.218741	-.130759	-.278033
19	-.213258	-.225931	-.126288	-.290499
20	-.217481	-.223495	-.125956	-.300209
21	-.218454	-.227090	-.120627	-.305273
22	-.215950	-.233404	-.114197	-.304329
23	-.208040	-.224979	-.104944	-.300725
24	-.195789	-.214338	-.099252	-.294604
25	-.189499	-.209311	-.102675	-.283015
26	-.178252	-.213322	-.108086	-.263744
27	-.165172	-.220362	-.095893	-.236532
28	-.145107	-.222630	-.089777	-.197254
29	-.121880	-.210323	-.079023	-.160148
30	-.101215	-.182998	-.059086	-.120960
31	-.069139	-.142543	-.036654	-.080300
32	-.034416	-.111434	-.016831	-.052224
33	-.011957	-.079733	.003355	-.022851
34	-.008332	-.052123	.018443	.005781
35	-.005433	-.026709	.014408	.034017
36	.005851	-.007860	.015277	.053693
37	.014802	.009234	.008510	.067265
38	.010120	.022167	.007754	.075454
39	-.004244	.028306	.013469	.075463
40	-.018676	.032709	.011426	.079078
41	-.035256	.041668	.012176	.077799
42	-.054950	.041708	.012311	.065386
43	-.070895	.042727	-.002452	.049418
44	-.078222	.031082	-.033518	.037814
45	-.075116	.018203	-.029468	.017049
46	-.071570	.011550	-.013149	.001867
47	-.070956	.010977	.000744	-.007642
48	-.070696	.011811	.027024	-.018948
49	-.072712	.011833	.043495	-.027179
50	-.071888	.014072	.052110	-.032693
51	-.062970	.013872	.052384	-.041860
52	-.052231	.007702	.048636	-.048948
53	-.041128	-.005009	.036481	-.059173
54	-.035708	-.012116	.027941	-.074367
55	-.030921	-.022448	.012868	-.087476
56	-.022080	-.025921	.008875	-.094734
57	-.014550	-.010655	.010343	-.102040
58	-.016143	-.003093	.001730	-.100403
59	-.018434	-.004338	-.008489	-.091665
60	-.010800	-.009282	-.014521	-.085487

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-01	10E-02
0	.002442	-.052842	-.088505	-.005899	-.010860	.029239
1	-.044250	-.488518	-.584190	.118951	-.091670	.200540
2	-.105803	-.548826	-.578394	.183099	-.108020	.217729
3	-.127173	-.565995	-.568629	.074840	-.112045	.250018
4	-.046506	-.463209	-.390413	-.064610	-.071295	.201330
5	.056812	-.306406	-.230732	-.065765	-.038613	.136863
6	.131790	-.218385	-.199039	-.045288	-.031551	.103422
7-8	.056269	-.199048	-.102423	-.012501	-.019512	.043893
9-11	.015048	-.122957	-.038426	-.050860	-.014793	.052476
12-15	.012269	-.080167	-.035096	.003781	-.009304	.016001
16-20	.005830	-.043788	-.015278	-.006818	-.006578	.000685
21-27	.004103	-.029462	-.008130	.005642	-.003851	-.002446
28-36	.004213	-.015085	-.005806	.002688	-.002674	.000984
37-47	.000291	-.007538	-.002643	.003461	-.001473	.001098
48-60	-.001097	-.004510	-.001466	.000847	-.001018	.000410

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	1UE-02	10E-02
1	-.126884	-.093139	-.324638	.103497	-.339932	.059414
2	-.092775	-.128162	-.327847	-.315342	-.344830	-.052695
3	.010605	-.109862	-.232590	-.216161	-.208711	-.126802
4	.005918	-.071448	-.060535	-.154362	-.100880	-.059282
5	-.080976	-.042381	.003571	-.633483	-.102397	-.011197
6	-.048154	-.027007	-.043586	-.664167	-.070960	-.0 5523
7-8	.014449	-.019392	-.037404	.010724	-.022483	-.0 1687
9-11	-.036374	-.003891	.011106	-.458398	-.023893	-.0 3897
12-15	-.000308	-.014541	-.018724	-.095581	-.011638	.005514
16-20	-.009541	-.003797	-.000268	-.138111	-.008810	-.005462
21-27	.002157	-.004640	-.002575	.001042	-.002894	-.003964
28-36	.000442	-.005188	-.003836	-.032689	-.003499	.002223
37-47	.001405	-.002138	-.003161	-.026245	-.001639	-.001805
48-60	.000280	.000037	-.000075	-.007067	.000229	.000053

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.022541	.014649	.027014	.020122
1	.164898	.150671	.370911	.152778
2	.179595	.195301	.561872	.190741
3	.192752	.202279	.702210	.211813
4	.142748	.124642	.588694	.126602
5	.082849	.075909	.439134	.051707
6	.066630	.068590	.389329	.041202
7-8	.052340	.045491	.325087	.033482
9-11	.027987	.034772	.273916	.022987
12-15	.015656	.021663	.201881	.016922
16-20	.010333	.016336	.122541	.010281
21-27	.007599	.009434	.085600	.006711
28-36	.004555	.006156	.055868	.005445
37-47	.002724	.004079	.031021	.003426
48-60	.001689	.002892	.020545	.002552

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13923 10E 01	0.70823 10E 00	0.15893 10E 00	0.65307 10E 00	0.14656 10E 00	0.74548 10E-01
0	-.139419	-.579990	-.212834	.085025	-.659047	.161389
1	-.145773	-.236809	-.092971	.108436	-.454063	.038706
2	-.090817	-.112820	-.016338	.049460	-.271132	-.023758
3	-.100219	-.042585	.034829	.028132	-.162715	-.045466
4	-.095114	.093617	.085439	.069428	-.072093	-.075722
5	-.062008	.070808	.114217	.106291	.010927	-.105573
6	-.016261	.064922	.091903	.016987	.035179	-.075732
7	.025385	.074165	.018026	.004972	.025306	-.026032
8	.100335	.095258	-.044427	-.069094	.029486	.010299
9	.122552	.140265	-.029472	-.068204	.081086	.006159
10	.136825	.136908	-.023212	-.061910	.117039	.015596
11	.089375	.061028	-.032184	-.055310	.172008	.040542
12	.104375	.056918	-.033743	-.062252	.247004	.022202
13	.102379	.078621	-.013319	-.066214	.268693	.013587
14	.101413	.036227	-.058509	-.076355	.232555	.065456
15	.112076	-.043829	-.092908	-.084572	.139143	.082470
16	.098864	-.059210	-.079740	-.102658	.056796	.084081
17	.070063	-.066272	-.049819	-.054895	.025007	.066188
18	-.007829	-.115028	-.025496	-.022205	.013186	.057039
19	-.077210	-.014800	.055533	.066726	.039704	-.028204
20	-.122975	.027148	.101501	.081012	.046536	-.066344
21	-.124196	.009533	.091820	.060869	.088127	-.048876
22	-.131901	-.035124	.070474	.069543	.098028	-.019405
23	-.084325	-.014702	.050494	.073279	.028866	-.010410
24	-.046546	-.026341	.043139	.034668	-.058043	.006822
25	-.066355	-.035107	.051563	.021447	-.107587	.006035
26	-.055548	-.015667	.027684	.017243	-.122120	.002435
27	.005131	.029387	.024005	.003145	-.122255	-.003751
28	.002741	.042459	.028269	-.043031	-.073298	.006622
29	.026553	.008219	.000603	-.076135	-.050996	.004267
30	.016871	.016294	-.034648	-.031465	-.018550	-.005497

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-01	10E-02
0	-.004205	-.019163	-.041979	.011537	-.015389	-.002915
1	-.352663	-.155985	-.078939	.156306	-.157405	-.105542
2	-.790451	-.308128	.131066	.254558	-.182380	-.120464
3	-.825157	-.521796	-.032916	.219585	-.156817	.005973
4	-.168687	-.470819	-.495628	.004877	-.080427	.184059
5	.024870	-.271338	-.479718	-.026943	-.042123	.167572
6	.001728	-.208296	-.392393	-.004426	-.061479	.125547
7	.178153	-.266934	-.541363	-.067639	-.086150	.186201
8	.110925	-.232241	-.415885	-.041144	-.048424	.140764
9-11	-.094176	-.180897	-.055190	.064589	-.017990	.032840
12-14	-.027975	-.046942	-.040385	.047663	-.015183	.024262
15-21	-.025263	-.115426	-.105887	-.023177	-.015502	.057081
22-30	.045802	-.123636	-.077182	-.016352	-.009261	.036247

RUN NC 101C   46M   7-4-63   1122-1238(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.13923	0.70823	0.15893	0.65307	0.14656	0.74548
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
1	-.027094	-.043656	-.057393	.006530	-.056774	.036405
2	-.011570	-.056533	-.087293	.058330	-.057154	.072820
3	-.005176	-.042177	-.075138	.066834	-.044144	.112785
4	.022745	-.060044	-.064865	.104802	-.001877	.07.282
5	.043658	-.040825	-.042126	.097891	.033700	.045132
6	.043421	-.082680	-.042509	.079340	.046817	.037267
7	.086633	-.059686	-.051946	.082787	.043639	.039781
8	.042217	-.072864	-.027434	.034073	.028702	-.000815
9	-.002044	-.023283	.002330	.029568	.005466	-.006022
10	-.011987	-.006318	-.003232	-.023749	-.016760	-.033382
11	.001110	-.005196	-.021360	-.044266	-.010949	-.045393
12	.017356	.003470	-.039007	-.016571	.009965	-.014502
13	-.002066	.043493	-.034637	-.013771	.025777	.020650
14	-.025563	.069814	.005752	-.052513	.029382	-.020548
15	.014863	.033093	-.009071	-.053788	.029920	-.053443
16	.008306	.056947	-.038389	-.074209	.014224	-.008808
17	-.049264	.020819	.004032	-.083513	-.030010	-.015942
18	-.050561	-.007708	-.001730	-.052607	-.068610	.004798
19	-.022448	-.020521	-.007418	-.009702	-.060511	.002872
20	.006739	.017821	.020855	-.007359	-.024176	-.002783
21	-.003141	.049209	.063825	.014214	-.009654	.000960
22	.026654	.008702	.054214	.020071	.042580	-.037183
23	.080010	.006566	-.001218	.023657	.102639	-.059297
24	.075860	-.012287	-.012225	.011949	.079461	-.039049
25	.032014	-.013339	-.002591	-.016935	.033811	-.025138
26	.043535	-.068901	.008906	.000711	.032425	-.064601
27	.005160	-.050540	.010665	.046696	.017438	-.012046
28	-.035631	-.029298	.013572	.009508	-.014553	.010768
29	-.043217	.000037	.008509	.005758	-.026555	.027029
30	-.019261	.011428	.008913	.035573	-.009086	.047473

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	.145958	-.076411	-.380085	.037319	.095346	.028024
2	.164361	-.157104	-.348712	.164505	.074453	.113481
3	.194005	-.205300	-.266870	.254771	.034013	.173206
4	.022512	-.108700	-.237776	.150795	-.123077	.188731
5	-.061034	-.002378	-.269977	.041151	-.092732	.136519
6	-.086519	.025325	-.176249	.023146	-.128092	.081028
7	-.197915	-.024597	-.110715	-.018923	-.344031	.056115
8	-.144158	-.033323	-.092325	-.054674	-.242796	.010413
9-11	-.002792	-.033432	-.096931	-.000451	-.056319	.031800
12-14	-.029333	-.013171	-.011638	-.023161	-.029623	-.038705
15-21	-.002042	-.006862	-.013136	.000748	-.013478	-.005960
22-3C	-.022341	.014779	.020590	-.019485	-.015617	.011877

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RUN NC 101C 46M 7-4-63 1122-1238(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.15099	0.12839	0.33219	0.16729
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.534965	.569997	.111745	.687603
2	.270933	.265310	.023699	.400681
3	.120712	.128475	.036717	.282037
4	-.075313	.057485	-.111670	.164225
5	-.188579	-.021791	-.037584	.009273
6	-.196250	-.066268	-.074366	-.070470
7	-.166122	-.058112	-.046919	-.028936
8	-.168998	-.071226	-.092811	-.026068
9	-.177402	-.122582	-.140553	-.100094
10	-.170677	-.154538	-.161362	-.147431
11	-.139828	-.259822	.016008	-.157762
12	-.126039	-.341629	-.081838	-.213552
13	-.142280	-.336743	-.074840	-.284727
14	-.101139	-.264421	-.048195	-.243174
15	.004920	-.154374	.032361	-.132932
16	.041900	-.079999	.083039	-.064866
17	.058915	.002767	.076028	-.043493
18	.022894	.014893	.198486	-.007392
19	-.006467	-.002576	.309916	-.029064
20	-.046624	-.020664	-.039756	-.085011
21	-.024453	-.071554	-.057101	-.110483
22	.009601	-.063192	.034360	-.065389
23	.010820	.013137	-.023186	-.005058
24	.001535	.133109	.032357	.010516
25	.024160	.205146	.020582	.015307
26	.043156	.206342	-.050671	.084794
27	.038669	.177464	-.027923	.068233
28	.040747	.086991	-.035562	.003538
29	.083439	.035978	.048515	.005729
30	.073837	-.048164	-.104586	.036011

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.007977	.010973	.012620	.055386
1	.098779	.142552	.085005	.309717
2	.151728	.193714	.141562	.283537
3	.205701	.184297	.240408	.247735
4	.186919	.096991	.224175	.152249
5	.133258	.052204	.132488	.095899
6	.107718	.074671	.119334	.103668
7	.106887	.106544	.156392	.116123
8	.079280	.069860	.133822	.067272
9-11	.041549	.036731	.142929	.030307
12-14	.022682	.038088	.083713	.023107
15-21	.037305	.026412	.142868	.032202
22-30	.028417	.019991	.176604	.013781

RUN NC 101C   15M   7-4-63   1122-1238(EST)
RUN NC 101C   46M   7-4-63   1122-1238(EST)
  61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.597897	.437598	.488596	.279606
1	.488599	.698493	.400397	.382718
2	.349492	.614581	.392840	.289813
3	.273294	.540906	.437082	.115391
4	.213524	.463457	.444394	.067944
5	.095732	.379350	.351259	.055553
6	.194672	.350818	.328287	.074642
7-8	.127804	.324699	.304737	.076638
9-11	.141490	.142328	.221648	.113248
12-15	.173802	.159842	.149499	.098538
16-20	.113759	.095394	168384	.155023
21-27	.092642	.086502	.091750	.101926
28-36	.124371	.118926	.092424	.139137
37-47	.099763	.085826	.092865	.079774
48-60	.111099	.104188	.135957	.095433

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.562683	.855488	.661169	.631206
1	.808667	.803529	.568014	.463500
2	.835183	.811736	.500257	.271538
3	.839367	.802345	.612250	.171097
4	.797032	.808899	.624020	.086517
5	.664598	.780071	.373235	.278003
6	.573718	.735875	.385338	.446116
7	.612435	.823783	.606255	.501501
8	.549633	.832761	.486780	.409779
9-11	.365937	.623123	.396306	.517716
12-14	.193829	.571510	.355977	.274150
15-21	.272560	.501577	.540797	.192859
22-30	.307655	.352993	.212635	.253942

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RUN NO 102A   46M   7-4-63   1307-1423(EST)

GROSS STATISTICS

7 SC
UNSTABLE

WIND SPEED   8.11 M/SEC   SIGMA A 14.6 DEG
WIND DIRECTION 305 DEG   SIGMA E 7.6 DEG
SOLAR RAD.   0.76 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.40323E 01	0.28916E 01	0.15251E 01	0.22542E 01
V	0.42096E 01	0.22477E 01	0.13875E 01	0.15403E 01
W	0.86789E 00	0.85290E 00	0.72417E 00	0.42277E-00
T	0.29070E-00	0.41567E-01	0.17595E-01	0.33530E-01
E	0.45549E 01	0.29973E 01	0.18189E 01	
GUSTINESS RATIOS				
U	0.24760	0.20968	0.15233	0.18513
V	0.25299	0.18486	0.14524	0.15303
W	0.11487	0.11387	0.10493	0.08017
COVARIANCES				
U,V	-0.53052E-01	-0.37552E-00	-0.13286E-01	-0.35775E-00
U,W	-0.83643E 00	-0.75949E 00	-0.46827E-00	-0.54814E 00
U,T	-0.30269E-00	-0.11904E-00	-0.55303E-01	-0.10408E-00
V,W	-0.27260E-01	0.11017E-00	0.14239E-01	0.86587E-01
V,T	-0.39167E-00	-0.11394E-00	-0.74092E-01	-0.81708E-01
W,T	0.72073E-01	0.41798E-01	0.23085E-01	0.34521E-01
WE	0.34874E-00	0.57590E 00	0.20670E-00	
NORMALIZED COVARIANCES				
U,V	-0.01288	-0.14730	-0.00913	-0.19200
U,W	-0.44712	-0.48362	-0.44543	-0.56149
U,T	-0.27958	-0.34336	-0.33749	-0.37857
V,W	-0.01426	0.07957	0.01420	0.10730
V,T	-0.35406	-0.37278	-0.47420	-0.35954
W,T	0.14349	0.22199	0.20451	0.28995

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14553	0.10512	0.16385	0.10025	0.15626	0.11287
	1OE 01	1OE 01	1OE 00	1OE 01	1OE 00	1OE 00
0	-.008879	-.445412	-.337496	.014113	-.474136	.204518
1	-.010786	-.400775	-.316890	.005896	-.397917	.186078
2	-.010601	-.327923	-.281643	-.001532	-.299295	.157951
3	-.006900	-.259651	-.244343	-.000334	-.228256	.127723
4	-.009891	-.203194	-.205560	.003873	-.173226	.098533
5	-.011040	-.160119	-.172825	.009652	-.136227	.064154
6	-.008994	-.118735	-.143551	.010858	-.106470	.041170
7	-.010143	-.075745	-.112966	.000451	-.079498	.025339
8	-.009058	-.040804	-.083196	-.010838	-.059130	.013907
9	-.004719	-.014846	-.055317	-.009075	-.041490	.005034
10	-.002286	.005486	-.028446	-.002922	-.027769	-.003191
11	-.002542	.027639	-.002876	-.003753	-.009988	-.008259
12	-.005183	.052326	.022849	-.006910	.016420	-.014898
13	-.010623	.077433	.047122	-.009565	.042477	-.018065
14	-.019260	.095311	.065742	-.007202	.061996	-.016354
15	-.026659	.103621	.080669	.004252	.076691	-.015254
16	-.027752	.104675	.097967	.014098	.090851	-.023959
17	-.024229	.102374	.110894	.017097	.107612	-.031269
18	-.018444	.104051	.123207	.020253	.122229	-.037729
19	-.011563	.107471	.134433	.020084	.133584	-.043833
20	-.004278	.105894	.135412	.016651	.141071	-.047160
21	-.000920	.100174	.128762	.016209	.140248	-.045984
22	-.001989	.095509	.127044	.018680	.138755	-.045991
23	-.005772	.092779	.127789	.018114	.135506	-.047404
24	-.008570	.095323	.126679	.015921	.133794	-.046444
25	-.005989	.097686	.124577	.016327	.132109	-.045588
26	.002108	.104544	.120903	.021471	.126993	-.052321
27	.003942	.104102	.121222	.023410	.119254	-.055069
28	.002643	.098691	.120168	.019272	.108681	-.057327
29	-.001740	.091115	.116156	.008995	.096843	-.056237
30	-.006241	.083449	.109243	.011753	.081056	-.059467
31	-.009387	.079680	.098762	.020162	.058734	-.064767
32	-.014084	.078663	.086967	.019124	.039289	-.064474
33	-.013138	.076210	.070097	.012118	.025937	-.058832
34	-.012601	.064361	.052398	.002949	.019750	-.046315
35	-.004492	.053324	.032417	-.003895	.014542	-.032529
36	.008638	.044329	.013791	-.004849	.010921	-.025318
37	.020452	.031849	.000392	-.013221	.012507	-.016066
38	.032264	.022948	-.014895	-.022331	.011705	.002960
39	.039928	.013006	-.030662	-.027282	.009773	.021373
40	.041128	.001450	-.042041	-.026069	.004200	.024329
41	.041569	-.016133	-.050551	-.022631	-.000374	.021092
42	.041214	-.034361	-.059913	-.024648	-.007295	.015995
43	.042622	-.048577	-.073428	-.041756	-.015931	.021384
44	.044158	-.054183	-.082797	-.099455	-.022883	.021058
45	.041316	-.058529	-.088527	-.047380	-.023392	.018289
46	.037016	-.068898	-.091309	-.051649	-.032505	.021813
47	.031919	-.075019	-.087511	-.050590	-.045230	.024647
48	.024193	-.074783	-.080198	-.049675	-.052665	.028425
49	.021279	-.080412	-.073794	-.051843	-.051817	.036169
50	.019631	-.083412	-.066603	-.046338	-.044834	.038553
51	.017276	-.084007	-.059940	-.038384	-.043014	.034851
52	.015210	-.083112	-.055212	-.030085	-.039218	.038620
53	.004438	-.080218	-.042150	-.023949	-.036319	.035798
54	-.010178	-.064914	-.027639	-.016437	-.034394	.030731
55	-.025547	-.047575	-.012683	-.012565	-.029377	.031120
56	-.035388	-.029969	.000792	-.011021	-.021742	.027913
57	-.036486	-.011133	.013992	-.004513	-.018492	.017091
58	-.031923	.006513	.022005	.005115	-.011917	.003177
59	-.027238	.022078	.029871	.018808	-.003191	-.011562
60	-.023843	.031252	.041477	.033518	.012079	-.023295

RUN NC 102A .46M 7-4-63 1307-1423(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14553	0.10512	0.16385	0.10025	0.15626	0.11287
	10E 01	10E 01	10E 00	10E 01	10E 00	10E 00
1	-.003255	-.019273	-.016357	-.013922	-.024421	.001251
2	-.003749	-.032368	-.032333	-.024524	-.036800	.005807
3	-.004063	-.038087	-.043163	-.030314	-.041692	.008654
4	.003015	-.043629	-.057933	-.032871	-.040794	.009931
5	.008467	-.050619	-.073030	-.036891	-.042177	.010020
6	.012298	-.052696	-.079692	-.035897	-.040142	.016088
7	.018308	-.050820	-.078600	-.024431	-.041826	.023571
8	.023608	-.046690	-.074361	-.022599	-.048007	.024798
9	.021890	-.040513	-.066369	-.025900	-.053447	.026589
10	.016158	-.036441	-.061661	-.025244	-.057290	.026659
11	.009686	-.032799	-.060976	-.035642	-.059891	.020266
12	.002981	-.025900	-.057910	-.044342	-.060523	.012936
13	.000873	-.018252	-.055604	-.042970	-.063231	.006335
14	.005459	-.012277	-.052838	-.035643	-.066200	.006466
15	.008218	-.013220	-.046626	-.022625	-.066179	.015955
16	.009753	-.016366	-.041466	-.009080	-.060469	.023545
17	.008597	-.020265	-.040418	.001853	-.055786	.028642
18	.001550	-.024535	-.040383	-.001918	-.050937	.028053
19	-.011796	-.026841	-.034121	-.016847	-.043419	.023645
20	-.031669	-.025256	-.015789	-.027381	-.040214	.012594
21	-.044952	-.025596	-.002139	-.036515	-.036982	.005013
22	-.052717	-.022399	.006370	-.035802	-.032717	.003545
23	-.057666	-.017096	.015174	-.029556	-.035100	.007917
24	-.058892	-.012431	.023391	-.025289	-.035907	.008439
25	-.055847	-.009108	.030169	-.017751	-.029736	.004014
26	-.049304	-.005865	.032946	-.011194	-.020040	-.002895
27	-.040728	.001850	.035976	-.005888	-.004960	-.007126
28	-.034071	.013228	.037365	-.006412	.004420	-.007727
29	-.027439	.022451	.037470	-.008678	.007910	-.009703
30	-.017950	.027300	.035457	-.000969	.011930	-.009422
31	-.008399	.028771	.036984	.008637	.013568	-.012245
32	-.002549	.028868	.037584	.014647	.016094	-.012755
33	.004861	.031744	.033050	.020330	.018907	-.010198
34	.011058	.032605	.022214	.024489	.022292	-.009167
35	.015809	.031141	.011954	.023164	.027038	-.013992
36	.021634	.028057	.004413	.020775	.028787	-.016107
37	.028305	.025124	-.005188	.022335	.030082	-.011389
38	.036280	.026329	-.014263	.028353	.035267	-.009417
39	.037305	.020616	-.015535	.028156	.038413	-.013488
40	.036744	.016212	-.017525	.020127	.044194	-.011948
41	.032905	.019794	-.019047	.015984	.046914	-.002561
42	.028090	.021832	-.021845	.017304	.049877	.002608
43	.020997	.024927	-.022029	.023065	.053591	.010464
44	.018860	.029823	-.018875	.020446	.053683	.012132
45	.015312	.031765	-.012102	.018688	.052690	.011423
46	.013251	.033484	-.006546	.018025	.051376	.016860
47	.011532	.030470	-.002449	.014064	.047346	.018505
48	.011192	.019664	-.004336	.013173	.041630	.016748
49	.018684	.007502	-.010428	.017885	.034755	.020216
50	.027022	.005782	-.012068	.020138	.026305	.022658
51	.029200	.005361	-.011082	.009876	.020668	.013654
52	.026868	.002839	-.010536	-.001628	.008188	.002136
53	.025692	-.001925	-.012193	.001008	.001916	-.002236
54	.020912	-.004177	-.010150	.004638	-.000886	-.004012
55	.012350	-.012351	-.007134	.005508	-.007919	-.003733
56	.004657	-.011639	-.001683	.005674	-.011678	-.002341
57	-.007616	-.009375	.003935	.005929	-.018288	.004816
58	-.026326	-.009061	.010567	.003225	-.026497	.010475
59	-.039102	-.006891	.018084	-.002756	-.030662	.010180
60	-.045733	-.009161	.020880	-.010945	-.035135	.003845

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RUN NO 102A   46M   7-4-63   1307-1423(EST)
61 PCINT RUNNING MEAN, NU BLOCK AVERAGING

NORMALIZED AUTCCOVARIANCE

M	U	V	W	T
	0.15259	0.13879	0.72416	0.17593
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.886884	.808559	.742354	.833208
2	.740259	.583837	.463620	.041801
3	.613670	.419191	.295130	.499271
4	.505372	.301572	.193019	.386227
5	.413321	.230325	.109225	.304715
6	.327433	.177293	.043539	.234680
7	.246529	.134497	-.001656	.172937
8	.173286	.100796	-.034327	.131954
9	.104745	.070079	-.066294	.094852
10	.036300	.040484	-.093623	.058454
11	-.024719	.005937	-.109954	.018772
12	-.080692	-.038278	-.117093	-.025805
13	-.137702	-.073347	-.129700	-.073442
14	-.185119	-.099947	-.149089	-.108514
15	-.220432	-.114779	-.151318	-.139818
16	-.248394	-.135536	-.144374	-.169008
17	-.269265	-.162493	-.139202	-.190220
18	-.285524	-.185743	-.134375	-.215743
19	-.301080	-.204426	-.127084	-.235022
20	-.307796	-.219483	-.122951	-.239973
21	-.310014	-.226432	-.101813	-.233503
22	-.314254	-.230125	-.088793	-.224786
23	-.323753	-.237621	-.094834	-.224379
24	-.327475	-.246522	-.113927	-.228361
25	-.325385	-.247910	-.130614	-.235728
26	-.323936	-.244540	-.147196	-.239125
27	-.313897	-.237257	-.154088	-.237023
28	-.290984	-.220965	-.149421	-.222538
29	-.258551	-.203010	-.131768	-.201552
30	-.221142	-.179295	-.107651	-.179192
31	-.182749	-.142072	-.073601	-.151289
32	-.150963	-.104248	-.053431	-.127316
33	-.125751	-.076552	-.042552	-.101995
34	-.100716	-.055946	-.032027	-.069372
35	-.074077	-.037445	-.023014	-.044269
36	-.044186	-.024022	-.013967	-.029741
37	-.015675	-.023977	.005908	-.015726
38	.015084	-.026851	.022566	-.002750
39	.042309	-.022782	.031021	.009514
40	.069398	-.022553	.030292	.0167. 1
41	.094080	-.020495	.034570	.026291
42	.116874	-.012545	.040476	.036616
43	.134957	.003677	.045083	.048836
44	.145899	.014265	.039630	.058443
45	.151804	.011160	.046696	.064760
46	.155871	.010766	.068321	.072711
47	.155852	.016289	.075395	.074750
48	.151698	.022580	.073544	.067683
49	.148612	.025987	.074258	.054115
50	.143950	.026834	.071162	.044861
51	.133854	.032264	.067694	.036243
52	.113807	.037854	.072781	.030148
53	.089333	.045589	.073616	.031437
54	.061180	.053177	.064131	.033342
55	.032287	.056462	.050765	.030474
56	.003795	.063744	.039704	.019120
57	-.022450	.067933	.028960	.004075
58	-.040654	.065384	.008721	-.008472
59	-.056888	.058548	-.006843	-.027453
60	-.068763	.038120	-.020053	-.047958

RUN NC 102A 46M 7-4-63 1307-1423(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	-.037993	-.066770	-.009671	.177119	-.008632	.040439
1	-.176583	-.638730	-.095671	.647897	-.095562	.358462
2	-.030001	-.855879	-.136978	-.358378	-.128845	.445656
3	.055759	-.846712	-.135495	-.517619	-.129788	.390372
4	-.002900	-.539147	-.063794	.361829	-.073412	.199078
5	.013940	-.419229	-.034522	.356216	-.035587	.182375
6	.010389	-.301215	-.025768	.205530	-.026849	.187314
7-8	-.048494	-.159765	-.010240	.113637	-.028837	.109366
9-11	.015301	-.110326	-.009699	-.161051	-.022849	.072944
12-15	.001479	-.067141	-.004418	.020445	-.014377	.026477
16-20	-.002085	-.034158	-.002313	.018803	-.007876	.006593
21-27	.000013	-.024977	-.001214	.128512	-.005955	.005514
28-36	.000891	-.007658	-.000542	-.004435	-.003108	.006901
37-47	.004156	-.006314	-.000564	.031383	-.002242	.001471
48-60	-.000864	-.003206	-.000174	.005351	-.001002	.002533

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-03
1	-.122797	-.086508	-.236369	-.127071	-.371141	.790466
2	-.066558	-.178123	-.345390	-.157141	-.465242	.954384
3	.137523	-.159810	-.482597	-.102767	-.298881	.958526
4	.192515	-.065298	-.317090	-.028078	-.067663	.219698
5	.008254	-.056978	-.068271	-.042614	-.032891	-.062676
6	-.095252	-.087253	-.040549	-.057506	-.017931	.140062
7-8	-.006859	-.062699	-.079977	-.011923	-.027150	.126888
9-11	-.009493	-.001467	-.016466	-.013467	-.042487	-.124937
12-15	-.024379	-.007013	.012947	-.019644	-.023197	-.042318
16-20	.004150	-.001095	.010349	.006278	-.018125	.040904
21-27	-.002961	-.005607	-.007940	-.003237	-.004206	.013574
28-36	.003370	-.001437	-.002864	-.001035	-.003843	-.039990
37-47	-.001834	.001064	.003288	.000348	.000501	.002030
48-60	-.001646	-.000187	.001100	.000690	-.002236	-.003643

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.022601	.016853	.037087	.034571
1	.226518	.175550	.460964	.256532
2	.315534	.216513	.709309	.299957
3	.319253	.206339	.818249	.290280
4	.169954	.117696	.617418	.164209
5	.095608	.066249	.527402	.095920
6	.075978	.064463	.499341	.082133
7-8	.046793	.059402	.342736	.062093
9-11	.028861	.043851	.255669	.052526
12-15	.019381	.031501	.172661	.030564
16-20	.011511	.018187	.124382	.017808
21-27	.007128	.012303	.087052	.013375
28-36	.004188	.006662	.059595	.007598
37-47	.002981	.005116	.034895	.005817
48-60	.001941	.003053	.023084	.003501

RUN NC 102A 46M 7-4-63 1307-1423(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
0	-.191971	-.561499	-.378495	.107331	-.359567	.290006
1	-.186461	-.310164	-.257080	.102230	-.224260	.163757
2	-.162545	-.136669	-.151030	.087169	-.114702	.103241
3	-.115601	-.042094	-.094883	.044853	-.079123	.038778
4	-.067184	.005156	-.078860	.002531	-.065347	.027346
5	-.032029	.007520	-.052536	-.032978	-.035915	.005701
6	-.015091	.122090	.023169	-.000502	-.011490	-.036653
7	.030521	.148655	.044403	.007482	-.008115	-.056683
8	.067568	.136807	.060724	-.038658	-.013196	-.057096
9	.079621	.060193	.065199	-.084396	.009122	-.023479
10	.059589	.034947	.080088	-.086913	.024362	-.023439
11	.095067	.032148	.075372	-.068733	.026828	-.040631
12	.110928	.037789	.089630	-.056177	.029529	.056614
13	.135976	.086152	.112770	-.057417	.039751	-.081061
14	.161800	.065127	.108126	-.066543	.045324	-.091750
15	.154735	.060202	.116889	-.051826	.042528	-.102489
16	.110234	.062748	.110785	.007307	.051618	-.094258
17	.081578	.056661	.088470	.033590	.061016	-.095720
18	.060218	-.002720	.050130	.033367	.063492	-.019297
19	.023584	-.037930	.029056	.050710	.070918	-.011690
20	-.014378	-.057032	.006895	.051223	.067341	.054431
21	-.063824	.015119	.024522	.058325	.087577	.043524
22	-.102685	.052762	.023600	.083278	.081453	.020138
23	-.108446	-.006460	.036880	.055978	.066203	.027540
24	-.105717	-.029536	.044317	-.006481	.065968	.059246
25	-.096061	.008100	.039861	-.038398	.035197	.073635
26	-.085815	.012133	.051552	-.050913	.003922	.051729
27	-.082871	.052464	.065179	-.019487	-.004737	-.006088
28	-.064157	.040130	.040254	-.035989	-.044166	.015150
29	-.050136	.054115	.014841	-.002872	-.084999	.007476
30	-.020926	.049043	-.018001	.010084	-.135109	-.028587

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.002819	-.040845	-.014106	-.000249	-.032529	.019391
1	-.085178	-.445667	-.189760	.079537	-.179558	.398207
2	-.133032	-.589953	-.206427	.224473	-.124509	.577238
3	-.104087	-.697423	-.166078	.314397	-.076764	.490423
4	-.022203	-.601241	-.087870	.129098	-.061005	.228339
5	-.020738	-.530046	-.061532	.014845	-.050663	.286311
6	-.025196	-.466762	-.061045	.056153	- .040802	.317627
7	-.007231	-.270161	-.034165	.057941	-.040022	.149516
8	.002565	-.098486	-.018074	.060298	-.033721	.042676
9-11	-.004335	-.179351	-.030687	.039482	-.025593	.091716
12-14	.003375	-.229569	-.033002	-.066558	-.023513	.124933
15-21	.001404	-.086035	-.012462	.007516	-.016271	.042792
22-3C	.000026	-.100875	-.011617	-.000277	-.009307	.075333

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18636	0.97621	0.27498	0.80673	0.22724	0.11904
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
1	.008813	-.014967	-.070450	-.051975	-.056688	.026476
2	-.005477	-.007822	-.089254	-.046389	-.065906	.026428
3	.011308	.031907	-.100293	-.033023	-.049515	.027803
4	.037005	.035127	-.138036	-.026779	-.031922	.016494
5	.065719	.026290	-.146291	-.011001	-.031128	.023327
6	.050093	-.015313	-.142354	-.031509	-.051506	-.008858
7	.046793	-.021643	-.133949	-.064975	-.031398	-.010940
8	.097378	.001455	-.128474	-.011799	-.000502	-.016668
9	.108072	.017777	-.107493	.038990	.013153	.017809
10	.076866	.022889	-.091771	.009013	.046581	.028705
11	.042766	.017499	-.082338	.019960	.057321	.044889
12	.027111	.051666	-.076515	-.012785	.073224	.041098
13	.010649	.000019	-.068526	-.013188	.074030	.036030
14	-.015373	-.024114	-.020540	-.021093	.054698	-.015582
15	-.045609	-.046308	.005513	-.046772	.025024	-.033629
16	.001675	-.000793	-.002465	.007371	.016205	.004518
17	-.013952	-.004005	.006460	.000689	-.008658	-.034113
18	-.024484	-.020025	.013665	.049688	-.018967	-.033164
19	-.018734	-.028828	.049429	.066773	-.035214	-.048509
20	-.025372	-.022203	.026472	.050588	-.043941	-.029866
21	-.011133	-.052607	-.031818	.042017	-.050471	-.010345
22	-.030208	-.063597	-.044894	.027677	-.070713	.004232
23	-.057271	-.027390	-.026478	-.029297	-.078763	.010179
24	-.081752	.002941	.028978	-.059784	-.058208	-.005335
25	-.059684	.037303	.031412	-.018899	-.040392	.026535
26	-.051574	.050066	.058739	-.034159	-.037806	.030751
27	-.037068	.069742	.090822	-.008057	-.013875	.036891
28	.002194	.033077	.104837	.001817	.032002	.016144
29	.012888	.016113	.093165	-.026870	.054411	.013415
30	.051666	.061341	.083913	-.003026	.061083	.029241

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-01	10E-01	10E-02	10E-02
1	.529310	.092638	-.202330	-.050512	.122880	.068038
2	.570716	.762164	-.167442	-.092633	-.003321	.108305
3	.309137	.418492	-.118512	-.085202	-.549838	.055565
4	-.056432	-.248649	-.047039	-.057376	-.615632	-.045121
5	-.234138	.210823	-.016105	-.109914	-.181734	.044529
6	-.160689	.482200	-.022101	-.054689	.000337	.149964
7	.023333	.713182	-.006749	.045818	-.022253	.118268
8	.045955	.198678	.001290	-.002049	-.133050	.039142
9-11	-.053569	-.734058	-.005801	-.070963	-.153420	-.020598
12-14	-.023984	-.560290	-.004756	-.025394	-.114422	.018359
15-21	.042241	.047456	-.008788	-.017814	-.001083	.013378
22-30	.024307	.096080	.001547	.005825	-.011443	.016354

RUN NC 102A 46M 7-4-63 1307-1423(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.22551	0.15400	0.42259	0.33530
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.647545	.614669	.253680	.747453
2	.347925	.338837	.082470	.515333
3	.197908	.192640	-.027669	.342803
4	.147938	.132011	-.027730	.202598
5	.086621	.029500	-.014145	.062088
6	-.076461	-.017256	-.173036	-.075454
7	-.121678	-.107229	-.159378	-.157253
8	-.151369	-.146924	-.154442	-.199091
9	-.142176	-.227405	-.074929	-.239069
10	-.165393	-.232048	-.073166	-.256008
11	-.157700	-.256855	-.103405	-.254683
12	-.180644	-.226797	-.082397	-.271445
13	-.237140	-.224033	-.125160	-.263643
14	-.220100	-.201322	-.081407	-.230480
15	-.195024	-.175877	-.041526	-.197175
16	-.188166	-.151651	.017178	-.128041
17	-.180492	-.181477	-.053562	-.070736
18	-.118715	-.139205	.007542	-.022394
19	-.046744	-.072961	.066619	-.002986
20	-.019415	.048462	.086974	.017988
21	-.080682	.095475	.038844	-.008281
22	-.094265	.156274	.079084	-.023076
23	-.052504	.165805	.107973	-.046591
24	-.029477	.092659	.048963	-.064006
25	-.033550	.077810	.040026	-.062221
26	-.028704	.119466	.028381	-.075519
27	-.018228	.098519	.012955	-.090131
28	-.036253	.097138	-.013947	-.047271
29	-.021558	.081296	-.041298	.015221
30	.011416	.058710	-.067189	.100564

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.038621	.022199	.004975	.081471
1	.361409	.204415	.128309	.612085
2	.379937	.261103	.277539	.664112
3	.324713	.244129	.386811	.652287
4	.204980	.132569	.308022	.401653
5	.152474	.095105	.259727	.212946
6	.135148	.071943	.244342	.175469
7	.094303	.052983	.196239	.130290
8	.059186	.067674	.150449	.074095
9-11	.070651	.053771	.148744	.063270
12-14	.072627	.038437	.197253	.056783
15-21	.032484	.027882	.123343	.034017
22-3C	.026948	.020976	.179933	.028505

RUN NO 102A 91M 7-4-63 1307-1423(EST)

GROSS STATISTICS

7 SC	WIND SPEED	9.51 M/SEC	SIGMA A 11.5 DEG
UNSTABLE	WIND DIRECTION	301 DEG	SIGMA E 6.6 DEG
	SOLAR RAD.	0.76 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.37020E 01	0.20009E 01	0.86058E 00	0.16411E 01
V	0.35446E 01	0.19907E 01	0.95700E 00	0.15696E 01
W	0.89661E 00	0.82107E 00	0.64415E 00	0.47305E-00
T	0.34173E-00	0.70557E-01	0.25014E-01	0.60026E-01
E	0.40716E 01	0.24069E 01	0.12309E 01	
GUSTINESS RATIOS				
U	0.20232	0.14874	0.09755	0.13471
V	0.19797	0.14836	0.10287	0.13174
W	0.09957	0.09528	0.08439	0.07232
COVARIANCES				
U,V	0.32910E-00	-0.11061E-00	0.82424E-01	-0.14529E-00
U,W	-0.70715E 00	-0.46793E-00	-0.16948E-00	-0.41317E-00
U,T	-0.41262E-00	-0.10918E-00	-0.28796E-01	-0.10371E-00
V,W	-0.45576E-01	0.12640E-00	0.32516E-01	0.12072E-00
V,T	-0.54828E 00	-0.17695E-00	-0.86834E-01	-0.14248E-00
W,T	0.10576E-00	0.21750E-01	0.56475E-03	0.25281E-01
WE	0.75968E 00	0.47132E-00	0.88890E-01	
NORMALIZED COVARIANCES				
U,V	0.09085	-0.05542	0.09082	-0.09053
U,W	-0.38814	-0.36507	-0.22763	-0.46893
U,T	-0.36685	-0.29057	-0.19627	-0.33044
V,W	-0.02557	0.09886	0.04141	0.14010
V,T	-0.49817	-0.47216	-0.56123	-0.46417
W,T	0.19107	0.09036	0.00445	0.15004

RUN NC 102A 91M 7-4-63 1307-1423(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.90780	0.74491	0.14675	0.78532	0.15471	0.12695
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.090849	-.227464	-.196341	.041515	-.561137	.004429
1	.086312	-.214385	-.191091	.034927	-.494309	.007124
2	.072151	-.188292	-.175756	.027376	-.404577	.010239
3	.057710	-.157051	-.161450	.028415	-.335777	.012751
4	.047307	-.127085	-.146066	.032498	-.278431	.013746
5	.043397	-.106604	-.130374	.039779	-.228108	.007113
6	.045287	-.089434	-.116220	.039298	-.187653	.002821
7	.040746	-.072613	-.104238	.033145	-.151793	.010125
8	.034233	-.061857	-.092696	.018073	-.113170	.018133
9	.027948	-.057064	-.079755	.010069	-.074653	.021142
10	.023211	-.049519	-.064842	.011003	-.038805	.015872
11	.020263	-.037324	-.050455	.017515	-.008352	.005794
12	.010594	-.021954	-.028667	.023099	.020616	-.005216
13	-.000686	-.010736	-.005417	.024273	.045823	-.013484
14	-.007718	-.001048	.011864	.024142	.067623	-.014627
15	-.014548	.010651	.024939	.017488	.082540	-.012351
16	-.020662	.024752	.032704	.008176	.096939	-.012451
17	-.030993	.037132	.044514	-.001437	.113295	-.013805
18	-.041880	.038811	.059299	-.010104	.127562	-.012419
19	-.047852	.035909	.073063	-.009530	.139227	-.014567
20	-.053363	.036074	.086565	-.004754	.146199	-.017212
21	-.055460	.037565	.094344	-.005859	.150759	-.017957
22	-.049414	.044767	.099408	-.007922	.155726	-.021695
23	-.046104	.052913	.105708	-.009915	.157852	-.023807
24	-.043727	.066944	.104669	-.020016	.157641	-.019419
25	-.036262	.078655	.099147	-.028910	.153592	-.016358
26	-.031313	.085324	.095304	-.030300	.143574	-.020073
27	-.033929	.083614	.092768	-.033600	.132857	-.017099
28	-.035691	.080082	.085945	-.033157	.120940	-.012454
29	-.029950	.076397	.073400	-.035362	.106481	-.003289
30	-.024613	.071830	.061885	-.037815	.089828	.008214
31	-.022051	.068052	.053626	-.041779	.071381	.021303
32	-.020169	.063548	.047337	-.053461	.060994	.034505
33	-.019532	.054243	.039362	-.066482	.059562	.042878
34	-.017353	.048072	.029709	-.072608	.061700	.043153
35	-.016733	.039669	.023918	-.065059	.055466	.036622
36	-.014651	.028614	.019766	-.053821	.044801	.029515
37	-.015484	.019059	.017454	-.043051	.040805	.026824
38	-.013915	.010279	.017183	-.032555	.044888	.029365
39	-.014843	.004344	.020263	-.025438	.049275	.035214
40	-.015571	.003518	.023450	-.025158	.055548	.041243
41	-.019813	.000163	.027017	-.025374	.061244	.041374
42	-.023542	-.003188	.028152	-.016732	.059864	.036456
43	-.022288	-.001225	.023898	-.005076	.057254	.030189
44	-.023276	.003086	.019215	.001086	.051059	.024994
45	-.021648	.005251	.013975	.002879	.045633	.023225
46	-.015624	.004190	.005415	.007841	.035421	.023538
47	-.014249	-.000927	-.001650	.007575	.023148	.025747
48	-.012178	-.003263	-.006389	.007744	.020381	.020693
49	-.007674	-.002810	-.009654	.009313	.028578	.011531
50	-.005649	-.002548	-.008400	.013558	.034100	.003199
51	-.007248	-.003733	-.007234	.024743	.039976	-.005175
52	-.009430	-.000612	-.003623	.029704	.046211	-.013470
53	-.010376	.002726	.000623	.028925	.051290	-.021603
54	-.010387	.007416	.007017	.033109	.053047	-.027303
55	-.008997	.011725	.009478	.037660	.052534	-.030717
56	-.007392	.014645	.009014	.042845	.047583	-.033021
57	-.002587	.011258	.008004	.043261	.037233	-.034484
58	.004245	.006973	.006200	.043484	.027392	-.037978
59	.012736	.008298	.002676	.042849	.015033	-.035601
60	.023835	.016274	-.006711	.046773	-.002413	-.033025

205

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.90780	0.74491	0.14675	0.78532	0.15471	0.12695
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
1	-.022703	-.010324	-.013277	-.009207	-.027094	.017530
2	-.038489	-.015166	-.019184	-.021551	-.045737	.026161
3	-.047050	-.024223	-.023438	-.032015	-.056869	.030833
4	-.055181	-.037617	-.027089	-.044152	-.068178	.033670
5	-.060641	-.046405	-.027791	-.057209	-.079324	.035944
6	-.065560	-.046011	-.023825	-.065740	-.088655	.038780
7	-.070645	-.047787	-.023282	-.069164	-.093825	.037476
8	-.077111	-.050291	-.024427	-.072293	-.097236	.034499
9	-.085106	-.049701	-.023547	-.079705	-.099022	.031000
10	-.092938	-.049880	-.019369	-.083373	-.102479	.030173
11	-.094109	-.049876	-.023443	-.084421	-.104733	.028378
12	-.088079	-.049332	-.030193	-.080182	-.103055	.026824
13	-.083615	-.047427	-.034970	-.068829	-.098621	.028582
14	-.081981	-.046353	-.038387	-.057572	-.089475	.029928
15	-.080039	-.047868	-.042678	-.055013	-.080263	.028330
16	-.079563	-.044815	-.045978	-.052524	-.070112	.028661
17	-.072555	-.042955	-.048597	-.044813	-.057952	.026126
18	-.059915	-.040383	-.047086	-.034494	-.046231	.020485
19	-.047886	-.034608	-.042827	-.024697	-.037360	.014662
20	-.035128	-.032522	-.041716	-.012341	-.029685	.014062
21	-.019905	-.032992	-.044033	-.002395	-.025132	.012254
22	-.002296	-.035784	-.045549	.003882	-.024838	.007931
23	.015364	-.039789	-.044280	.009058	-.022445	.002021
24	.026377	-.033620	-.041500	.009574	-.017847	-.004907
25	.036726	-.018693	-.038640	.012284	-.013940	-.005361
26	.045376	-.003940	-.032553	.016707	-.006669	-.002546
27	.049814	.007801	-.022293	.028287	-.001564	-.002732
28	.054202	.015081	-.016822	.045006	-.002466	-.000345
29	.056803	.019377	-.016715	.059615	-.002693	.003621
30	.059690	.022521	-.017376	.060300	-.001796	-.001497
31	.061022	.023692	-.017185	.055182	.001158	-.010641
32	.062046	.030145	-.016910	.051287	.003924	-.018251
33	.063099	.038598	-.011375	.049940	.009010	-.021181
34	.064647	.043030	-.004924	.049779	.014078	-.015544
35	.063276	.041602	-.001592	.051912	.014743	-.004985
36	.063654	.038261	.000470	.052004	.013123	.000264
37	.064663	.038419	.003451	.049574	.012497	-.000224
38	.060635	.044063	.009049	.044889	.011341	.000178
39	.054875	.050228	.014745	.041858	.009081	.005001
40	.053212	.050467	.015749	.032768	.005067	.006678
41	.051793	.044284	.017342	.017684	.004199	.004436
42	.048739	.034588	.019875	.002119	.003738	.000932
43	.042322	.022563	.020923	-.009222	.003233	-.001474
44	.034771	.013535	.018140	-.015475	.000158	-.000916
45	.029153	.011226	.012593	-.015016	-.002196	-.001579
46	.026335	.011897	.007801	-.010794	-.001270	-.004131
47	.020708	.008458	.002909	-.008190	-.000840	-.009250
48	.012934	.002557	-.004044	-.007149	-.001976	-.013331
49	.007889	-.003324	-.008390	-.005639	-.000374	-.013603
50	.006202	-.008285	-.007008	.003078	.000780	-.009427
51	.000955	-.010788	-.003346	.013479	-.001150	-.001271
52	-.005438	-.011916	-.002500	.016338	.000585	.001110
53	-.015673	-.011491	-.003237	.012317	.004359	.005049
54	-.030386	-.015550	-.004868	.005380	.010565	.014432
55	-.047437	-.023445	-.002667	.003280	.018946	.021838
56	-.056573	-.030541	-.001245	.002189	.025500	.020879
57	-.058469	-.035563	.001619	.006567	.035021	.020276
58	-.053820	-.037079	.008418	.006846	.041691	.012647
59	-.046166	-.038732	.011510	.004897	.045737	.002533
60	-.040841	-.037446	.013553	.006763	.049300	.001252

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.86108 10E 00	0.95705 10E 00	0.64441 10E 00	0.25009 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.871896	.855398	.788382	.866241
2	.710026	.676115	.541048	.691931
3	.585152	.543550	.376218	.565570
4	.485100	.444295	.261062	.474057
5	.402809	.364739	.174403	.387929
6	.338629	.296916	.108092	.316462
7	.283193	.239260	.058551	.260765
8	.230923	.184028	.027026	.205418
9	.167730	.132452	-.002254	.148617
10	.097271	.077667	-.033374	.092510
11	.036896	.020958	-.057243	.037662
12	-.013701	-.031071	-.083997	-.017787
13	-.057706	-.077667	-.113716	-.064596
14	-.095233	-.118839	-.135061	-.099971
15	-.130072	-.153814	-.154927	-.123893
16	-.165052	-.180092	-.168237	-.147418
17	-.197292	-.206040	-.173982	-.178662
18	-.225122	-.232385	-.174030	-.208735
19	-.246316	-.255856	-.169808	-.229884
20	-.265404	-.275977	-.175850	-.236102
21	-.280728	-.294109	-.190466	-.235649
22	-.288338	-.307022	-.206698	-.240127
23	-.295760	-.311244	-.211190	-.242088
24	-.297908	-.308915	-.210499	-.249174
25	-.293774	-.299194	-.193749	-.252754
26	-.286525	-.282423	-.172912	-.241849
27	-.271163	-.266376	-.153981	-.224314
28	-.254309	-.245756	-.135547	-.205150
29	-.231617	-.221698	-.128211	-.184737
30	-.206345	-.190761	-.111066	-.154369
31	-.183076	-.156732	-.087009	-.117223
32	-.161722	-.133769	-.072512	-.091042
33	-.136056	-.121227	-.055222	-.079101
34	-.106592	-.108189	-.038852	-.072991
35	-.086199	-.092733	-.025136	-.060608
36	-.067393	-.076411	-.006976	-.049041
37	-.055626	-.065464	.016450	-.047132
38	-.044585	-.058337	.050234	-.050210
39	-.042765	-.044223	.068385	-.054306
40	-.045272	-.032250	.067837	-.067292
41	-.040432	-.024605	.058977	-.079581
42	-.035484	-.015393	.053184	-.078319
43	-.033044	-.007731	.043639	-.072304
44	-.028941	.004903	.044047	-.067552
45	-.025226	.012955	.040198	-.065552
46	-.019985	.024972	.038870	-.059108
47	-.015484	.037947	.034722	-.053888
48	-.007944	.048164	.021108	-.064305
49	.001706	.048875	.011834	-.086090
50	.005388	.044797	.012469	-.094494
51	.011044	.036446	.023016	-.092061
52	.014891	.023562	.032452	-.096044
53	.014876	.008728	.040375	-.106135
54	.012728	-.005425	.034043	-.111187
55	.008779	-.013208	.020746	-.111946
56	.010357	-.017044	.011658	-.106436
57	.011193	-.010744	-.002914	-.094607
58	.010673	-.001862	-.013336	-.075859
59	.011391	.005453	-.019319	-.052373
60	.016227	.017757	-.026820	-.025438

RUN NC 102A 91M 7-4-63 1307-1423(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-01	10E-02
0	.005393	-.073345	-.109428	.006597	-.019364	.019151
1	.190979	-.441812	-.868507	.153888	-.164435	-.021124
2	.230944	-.404249	-.898960	.148990	-.171968	.029152
3	.193639	-.301359	-.723192	.032902	-.156072	.134615
4	.093922	-.122434	-.286402	-.029240	-.097744	.041222
5	.007514	-.075331	-.021290	.013207	-.049669	-.056529
6	-.016316	-.090039	.000444	.010032	-.033636	-.030247
7-8	.012908	-.048208	-.053699	-.001313	-.029901	-.007135
9-11	.023997	-.045140	-.024045	.000845	-.015853	-.009494
12-15	.014901	-.018390	-.029453	-.015411	-.012238	.017748
16-20	.008709	-.007900	.000943	.014928	-.007694	-.019018
21-27	.001949	-.005008	-.003457	.004846	-.004227	-.002639
28-36	-.000641	.001306	-.003746	.001685	-.003106	.003104
37-47	.000486	-.001768	-.000105	.000835	-.001674	-.002702
48-60	-.000731	-.000274	.001376	.000302	-.000913	.000157

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.095004	-.120557	-.397765	-.074951	-.587444	.147202
2	-.317572	-.184325	-.276535	-.208350	-.567218	.163020
3	-.354204	-.145999	-.097449	-.258835	-.512727	.163457
4	-.134589	-.023382	.024994	-.117532	-.307268	.099456
5	-.003400	-.011356	-.002009	-.019873	-.148029	.040555
6	.019256	-.032553	-.024506	-.019412	-.062345	.032859
7-8	-.014999	-.014563	-.046360	.008163	.003763	.034242
9-11	-.011118	.000051	-.030019	.002962	-.024079	.026569
12-15	-.013173	.004618	-.001248	-.000212	-.011608	.003129
16-20	-.004219	.002247	-.006245	.005274	-.006271	.005873
21-27	-.002525	-.000289	.000376	-.001374	-.009733	.005174
28-36	-.000812	-.003402	-.006169	.000399	-.001940	.001266
37-47	-.000362	.000058	-.000135	.000888	.000090	.001940
48-60	.000664	-.000661	-.000918	.000239	.000373	-.000153

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.020616	.016028	.057954	.069227
1	.163826	.157346	.579636	.477789
2	.176614	.186799	.808974	.469397
3	.157255	.172748	.904954	.428596
4	.085793	.095226	.597965	.263804
5	.041687	.047824	.390101	.129919
6	.033045	.036008	.365289	.097421
7-8	.026621	.033219	.295812	.082250
9-11	.017025	.020708	.211035	.052507
12-15	.013381	.016545	.152457	.038835
16-20	.008158	.009446	.091746	.022432
21-27	.004306	.006283	.062767	.016131
28-36	.003126	.003826	.040328	.010646
37-47	.001927	.002339	.025223	.004754
48-60	.001156	.001514	.014948	.003295

301 PCINT RUNNING MEAN, 1U POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16041	0.88040	0.31366	0.86218	0.30717	0.16855
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
0	-.090576	-.469299	-.330649	.140019	-.463829	.149970
1	-.106968	-.348485	-.270478	.108532	-.314386	.131244
2	-.121436	-.201349	-.176589	.048242	-.177633	.111402
3	-.122267	-.078124	-.106970	.024751	-.107427	.096664
4	-.097902	.008889	-.061470	.014797	-.047583	.078458
5	-.048340	.093812	-.026033	.032984	-.022260	.002486
6	.012680	.139684	.008471	.028563	-.025545	-.051902
7	.072675	.147902	.019989	-.020718	-.046060	-.051263
8	.092227	.115636	.051403	-.062469	.015039	-.075504
9	.102002	.062958	.090684	-.069852	.068317	-.073846
10	.112857	.028413	.117025	-.091865	.059387	-.063191
11	.122962	.035596	.122035	-.081283	.036862	-.063419
12	.127910	.030760	.124150	-.082451	.044262	-.050093
13	.124541	.027018	.111040	-.089457	.040137	-.028603
14	.124154	.016053	.089258	-.111287	.025474	.004160
15	.104458	.021434	.069518	-.060690	.036312	-.038031
16	.057014	.038285	.048700	.018096	.069000	-.072431
17	.009816	.035638	.023905	.013306	.110172	-.032890
18	.000549	.010109	.003162	-.001233	.128358	.023204
19	-.009548	.001991	-.016895	-.008585	.166967	.069152
20	-.046998	-.013191	-.013808	.041791	.190388	.037931
21	-.089078	-.023397	.000049	.094647	.162115	.025901
22	-.109935	.007740	-.012108	.118697	.133525	-.011404
23	-.122211	.013533	-.018734	.101531	.115648	-.013348
24	-.135306	-.010210	.003904	.061625	.106241	.006187
25	-.101970	-.017630	.026380	.012534	.079378	.018374
26	-.071188	.036920	.042313	.003628	.008039	-.000386
27	-.042808	.109412	.067125	.030684	-.066257	-.053715
28	-.003859	.167914	.066638	.043605	-.137978	-.083828
29	.031602	.146462	.034366	-.016475	-.189014	-.054374
30	.063310	.088145	-.020116	-.073119	-.189327	.004001

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
0	.049432	-.065383	-.023555	-.014241	-.044465	.061486
1	-.292987	-.431938	-.195075	.082739	-.322341	.480659
2	-.903810	-.495962	-.225839	.304313	-.233943	.635322
3	-.940809	-.637673	-.221422	.349319	-.136568	.752283
4	-.224587	-.635605	-.114375	.081227	-.136614	.485071
5	.035575	-.571081	-.045356	-.017183	-.108920	.239468
6	.074587	-.434308	-.046928	.013802	-.053913	.113321
7	.137439	-.248257	-.052368	.040370	-.066499	-.079035
8	.170924	-.128617	-.047693	.074653	-.085077	-.125428
9-11	.089078	-.064321	-.027045	.092215	-.058053	-.051181
12-14	-.004704	-.093551	-.012106	.020288	-.012427	.054237
15-21	.012468	-.036634	-.006741	.008978	-.024419	.029634
22-30	.008307	-.024348	-.002922	-.002995	-.013854	.003510

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16041	0.88040	0.31366	0.86218	0.30717	0.16859
	10E 01	10E 00	10E 00	10E 00	10E 00	10E 00
1	-.016361	-.068326	-.058578	-.021961	-.085738	.028808
2	.027258	-.081461	-.109360	.016769	-.098952	.019837
3	.057132	-.061383	-.113231	.050382	-.095350	.009242
4	.057829	-.071075	-.102399	.034213	-.084845	-.027350
5	.034368	-.091073	-.097553	.002047	-.075115	-.047713
6	.007719	-.096722	-.083562	.020317	-.037955	-.040754
7	.021282	-.078581	-.066305	-.023387	-.018600	-.076399
8	.043655	-.027830	-.049919	-.012503	-.035183	-.073298
9	.059363	-.005416	-.048739	.047803	-.002449	-.061296
10	.049721	-.006972	-.043017	.038983	.035059	-.052121
11	.036930	-.005340	-.022534	-.001368	.056223	-.040300
12	.007524	-.008285	.000886	-.036955	.078882	-.032464
13	.004990	-.019477	.016912	-.001447	.095853	.000259
14	-.001812	-.049784	.024120	-.030794	.073535	-.028615
15	.003197	-.035225	.020513	-.050628	.032995	-.030176
16	-.006535	-.002883	.030295	-.022456	.021347	-.008130
17	-.019581	.034149	.046319	.019135	.006950	.049231
18	-.038280	.057752	.048521	.006972	-.004987	.071825
19	-.068508	-.001590	.056915	-.023298	-.026712	.078836
20	-.069176	-.057091	.030135	-.001039	-.041760	.087660
21	-.050313	-.053616	-.015728	-.016433	-.058509	.053505
22	-.070645	-.016529	-.007203	-.035417	-.089601	.047707
23	-.089395	.003443	.016489	-.028968	-.099950	.020862
24	-.105239	.006595	.044702	-.014281	-.094997	-.013920
25	-.102508	.060967	.079070	-.023194	-.052507	-.046683
26	-.089255	.089823	.082597	-.052497	-.029537	-.054026
27	-.044370	.107639	.074556	-.046694	-.016933	-.024448
28	-.003309	.122411	.055084	-.021178	-.007414	-.017958
29	.048445	.114657	.022473	.028289	-.017581	.000017
30	.079766	.099342	-.013579	.056494	-.025796	.015557

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
1	.198226	-.276759	-.077943	-.096468	-.000618	-.354343
2	.389676	-.238536	-.117606	.616483	-.027417	-.439179
3	.180370	-.223513	-.119349	.752822	-.115633	-.183334
4	.014268	-.187742	-.071962	.451059	-.111635	.180646
5	.044731	-.123656	-.038388	.016807	-.042136	.117030
6	.046870	-.092185	-.039535	.129411	-.021724	.137345
7	.085112	.020668	-.028753	.718925	-.024783	.209881
8	.092875	.061971	-.019165	.616081	-.038946	.067166
9-11	-.067435	-.053485	-.007295	-.486404	-.015902	.051908
12-14	-.095673	-.069004	-.007867	-.318543	-.007274	.030587
15-21	-.028575	-.009574	.002977	-.308564	-.007216	-.001842
22-30	-.010749	.003922	.001789	-.013233	-.003647	.022933

RUN NC 102A   91M   7-4-63   1307-1423(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16380	0.15709	0.47320	0.60064
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.732521	.682926	.375829	.773313
2	.437054	.384966	.087771	.534991
3	.245979	.234791	-.037230	.352486
4	.101674	.138320	-.083184	.177345
5	-.018790	.051832	-.093250	.040377
6	-.093403	-.029906	-.188041	-.040498
7	-.157848	-.089566	-.147236	-.065600
8	-.181784	-.224014	-.159769	-.170198
9	-.210471	-.319037	-.115629	-.270843
10	-.221123	-.328545	.007956	-.298311
11	-.214139	-.310642	.042485	-.309698
12	-.221862	-.304837	.039978	-.315598
13	-.223582	-.284120	-.078026	-.266588
14	-.216694	-.234227	-.054879	-.174618
15	-.203732	-.189976	-.057379	-.124111
16	-.143145	-.173914	-.053195	-.107584
17	-.089411	-.158113	.043514	-.103217
18	-.020075	-.086214	.017884	-.105234
19	.057767	-.029980	-.060637	-.143126
20	.050164	.023791	-.056773	-.172555
21	.004067	.088069	-.008987	-.128935
22	-.015255	.112031	.018340	-.091779
23	.008638	.121006	.034023	-.073876
24	.005000	.080193	-.002149	-.047857
25	-.036770	.083941	-.000724	-.013515
26	-.067570	.117736	-.029381	.041101
27	-.081110	.176441	.015044	.084008
28	-.116688	.218734	-.011217	.128298
29	-.101110	.233694	-.088386	.186385
30	-.026557	.157717	-.152383	.206534

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.029354	.014168	.025631	.013423
1	.243997	.210771	.216145	.117751
2	.284719	.300762	.275957	.124792
3	.290358	.294451	.371333	.113388
4	.186654	.157437	.424107	.074927
5	.123129	.085326	.433836	.037148
6	.114381	.060956	.372546	.020808
7	.083575	.052338	.265648	.027788
8	.051988	.066079	.161833	.027608
9-11	.045129	.059563	.216659	.012315
12-14	.029143	.029537	.169837	.004662
15-21	.019153	.024216	.131211	.006296
22-30	.010689	.014223	.137643	.003974

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RUN NC  102A   46M    7-4-63   1307-1423(EST)
RUN NC  102A   91M    7-4-63   1307-1423(EST)
   61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.584320	.420880	.658983	.557616
1	.528081	.714724	.611705	.591973
2	.480007	.658585	.598101	.436787
3	.413779	.548108	.567016	.332918
4	.207010	.427124	.512350	.301531
5	.061463	.381482	.457843	.287046
6	.042072	.265998	.351605	.296211
7-8	.063575	.158779	.391436	.307555
9-11	.065537	.238342	.175263	.158660
12-15	.080609	.119709	.228691	.175729
16-20	.117027	.119075	.152451	.126958
21-27	.105005	.077574	.108339	.089162
28-36	.089894	.111934	.090699	.113499
37-47	.090400	.101069	.107305	.145522
48-60	.110354	.105546	.155571	.140706

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.894558	.932664	.757901	.797141
1	.891787	.941142	.740736	.819348
2	.847911	.940194	.729569	.865255
3	.785554	.884398	.719468	.912689
4	.708530	.724922	.691174	.880304
5	.772684	.572195	.704353	.747447
6	.804236	.502672	.741339	.680104
7	.683299	.589537	.769599	.693567
8	.394038	.814909	.684034	.778160
9-11	.377780	.779850	.547922	.517890
12-14	.612777	.605514	.651196	.348081
15-21	.230359	.438793	.490278	.382189
22-30	.258684	.176218	.431222	.189321

GROSS STATISTICS

3 SC	WIND SPEED	5.90 M/SEC	SIGMA A 15.9 DEG
UNSTABLE	WIND DIRECTION	300 DEG	SIGMA E 8.9 DEG
	SOLAR RAD.	0.93 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.36948E 01	0.29049E 01	0.19003E 01	0.20198E 01
V	0.31162E 01	0.23866E 01	0.14202E 01	0.15976E 01
W	0.68747E 00	0.57658E 00	0.63606E 00	0.24426E-00
T	0.97609E-01	0.35948E-01	0.15805E-01	0.32456E-01
E	0.37492E 01	0.29843E 01	0.19783E 01	
GUSTINESS RATIOS				
U	0.32579	0.28888	0.23365	0.24088
V	0.29920	0.26184	0.20199	0.21423
W	0.14053	0.13941	0.13518	0.08377
COVARIANCES				
U,V	-0.62138E 00	-0.30630E-00	-0.76591E-01	-0.24494E-00
U,W	-0.54505E 00	-0.51076E 00	-0.39944E-00	-0.32068E-00
U,T	-0.38611E-00	-0.22138E-00	-0.99338E-01	-0.18315E-00
V,W	0.22109E-01	0.43341E-01	0.50448E-01	0.25883E-01
V,T	0.13180E-00	0.10289E-00	0.35736E-01	0.80694E-01
W,T	0.23384E-01	0.13626E-01	0.24976E-02	0.16610E-01
WE	-0.20613E-00	-0.66287E-01	0.72040E-01	
NORMALIZED COVARIANCES				
U,V	-0.18313	-0.11633	-0.04662	-0.13636
U,W	-0.34199	-0.36433	-0.36332	-0.45654
U,T	-0.64295	-0.64986	-0.57320	-0.71533
V,W	0.01511	0.03411	0.05308	0.04143
V,T	0.23899	0.33323	0.23853	0.35438
W,T	0.09027	0.08288	0.02491	0.18655

RUN NC 103A 15M 7-4-63 1504-1620(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16430 10E 01	0.10995 10E 01	0.17331 10E 00	0.95043 10E 00	0.14981 10E 00	0.10026 10E 00
0	-.046612	-.363109	-.573247	.052975	.238561	.024780
1	-.036455	-.320465	-.517372	.056973	.186651	.068709
2	-.021329	-.255113	-.441347	.046681	.123678	.094103
3	-.016316	-.195966	-.376067	.036709	.082196	.090166
4	-.019513	-.149571	-.309614	.027582	.054304	.075544
5	-.015358	-.106039	-.248457	.012432	.030603	.058758
6	-.008954	-.069301	-.195814	.002863	.015106	.045980
7	-.009904	-.042598	-.147660	.004561	.012652	.034119
8	-.016477	-.015212	-.108516	.005351	.016682	.018294
9	-.028996	.005155	-.076023	-.000550	.020808	.001492
10	-.038054	.018603	-.041895	.002568	.018621	-.004004
11	-.044294	.029842	-.011366	.008985	.008183	.000157
12	-.044267	.042160	.013639	.007247	-.004632	.005751
13	-.044450	.053828	.033062	.017995	-.010317	.016884
14	-.034285	.063401	.057070	.024057	-.010839	.027741
15	-.025694	.071563	.077657	.020588	-.006046	.031841
16	-.021907	.077894	.092101	.007077	-.000668	.021576
17	-.012978	.080027	.107219	-.009161	-.004019	.010710
18	-.002125	.085077	.123196	-.018583	-.005950	-.012863
19	.007210	.092056	.135764	-.020460	-.007200	-.026922
20	.009498	.094498	.143422	-.016393	-.012649	-.032879
21	.012824	.093840	.150255	-.013729	-.022126	-.041771
22	.018906	.091120	.157536	-.011327	-.030395	-.045545
23	.017917	.095564	.163041	-.016795	-.032603	-.045645
24	.013030	.096068	.166632	-.024625	-.037164	-.043567
25	.013700	.095384	.164974	-.030942	-.038720	-.046403
26	.021204	.089686	.165409	-.028397	-.036099	-.046416
27	.032728	.082087	.161934	-.027740	-.034984	-.045130
28	.034835	.074931	.156744	-.028939	-.032867	-.047287
29	.028783	.068559	.145879	-.021753	-.029722	-.044250
30	.025309	.066268	.130365	-.021340	-.025725	-.052865
31	.031598	.057636	.114108	-.025215	-.019323	-.063200
32	.034867	.045542	.099193	-.022912	-.013845	-.068074
33	.036536	.035589	.087113	-.010928	-.008917	-.059344
34	.037296	.024801	.072945	-.005328	-.000032	-.047007
35	.030673	.009982	.056465	-.017613	.004450	-.031488
36	.029476	-.008941	.043522	-.020785	-.002393	-.014679
37	.030445	-.019363	.031918	-.020004	-.013536	.005397
38	.024177	-.023151	.017322	-.015502	-.013430	.022702
39	.023392	-.025198	.007094	-.012135	-.010970	.029933
40	.030928	-.029373	.005558	-.011957	-.009602	.030035
41	.029348	-.031001	.012564	-.013263	-.004385	.023384
42	.028377	-.034915	.014908	-.014373	-.004499	.020016
43	.027196	-.042858	.011284	-.012045	-.008730	.018419
44	.019849	-.043970	.006458	-.009198	-.012007	.020795
45	.009907	-.048918	.005206	.000923	-.022455	.026603
46	.005248	-.043112	.001320	.008631	-.032476	.029306
47	.003916	-.033717	-.002287	.013742	-.046172	.026976
48	-.006045	-.027287	-.008105	.016530	-.052590	.030555
49	-.007352	-.022695	-.008052	.010182	-.053956	.025263
50	-.008681	-.019886	-.007835	.006842	-.051655	.008130
51	-.005134	-.020476	-.003879	.008090	-.052999	-.003419
52	.004286	-.017820	.005235	.005109	-.055764	-.007849
53	.011397	-.004891	.012890	.002405	-.062179	-.002175
54	.018498	.007224	.018295	-.002717	-.070046	-.009014
55	.025145	.010196	.015560	-.014577	-.072358	-.020005
56	.029473	.014181	.014022	-.016183	-.072100	-.022081
57	.036472	.012521	.021636	-.012588	-.071152	-.025633
58	.040144	.007454	.030646	-.010784	-.072075	-.032057
59	.035191	.012235	.034553	-.004352	-.061052	-.038439
60	.024975	.029209	.031103	-.005717	-.038184	-.039349

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16430	0.10995	0.17331	0.95043	0.14981	0.10026
	10E 01	10E 01	10E 00	10E 00	10E 00	10E 00
1	.017930	-.033746	-.042290	.004488	-.001906	.009663
2	.031324	-.048688	-.071519	.006595	-.001632	.013647
3	.039643	-.054771	-.085534	.012123	-.002314	.011508
4	.035644	-.052588	-.096460	.016546	-.002719	.013557
5	.026440	-.045330	-.105484	.021017	-.003910	.012367
6	.021488	-.024444	-.118902	.017815	-.004192	.018911
7	.024549	-.009189	-.127132	.005596	-.004213	.034469
8	.023382	.001901	-.135898	-.011154	-.006272	.044878
9	.018448	.013496	-.142749	-.017369	-.009599	.052487
10	.013256	.022091	-.148191	-.022451	-.014964	.064205
11	.005819	.026236	-.149761	-.029754	-.023235	.075725
12	-.000013	.026196	-.145678	-.032713	-.027121	.077474
13	-.000341	.024457	-.142040	-.026358	-.026298	.068371
14	-.002296	.027274	-.140188	-.020514	-.021070	.062513
15	-.006028	.027866	-.135542	-.024047	-.011997	.048725
16	-.007101	.020259	-.124674	-.033238	-.004539	.044678
17	-.009203	.021419	-.113148	-.040359	.002896	.044943
18	-.015215	.023484	-.101623	-.041314	.012415	.037807
19	-.016388	.019841	-.084907	-.032971	.019892	.023114
20	-.019231	.014762	-.070777	-.026140	.026880	.014009
21	-.013721	.001555	-.053643	-.025775	.035279	.011527
22	-.007518	-.002525	-.035547	-.016874	.033487	.005030
23	-.008403	-.000671	-.019812	-.009795	.027313	.000287
24	-.014303	-.006026	-.004326	-.014133	.025590	-.003605
25	-.021334	-.014676	.009419	-.015902	.019565	-.011040
26	-.025775	-.010754	.016636	-.013061	.007855	-.018940
27	-.028589	-.004495	.021766	-.009062	-.000455	-.033236
28	-.040438	.001629	.024933	.003592	-.010619	-.036076
29	-.050721	.005741	.025844	.006647	-.014909	-.030536
30	-.050656	.000101	.026747	.004784	-.012766	-.029804
31	-.044220	-.008950	.023593	.004857	-.014706	-.028262
32	-.036587	-.007970	.017802	.001610	-.016572	-.022021
33	-.029966	-.003303	.007574	.005726	-.020607	-.016722
34	-.021628	.002308	.001384	.008554	-.025771	-.019718
35	-.014266	.002403	-.004439	.007173	-.021262	-.015411
36	-.004658	.005669	-.007274	.006394	-.011678	-.006942
37	.003215	-.002185	-.002822	.016857	-.006302	-.006863
38	.010760	-.010413	.003122	.031947	-.003547	-.015825
39	.017770	-.004791	.001514	.032780	.008684	-.017581
40	.026867	-.005994	-.001581	.033851	.017295	-.025796
41	.041479	-.010218	.005114	.041161	.020507	-.036542
42	.048931	-.005948	.010732	.045687	.016465	-.045531
43	.048799	-.004011	.014505	.042114	.010133	-.041314
44	.050862	-.006663	.012252	.038253	.008242	-.035572
45	.045408	-.008640	.012009	.024821	.007120	-.019580
46	.040299	.003517	.008543	.017545	.006509	.001873
47	.032459	.007511	.005008	.011457	.002253	.013837
48	.024429	.006563	.001940	.011014	-.002949	.014864
49	.023300	.012160	.001383	.003553	-.001926	.025172
50	.033778	.013510	.006022	-.014510	.004228	.035740
51	.032655	.008241	.010119	-.029701	.002134	.037544
52	.027030	.001479	.012304	-.035287	.000337	.035322
53	.024753	-.003883	.013902	-.027977	.001767	.036334
54	.016961	-.010477	.018918	-.015485	-.002272	.028350
55	.007907	-.013747	.026722	-.009063	-.003950	.020188
56	.003890	-.013797	.034812	-.004578	-.004372	.012621
57	.000731	-.013237	.039562	-.013543	-.000275	.013849
58	-.001642	-.013088	.042834	-.016475	-.001694	.014086
59	-.006962	-.015031	.045574	-.011177	-.005369	.010789
60	-.008276	-.022991	.047602	-.009507	-.008740	.001344

RUN NC 103A   15M   7-4-63   1504-1620(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.19007 10E 01	0.14202 10E 01	0.63605 10E 00	0.15803 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.845850	.788255	.644076	.834834
2	.673753	.552087	.331767	.656676
3	.541273	.382072	.154725	.532894
4	.421060	.247155	.075177	.434334
5	.316304	.154392	.032484	.349256
6	.232617	.103163	.000452	.281984
7	.158539	.063811	-.024217	.228715
8	.089370	.034293	-.032850	.182647
9	.033969	.009816	-.022016	.139820
10	-.022717	-.019724	-.019858	.090257
11	-.071253	-.050598	-.041103	.043577
12	-.102620	-.081251	-.069389	.002759
13	-.125956	-.115293	-.084818	-.036012
14	-.147199	-.135705	-.098319	-.075414
15	-.169366	-.140097	-.124849	-.106172
16	-.187433	-.142488	-.135093	-.132313
17	-.202061	-.138868	-.139141	-.164016
18	-.219772	-.139616	-.132159	-.188042
19	-.237052	-.132991	-.119101	-.206589
20	-.247708	-.137250	-.115015	-.218081
21	-.253820	-.149534	-.110929	-.226949
22	-.258880	-.161407	-.114001	-.232998
23	-.263276	-.162802	-.117337	-.235533
24	-.262018	-.179475	-.120012	-.237033
25	-.252075	-.190305	-.118999	-.232613
26	-.239298	-.183224	-.116673	-.230105
27	-.220652	-.169501	-.109478	-.224683
28	-.198673	-.154864	-.101385	-.223456
29	-.169930	-.135679	-.091663	-.210294
30	-.138025	-.103218	-.070365	-.183113
31	-.100895	-.069589	-.043396	-.146207
32	-.070699	-.040754	-.028744	-.114506
33	-.048566	-.008523	-.019133	-.099490
34	-.034527	.010798	-.012202	-.085570
35	-.017536	.023497	-.002968	-.079295
36	-.000931	.022655	.001276	-.080670
37	.015144	.016876	.013109	-.077612
38	.029236	.006934	.002999	-.063391
39	.037378	.001648	.000798	-.051790
40	.034854	.005299	.015263	-.048849
41	.024615	.015067	.026263	-.054493
42	.016004	.022298	.044738	-.055554
43	.017307	.016953	.064903	-.048439
44	.016131	.010393	.070770	-.042619
45	.015917	-.000437	.065803	-.045567
46	.019087	-.007141	.061487	-.047624
47	.027528	-.020240	.069583	-.052621
48	.032130	-.035036	.066731	-.061031
49	.029561	-.027853	.059299	-.054909
50	.027915	-.022443	.070721	-.047503
51	.019731	-.036510	.072306	-.035845
52	.001849	-.050249	.048840	-.026348
53	-.016663	-.055531	.010345	-.031553
54	-.023990	-.051763	-.008151	-.043152
55	-.023303	-.045117	-.002244	-.035478
56	-.027549	-.041778	.005325	-.030056
57	-.028525	-.036888	.015507	-.032012
58	-.027346	-.038816	.017663	-.028944
59	-.029064	-.034616	.006635	-.014546
60	-.032788	-.017392	-.016904	.002778

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RUN NC 103A 15M 7-4-63 1504-1620(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
0	-.041334	-.039001	-.026025	.007119	.089577	.031050
1	-.341196	-.443616	-.196048	.119855	.515050	.239907
2	-.241777	-.660457	-.209194	.130215	.408200	.270256
3	-.020859	-.730529	-.186679	.076195	.356150	.186614
4	.104450	-.445406	-.103027	.014263	.238015	.004844
5	.076429	-.290605	-.058334	.011516	.158367	.015261
6	.039155	-.269409	-.051269	.027203	.209433	.078097
7-8	-.039323	-.186222	-.035858	.053534	.190818	.053197
9-11	-.070809	-.112817	-.019883	.035701	.125031	-.013268
12-15	-.008975	-.057231	-.010296	-.005449	.115177	-.037561
16-2C	-.002619	-.033353	-.005416	.002831	.035887	-.016648
21-27	-.015384	-.020192	-.003598	-.001767	.039652	-.025127
28-36	-.010429	-.013203	-.002527	.003261	.024460	-.013873
37-47	.000038	-.005308	-.001928	-.004514	.013065	-.012826
48-6C	-.000660	-.003766	-.000805	-.003031	.007963	-.007427

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	-.121292	.041757	-.965201	-.090019	.001318	.122685
2	-.020146	.042855	-.959738	-.113215	-.011193	.209032
3	.196987	.017286	-.889531	-.039794	-.051526	.220162
4	.156388	-.046019	-.496897	.051672	-.115695	.084703
5	.033004	-.099653	-.105061	.049523	-.075421	-.014346
6	.107233	-.128806	.027078	.058906	.072408	-.066563
7-8	.078050	-.099442	-.070750	.029297	.073274	-.032900
9-11	.031116	-.065178	-.040812	.019453	-.025042	-.011271
12-15	.021694	-.021831	-.034027	-.010529	-.006623	.016381
16-2C	.021252	-.010287	-.022637	-.004073	.007369	.004113
21-27	-.006144	-.001057	-.012096	.002003	-.003033	.004472
28-36	-.002432	-.007569	-.001109	-.001105	-.000685	.001273
37-47	.002473	.000777	-.000602	.001452	-.000735	.000739
48-6C	.001393	-.003004	.002510	.001130	-.000429	-.001854

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.027776	.018299	.015355	.040292
1	.247100	.143404	.287050	.287789
2	.313935	.170869	.493950	.287437
3	.334941	.186793	.590502	.252385
4	.213452	.130108	.422893	.147385
5	.121178	.085172	.321751	.078370
6	.105461	.085006	.295737	.064189
7-8	.084145	.068334	.270727	.053937
9-11	.042719	.046675	.258865	.039305
12-15	.028100	.036202	.193075	.025645
16-2C	.017576	.018957	.135804	.015124
21-27	.011012	.011984	.109055	.010811
28-36	.008134	.008235	.063837	.007798
37-47	.005901	.006151	.046613	.005204
48-6C	.003769	.003483	.036971	.003369

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RUN NC 103A   15M   7-4-63   1504-1620(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.17958	0.70204	0.25593	0.62438	0.22762	0.88984
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
0	-.136396	-.456778	-.715629	.041453	.354514	.186664
1	-.139032	-.163211	-.499499	.016873	.295356	.133212
2	-.072665	-.011802	-.289791	-.016992	.229555	.076613
3	-.032836	.045926	-.151893	-.063513	.170999	-.014045
4	-.031754	.030950	-.056706	-.012345	.126367	-.009936
5	-.044661	.020883	-.002409	.000801	.075105	-.026963
6	-.062656	.066537	.035008	.014622	.071361	-.067311
7	-.116610	.051829	.030046	.066040	.094780	-.041129
8	-.123815	.012928	.021938	.056364	.078773	-.004578
9	-.089393	.034562	.058841	.020309	.020567	-.032040
10	-.018088	.041847	.060130	-.033078	-.056617	-.050775
11	.068400	.000797	.066057	-.081485	-.135392	-.029817
12	.087253	.009160	.089386	-.038378	-.172871	-.012125
13	.121841	.049704	.111643	-.015952	-.205990	-.012975
14	.123698	-.019807	.138178	-.001505	-.196143	.009595
15	.081994	-.028598	.143974	.026147	-.186225	.024531
16	.105895	-.049286	.139155	.024331	-.182323	.027938
17	.119787	-.011457	.138788	-.005220	-.148134	-.004065
18	.092252	.071751	.135134	-.033836	-.092939	-.015892
19	.094510	.043712	.152459	-.061398	-.078718	.003053
20	.049796	.048863	.152560	-.003780	-.067063	.003123
21	.001426	-.038390	.097360	.023117	-.039325	.060484
22	-.025499	-.024972	.062476	.045716	-.011717	.061327
23	-.025605	-.004706	.060028	.063062	-.006257	.024973
24	-.013011	.045333	.080388	.078001	-.000914	-.023085
25	.026481	.052723	.076303	.051202	-.017375	-.051817
26	.033386	.078164	.035012	.060225	-.031440	-.046695
27	.042344	.090105	.014365	.024911	-.056203	-.085414
28	.016175	.049600	-.024942	.033288	-.041469	-.068223
29	.028985	-.006242	-.053129	-.025391	-.033504	-.010049
30	.045275	-.050602	-.073863	-.014541	-.029590	.015071

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.016617	-.022917	-.047681	-.002117	.036516	.027496
1	-.115909	-.158771	-.354225	-.009916	.277654	.121039
2	-.085784	-.159483	-.303042	.020999	.244685	.153833
3	-.012107	-.220131	-.214898	-.005018	.128386	.256704
4	.040333	-.259780	-.162161	-.052000	.001362	.243002
5	.010018	-.233820	-.157989	-.044022	.004059	.192935
6	-.027714	-.182548	-.136295	-.029000	.050172	.145393
7	-.043924	-.187212	-.108380	.075315	.062103	.114959
8	-.044932	-.220357	-.084283	.154640	.045502	.150597
9-11	-.004169	-.150709	-.054160	.034136	.004317	.048220
12-14	-.003897	-.142347	-.031009	.021890	.004127	.041750
15-21	.000667	-.089267	-.022416	-.004057	.007145	-.008014
22-30	.004366	-.094629	-.017894	.005971	.003133	.029478

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RUN NC 103A 15M   7-4-63   1504-1620(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.17958	0.70204	0.25593	0.62438	0.22762	0.88984
	10E 01	10E 00	10E 00	10E 00	10E 00	10E-01
1	-.001468	.016481	-.159036	-.047254	-.029379	.079404
2	-.035057	.040517	-.173461	-.097499	-.030889	.101546
3	-.068788	.000371	-.144962	-.082456	-.060360	.067297
4	-.018994	017685	-.126023	-.077189	-.054420	.079855
5	-.017545	.017536	-.084012	-.119685	-.051620	.116010
6	-.066556	.023124	-.058789	-.110016	-.075894	.121515
7	-.068541	.059346	-.060494	-.111863	-.055608	.122709
8	-.065056	.018114	-.052024	-.085954	-.042172	.075201
9	-.068986	.038132	-.031182	-.090488	-.017250	.067821
10	-.048309	.032415	-.017309	-.090855	.036289	.057782
11	-.030675	.041063	-.041153	-.008084	.055885	.027110
12	-.001354	.031342	-.032818	.034104	.082014	.011637
13	.026787	.024828	-.017370	.049829	.106737	.006027
14	-.002091	.005480	-.011573	.038468	.090244	-.013147
15	.057372	-.001142	.001816	.089018	.108546	-.030539
16	.058955	-.051205	.019194	.088194	.103549	-.057110
17	.040516	-.031907	.002962	.074793	.064045	-.023119
18	.002018	.030861	-.024971	.027520	.016834	.000444
19	.002665	.003335	-. 155	.023448	-.007385	-.032382
20	.033105	-.039683	.019793	.023399	-.015353	-.090522
21	.016101	-.008870	.054438	.044457	-.030169	-.087476
22	.014230	-.066914	.046220	.011173	-.033504	-.038813
23	.022648	-.045851	.049321	.005496	-.042414	-.026345
24	-.024826	.033209	.045461	-.043825	-.082642	.039098
25	-.022238	.049967	.058812	-.014265	-.086571	.038670
26	-.040982	-.005654	.060793	-.026747	-.086890	-.005304
27	-.003773	-.034443	.053312	-.026590	-.041659	-.010089
28	.045194	.019828	.043932	-.015849	-.007582	-.002093
29	.053181	.043606	.018249	-.031411	.020974	-.002788
30	.039655	-.001809	.028505	.026765	.036646	-.045837

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-02	10E-02
1	-.310508	.114206	-.098713	-.153222	.357069	.314585
2	-.442674	.116017	-.101526	-.272152	-.242445	.405887
3	-.406075	.059168	-.090510	-.306057	-.910296	.359010
4	-.057900	-.016234	-.082210	-.117495	-.545754	.155063
5	.125100	-.015231	-.072378	.017933	.076567	.065244
6	.053151	.008211	-.061525	.010158	.138640	.013019
7	-.079531	.030396	-.060828	-.037733	.004097	.014722
8	-.100239	.010613	-.043758	-.045935	-.027938	.045951
9-11	-.067625	.026762	-.033089	-.020116	-.060324	.061770
12-14	.033978	.017576	-.014207	-.034491	.007751	.071967
15-21	.089449	.002881	-.012259	.012755	.003342	.011743
22-30	-.036106	-.022485	-.001737	.007546	-.045656	-.009947

RUN NC 103A 15M 7-4-63 1504-1620(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.20192 10E 01	0.15971 10E 01	0.24409 10E 00	0.32439 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.522541	.609191	.124672	.760947
2	.191014	.384116	-.052351	.505672
3	.054051	.245546	-.046978	.335005
4	-.019069	.097812	-.039532	.182378
5	-.085685	-.021151	.076756	.081237
6	-.122896	-.096544	-.087111	.039468
7	-.097571	-.095191	-.076155	.011263
8	-.091965	-.118207	-.096435	-.019482
9	-.135031	-.222590	-.008095	-.068027
10	-.076615	-.224000	-.089995	-.117301
11	-.004420	-.211583	-.149183	-.190066
12	-.039865	-.274755	-.133205	-.250425
13	-.068556	-.309434	-.191379	-.291380
14	-.046450	-.225474	.005525	-.326416
15	-.048392	-.129891	-.035502	-.312505
16	-.040091	-.052058	.045191	-.269815
17	-.044157	-.016580	.028213	-.223654
18	-.092734	.045083	-.065699	-.175712
19	-.165439	.072831	.048420	-.178413
20	-.196739	.029497	.073272	-.185108
21	-.090214	.084230	.158966	-.144446
22	-.053161	.083125	.000244	-.096717
23	-.078592	-.000709	.064333	-.089634
24	-.085734	-.074732	.040858	-.094072
25	-.080217	-.127616	.039930	-.056695
26	-.041439	-.150858	-.038522	-.008942
27	-.015507	-.136346	-.082588	.018260
28	.046581	-.142215	.010693	.050791
29	.084110	-.095599	-.035671	.051894
30	.115693	-.099346	.040892	.063856

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.026134	.026646	.001945	.105394
1	.209123	.211141	.058500	.783789
2	.191981	.253380	.127225	.696483
3	.185616	.273386	.171344	.467492
4	.202712	.159543	.106175	.234622
5	.183577	.081176	.066178	.195893
6	.135079	.095415	.084937	.218941
7	.116134	.091369	.110113	.195731
8	.101638	.063972	.120392	.123133
9-11	.083961	.036382	.096491	.070073
12-14	.053771	.022667	.141627	.041501
15-21	.047527	.031088	.092614	.034384
22-3C	.036014	.027611	.118144	.019984

RUN NO 103A 46M 7-4-63 1504-1620(EST)

GROSS STATISTICS

3 SC	WIND SPEED	8.21 M/SEC	SIGMA A 13.4 DEG
UNSTABLE	WIND DIRECTION	306 DEG	SIGMA E 7.8 DEG
	SOLAR RAD.	0.93 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.37658E 01	0.28614E 01	0.16136E 01	0.22085E 01
V	0.37983E 01	0.28888E 01	0.17175E 01	0.20503E 01
W	0.96532E 00	0.93020E 00	0.79495E 00	0.45423E-00
T	0.64134E-01	0.33156E-01	0.18001E-01	0.24963E-01
E	0.42647E 01	0.33404E 01	0.20630E 01	
GUSTINESS RATIOS				
U	0.23637	0.20604	0.15472	0.18101
V	0.23738	0.20702	0.15963	0.17441
W	0.11967	0.11748	0.10859	0.08209
COVARIANCES				
U,V	-0.63708E 00	-0.10391E-00	-0.30497E-01	-0.83097E-01
U,W	-0.91892E 00	-0.83877E 00	-0.49343E-00	-0.62924E 00
U,T	-0.19552E-00	-0.15232E-00	-0.67477E-01	-0.13400E-00
V,W	0.80553E-01	0.12545E-01	0.53031E-01	-0.69951E-02
V,T	-0.22886E-00	-0.15469E-00	-0.96391E-01	-0.10889E-00
W,T	0.57952E-01	0.56957E-01	0.24166E-01	0.49181E-01
WE	0.41897E-00	0.41258E-00	0.30758E-00	
NORMALIZED COVARIANCES				
U,V	-0.16845	-0.03614	-0.01832	-0.03905
U,W	-0.48196	-0.51412	-0.43570	-0.62824
U,T	-0.39784	-0.49454	-0.39592	-0.57068
V,W	0.04207	0.00765	0.04539	-0.00725
V,T	-0.46369	-0.49982	-0.54822	-0.48130
W,T	0.23291	0.32432	0.20203	0.46186

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16647	0.11326	0.17045	0.11685	0.17585	0.11964
	10E 01	10E 01	10E 00	10E 01	10E 00	10E 00
0	-.018308	-.435866	-.395939	.045635	-.547974	.202111
1	-.013827	-.384328	-.379884	.041209	-.466035	.182939
2	-.005622	-.304021	-.344085	.033022	-.354495	.155050
3	.001629	-.240207	-.306599	.035323	-.270336	.131139
4	.005244	-.187844	-.268758	.038140	-.211356	.109083
5	.009963	-.139799	-.231127	.032233	-.163741	.098970
6	.017524	-.100599	-.197020	.021881	-.134421	.088079
7	.021092	-.073760	-.165100	.017817	-.112508	.074674
8	.021641	-.053732	-.136654	.015958	-.087706	.058211
9	.016258	-.038270	-.105809	.007450	-.067236	.044187
10	.013373	-.015820	-.078553	-.000100	-.048473	.030872
11	.017464	.008284	-.055239	-.004537	-.034701	.015827
12	.021729	.028745	-.037105	-.004281	-.015172	.004362
13	.018781	.046658	-.015088	-.012496	.008431	-.000910
14	.013592	.069183	.009299	-.019918	.029768	-.005253
15	.008233	.086317	.033297	-.018259	.051372	-.013758
16	.001686	.095119	.057300	-.018871	.075321	-.022461
17	-.005324	.100868	.078940	-.020587	.100001	-.033565
18	-.012099	.106867	.100592	-.018969	.115956	-.044200
19	-.014271	.109726	.121890	-.020713	.125349	-.057509
20	-.014559	.110190	.137921	-.024169	.134554	-.064493
21	-.010433	.113742	.150493	-.024167	.134296	-.062317
22	-.005877	.123078	.157784	-.024175	.140487	-.059174
23	-.006518	.130017	.160688	-.021034	.156324	-.068273
24	-.009261	.130588	.158272	-.020184	.170236	-.070487
25	-.009925	.114330	.150794	-.016928	.177607	-.065017
26	-.013565	.094305	.144015	-.015764	.176873	-.056652
27	-.014739	.074053	.138295	-.011577	.168019	-.054163
28	-.015887	.060252	.133842	-.001197	.154688	-.055707
29	-.019827	.048881	.129433	.007264	.143364	-.056452
30	-.023248	.037464	.121478	.012161	.132004	-.054351
31	-.022735	.026142	.112063	.009421	.112929	-.043213
32	-.020506	.016076	.100976	.006491	.096297	-.037612
33	-.019742	.004338	.091344	.004995	.084217	-.038080
34	-.024448	.000939	.088571	.010511	.080608	-.045449
35	-.026647	-.000124	.087075	.009364	.076692	-.047056
36	-.026621	.000259	.085859	.009930	.075831	-.044722
37	-.022916	.001461	.080643	.013878	.072207	-.050639
38	-.013627	-.001790	.070306	.009012	.059243	-.051314
39	-.006502	-.008848	.058918	-.000134	.045615	-.042316
40	.001079	-.009219	.049210	-.009418	.028792	-.032220
41	.007446	.002589	.043045	-.009704	.016066	-.030822
42	.015074	.017934	.036167	-.003020	.007192	-.030608
43	.022156	.029220	.029576	.002334	.004294	-.026331
44	.020087	.032208	.026506	.001477	-.000202	-.024793
45	.006851	.028748	.025085	.002770	-.006761	-.022059
46	-.007701	.018891	.023030	.001633	-.014122	-.017744
47	-.013351	.014794	.013113	.001425	-.021033	-.012849
48	-.016011	.014124	.007747	.000971	-.028071	-.001624
49	-.017671	.008762	.005568	-.001290	-.034920	.012188
50	-.016794	.003117	.002812	-.007313	-.037393	.022973
51	-.016994	-.002804	-.000243	-.008065	-.035095	.028961
52	-.017794	-.012782	-.007812	-.002354	-.029804	.033722
53	-.013201	-.013396	-.013402	-.002429	-.029756	.035926
54	-.010341	-.009160	-.018288	-.008495	-.030476	.042100
55	-.010989	-.005620	-.023168	-.008265	-.028608	.057724
56	-.008711	.000927	-.025500	-.008493	-.032673	.032170
57	.001897	.004034	-.029119	-.004832	-.043648	.022431
58	.015254	.003330	-.035907	-.005234	-.057052	.015639
59	.028231	-.000213	-.039135	-.007623	-.060707	.013440
60	.036083	-.005304	-.040649	-.008940	-.062826	.013193

RUN NO 103A   46M   7-4-63   1504-1620(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.16647	0.11326	0.17045	0.11685	0.17585	0.11964
	10E 01	10E 01	10E 00	10E 01	10E 00	10E 00
1	.003367	-.027707	-.026796	.003928	-.020750	.006187
2	.004058	-.039781	-.047004	.001311	-.030985	.011225
3	.003011	-.045728	-.062633	-.003515	-.039606	.022642
4	.001844	-.047636	-.072285	-.014434	-.048220	.032200
5	.010377	-.043803	-.085701	-.019822	-.053059	.042259
6	.020544	-.036688	-.102474	-.018677	-.052993	.054236
7	.023607	-.020686	-.111804	-.016905	-.052137	.063018
8	.027789	-.010301	-.116647	-.021321	-.056108	.064462
9	.031280	-.004444	-.123709	-.023580	-.056563	.067132
10	.033401	-.004504	-.127368	-.023344	-.056659	.060950
11	.038453	-.001981	-.130714	-.026384	-.056068	.048030
12	.046597	.006240	-.129843	-.025145	-.058521	.040944
13	.052232	.018449	-.125069	-.017485	-.058420	.040605
14	.056574	.026252	-.115590	-.010547	-.059046	.041630
15	.056535	.029160	-.105591	-.001240	-.060220	.049201
16	.050106	.031280	-.096530	.002251	-.056472	.054627
17	.038653	.035646	-.085974	-.001331	-.051240	.055877
18	.026249	.032978	-.071810	-.014913	-.049170	.040873
19	.017554	.029882	-.056979	-.025827	-.049585	.031446
20	.013773	.024046	-.044516	-.022275	-.043414	.028411
21	.015172	.020010	-.038155	-.017812	-.033353	.025104
22	.016059	.015616	-.034337	-.019536	-.027853	.017103
23	.013404	.015476	-.030615	-.016308	-.024161	.010487
24	.015555	.020726	-.028391	-.010340	-.020150	.006749
25	.011610	.015335	-.026336	-.007702	-.015288	-.004224
26	.005897	.010085	-.023429	-.006033	-.012752	-.016057
27	.003197	.011540	-.020120	-.005131	-.007838	-.024034
28	.00 445	.006298	-.014743	-.001598	-.004817	-.029753
29	-.00 242	-.000554	-.009857	.001713	-.002885	-.025491
30	-.015364	-.005785	-.003542	.004551	-.001807	-.015671
31	-.023621	-.015285	.004361	.009610	.000762	-.005520
32	-.034492	-.019318	.012041	.007272	.003186	-.003327
33	-.047938	-.023983	.018924	-.006074	.002504	-.013184
34	-.053943	-.033906	.021055	-.010585	.004476	-.019377
35	-.059397	-.039993	.025201	-.009022	.007248	-.021880
36	-.061548	-.043508	.026192	-.012849	.014401	-.025210
37	-.059931	-.050934	.025840	-.002647	.018241	-.020220
38	-.054597	-.058332	.024868	.013070	.026726	-.016940
39	-.049627	-.062315	.022877	.026253	.033958	-.010982
40	-.044755	-.057008	.019702	.028837	.040688	.000797
41	-.037077	-.047770	.016342	.034610	.047808	.010350
42	-.030719	-.042235	.015285	.036585	.050621	.015261
43	-.027085	-.034285	.014490	.036181	.056945	.022369
44	-.019180	-.012647	.015641	.033399	.060162	.027131
45	-.010481	.005551	.019690	.020450	.054630	.020834
46	-.002214	.018053	.024321	.012270	.053267	.012922
47	.005633	.030598	.023857	.008750	.054188	.006041
48	.010765	.037830	.023934	.005374	.055938	.002810
49	.013030	.040729	.025529	-.004891	.051152	-.006680
50	.012372	.037486	.026036	-.017835	.046504	-.018301
51	.009002	.033527	.025145	-.028985	.042814	-.026258
52	.003586	.031329	.026589	-.036460	.042928	-.031781
53	-.000487	.031095	.030144	-.040705	.042416	-.036396
54	.001621	.019970	.031060	-.042244	.036783	-.041450
55	.011585	.005622	.025315	-.038742	.029786	-.039827
56	.025140	-.004410	.016143	-.025205	.022513	-.031322
57	.033406	-.003854	.011234	-.006427	.012876	-.028480
58	.035816	.002517	.009881	.001049	.007074	-.023795
59	.030571	.009547	.011655	-.001314	.003640	-.016908
60	.023136	.014512	.014095	-.005060	-.004748	-.017029

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NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16136	0.17174	0.79501	0.18005
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.872069	.826865	.737531	.845213
2	.711072	.618075	.455350	.669586
3	.580737	.466082	.289296	.540060
4	.471394	.352149	.180032	.439785
5	.376453	.266039	.093790	.357608
6	.293592	.206339	.035542	.291659
7	.220099	.158673	.012770	.240955
8	.157324	.111653	.004792	.195977
9	.103548	.074521	-.006242	.156542
10	.052852	.038804	-.026369	.120233
11	.002307	.005148	-.052803	.085525
12	-.043676	-.022754	-.074721	.041249
13	-.082099	-.046536	-.091560	-.007287
14	-.115326	-.073824	-.126934	-.047896
15	-.146534	-.099848	-.160554	-.087367
16	-.175264	-.129867	-.176028	-.129915
17	-.202924	-.162504	-.183980	-.170329
18	-.231188	-.189039	-.188206	-.191870
19	-.251379	-.211825	-.190628	-.208961
20	-.263810	-.230111	-.200858	-.227484
21	-.272303	-.237841	-.205512	-.239786
22	-.278723	-.250590	-.202801	-.257550
23	-.279546	-.263215	-.197339	-.282853
24	-.272298	-.275493	-.184264	-.301852
25	-.254291	-.279155	-.154363	-.312891
26	-.238684	-.270560	-.132356	-.311315
27	-.223832	-.261273	-.105534	-.293253
28	-.204432	-.245070	-.082281	-.274845
29	-.182459	-.221012	-.060809	-.257826
30	-.159990	-.194106	-.038524	-.239720
31	-.134482	-.158271	-.013181	-.210416
32	-.112075	-.128399	.008744	-.188448
33	-.094783	-.107272	.024384	-.172058
34	-.085658	-.090987	.037756	-.161829
35	-.076827	-.076543	.048530	-.154485
36	-.071556	-.072128	.042068	-.149554
37	-.065982	-.074485	.024697	-.138166
38	-.061069	-.066573	.024031	-.120640
39	-.051404	-.059587	.032949	-.099703
40	-.043039	-.048608	.035391	-.077133
41	-.044064	-.032329	.021875	-.060637
42	-.049630	-.0.0166	.015318	-.049604
43	-.058222	.007721	.012992	-.042633
44	-.062059	.026343	.016980	-.037257
45	-.053942	.042311	.016095	-.027485
46	-.039856	.054702	.023667	-.014342
47	-.026632	.066108	.033135	-.001554
48	-.013901	.073463	.032833	.012151
49	-.001388	.077307	.026317	.026070
50	.009175	.080966	.016720	.027271
51	.015652	.079616	.010985	.028085
52	.023488	.069435	.009236	.031867
53	.034233	.060483	.019154	.039585
54	.039603	.055808	.031313	.042994
55	.045866	.046050	.041964	.047987
56	.047757	.040320	.024614	.058865
57	.051122	.048515	-.001050	.067127
58	.056837	.057888	-.019519	.077453
59	.063417	.049227	-.029894	.083302
60	.069596	.034614	-.034904	.084160

RUN NC 103A 46M 7-4-63 1504-1620(EST)
51 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.008599	-.091063	-.022868	.013831	-.013965	.067097
1	.094121	-.711545	-.185660	.086620	-.159214	.579768
2	.109511	-.832036	-.186395	.112663	-.186699	.581382
3	.014503	-.893822	-.143710	.153888	-.154928	.436395
4	-.084537	-.605380	-.066429	.112483	-.074374	.232119
5	-.072418	-.286305	-.026688	.028731	-.041697	.117624
6	-.062843	-.203455	-.016242	-.003270	-.038767	.058259
7-8	-.061619	-.207902	-.019332	.011449	-.038747	.075202
9-11	-.004135	-.123408	-.009983	-.008224	-.029662	.036603
12-15	-.022726	-.090324	-.003834	-.000387	-.017230	.029786
16-2C	.003724	-.036976	-.002292	.001745	-.011640	.021464
21-27	-.010272	-.027978	-.000701	.003577	-.006555	.011869
28-36	-.000446	-.017349	-.000687	.007380	-.004163	.001871
37-47	.001037	-.007349	-.000170	.000109	-.002061	.005286
48-60	-.000809	-.003584	.000043	-.000918	-.001369	.001466

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	.138539	.008794	-.835197	-.095976	-.439896	.222319
2	.320291	.075107	-.828938	-.106845	-.510125	.255341
3	.253169	-.007919	-.672036	-.061798	-.320423	.259151
4	-.019425	-.169917	-.354098	-.017889	-.136867	.125052
5	-.039188	-.125135	-.162337	-.036110	-.085212	.009701
6	-.013998	-.082183	-.056609	-.012734	-.019630	.020391
7-8	-.078823	-.077141	.035609	-.015370	-.054181	.026544
9-11	.022092	-.031034	-.026697	.029141	-.032137	-.021293
12-15	-.019081	-.027606	-.009745	-.007462	-.011216	-.021723
16-2C	.011079	.001182	-.007658	.017984	-.004776	.009505
21-27	.007922	-.007419	-.010379	.003157	-.002489	-.002397
28-36	-.000506	-.002902	.002542	-.002390	-.006431	-.001156
37-47	-.000822	-.002188	-.001720	.001670	-.001442	.003172
48-60	.000276	.000500	-.000187	.001779	-.000304	.001436

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-02
0	.032969	.023239	.004236	.038037
1	.275886	.242072	.050547	.343637
2	.304930	.294478	.079528	.365391
3	.286365	.265477	.101210	.291591
4	.178667	.142844	.074367	.143205
5	.094747	.084758	.041015	.078509
6	.068402	.078574	.033080	.068544
7-8	.061290	.078327	.037946	.064496
9-11	.036474	.050488	.031361	.046907
12-15	.022502	.032063	.021844	.028258
16-2C	.012786	.021481	.012926	.017570
21-27	.008993	.012813	.009309	.012142
2C-36	.005434	.008239	.006779	.007862
37-47	.003556	.005395	.004004	.005117
48-6C	.002297	.003316	.002508	.003515

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NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21288	0.10018	0.23482	0.96543	0.22629	0.10649
	10E 01	10E 01	10E 00	10E 00	10E 00	10E 00
0	-.039035	-.628104	-.570626	-.007245	-.481183	.461828
1	-.013397	-.370445	-.405010	-.003624	-.307886	.299047
2	-.021357	-.155772	-.195703	-.040457	-.144778	.156942
3	-.024861	-.082660	-.058482	-.047893	-.044392	.079146
4	-.001818	.030606	.047515	-.038249	-.009029	-.029764
5	-.003391	.093545	.096770	-.041481	-.015439	-.039924
6	.002812	.149958	.115336	-.014553	.001967	-.101156
7	-.011092	.169720	.149521	.002442	.015813	-.134781
8	-.060127	.151729	.167878	.035689	.056707	-.127163
9	-.125904	.130815	.182130	.084181	.113221	-.152611
10	-.142325	.102896	.168588	.092583	.109140	-.115942
11	-.108406	.095870	.124185	.065505	.138415	-.105335
12	-.054718	.057448	.078711	.063636	.144866	-.090875
13	-.037848	.040216	.064839	.078818	.123051	-.071551
14	-.004632	.028694	.036400	.041825	.065162	-.044809
15	.039791	.027776	-.002676	-.001880	-.015437	-.012744
16	.085441	-.014637	-.024855	-.058922	-.054051	.032135
17	.094970	-.015895	-.031099	-.043411	-.017429	.020836
18	.077852	.009084	-.058446	-.072048	.015863	.053315
19	.056734	-.074191	-.088475	-.017904	.040207	.061579
20	.075260	-.125484	-.153419	.002689	.047351	.101272
21	.102771	-.118958	-.163932	-.042525	.011352	.124208
22	.113193	-.095743	-.114069	.006123	.013579	.078491
23	.129996	-.028079	-.063171	-.036033	.033665	.042614
24	.129538	.034145	-.021283	-.051460	.034106	.003887
25	.130637	.090429	.030596	-.043696	.030166	-.031822
26	.094921	.099248	.081919	-.029648	.058722	-.058220
27	.025688	.099452	.113988	.057940	.090908	-.126226
28	-.017590	.101002	.136435	.059749	.061160	-.142540
29	-.080163	.069155	.142260	.053308	.050965	-.112977
30	-.084739	.028827	.101045	.056171	.058827	-.068701

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
0	-.173347	-.047109	-.009569	.016362	-.015832	.029894
1	-.870671	-.349156	-.065594	.000379	-.135224	.278502
2	-.016163	-.609670	-.151100	-.162390	-.152557	.590301
3	.626503	-.975347	-.258221	-.260502	-.166701	.948596
4	.186487	-.841176	-.203911	-.065725	-.114824	.715571
5	-.347257	-.630501	-.131480	.154741	-.044506	.427956
6	-.463477	-.513694	-.104282	.160447	-.036081	.343162
7	-.136944	-.291414	-.069262	.039831	-.075926	.231996
8	.146105	-.242788	-.070439	.024625	-.085639	.201787
9-11	.124409	-.185421	-.054568	.006129	-.048147	.155568
12-14	-.084711	-.175005	-.020740	.043092	-.025262	.099097
15-21	-.010673	-.137545	-.016967	-.000189	-.013709	.066690
22-3C	-.043611	-.077364	-.007143	-.021271	-.013754	.066918

RUN NC 103A 46M 7-4-63 1504-1620(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21288	0.10018	0.23482	0.96540	0.22629	0.10649
	10E 01	10E 01	10E 00	10E 00	10E 00	10E 00
1	-.000208	-.023712	-.115841	-.049255	-.065790	.075924
2	.005684	.047738	-.124268	-.064199	-.073085	.079263
3	-.009187	-.000287	-.125578	-.062513	-.048623	.041741
4	-.024498	-.006349	-.095138	-.036385	-.032239	.069511
5	.012478	.082016	-.060961	-.028572	-.019882	.069095
6	.031138	.056648	-.040234	-.014787	-.051801	.037861
7	.042727	.074358	-.031064	.043809	-.065365	.092745
8	.045307	.080011	-.030412	.049896	-.053101	.093890
9	.057240	.020500	-.021246	.025098	-.026755	.034509
10	.047372	-.015240	-.010678	.015072	.005413	-.002179
11	.013692	-.020443	.008727	-.017680	.008090	-.050195
12	-.013223	-.014755	.053563	.010220	.018944	-.053323
13	-.041704	-.039607	.052744	.009152	.032367	-.050111
14	-.015453	-.081589	.063600	.041769	.067961	-.049134
15	.015398	-.063147	.067786	.065446	.086880	-.048693
16	.049559	-.059918	.013537	.065315	.060699	-.023756
17	.073109	-.052135	-.002718	.067890	.050143	-.024865
18	.072757	-.083509	.013974	.015676	.016967	-.093583
19	.029140	-.042235	.037855	-.009877	.020280	-.081987
20	-.014556	.010713	.050860	-.038304	.014335	-.042318
21	-.044300	.000742	.039165	-.063039	-.015299	-.037437
22	-.040977	.037463	.013794	-.052391	-.039489	.009367
23	-.056302	.049439	-.008042	-.053288	-.088453	.051563
24	-.048600	.047545	-.031094	-.035229	-.078692	.047757
25	-.066325	.078380	-.034078	-.042199	-.102868	.071112
26	-.066821	.048973	-.024435	-.058950	-.092784	.036442
27	-.057195	.032280	-.016526	-.062445	-.041926	.024108
28	-.037167	.040323	-.003685	-.060762	-.017572	.014018
29	-.034190	.084822	.018634	.009479	.007610	.035143
30	.007755	.045511	.009454	.063818	.068902	.057290

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	.377146	-.022596	-.118199	.093000	-.044478	.030067
2	.219547	.160131	-.553175	.000962	-.349695	.262147
3	.019770	.286501	-.881276	-.162944	-.695253	.393208
4	.040362	.068661	-.699212	-.128725	-.285594	.193437
5	-.171876	-.097245	-.449350	-.093723	.034434	.051765
6	-.366577	-.084047	-.313231	-.197937	-.065523	-.017942
7	-.039815	-.083524	-.397733	-.166953	-.141406	-.039674
8	.215458	-.047556	-.493816	-.015785	-.191193	.103964
9-11	.028597	.039459	-.163741	.005088	-.236691	.107894
12-14	.075382	.005446	-.080100	-.043890	-.052107	.008996
15-21	-.038236	-.048522	-.070234	.007011	-.031007	.055658
22-3C	.006822	-.025705	-.050288	-.012246	.006436	-.019221

RUN NC 103A   46M   7-4-63   1504-1620(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.22091	0.20514	0.45431	0.24962
	10E 01	10E 01	10E 00	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.624423	.631326	.316002	.665151
2	.304943	.325772	.032466	.331397
3	.110606	.147642	.089410	.110013
4	-.056170	.054288	-.016128	-.039136
5	-.115633	.047565	-.035360	-.086091
6	-.139057	-.018035	-.170028	-.130084
7	-.210673	-.055646	-.180955	-.155458
8	-.224103	-.090442	-.079517	-.192662
9	-.204998	-.120015	-.124458	-.225230
10	-.155890	-.126677	-.197469	-.213139
11	-.156615	-.208344	-.198374	-.208693
12	-.133544	-.258348	-.087714	-.181180
13	-.100672	-.270431	-.046121	-.165948
14	-.075175	-.228889	-.079841	-.106409
15	-.024033	-.141445	-.072925	-.016194
16	.014897	-.099837	.000723	.023731
17	.015484	-.129116	.017693	-.003029
18	.027285	-.115766	.000180	.012349
19	.054817	-.134973	.031771	.066428
20	.110074	-.115150	.134661	.105216
21	.117602	-.017942	.179068	.133088
22	.073144	-.001000	.115013	.102570
23	.004864	-.049315	.112242	.055325
24	-.058677	-.099517	.004995	.015044
25	-.157127	-.095330	-.050195	-.039122
26	-.189441	-.069673	.027963	-.130705
27	-.159158	-.037180	-.072088	-.194430
28	-.143531	.031591	-.136591	-.194114
29	-.114561	.065652	-.056098	-.199321
30	-.086795	.076075	.014652	-.171321

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.026176	.030864	.010853	.032661
1	.180359	.310319	.158678	.224907
2	.240702	.327261	.341714	.310040
3	.337804	.276157	.497203	.409845
4	.283249	.165461	.363797	.306993
5	.197827	.114823	.259538	.199271
6	.166402	.120838	.227811	.170794
7	.122396	.130283	.174595	.151399
8	.106212	.115691	.191718	.146866
9-11	.080750	.072074	.146736	.094226
12-14	.049001	.055521	.203731	.048315
15-21	.034997	.027412	.172500	.032896
22-30	.027082	.027800	.135992	.025676

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RUN NO 103A 15M 7-4-63 1504-1620(EST)
RUN NO 103A 46M 7-4-63 1504-1620(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.468914	.366365	.448919	.374829
1	.388239	.735610	.363311	.269402
2	.247308	.688020	.309155	.221574
3	.193637	.590878	.298111	.247228
4	.210576	.488565	.290526	.291146
5	.158617	.450681	.252989	.288047
6	.085465	.403282	.156833	.259524
7-8	.203065	.329688	.1 6340	.083103
9-11	.141724	.311121	.212871	.082226
12-15	.055530	.187922	.215750	.078028
16-20	.055500	.156690	.162931	.089352
21-27	.070421	.068446	.116384	.124509
28-36	.104925	.125797	.064055	.089622
37-47	.103268	.086380	.102072	.118746
48-60	.103565	.125937	.082013	.099963

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.981887	.862847	.736782	.089042
1	.841427	.918301	.522937	.092376
2	.660947	.894625	.603121	.172299
3	.618227	.866936	.689204	.397993
4	.664732	.836456	.727218	.616250
5	.717180	.829999	.500839	.628998
6	.632463	.819758	.265413	.438886
7	.357869	.758711	.216633	.172898
8	.300973	.691265	.401595	.086620
9-11	.326731	.702125	.289257	.258601
12-14	.134046	.624449	.255192	.180600
15-21	.265038	.424550	.209659	.292469
22-30	.270121	.345753	.256413	.313255

RUN NO 103B   46M   7-4-63   1637-1753(EST)

GROSS STATISTICS

1 CU   WIND SPEED   6.52 M/SEC   SIGMA A 11.5 DEG
TRANSITIONAL   WIND DIRECTION 296 DEG   SIGMA E 7.3 DEG
                     SOLAR RAD.   0.41 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.25019E 01	0.15272E 01	0.90243E 00	0.12173E 01
V	0.18385E 01	0.13436E 01	0.10087E 01	0.89547E 00
W	0.56498E 00	0.55528E 00	0.47231E-00	0.28706E-00
T	0.13201E-01	0.75029E-02	0.47594E-02	0.53601E-02
E	0.24527E 01	0.17130E 01	0.11916E 01	
GUSTINESS RATIOS				
U	0.24260	0.18954	0.14570	0.16922
V	0.20796	0.17778	0.15404	0.14514
W	0.11528	0.11429	0.10537	0.08217
COVARIANCES				
U,V	0.87066E-01	0.14509E-00	0.14640E-00	0.12427E-00
U,W	-0.43039E-00	-0.43173E-00	-0.27810E-00	-0.34388E-00
U,T	-0.90601E-01	-0.31426E-01	-0.17665E-01	-0.28038E-01
V,W	-0.71372E-01	-0.71347E-01	-0.60329E-01	-0.40708E-01
V,T	-0.74490E-01	-0.50550E-01	-0.32198E-01	-0.40896E-01
W,T	0.42692E-02	0.33536E-02	0.30583E-02	0.42243E-02
WE	0.11066E-00	0.18111E-00	0.98034E-01	
NORMALIZED COVARIANCES				
U,V	0.04060	0.10129	0.15344	0.11903
U,W	-0.36201	-0.46883	-0.42612	-0.58174
U,T	-0.49854	-0.29358	-0.26955	-0.34712
V,W	-0.07003	-0.08260	-0.08743	-0.08029
V,T	-0.47815	-0.50347	-0.46455	-0.59029
W,T	0.04943	0.05196	0.06453	0.10769

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.95419	0.65273	0.65555	0.69001	0.64299	0.47406
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.153291	-.425990	-.269348	-.087842	-.464615	.064265
1	.151012	-.395640	-.262287	-.079865	-.406744	.075312
2	.139937	-.342789	-.240738	-.064088	-.335514	.079993
3	.126526	-.288014	-.213887	-.053580	-.284534	.080153
4	.116023	-.236033	-.187842	-.038296	-.245647	.070399
5	.103137	-.190849	-.163292	-.022993	-.202068	.058216
6	.089247	-.153706	-.139152	-.017185	-.162276	.059186
7	.072088	-.121638	-.114820	-.005249	-.129996	.055583
8	.056777	-.089274	-.088127	.006398	-.094315	.040944
9	.045845	-.056929	-.062542	.018323	-.061823	.018522
10	.033286	-.029270	-.043243	.025918	-.028599	.001280
11	.017698	.000077	-.026383	.029057	.002568	-.011742
12	.006371	.027300	-.007815	.027125	.022724	-.017689
13	-.003410	.050100	.008365	.018351	.043463	-.018733
14	-.017622	.068579	.025665	.013855	.068016	-.022875
15	-.035431	.090992	.050049	.015547	.093041	-.032468
16	-.054820	.114640	.073284	.023085	.115246	-.051177
17	-.071664	.129156	.091290	.030719	.134670	-.069092
18	-.086041	.142678	.108354	.027835	.153463	-.076702
19	-.097446	.153992	.124691	.023573	.164972	-.072496
20	-.106167	.163207	.137511	.024940	.166107	-.063217
21	-.110737	.171384	.146043	.026155	.167934	-.061501
22	-.118032	.178654	.157352	.022707	.171325	-.062366
23	-.123603	.180447	.167782	.014238	.172483	-.058179
24	-.126335	.175481	.170583	.006196	.178302	-.053622
25	-.125428	.169439	.166801	.004183	.177104	-.051484
26	-.119070	.158113	.161638	.009250	.169795	-.051245
27	-.107537	.143573	.153986	.010822	.165178	-.050618
28	-.096801	.134220	.143368	.002896	.163281	-.044895
29	-.088301	.123985	.131591	-.005388	.152993	-.032691
30	-.082856	.111115	.121791	-.004834	.132999	-.027004
31	-.075194	.094770	.109533	.002145	.101288	-.023941
32	-.064043	.078029	.089644	.008236	.073710	-.019189
33	-.048631	.058802	.068630	.010665	.055783	-.019711
34	-.027945	.045521	.046936	.005200	.039636	-.007216
35	-.007245	.029807	.028627	-.004900	.016405	.008670
36	.007129	.016029	.017555	-.010655	-.008405	.021376
37	.017849	.008058	.003716	-.014147	-.030161	.030019
38	.025249	.004452	-.010796	-.010399	-.042139	.038131
39	.030888	-.001645	-.023081	-.011701	-.047733	.039987
40	.040323	-.009757	-.035678	-.009078	-.049333	.044570
41	.048679	-.024839	-.047613	-.006971	-.055161	.045695
42	.055611	-.041057	-.056206	-.002612	-.055420	.049896
43	.063083	-.050528	-.067395	.002008	-.053584	.052531
44	.074373	-.058947	-.076251	.000857	-.050521	.053461
45	.083333	-.072248	-.082745	.000202	-.046402	.061805
46	.090521	-.079876	-.088770	.001481	-.044271	.066210
47	.096728	-.081230	-.090069	.003491	-.041173	.056611
48	.105252	-.077634	-.092151	-.002677	-.031782	.047150
49	.106557	-.069614	-.092827	-.008305	-.030490	.040103
50	.101638	-.058224	-.089011	-.010865	-.028542	.035253
51	.092500	-.043584	-.088495	-.013325	-.022924	.033285
52	.079133	-.035069	-.081115	-.017025	-.018818	.027924
53	.062328	-.031071	-.070664	-.016459	-.020295	.017463
54	.047634	-.026658	-.060556	-.015791	-.017790	.006789
55	.037908	-.025604	-.053307	-.014195	-.009520	-.004187
56	.023688	-.023035	-.047189	-.006576	.000603	-.014233
57	.007946	-.024166	-.037525	.005673	.012393	-.024578
58	-.005421	-.021675	-.024860	.018040	.019219	-.031952
59	-.016250	-.014720	-.011243	.019375	.017268	-.027189
60	-.027248	-.012066	-.005985	.015327	.017948	-.020206

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.95419	0.65273	0.65555	0.69001	0.69299	0.47406
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.005777	-.036063	-.021531	-.010721	-.024406	.002409
2	-.007229	-.057848	-.039617	-.021828	-.047252	.013014
3	-.007677	-.067159	-.056635	-.030044	-.066456	.016315
4	-.011579	-.069054	-.070417	-.044385	-.078937	.010921
5	-.018259	-.070824	-.078447	-.050963	-.089490	.008914
6	-.026803	-.078188	-.084716	-.055442	-.088753	.012062
7	-.031276	-.084783	-.090028	-.058321	-.084702	.019611
8	-.033338	-.091017	-.091270	-.057153	-.086080	.019273
9	-.035710	-.093560	-.095229	-.055886	-.090407	.014070
10	-.034879	-.093867	-.098898	-.050403	-.087887	.003791
11	-.032241	-.088826	-.102090	-.048472	-.079044	.000236
12	-.034186	-.080340	-.102362	-.053828	-.070968	-.002280
13	-.037723	-.066131	-.096404	-.050313	-.068833	.002286
14	-.039950	-.050442	-.087015	-.040070	-.071242	.005655
15	-.040111	-.032521	-.074356	-.036839	-.071706	.011438
16	-.041202	-.013555	-.061014	-.037502	-.063639	.013721
17	-.038567	-.000392	-.048874	-.032919	-.057168	.018142
18	-.035131	.008674	-.034204	-.029033	-.046158	.017762
19	-.036278	.020489	-.018736	-.023302	-.032123	.017899
20	-.036617	.028205	-.002582	-.017142	-.018993	.018790
21	-.032850	.033118	.010442	-.009590	-.009746	.015183
22	-.027595	.043278	.014287	.002610	-.005142	.009064
23	-.023758	.050448	.019699	.015165	-.006566	.004314
24	-.021070	.050009	.024319	.032437	-.011006	.005540
25	-.017824	.044016	.026755	.040878	-.014721	.013353
26	-.011801	.035428	.027379	.039331	-.012841	.019623
27	-.006690	.032823	.025018	.032880	-.008377	.024930
28	.001157	.032045	.020174	.029268	.006219	.027624
29	.014264	.033824	.017593	.026622	.017834	.030089
30	.026879	.029614	.018956	.023702	.033663	.028651
31	.031426	.024860	.025430	.031207	.045630	.027481
32	.037780	.021514	.029649	.038574	.056608	.025666
33	.044117	.016282	.031152	.038432	.061223	.020205
34	.049261	.007247	.027672	.035475	.063084	.019459
35	.051039	.001511	.020167	.029678	.059503	.013260
36	.053244	-.005351	.014723	.031137	.062829	.010254
37	.055515	-.009693	.010229	.035909	.064644	.010107
38	.061856	-.016203	.001658	.036755	.061347	.008544
39	.071111	-.027205	-.007633	.035827	.055321	.005425
40	.074473	-.035481	-.016873	.028094	.042736	.003074
41	.065453	-.037693	-.021747	.017147	.027827	.005562
42	.053758	-.037365	-.026953	.007292	.014528	.005082
43	.041079	-.031644	-.028546	.000048	.005496	-.001071
44	.029927	-.024340	-.029516	-.003826	-.001153	-.007947
45	.020541	-.016887	-.031983	-.010231	-.004597	-.012122
46	.013626	-.012773	-.031014	-.010803	-.008180	-.013011
47	.005299	-.008496	-.028690	-.012507	-.010257	-.017193
48	.001292	-.001038	-.022635	-.022781	-.009616	-.027901
49	.000567	.001220	-.016823	-.031650	-.010798	-.030974
50	.002205	.006201	-.015365	-.032852	-.011070	-.024629
51	.005828	.007204	-.018083	-.029998	-.011459	-.019087
52	.002858	.007600	-.016674	-.032266	-.012849	-.023550
53	-.000761	.010872	-.021328	-.029060	-.016810	-.021283
54	-.002426	.015481	-.017753	-.022847	-.018666	-.017159
55	-.001905	.023521	-.012587	-.022912	-.016572	-.016150
56	.001549	.027152	-.006987	-.023392	-.015511	-.014827
57	.000094	.029124	-.000046	-.019333	-.019823	-.013820
58	-.010862	.026797	.013900	-.011237	-.021881	-.010177
59	-.023053	.026772	.023230	-.001477	-.017366	-.020103
60	-.027603	.031501	.028791	.007131	-.016025	-.021686

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NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.90263	0.10087	0.47202	0.47610
	10E 00	10E 01	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.886552	.840414	.782314	.785681
2	.743147	.649825	.527140	.585336
3	.618170	.512081	.345631	.461885
4	.509270	.400375	.218762	.377139
5	.413074	.299506	.124485	.293650
6	.323615	.213243	.064813	.222886
.	.237255	.141516	.020607	.161884
8	.167443	.078385	-.004305	.111606
9	.094684	.023160	-.024155	.069995
10	.026304	-.025687	-.045353	.029442
11	-.037475	-.067698	-.078291	-.008138
12	-.096748	-.097123	-.116356	-.036293
13	-.147858	-.129166	-.143075	-.071554
14	-.190172	-.165726	-.151805	-.099091
15	-.228829	-.199308	-.166550	-.137271
16	-.265524	-.217745	-.178411	-.167363
17	-.292692	-.228666	-.177861	-.198377
18	-.317788	-.244968	-.177214	-.218951
19	-.339482	-.257571	-.184788	-.241912
20	-.355561	-.259768	-.187415	-.263001
21	-.364888	-.262082	-.189485	-.282168
22	-.372520	-.272990	-.189418	-.281625
23	-.374661	-.282965	-.187729	-.282767
24	-.370418	-.287701	-.180017	-.286583
25	-.353812	-.286803	-.172309	-.277278
26	-.328677	-.277441	-.157882	-.263909
27	-.299057	-.266196	-.144510	-.251098
28	-.266138	-.245582	-.132758	-.234479
29	-.229752	-.210686	-.106048	-.217524
30	-.191161	-.168724	-.058259	-.192856
31	-.145532	-.116804	-.006465	-.149643
32	-.101993	-.073187	.023865	-.113528
33	-.059689	-.042430	.044552	-.086288
34	-.020529	-.015355	.050418	-.061909
35	.008962	.013482	.053402	-.030403
36	.028824	.041423	.045913	-.003544
37	.043639	.064268	.024774	.018550
38	.053218	.079400	-.003690	.023708
39	.062133	.087307	-.016863	.034331
40	.076116	.083830	-.016566	.044938
41	.091904	.076574	-.007798	.050003
42	.109291	.068418	-.003620	.045195
43	.118576	.058734	-.007660	.053232
44	.123980	.048213	-.002889	.056898
45	.122166	.034064	.001321	.057747
46	.116957	.019725	.004481	.057293
47	.112665	.007275	.016974	.058411
48	.110150	.000246	.028578	.047722
49	.102081	.002975	.030887	.048085
50	.090650	-.004266	.025798	.043524
51	.075416	-.018244	.023252	.045333
52	.060591	-.019090	.022754	.039568
53	.047010	-.010003	.017511	.038156
54	.033909	.001306	.011201	.027324
55	.022754	.009902	.014839	.018836
56	.011433	.012022	.011057	.022601
57	.001910	.015921	.019967	.017389
58	-.002529	.022621	.011810	.006143
59	-.004042	.028785	-.000824	.005077
60	-.007585	.025568	-.003345	.004304

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
0	.001726	-.033494	-.021731	-.003731	-.040213	-.000286
1	.254978	-.450393	-.356619	-.041799	-.494178	.042964
2	.521414	-.649726	-.551841	-.076082	-.705536	.127860
3	.505848	-.644212	-.504390	-.111084	-.715542	.161087
4	.126513	-.321546	-.161226	-.099085	-.340804	.064948
5	-.005103	-.148563	-.037226	-.069405	-.137814	.012697
6	.015442	-.109840	-.052378	-.050432	-.141832	.002431
7-8	.033840	-.094171	-.051496	-.034181	-.089420	-.009597
9-11	.017643	-.053489	-.022306	-.015026	-.064830	-.002111
12-15	-.001303	-.031078	-.004854	-.000607	-.031860	-.007355
16-2C	.005676	-.016058	-.007757	-.010542	-.028081	.003978
21-27	.003919	-.006134	-.001200	.000486	-.017523	-.007097
28-36	-.001422	-.004035	-.000404	-.001695	-.013464	-.000330
37-47	-.001002	-.001654	.000753	-.002060	-.005500	-.000969
48-6C	-.000405	-.001385	.000264	.001005	-.004833	-.001510

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-03
1	-.081353	-.054930	-.156390	-.039365	-.142007	.644876
2	-.201056	-.107849	-.190038	-.127537	-.235160	.272420
3	-.135238	-.213445	-.247673	-.174093	-.239250	-.038637
4	.027756	-.208341	-.167258	-.085861	-.102790	.069037
5	.011659	-.094337	-.053063	-.023169	-.062828	.151897
6	-.021378	-.028906	-.009119	-.009565	-.068948	.074584
7-8	.002824	.003007	.010566	-.015823	-.013175	.092962
9-11	.003894	-.010953	-.016900	-.000637	-.028128	.029579
12-15	.006812	-.019292	-.004171	-.000153	.000540	-.014583
16-20	-.004489	-.008626	.002530	.003879	-.000356	.052703
21-27	-.002492	-.002911	-.001027	.000060	.001808	-.016815
28-36	-.000433	-.000808	-.000144	-.001590	-.000917	-.022340
37-47	-.000913	-.000456	-.000796	.000035	.000932	-.010010
48-6C	.000358	.000200	-.000012	.001092	-.000985	.003388

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.010984	.008855	.026280	.056651
1	.124091	.113922	.343367	.598275
2	.183868	.166011	.515485	.797365
3	.200102	.184729	.636274	.799146
4	.110137	.110047	.484456	.424270
5	.049011	.057249	.290719	.211212
6	.039172	.058412	.247210	.208880
7-8	.031630	.042975	.245019	.185228
9-11	.016636	.025730	.169388	.124928
12-15	.011006	.015296	.123436	.076835
16-20	.006398	.010568	.065513	.057318
21-27	.004282	.006771	.047225	.044934
28-36	.002468	.004934	.028357	.031104
37-47	.001827	.002839	.017935	.020746
48-60	.001145	.001816	.011982	.015723

RUN NO 103B 46M   7-4-63 1637-1753(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10446	0.59150	0.80789	0.50749	0.69315	0.39248
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
0	.118961	-.581366	-.347058	-.080214	-.590006	.107631
1	.059537	-.325874	-.232681	-.017696	-.334554	.052164
2	-.022569	-.100305	-.086620	-.007701	-.131849	-.011413
3	-.042826	-.021602	-.026852	-.015202	-.038851	.000395
4	-.002750	-.013021	-.044432	.011914	-.051476	.049272
5	.052530	-.012489	-.044621	.014859	-.008900	.025893
6	-.005732	.047727	.037378	-.010761	.029209	-.016878
7	-.057186	.091906	.092580	.015928	.050393	-.028964
8	-.030645	.107277	.117007	-.007227	.085630	-.023053
9	-.027787	.114041	.134411	-.034474	.099703	-.017886
10	-.059052	.145467	.124056	.017818	.164296	-.015349
11	-.073986	.126225	.131403	.081389	.203791	-.041881
12	-.065146	.134092	.134662	.050309	.160413	-.047986
13	-.066953	.124302	.137185	.012605	.128038	-.043680
14	-.049585	.079584	.110214	.039669	.128345	-.078918
15	-.013752	.027545	.077091	.005365	.078676	-.023533
16	-.007149	.051277	.050693	.029239	.023243	-.066337
17	.006963	.022598	.040408	.026403	.003525	-.041679
18	.055940	-.023817	-.049628	-.002243	-.068590	.018690
19	.057186	-.078515	-.141021	-.023767	-.083620	.061827
20	.045221	-.059522	-.157419	.016040	-.112764	.043651
21	.109154	-.057965	-.176129	.048748	-.103178	.078630
22	.117932	-.058648	-.179397	.028594	-.132951	.055416
23	.114504	-.113884	-.167218	-.073406	-.137856	.086215
24	.072478	-.060447	-.097831	-.034220	-.047253	.061511
25	.067176	.056714	-.044887	-.072375	.071093	.024247
26	.064955	.033342	-.004011	-.082862	.113481	.009341
27	.032964	.022140	.054367	-.085518	.102029	.026225
28	.064299	.024705	.021164	-.091403	.066193	-.013700
29	.007901	.055259	.065349	-.024767	.048036	-.041425
30	-.060770	.027532	.097369	.019195	.056875	-.037542

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-03
0	-.033277	-.017471	.004114	.104507	-.044313	-.036100
1	-.127434	-.238095	-.119679	-.121040	-.345624	.128345
2	.152482	-.414914	-.481080	-.639548	-.552992	.749060
3	.278071	-.517565	-.653809	-.448563	-.678918	.785059
4	.036446	-.317399	-.249271	-.029038	-.329035	-.021176
5	-.031917	-.184803	-.106322	.018396	-.139634	.030273
6	.030479	-.180850	-.155846	-.143392	-.205433	.283524
7	.060493	-.169872	-.069224	-.533576	-.219153	.032067
8	.086364	-.177042	-.079749	-.414765	-.235481	-.055129
9-11	.109384	-.161899	-.141243	.064311	-.172490	.159158
12-14	.157545	-.143863	-.137158	-.263207	-.154936	.460184
15-21	-.002737	-.066924	-.026233	-.178851	-.078188	.139698
22-30	.014183	-.043923	-.020801	-.122217	-.055521	.014357

RUN NC 103B   46M   7-4-63   1637-1753(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10446	0.59150	0.80789	0.50749	0.69315	0.39248
	10E 01	10E 00	10E-01	10E 00	10E-01	10E-01
1	-.020265	-.060611	-.097435	-.037961	-.094832	.062100
2	.016939	.024578	-.089780	.014127	-.077896	.087811
3	.074248	.027071	-.102245	.054913	-.042721	.113623
4	.080035	.006998	-.096971	.033900	-.032037	.089471
5	.032139	.025911	-.065603	-.000044	-.047836	.038005
6	.020660	.040487	-.038701	-.005238	-.053589	.028363
7	.023264	.012330	-.032769	.034480	-.024444	.046401
8	-.013488	-.011934	-.025223	-.036066	-.023836	.011610
9	.024345	.007709	-.059515	-.029247	-.007681	.030292
10	.109979	.027750	-.098068	.114997	.024507	.067515
11	.123603	.005300	-.107730	.116937	.059882	.066112
12	.040459	-.023520	-.074340	.025870	.008869	.049440
13	.034419	-.011164	-.049820	.026310	.011266	-.000943
14	.030852	.016762	-.050477	-.000310	.023721	.043098
15	-.007870	-.002058	-.010142	.020670	.036870	.065162
16	-.035420	-.021032	.022968	.002530	.020599	.043879
17	-.054905	-.030244	.085217	-.025844	.019647	-.035287
18	-.053567	-.043774	.137295	.021149	.022849	-.069756
19	-.075096	-.018348	.104776	-.043968	.002618	-.055744
20	-.052727	-.011975	.097415	-.038756	-.023521	-.043644
21	-.023863	-.027944	.067672	-.026208	.022333	-.068849
22	-.010998	-.006427	.050462	-.056060	.039978	-.052850
23	-.006198	-.014643	.025093	-.057594	.067866	-.065302
24	-.039406	-.006550	.008711	-.059694	.028372	-.054653
25	-.010644	.014450	-.043543	-.029793	.015493	-.029847
26	.017776	.019586	-.061187	-.011949	-.005094	-.015192
27	-.000383	.032645	-.048937	-.005805	.003279	-.020510
28	-.099347	.034214	-.009196	-.077018	-.053350	.001732
29	-.086664	.056300	-.004426	-.071323	-.063290	-.019777
30	-.036042	.014512	-.023258	-.052230	-.050917	-.006722

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02
1	.243519	.047915	-.271803	.850262	-.001292	.121542
2	.275105	.474580	-.344362	.765861	-.093155	.126239
3	.117816	.478082	-.193772	-.025745	-.147605	.065121
4	-.068958	.087810	.011283	-.350248	-.136812	.035899
5	.037246	.069158	-.130626	.127284	-.081378	.078371
6	.179976	.014640	-.227605	.507903	-.034273	.074641
7	.126158	-.180542	-.136650	.609173	-.036208	.048671
8	.002288	-.237302	-.074754	.145000	-.027434	.044081
9-11	-.121374	-.282789	-.008364	-.495995	-.072713	.004407
12-14	-.014962	-.015776	-.044501	.004906	-.044218	.007566
15-21	-.028917	-.519019	-.029671	-.249314	-.026325	.001189
22-30	-.003093	-.163276	-.017103	-.082160	-.004732	.002310

RUN NC 103B   46M   7-4-63   1637-1753(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12175	0.89626	0.28735	0.53606
	10E 01	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.580834	.443882	.257347	.566684
2	.271125	.10431k	.010582	.263424
3	.156256	.005787	.012225	.112096
4	.112663	.022292	-.073315	.065342
5	.044762	-.020917	-.077572	-.015710
6	-.089802	-.015506	-.030435	-.087349
7	-.185762	-.028083	-.075432	-.157771
8	-.227195	-.094450	-.050546	-.200698
9	-.256987	-.125213	-.121981	-.211294
10	-.264657	-.167157	-.172743	-.248976
11	-.250073	-.171619	-.144753	-.232337
12	-.264159	-.154930	-.117621	-.209573
13	-.249644	-.144006	-.114226	-.199160
14	-.179658	-.138121	-.073445	-.148513
15	-.124496	-.081510	.003610	-.144575
16	-.120729	.061914	.032248	-.099427
17	-.096880	.018793	.051848	-.063386
18	-.015752	-.003190	.045152	.070943
19	.091531	-.008977	.105054	.146851
20	.107527	-.008683	.020221	.183903
21	.117835	-.002706	.001740	.175713
22	.124984	.032335	.005916	.172080
23	.153758	.093897	.038703	.146195
24	.071041	-.006531	.007400	.041340
25	-.054015	-.101369	.002656	-.046552
26	-.046659	-.107200	-.008108	-.115563
27	-.045144	.013306	.056259	-.152580
28	-.003003	-.017593	-.009796	-.100348
29	.005463	-.048503	-.070281	-.076325
30	.036220	-.054288	-.020970	-.089635

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.007062	.095334	.007933	.051445
1	.115523	.720930	.098473	.450666
2	.184560	.867994	.179018	.712899
3	.208828	.970323	.255535	.878762
4	.120263	.652017	.192368	.513028
5	.067566	.379343	.108725	.311479
6	.057286	.405260	.122169	.320576
7	.040280	.532222	.166156	.221869
8	.041506	.548425	.163253	.210527
9-11	.043657	.447798	.128917	.208769
12-14	.043436	.316777	.098043	.172347
15-21	.023440	.255170	.116643	.104379
22-3C	.017874	.183222	.098672	.083015

GROSS STATISTICS

1 CU	WIND SPEED	7.64 M/SEC	SIGMA A 8.90 DEG
TRANSITIONAL	WIND DIRECTION	294 DEG	SIGMA E 5.9 DEG
	SOLAR RAD.	0.41 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
L	0.22668E 01	0.11329E 01	0.56177E 00	0.91262E 00
V	0.14933E 01	0.11581E 01	0.85150E 00	0.82237E 00
W	0.57839E 00	0.55563E 00	0.44764E-00	0.29561E-00
T	0.18574E-01	0.86029E-02	0.44757E-02	0.66193E-02
E	0.21693E 01	0.14235E 01	0.93051E 00	
GUSTINESS RATIOS				
L	0.19707	0.13931	0.09810	0.12504
V	0.15995	0.14086	0.12079	0.11870
W	0.09954	0.09757	0.08757	0.07117
COVARIANCES				
L,V	0.32042E-00	0.18962E-00	0.93249E-01	0.16922E-00
U,W	-0.31335E-00	-0.31450E-00	-0.13810E-00	-0.26439E-00
U,T	-0.11981E-00	-0.31610E-01	-0.67076E-02	-0.29186E-01
V,W	-0.58029E-01	-0.68607E-01	-0.21655E-01	-0.56126E-01
V,T	-0.78253E-01	-0.37994E-01	-0.21449E-01	-0.32736E-01
W,T	-0.95991E-03	0.15497E-02	-0.48510E-02	0.42003E-02
WE	0.10991E-00	0.45834E-01	0.42506E-01	
NORMALIZED COVARIANCES				
L,V	0.17416	0.16555	0.13482	0.19533
L,W	-0.27366	-0.39641	-0.27538	-0.50903
L,T	-0.58390	-0.32020	-0.13377	-0.37551
V,W	-0.06244	-0.08553	-0.03507	-0.11383
V,T	-0.46987	-0.38064	-0.34742	-0.44370
W,T	-0.00926	0.02242	-0.10838	0.09495

NORMALIZED COSPECTRUM / VARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.69159	0.50149	0.50147	0.61735	0.61734	0.44765
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
0	.134777	-.275359	-.133437	-.035105	-.347047	-.108362
1	.130074	-.260164	-.123774	-.034461	-.321325	-.088330
2	.119385	-.225505	-.109216	-.032272	-.288151	-.057572
3	.109666	-.189746	-.092626	-.025009	-.257279	-.036508
4	.095346	-.155156	-.080767	-.013845	-.227498	-.022004
5	.074974	-.121193	-.071914	.001534	-.202791	-.009265
6	.054649	-.094588	-.063342	.020305	-.177190	.003001
7	.035155	-.072968	-.055236	.032107	-.155937	.009349
8	.018032	-.054315	-.045825	.037527	-.134517	.015264
9	.003881	-.038667	-.035806	.036221	-.109407	.020803
10	-.010771	-.018983	-.028607	.026685	-.081323	.021361
11	-.026478	-.002624	-.018843	.015849	-.053818	.014240
12	-.035772	.005673	-.005234	.005148	-.023484	.010321
13	-.042150	.010952	.012655	-.000372	.004255	.011093
14	-.045770	.016709	.031388	.000105	.024682	.013011
15	-.047764	.022284	.043042	.000442	.048107	.016720
16	-.054060	.028041	.054197	.002525	.073726	.020300
17	-.058559	.040592	.060825	.002930	.097791	.017676
18	-.060107	.046046	.064189	.001742	.116864	.015826
19	-.060774	.053252	.068112	.000211	.127619	.019061
20	-.060737	.060659	.070697	.001245	.137169	.022116
21	-.063006	.072694	.067896	-.001388	.147880	.027357
22	-.063857	.085385	.065851	-.004781	.160443	.026337
23	-.066441	.094161	.066099	-.006023	.171681	.019782
24	-.063886	.098633	.064052	-.006931	.176833	.020560
25	-.059385	.105508	.058252	-.006689	.179257	.020606
26	-.052319	.113629	.051186	-.003572	.173826	.014520
27	-.047429	.117164	.048463	.003195	.162363	.001599
28	-.043041	.118610	.045409	.006780	.145403	-.009234
29	-.039439	.113606	.041338	.014637	.128817	-.017665
30	-.033842	.108987	.032596	.020384	.109684	-.026853
31	-.028022	.106007	.022227	.018210	.092146	-.033359
32	-.018894	.100160	.010644	.011562	.075227	-.030362
33	-.006701	.088382	-.001393	.005725	.060877	-.020552
34	.005568	.076716	-.014746	.003168	.049075	-.010125
35	.017777	.070864	-.027133	.000494	.034624	-.005379
36	.028804	.061996	-.033137	-.005947	.026300	-.000750
37	.041541	.047813	-.039529	-.015080	.024677	.002346
38	.054758	.026945	-.047877	-.025150	.021130	.005779
39	.063877	.008068	-.056361	-.029641	.015155	.012013
40	.066935	-.007532	-.060043	-.026429	.005587	.016725
41	.068824	-.018160	-.061758	-.020942	-.000161	.020074
42	.064664	-.024558	-.065011	-.015015	-.005855	.026185
43	.054098	-.031631	-.063414	-.011039	-.011172	.033424
44	.042339	-.041132	-.062367	-.009093	-.012892	.037117
45	.031992	-.046279	-.055371	-.009011	-.016880	.038205
46	.025954	-.048247	-.046040	-.010113	-.017894	.040288
47	.024917	-.047895	-.038471	-.006883	-.016018	.037858
48	.027953	-.047339	-.031770	-.004974	-.011988	.033089
49	.026732	-.047362	-.025444	-.006934	-.007102	.023062
50	.022600	-.044253	-.018480	-.009841	-.003814	.011285
51	.018799	-.044104	-.009551	-.013717	.000617	.000702
52	.013716	-.047257	-.000465	-.021967	.005720	-.003481
53	.009262	-.049987	.011245	-.031573	.013384	-.002887
54	.001065	-.046911	.023203	-.034211	.019814	-.003677
55	-.007190	-.041251	.031596	-.043471	.018723	-.004691
56	-.014706	-.035697	.043238	-.042302	.013328	-.007186
57	-.018944	-.036232	.054451	-.035405	.006168	-.013538
58	-.020417	-.042052	.063765	-.027911	-.001965	-.015902
59	-.025352	-.044879	.066592	-.018565	-.008924	-.011540
60	-.029151	-.048239	.061716	-.005830	-.015998	-.011425

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.69159	0.50149	0.50147	0.61735	0.61734	0.44765
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.015661	-.029720	-.028678	.000100	-.021056	.017757
2	.025781	-.054496	-.047737	-.000035	-.038103	.037612
3	.036129	-.074900	-.063511	-.002601	-.050524	.053464
4	.041180	-.092565	-.071765	-.007089	-.059700	.057194
5	.045484	-.095504	-.078527	-.013686	-.068007	.054869
6	.051536	-.093101	-.085479	-.018840	-.073939	.046186
7	.056312	-.089293	-.092153	-.017728	-.078580	.043131
8	.057291	-.086737	-.097410	-.013944	-.080338	.046664
9	.060337	-.085101	-.100072	-.008497	-.079648	.049685
10	.061765	-.080167	-.100879	-.004393	-.081004	.056287
11	.056263	-.074302	-.103828	-.001486	-.084790	.061120
12	.047047	-.068300	-.099712	-.000028	-.090693	.064221
13	.040905	-.065830	-.093362	.001330	-.095975	.063611
14	.039483	-.059309	-.089630	.010151	-.099233	.064379
15	.035618	-.054787	-.091145	.018650	-.105021	.052652
16	.036188	-.045474	-.095350	.033525	-.105172	.053667
17	.043558	-.032979	-.096453	.044868	-.097397	.043361
18	.046385	-.020206	-.090572	.052878	-.089861	.034707
19	.044080	-.009907	-.083398	.059359	-.084756	.026344
20	.040084	-.004201	-.078533	.061262	-.081531	.020658
21	.032138	.003386	-.070839	.063959	-.079948	.020516
22	.024954	.011822	-.065884	.065377	-.081126	.021026
23	.020486	.021155	-.060638	.065767	-.080298	.023034
24	.014307	.030066	-.053883	.063151	-.075526	.026273
25	.010332	.040207	-.046185	.056866	-.065385	.028008
26	.001784	.047648	-.036732	.047815	-.054529	.024419
27	-.006653	.048414	-.025332	.033464	-.039257	.015713
28	-.011661	.044458	-.013145	.018957	-.023743	.006319
29	-.014687	.044477	-.000929	.005886	-.007351	-.001060
30	-.021126	.040607	.013309	-.007281	.007681	-.004669
31	-.024178	.038848	.026416	-.011435	.020772	-.003723
32	-.025767	.038811	.036482	-.009145	.031957	-.003495
33	-.026434	.041130	.042485	-.006817	.040955	-.007448
34	-.030695	.033274	.046205	-.008226	.051317	-.011673
35	-.033156	.021098	.053756	-.015699	.060688	-.011222
36	-.031725	.013009	.059111	-.025179	.065633	-.011167
37	-.028085	.010708	.057199	-.031049	.067025	-.008803
38	-.024831	.007156	.053949	-.035162	.068414	-.004757
39	-.021229	.003597	.048816	-.041383	.065647	-.003918
40	-.016846	-.001117	.045195	-.049676	.058063	-.011339
41	-.010573	-.004573	.043750	-.057218	.052128	-.024111
42	-.006612	-.004397	.041008	-.060702	.044055	-.034451
43	-.008990	-.002727	.039714	-.064674	.030252	-.038549
44	-.013316	-.004540	.040080	-.069153	.017746	-.040954
45	-.017329	-.004915	.036862	-.067082	.007627	-.036370
46	-.019408	-.004491	.033059	-.061165	-.001810	-.032316
47	-.019823	-.000398	.032958	-.051062	-.004453	-.034764
48	-.015138	.004691	.033369	-.034357	-.005035	-.039883
49	-.009179	.009970	.029251	-.014713	-.007235	-.039917
50	-.005632	.012674	.021238	.002980	-.007749	-.032842
51	-.005329	.013985	.014283	.019078	-.005303	-.024452
52	-.002911	.019257	.000971	.025327	-.002608	-.016135
53	.000395	.024761	-.007421	.026566	.000275	-.007573
54	.000769	.032301	-.013242	.027785	.002307	-.003045
55	.006156	.037173	-.015673	.034269	-.000875	.002524
56	.018137	.039666	-.020824	.043029	-.006962	.018648
57	.024477	.040683	-.026657	.046442	-.011260	.036714
58	.032846	.042452	-.031707	.047460	-.012203	.050042
59	.041839	.042587	-.035918	.046061	-.010303	.054911
60	.046907	.038127	-.039751	.037365	-.004131	.050521

RUN NC 103B 91M 7-4-63 1637-1753(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.56178	0.85139	0.44766	0.44763
	10E 00	10E 00	10E 00	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.868438	.882742	.805180	.849326
2	.707564	.723395	.553378	.680824
3	.577087	.591683	.368846	.555835
4	.467357	.481788	.242988	.450810
5	.366007	.384219	.151106	.367228
6	.276075	.304184	.080394	.286306
7	.201453	.234760	.022467	.218222
8	.139774	.165999	-.030926	.157428
9	.083553	.102502	-.076784	.102546
10	.026512	.048029	-.111376	.060270
11	-.022086	.003196	-.129823	.015170
12	-.068043	-.038199	-.131477	-.036099
13	-.115923	-.077982	-.123433	-.076626
14	-.155863	-.116515	-.119181	-.112922
15	-.191248	-.155754	-.126912	-.145497
16	-.221858	-.197381	-.134428	-.177518
17	-.255233	-.243643	-.131594	-.204504
18	-.282056	-.283541	-.128877	-.219476
19	-.300138	-.316081	-.142334	-.224516
20	-.312936	-.343519	-.164063	-.230672
21	-.323594	-.361801	-.179668	-.243863
22	-.327132	-.372009	-.181917	-.249604
23	-.325457	-.372576	-.185298	-.254982
24	-.320317	-.365959	-.187081	-.259918
25	-.304180	-.354885	-.179419	-.257292
26	-.277850	-.341245	-.164785	-.252488
27	-.254748	-.317733	-.149810	-.240231
28	-.234788	-.289738	-.137991	-.223275
29	-.206982	-.260593	-.125333	-.204584
30	-.167946	-.223405	-.105429	-.179552
31	-.125445	-.180451	-.081084	-.150600
32	-.087532	-.142161	-.066727	-.120249
33	-.055546	-.110010	-.050599	-.091091
34	-.028035	-.090289	-.026406	-.061359
35	-.001569	-.075853	-.010856	-.034306
36	.017934	-.063095	-.000789	-.024175
37	.031701	-.052509	.006458	-.034627
38	.048476	-.037309	.009190	-.042650
39	.061572	-.018500	.007159	-.039401
40	.068054	.002395	.010979	-.029717
41	.068393	.019586	.015041	-.024211
42	.072768	.035605	.015518	-.020734
43	.072705	.050470	.011651	-.017494
44	.074470	.061524	.016433	-.011676
45	.078584	.071208	.013874	-.002100
46	.076358	.078136	.008247	-.007135
47	.072988	.079253	.005296	-.019621
48	.068686	.074833	.007679	-.023415
49	.061665	.073741	.019395	-.016639
50	.048209	.070169	.035168	-.010847
51	.037944	.059135	.051425	-.011435
52	.032159	.051233	.067139	-.014479
53	.029687	.047226	.063782	-.011454
54	.019571	.042149	.054611	-.003914
55	.008902	.036317	.045118	.008888
56	.004576	.034205	.038875	.013142
57	.003374	.040513	.041307	.003868
58	.002927	.046862	.050927	-.002004
59	.002109	.048943	.063300	.000538
60	.007592	.048095	.072809	.004300

61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10F-02	10E-03
0	.008162	-.027519	-.021545	.022674	-.055720	.000358
1	.092109	-.284615	-.104841	.181165	-.524861	-.283424
2	.211046	-.341377	-.162664	-.052152	-.607208	-.349477
3	.284998	-.262582	-.202578	-.211585	-.523602	-.568081
4	.149559	-.097668	-.083402	-.194205	-.206973	-.689904
5	.066572	-.086660	-.009567	-.407285	-.036226	-.313741
6	.072961	-.099148	-.010275	-.602681	-.034079	-.193651
7-8	.026231	-.058679	-.001025	-.341224	-.046261	-.421515
9-11	.004161	-.024879	-.016306	-.248457	-.024732	.183357
12-15	.001580	-.015093	-.007770	.100784	-.019094	-.092078
16-2C	-.000910	-.006256	-.003572	.040173	-.010248	-.086047
21-27	.001794	-.002028	-.002074	-.000327	-.005895	-.043040
28-36	.001271	-.001745	-.000607	.000540	-.003778	-.031985
37-47	.000351	-.000484	-.000431	.001404	-.002656	-.007261
48-6C	-.000186	.000141	-.000713	-.002515	-.001875	-.005065

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10F-02	10E-01	10E-02	10E-02
1	.124505	-.056299	-.223417	.095205	-.292954	.112022
2	.164387	-.124953	-.245496	.090153	-.295894	.116043
3	.142012	-.179614	-.169088	-.029390	-.181155	.081984
4	.051643	-.130351	-.039954	-.107439	-.003378	.042279
5	.019016	-.050370	-.021714	-.045868	-.004414	.025214
6	.032803	-.029380	-.036833	.000119	-.045180	.010571
7-8	.022745	-.030032	-.017010	.021258	-.012224	.005830
9-11	-.005728	-.017048	-.007176	-.002223	-.017486	.020179
12-15	.006806	-.003941	-.005859	.006105	.002728	.006432
16-2C	.001327	-.000305	-.002508	.001505	-.003501	.000264
21-27	.001207	.001459	-.001720	-.001097	-.001375	-.002612
28-36	-.000727	-.001187	-.000208	-.000049	.000126	-.000291
37-47	.001369	-.000437	-.000762	.000098	.000148	-.000653
48-60	.000583	.000471	-.000465	-.000315	-.000214	.000325

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.008571	.009643	.024327	.096318
1	.077879	.132194	.357705	.746969
2	.105152	.178545	.518664	.820625
3	.112582	.171907	.581449	.776078
4	.064245	.088459	.425670	.462710
5	.030144	.040190	.316749	.247545
6	.025038	.033575	.310441	.204223
7-8	.021430	.034866	.261837	.157406
9-11	.013190	.019391	.140077	.104654
12-15	.007618	.010745	.097997	.061878
16-2C	.004328	.007284	.072718	.041330
21-27	.003098	.004028	.039830	.029700
28-36	.002047	.002780	.023362	.018168
37-47	.001277	.001507	.013575	.013169
48-6C	.000881	.000978	.008900	.008332

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.86602	0.51907	0.77709	0.49275	0.73768	0.44214
	10E 00	10E 00	10E-01	10E 00	10E 01	10E-01
0	.195393	-.509356	-.375578	-.113905	-.443770	.094999
1	.112466	-.354189	-.322203	-.062516	-.306270	.145469
2	.061632	-.224811	-.242128	-.080334	-.087399	.152016
3	.059434	-.075057	¬.203324	-.084031	.002940	.083560
4	.058153	-.071168	-.160942	-.045919	.013484	.073679
5	.010896	-.037534	-.059492	-.017304	.043550	.032477
6	¬.032560	.016563	.045731	.003039	.057179	-.044420
7	-.055928	.107587	.098514	.102992	.024565	-.090466
8	-.046523	.174200	.117448	.095152	.046851	-.090280
9	-.039428	.146722	.146090	.036044	.076412	-.079369
10	-.018286	.079922	.150933	-.005929	.055731	-.082563
11	-.040560	.092721	.136150	.030764	.026038	-.054374
12	-.108310	.161823	.183838	.083537	.030506	-.105802
13	-.116425	.181613	.178934	.073846	.015116	-.094779
14	-.063439	.181172	.169097	.052539	.022558	-.084160
15	-.019546	.128716	.118800	.037749	.045173	-.060032
16	-.044781	.070210	.109501	.059159	.053333	-.056781
17	-.025382	.049604	.083689	-.018519	.059222	-.022315
18	.020299	.026821	.022337	-.034830	.028610	-.002477
19	.077079	-.024422	-.036193	-.046593	-.007993	.067316
20	.075658	-.057765	-.063093	-.070830	-.004393	.082545
21	.051490	-.071012	-.087253	-.065929	.032402	.068297
22	.041628	-.042386	-.085480	.004269	-.000593	.084954
23	.002831	-.018341	-.071482	.030695	-.014154	.073169
24	-.046783	-.020833	-.032134	.027131	.002706	.060414
25	.013730	-.033276	.017107	-.023668	.001711	.032139
26	.014832	-.024116	.043667	-.027604	.041224	-.012496
27	.006784	-.001572	.037342	-.049179	.084155	-.062618
28	-.042395	-.033739	.038959	.026832	.049728	-.032130
29	-.044182	-.026597	.044806	.030554	.040946	-.029797
30	-.003832	-.027869	.026305	-.012229	-.016390	-.025935

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
0	.014793	-.021088	-.047254	-.001688	-.048399	.001936
1	.184974	-.338039	-.579813	-.070797	-.338068	.097303
2	.309995	-.493491	-.804201	-.142554	-.351461	.208702
3	.351718	-.503016	-.792086	-.175212	-.372688	.243572
4	.137916	-.269353	-.350059	-.082920	-.334945	.101557
5	.048348	-.168407	-.155948	-.026959	-.316264	.043054
6	.123857	-.174585	-.139016	-.042684	-.268662	.036138
7	.075928	-.107943	-.027180	.010021	-.202886	-.018523
8	-.009276	-.040602	.017845	.075248	-.199200	-.044274
9-11	-.003574	-.108123	-.005689	.021502	-.178962	-.021348
12-14	.085545	-.070565	-.047733	-.030287	-.094760	.002653
15-21	.042877	-.009162	-.024020	-.008119	-.051493	-.026661
22-3C	.024473	-.035808	-.006289	-.015673	-.005283	-.004600

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.86602	0.51907	0.77709	0.49275	0.7376R	0.44214
	10E 00	10E 00	10E-01	10E 00	10E-01	10E-01
1	.074324	-.059204	-.121162	.024684	-.113631	.100337
2	.078995	.008162	-.175877	.097655	-.164076	.117213
3	.063846	.031996	-.170944	.056215	-.102328	.132117
4	.058727	.024078	-.148388	-.016058	-.038401	.135831
5	.042164	.028357	-.155266	.028169	-.032254	.124403
6	.068871	.024004	-.162704	.032577	.008132	.124951
7	.052775	-.025365	-.130832	-.009721	.047556	.074832
8	.039346	-.016499	-.099884	-.021131	.040879	.032013
9	.061239	.038108	-.095047	.005422	.018003	.039755
10	.085604	.060330	-.086615	-.013529	.039172	.018798
11	.081143	.054087	-.063383	.022735	.044446	.006239
12	.023867	.029952	-.039780	.037513	.009074	.015856
13	.015143	.020906	-.020581	.052032	-.003919	.015314
14	-.029344	.012781	.017188	.018011	.015937	.026785
15	-.041506	.036382	.029952	-.024759	.023218	.030856
16	-.047993	.021247	.037153	-.091180	-.019982	-.017946
17	-.061306	.015496	.060545	-.043786	-.041502	-.054563
18	-.107370	-.006275	.080266	-.048439	-.050384	-.043337
19	-.086467	.022275	.076671	-.012222	-.011148	-.017562
20	-.023801	.020831	.039471	.029792	.024267	-.005803
21	.016760	-.036345	.042627	.034367	.040231	.013187
22	-.000157	-.053610	.029487	.044199	.025631	-.002074
23	-.005532	-.052702	.045290	.023659	.008688	-.071492
24	.002055	-.069898	.059021	-.030830	.022961	-.090724
25	.004858	-.067730	.048869	-.061980	.019874	-.121115
26	.005147	-.024128	.030751	-.038448	.008086	-.088005
27	.029136	-.044993	.026469	.015053	-.027453	-.076332
28	.040367	-.055980	.026520	-.025969	-.018634	-.059441
29	.002452	-.004731	.011072	.008119	-.014991	-.009885
30	-.000191	.000312	.008343	.040563	.019970	.017211

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02
1	.194636	.963592	-.433068	.239061	.010807	.164855
2	.293081	.590765	-.530651	.455394	-.026104	.191270
3	.242914	-.122938	-.461206	.514392	-.099504	.175991
4	.016823	-.120619	-.233929	.233129	-.209522	.143519
5	.003850	.085551	-.147300	.373914	-.232486	.108093
6	.121214	.152337	-.145409	.996828	-.174163	.079006
7	.116064	.288316	-.111662	.613915	-.168731	.029189
8	.068036	-.040918	-.071961	-.130437	-.148941	-.007131
9-11	.030221	-.574523	-.061474	.381907	-.084513	.018591
12-14	.062620	-.090681	-.057695	.231389	-.043451	.027609
15-21	.013346	-.349254	.001083	-.350851	.002350	.009459
22-30	.000392	-.080576	-.003095	.023468	.002784	.004564

RUN NC 103B   91M   7-4-63   1637-1753(EST)
301 PCINT RUNNING MEAN, 1O POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.91229	0.82210	0.29534	0.66192
	1OE 00	1OE 00	1OE 00	1OE-02
0	1.000000	1.000000	1.000000	1.000000
1	.656630	.468194	.332716	.669614
2	.384061	.008855	.085901	.364581
3	.284285	-.104785	.030216	.206013
4	.195876	-.076159	-.004469	.074057
5	.050881	-.039656	-.011582	-.042089
6	-.065596	-.021614	.043689	-.086794
7	-.159988	-.014777	-.142229	-.138966
8	-.251786	-.018685	-.215422	-.176486
9	-.262732	-.133475	-.177442	-.198076
10	-.201622	-.144407	-.109025	-.208000
11	-.206888	-.072095	-.150087	-.170107
12	-.283552	-.057818	-.126193	-.160503
13	-.320366	-.116847	-.142942	-.148447
14	-.290027	-.151127	-.200367	-.122244
15	-.208684	-.120291	-.046799	-.120774
16	-.141305	-.074162	-.021382	-.146302
17	-.144384	-.046692	.017638	-.140268
18	-.089508	-.060373	.019163	-.149401
19	.009628	-.063524	.003165	-.152273
20	.069452	-.013872	.083952	-.105360
21	.063749	-.013917	.130034	-.053703
22	.057995	.004900	-.006799	-.035216
23	.051274	.061552	-.016880	-.010587
24	.034627	.073992	.015614	-.007073
25	.005213	.100115	.027222	-.046130
26	-.012539	.063290	.068221	-.023521
27	-.020232	.066577	.099485	.009363
28	-.017592	.035374	.002681	.045868
29	.003119	.035266	-.032509	.066793
30	.038483	.029218	.062943	.062973

POWER SPECTRUM

K	U	V	W	T
	1OE 00	1OE-01	1OE-01	1OE-02
0	.011850	.035120	.009239	.008654
1	.132886	.513683	.158626	.093353
2	.170287	.689496	.266109	.103863
3	.165259	.660454	.322985	.097106
4	.090737	.480943	.213956	.075556
5	.055048	.486189	.127937	.058180
6	.048564	.515767	.127503	.038310
7	.029302	.552875	.119297	.028404
8	.015442	.559823	.101977	.028813
9-11	.023692	.556440	.154423	.020809
12-14	.021968	.307343	.109232	.013116
15-21	.017361	.226406	.097755	.011232
22-3C	.009526	.123916	.086241	.005725

```
RUN NO   103B   46M    7-4-63    1637-1753(EST)
RUN NO   103B   91M    7-4-63    1637-1753(EST)
   61 POINT RUNNING MEAN, NO BLOCK AVERAGING
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COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.688876	.394474	.586939	.494327
1	.482766	.652557	.455972	.386436
2	.391983	.559609	.447343	.373889
3	.355648	.477006	.469797	.391873
4	.248699	.397404	.438182	.300140
5	.099908	.327775	.329295	.155359
6	.103809	.275841	.336636	.101333
7-8	.142348	.236918	.301754	.059568
9-11	.097904	.223578	.284502	.166028
12-15	.084808	.157170	.118394	.117373
16-20	.111873	.084896	.064485	.073144
21-27	.059647	.103228	.066036	.131772
28-36	.085758	.086750	.115838	.087791
37-47	.103809	.087607	.098308	.142342
48-60	.064646	.109202	.118979	.090245

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.853470	.747481	.924513	.782705
1	.805468	.764826	.674715	.785122
2	.766720	.766733	.634697	.698707
3	.721192	.727423	.633970	.607649
4	.673319	.662183	.672056	.573847
5	.688810	.600045	.686796	.646266
6	.668846	.498976	.503386	.490364
7	.523940	.564933	.507040	.388430
8	.376429	.728349	.488799	.586919
9-11	.447411	.710166	.409740	.385621
12-14	.343390	.350016	.412403	.416274
15-21	.384513	.429111	.498444	.370216
22-30	.259330	.279123	.299610	.290069

GROSS STATISTICS

5AS CS   WIND SPEED   5.94 M/SEC   SIGMA A 4.80 DEG
VERY STABLE   WIND DIRECTION 252 DEG   SIGMA E 1.6 DEG
                        SOLAR RAD.   0 LY/MIN

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.29818E-00	0.11130E-00	0.94279E-01	0.52102E-01
V	0.23152E-00	0.80527E-01	0.69908E-01	0.27752E-01
W	0.28263E-01	0.27144E-01	0.26405E-01	0.63736E-02
T	0.13542E-00	0.18647E-01	0.12627E-01	0.12115E-01
E	0.27898E-00	0.10951E-00	0.95298E-01	
GUSTINESS RATIOS				
U	0.09193	0.05616	0.05169	0.03843
V	0.08100	0.04777	0.04451	0.02805
W	0.02830	0.02774	0.02736	0.01344
COVARIANCES				
U,V	0.13906E-00	0.11448E-01	0.59757E-02	0.29804E-02
U,W	-0.22487E-01	-0.21589E-01	-0.21055E-01	-0.66736E-02
U,T	-0.93442E-01	0.24827E-01	0.18617E-01	0.15277E-01
V,W	-0.11480E-01	-0.66598E-02	-0.51130E-02	-0.12724E-04
V,T	-0.95165E-01	0.84327E-02	0.35350E-02	0.43591E-02
W,T	-0.40724E-02	-0.64833E-02	-0.62894E-02	-0.19110E-02
W,E	-0.38818E-02	0.26296E-02	0.29317E-02	
NORMALIZED COVARIANCES				
U,V	0.52927	0.12092	0.07361	0.07838
U,W	-0.24495	-0.39277	-0.42200	-0.36622
U,T	-0.46502	0.54496	0.53958	0.60808
V,W	-0.14192	-0.14245	-0.11915	-0.00096
V,T	-0.53746	0.21761	0.11898	0.23773
W,T	-0.06583	-0.28817	-0.34444	-0.21747

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.81185	0.49895	0.34503	0.42965	0.29711	0.18260
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
0	.074004	-.421796	.539377	-.119168	.118705	-.344415
1	.054469	-.296778	.465537	-.076594	.080469	-.246936
2	.011786	-.150825	.337790	-.012429	.013185	-.123946
3	-.031023	-.061291	.236028	.042663	-.029646	-.052059
4	-.047425	.001682	.158753	.058489	-.044073	-.008945
5	-.052780	.029958	.105744	.046440	-.040725	.012911
6	-.049430	.029883	.068887	.043081	-.039126	.018655
7	-.023715	.018509	.048030	.023651	-.014337	.014862
8	-.006424	-.001029	.030346	.007169	.001232	.011313
9	.001613	-.024724	.019795	-.007371	.009892	.008038
10	.009723	-.026589	-.002158	-.021681	.012942	.021103
11	.004097	.001511	-.034299	-.013497	.007199	.039834
12	-.000150	.037458	-.067948	-.010271	.007936	.057990
13	-.000580	.060636	-.094894	.008148	.009097	.067013
14	-.004697	.083753	-.113954	.005524	.010098	.067843
15	.001136	.090886	-.115742	.006528	.015329	.052548
16	.014945	.084561	-.114541	-.013571	.022369	.040300
17	.028480	.069732	-.114057	-.025110	.032826	.033036
18	.041915	.045879	-.106844	-.019046	.038649	.029976
19	.049895	.036485	-.101639	-.026958	.043478	.020793
20	.047113	.031919	-.100168	-.022533	.046050	.021469
21	.039104	.037681	-.098109	-.006535	.038313	.022925
22	.037464	.035239	-.097529	.010731	.025869	.028774
23	.047670	.049466	-.095004	.013447	.015776	.029895
24	.046027	.058014	-.101027	-.002317	.002539	.025579
25	.032949	.062261	-.100532	-.031132	.002108	.022770
26	.024673	.051521	-.096582	-.035667	.009611	.015937
27	.013666	.029800	-.080927	-.015548	.004471	.009429
28	.007720	.008677	-.066503	-.008922	-.006913	.006365
29	-.000435	.004720	-.060522	.002153	-.025577	.016103
30	-.007074	.006275	-.060732	.021962	-.041102	.012574
31	-.020480	-.010779	-.053015	.019434	-.046365	-.008208
32	-.042302	-.014167	-.047897	.018467	-.057635	-.014351
33	-.052172	-.003817	-.041187	.021984	-.055554	-.006087
34	-.046870	-.003472	-.037350	.013045	-.049985	-.010321
35	-.036475	-.013587	-.030649	-.002119	-.033184	-.015675
36	-.020500	-.022847	-.019317	-.017014	-.005856	-.028338
37	-.015635	-.024783	-.003761	-.022032	.000424	-.038238
38	-.029153	-.036309	.007256	-.009071	-.008389	-.040690
39	-.042179	-.032973	.000041	.007657	-.019297	-.025597
40	-.057754	-.021468	-.005232	.024867	-.039460	-.005218
41	-.068197	-.019367	-.001752	.020312	-.055439	.005058
42	-.057192	-.017747	.003192	.017841	-.055028	.005769
43	-.044670	-.013303	.009341	.020943	-.040291	-.001027
44	-.044226	.001657	.012422	.022859	-.029039	-.000722
45	-.034284	.014713	.014355	.011953	-.016754	.012097
46	-.009779	.025867	.011888	-.011670	-.008082	.028995
47	.003602	.037198	.002239	-.011069	-.010447	.038987
48	.009871	.039106	-.008840	-.007945	-.010681	.049120
49	.003876	.026257	-.007458	.002165	-.005529	.047946
50	.000157	.022656	-.010287	.016871	-.008304	.042010
51	.005732	.015574	-.013106	.017639	-.016061	.041328
52	.022624	.002762	-.008482	.003521	-.012666	.028832
53	.048372	-.007959	.000807	-.012669	.002747	.010425
54	.059472	-.011842	.011255	-.017652	.019809	-.002174
55	.067878	-.028501	.025411	-.026057	.043120	-.012351
56	.072468	-.045522	.031213	-.029617	.063399	-.025230
57	.064291	-.036857	.027201	-.032614	.071799	-.033769
58	.040064	-.024960	.021016	-.016783	.066900	-.038775
59	.026317	-.031501	.015524	-.013675	.067300	-.035173
60	.014141	-.031819	.014054	.010531	.062976	-.029339

RUN NO 104   46M   7-4-63   2030-2126(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.81185	0.49895	0.34503	0.42965	0.29711	0.18260
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-01
1	.018262	-.014832	.073194	.001852	.009345	-.013753
2	.013482	-.016940	.099843	-.012564	.011572	-.013230
3	.000989	-.015360	.107656	-.018515	.007402	-.000865
4	-.004717	-.034020	.110503	-.020867	-.009234	.019571
5	-.012085	-.042925	.102874	-.034727	-.022928	.051086
6	-.017412	-.051691	.097212	-.034369	-.022106	.074887
7	-.024790	-.047938	.103264	-.032190	-.013384	.077857
8	-.040690	-.031148	.113732	-.038194	-.007276	.056390
9	-.045915	-.009911	.120806	-.030907	.005997	.024798
10	-.043172	.015284	.123319	-.015562	.018371	-.001161
11	-.037979	.029939	.115387	.000952	.017292	-.004197
12	-.025357	.030995	.106792	.015376	.004085	.000616
13	-.019524	.034559	.097060	.024167	-.006128	.010797
14	-.020166	.039022	.084941	.005990	-.001487	.020336
15	-.019619	.036518	.072178	-.005402	-.005173	.033421
16	-.008117	.021501	.073230	-.004655	-.006988	.026979
17	.003042	.009338	.065815	.000709	-.005554	.014630
18	.004134	.006004	.057120	-.006536	.013720	.004879
19	.003315	-.001222	.060598	-.011860	.028197	-.002657
20	-.011801	-.002864	.058739	-.018547	.026511	-.002177
21	-.015796	-.014739	.052285	-.029093	.029798	.007007
22	-.013824	-.003174	.034558	-.027732	.030543	.017352
23	-.009900	.004328	.011358	-.025615	.021408	.032193
24	-.006087	.002496	-.008511	-.023805	.014861	.042923
25	-.006031	-.008720	-.025021	-.033793	.012450	.049654
26	.005095	-.023357	-.032479	-.017118	.000479	.041603
27	.018347	-.023558	-.035109	-.001687	-.002976	.032114
28	.019297	-.012632	-.033647	-.004913	.006868	.021665
29	.028701	-.007956	-.029565	.005481	.010482	.008133
30	.032021	.006783	-.023715	.016412	.007083	-.013124
31	.027708	.007554	-.029037	.021823	.007938	-.007510
32	.020897	-.007717	-.035282	.020821	.002909	-.001814
33	.024403	-.015495	-.038772	.034429	-.007581	-.007230
34	.022269	-.005307	-.043646	.026342	-.010212	-.016980
35	.019884	-.008996	-.041825	.013082	-.009115	-.020723
36	.016412	-.017207	-.033432	-.000064	-.013970	-.019868
37	.027910	-.031741	-.024171	.014681	-.019422	-.009079
38	.027768	-.034863	-.018498	.016397	-.010972	-.006231
39	.011713	-.024300	-.013630	.002281	-.004224	-.017392
40	.000545	-.014287	-.009532	-.002025	-.003185	-.024311
41	.003677	-.006088	-.011097	.009950	-.007405	-.022364
42	.015793	.008084	-.018385	.014835	-.017740	-.021285
43	.019630	.017780	-.017979	.023620	-.027362	-.021489
44	.014859	.015199	-.014303	.021771	-.033329	-.021213
45	.005157	.014553	-.016518	.004946	-.033944	-.016269
46	.002138	.014682	-.020073	.011447	-.031334	-.014641
47	.003041	.007391	-.014196	.030695	-.033482	-.021355
48	-.011078	.000689	-.004652	.020814	-.029299	-.022541
49	-.024483	-.004768	.002708	.006458	-.018757	-.015708
50	-.021620	-.010415	.000259	.009542	-.013868	.001163
51	-.015174	-.016633	-.005197	.011347	-.008532	.009251
52	-.026468	-.018989	-.001917	.004452	-.004908	.002523
53	-.048308	-.018130	.000081	-.014242	-.004315	.004188
54	-.054831	-.022162	.005583	-.027626	.010260	.002620
55	-.051487	-.018283	.010883	-.029785	.024907	-.007404
56	-.036940	-.001491	.012761	-.019208	.033914	-.016676
57	-.027369	.020824	.013903	.001945	.033290	-.018073
58	-.040025	.031684	.001474	-.002478	.034686	-.004222
59	-.044519	.039155	-.011935	-.028617	.039572	.006417
60	-.027241	.042896	-.018562	-.043432	.022458	.014571

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RUN NC 104   46M   7-4-63   2030-2126(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.94279	0.69909	0.26405	0.12627
	10E-01	10E-01	10E-01	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.773129	.612552	.575485	.809622
2	.500871	.271499	.211639	.576078
3	.313803	.111837	.041472	.414525
4	.183103	.024631	-.049201	.310192
5	.094190	-.010898	-.078889	.235717
6	.037979	-.029621	-.039547	.190777
7	.005591	-.060364	-.011260	.151408
8	.000250	-.091996	-.004385	.113828
9	-.007593	-.111046	-.002485	.072764
10	-.032015	-.107362	-.008996	.022869
11	-.064935	-.112844	-.032339	-.041051
12	-.091545	-.089062	-.076754	-.092822
13	-.125113	-.070831	-.099227	-.135849
14	-.172675	-.066702	-.093112	-.169769
15	-.206434	-.081699	-.073754	-.179822
16	-.213793	-.069658	-.039258	-.181032
17	-.198538	-.036554	-.016345	-.197338
18	-.169113	-.016247	-.012241	-.206518
19	-.146662	-.007200	-.029245	-.214278
20	-.130227	.002457	-.058504	-.226777
21	-.125479	-.019141	-.077940	-.239602
22	-.114956	-.050890	-.091540	-.242730
23	-.114249	-.061060	-.119515	-.230569
24	-.127294	-.083729	-.111897	-.211307
25	-.138522	-.097245	-.104344	-.192719
26	-.132714	-.097288	-.095680	-.176038
27	-.109181	-.080750	-.095406	-.161520
28	-.085727	-.095041	-.092988	-.158426
29	-.070788	-.107738	-.096784	-.158565
30	-.053160	-.103906	-.065881	-.142829
31	-.031994	-.080565	-.008657	-.110086
32	-.021926	-.066610	.008463	-.081701
33	-.027549	-.046568	-.002591	-.051260
34	-.040291	-.011078	-.009825	-.027301
35	-.038937	.022176	-.012642	-.010730
36	-.033519	.037245	-.004384	.010148
37	-.038201	.054845	.010684	.034758
38	-.036994	.056892	.031545	.043942
39	-.035295	.064310	.013943	.030530
40	-.027119	.051799	-.006478	.007180
41	-.016251	.040464	.001639	-.004106
42	-.010547	.028212	.021104	-.006765
43	.006398	.027907	.021597	-.001944
44	.020220	.028851	.006646	.006680
45	.038171	.034894	.006968	.006956
46	.047324	.020561	.010131	.007564
47	.034132	.015214	.014194	-.023304
48	.019613	.001902	.012809	-.027690
49	.016922	-.023220	.012753	-.029775
50	.012356	-.041800	.005626	-.029145
51	.000464	-.038935	.010233	-.024904
52	-.000917	-.032976	.041595	-.019879
53	.017871	-.011886	.037708	-.002381
54	.041805	.008798	.021645	.014043
55	.064234	.038662	.017297	.023951
56	.065489	.046989	.030998	.029610
57	.046167	.040274	.050112	.030275
58	.020300	.035614	.068873	.025033
59	.010586	.022878	.066944	.014982
60	.012782	.019845	.040362	.011658

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RUN NC 104   46M   7-4-63   2030-2126(EST)
61 PCINT RUNNING MEAN, NO BLOCK AVFRAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-03	10E-03
0	.005531	-.005578	.016980	-.029160	.031805	-.020708
1	.046361	-.080550	.194491	-.080662	.330532	-.224121
2	-.031124	-.136871	.256753	.071142	.090834	-.339628
3	-.118846	-.199466	.280937	.176333	-.277948	-.550718
4	-.024597	-.166388	.206514	.035771	-.169887	-.545054
5	.077946	-.101481	.142499	-.139145	.169568	-.399482
6	.066194	-.093843	.110740	-.227505	.309864	-.399306
7-8	.027851	-.078577	.073360	-.243003	.169155	-.287582
9-11	.057199	-.099422	.061119	-.370919	.222785	-.238225
12-15	.065109	-.100928	.051226	-.458881	.264869	-.273201
16-2C	.021044	-.037018	.019757	-.168289	.132948	-.126150
21-27	.005704	-.030528	.013761	-.109987	.070015	-.090478
28-36	.004134	-.016084	.005946	-.029172	.037201	-.053779
37-47	-.003528	-.013555	.003091	-.005124	.001659	-.03257,
48-6C	.001479	-.005971	.000802	-.028190	.004525	-.014851

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-03	10E-03	10E-03
1	-.198923	-.094958	.113007	-.224651	.111013	.242353
2	-.787926	.087997	.147742	-.343893	.128075	.240919
3	-.965237	.060995	.152881	-.207663	-.064517	.128189
4	-.328772	-.259342	.086705	-.029778	-.156741	.058179
5	-.097348	-.493992	.035981	-.181039	-.064844	.148186
	-.108800	-.565065	.027308	-.411591	-.005912	.174012
	.193255	-.472746	.029841	-.242474	.005078	.039391
	.364458	.031156	.011041	.072413	-.071146	.000408
12-15	.085070	.135378	.022253	.087601	.121717	-.161391
16-2C	.007508	-.004776	.010459	-.040823	.042059	-.010691
21-27	.116962	-.032669	.002940	.025148	.007600	.010533
28-36	.037147	-.034870	.003646	.004805	-.013700	-.007799
37-47	.035315	-.015978	.002114	.040003	.005591	-.004766
48-6C	-.005276	.019551	-.000028	-.001814	.000646	.003024

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.005133	.022792	.005232	.014895
1	.068524	.253396	.093657	.144682
2	.096512	.378874	.143747	.183597
3	.112035	.457197	.162717	.197446
4	.092138	.361440	.116526	.130175
5	.068558	.387921	.096167	.071701
6	.050693	.499838	.119175	.058428
7-8	.040132	.360770	.118915	.042975
9-11	.038220	.249814	.092255	.034528
12-15	.026750	.205140	.116787	.032492
16-2C	.014710	.183647	.047008	.016914
21-27	.009661	.121578	.047026	.011265
28-36	.005860	.083600	.035473	.006744
37-47	.004039	.061209	.026212	.004191
48-6C	.002256	.039241	.016503	.002547

RUN NO 104   46M   7-4-63   2030-2126(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.37990	0.18212	0.25114	0.13292	0.18329	0.87867
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
0	.078451	-.366429	.608335	-.000957	.237828	-.217486
1	.076990	-.005020	.246079	-.072171	.222900	.003394
2	.118371	.075974	.074786	-.026764	.214310	.023121
3	.032057	.013788	.014839	-.013555	.105033	-.000527
4	-.009289	-.008843	-.004850	-.000758	.081625	.002459
5	.045434	.009004	.003682	.005437	.057738	.035722
6	.054551	-.053695	-.009857	.018791	.078010	-.024403
7	.005410	.027789	.024684	.017424	.017946	-.004539
8	.018203	-.012942	-.016157	.025942	-.048603	.009209
9	-.041302	.026990	-.068062	-.024141	-.123082	.037070
10	-.024615	.012479	-.034582	-.046240	-.104837	.012896
11	-.022078	.023257	.013532	-.047644	-.093849	-.014855
12	-.051270	-.001672	.030834	.036878	-.148640	-.054998
13	-.030107	.154679	-.085455	.011169	-.129171	.052271
14	-.122068	-.006596	-.150375	.016212	-.158480	.021094
15	-.071207	.016011	-.156680	.052030	-.092191	.040899
16	-.015618	.048211	-.044746	.046378	-.047506	.034956
17	-.035875	.078267	-.048526	.008081	.007556	.040235
18	.019114	-.030188	.038812	-.018524	.051785	-.041620
19	-.107775	-.073346	.034757	-.021051	-.012595	-.040112
20	-.054208	-.079009	.000196	.015523	.018784	-.024166
21	-.007376	-.011954	-.011281	-.020074	.034548	-.030575
22	-.020175	.046226	.012218	- . . 3	-.005906	-.028985
23	-.051226	.030751	.003235	. . .5	-.031344	.052354
24	-.059245	-.108465	.027879	.024615	-.028156	-.060537
25	.033494	-.028134	-.041762	.013237	.035609	-.000566
26	.007741	-.063720	-.086371	.004858	-.037284	-.011733
27	-.037006	.049976	-.128725	.047585	-.061739	.046796
28	-.063513	.058057	-.057880	.059693	-.069191	.063024
29	.006178	-.038726	-.005201	.045233	-.032730	.073505
30	.062798	.030269	-.037801	-.037362	-.027475	.017689

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-02	10E-03	10E-02	10E-03
0	.008782	.003361	.029267	-.025520	.017131	-.005488
1	.132624	-.140867	.160227	-.150674	.125018	-.039499
2	.124625	-.307479	.142380	-.110171	.136076	-.068975
3	.065859	-.284366	.121865	-.067381	.122131	-.075840
4	.011691	-.02 ( )	.072277	-.035622	.041129	-.027442
5	-.000424	-.034720	.082595	-.117920	-.006371	-.063866
6	.015235	-.239941	.114038	-.196172	.009111	-.108297
7	.029175	-.267435	.085149	-.070797	.020733	-.047071
8	.014556	-.207726	.048997	.075097	.010999	-.018322
9-11	.022459	-.333447	.088280	.019225	.019134	-.115249
12-14	-.027102	-.352777	.033636	-.023675	-.011887	-.031689
15-21	-.025330	-.423192	.044953	.052969	-.006108	-.127419
22-3C	.019550	-.283230	.042059	.078464	.004843	-.095472

RUN NC 104   46M   7-4-63   2030-2126(EST)
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.37990	0.18212	0.25114	0.13292	0.18329	0.87867
	10E-01	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.043789	-.013116	.192351	-.051265	.019004	.082581
2	.006381	.016839	.161414	-.034669	-.010588	.063252
3	.016088	-.030766	.097930	.006915	-.000497	.033066
4	.040962	-.011096	.067832	.042318	-.023012	-.031254
5	.024050	.007893	.020133	.053614	-.046360	-.025045
6	.007996	.102146	.006840	-.001715	.004817	-.058697
7	.041775	.067239	-.000174	.032035	.030266	-.068612
8	.080661	-.021446	-.025666	.061079	.031712	-.017591
9	.004718	-.048521	-.052637	.016222	.053752	.027177
10	-.075626	.022571	-.042560	-.024894	.086977	-.036590
11	-.006924	.086808	.049627	.064124	-.012683	-.101746
12	-.002869	.003715	.099285	.026187	.036313	-.025068
13	-.032576	.006373	.086938	-.002119	.099405	.012923
14	-.058167	-.057581	.040320	.016000	.117529	.047870
15	.002592	-.062999	.010306	.084595	.040371	-.016013
16	-.087828	-.001464	-.087609	.044353	.099409	.015362
17	-.101044	.002065	-.087627	.031208	.124771	.014427
18	-.018437	-.025174	-.018544	-.037305	.114770	.025385
19	-.076274	.042457	-.037001	-.072583	.111772	-.005660
20	-.030705	.035281	-.055843	-.033125	.063468	.019411
21	-.076710	-.010452	-.063780	-.016982	.057928	.010020
22	.002822	-.078187	-.055402	.052722	-.019343	.000101
23	.018270	-.059511	-.000049	-.004252	-.068787	.013958
24	-.077930	.001091	.031237	-.066783	-.016594	-.029095
25	-.005723	-.016550	.041334	-.132053	-.030699	.024829
26	.020937	.033098	.024828	.029115	-.033208	.023254
27	.068333	.015840	-.055343	.076862	-.043810	-.004486
28	-.000734	-.091872	-.113060	.040612	-.000257	.050436
29	.021537	.020031	-.031645	-.005951	-.071509	-.026827
30	.051225	.048632	.030671	.001712	-.066556	-.047647

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-02	10E-03	10E-03	10E-03
1	-.502593	.097945	.027826	.257763	.863100	-.105449
2	.420396	.174155	.049528	.176404	.072345	-.104396
3	.665160	.143166	.040793	.014694	-.344836	-.041136
4	.131486	.011470	.034249	-.029689	-.088478	.071156
5	-.103726	-.126214	.086033	.018045	-.050395	.115865
6	-.160847	-.118090	.109705	-.061004	-.140016	.096033
7	-.285956	-.013921	.066021	-.162109	.032948	.094852
8	-.254290	-.174435	.020730	-.096981	.107585	.131152
9-11	.056817	-.023391	.048052	-.104313	.124939	.114276
12-14	-.418495	.200560	.025144	-.103941	-.019630	.009473
15-21	-.072014	-.077906	.019814	-.007362	.031119	.022784
22-30	-.098571	-.075238	.003300	.016078	.007890	.028252

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RUN NC 104   46M   7-4-63   2030-2126(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.52053	0.27727	0.63722	0.12116
	10E-01	10E-01	10E-02	10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.282361	.320397	.021356	.521950
2	.028498	.299990	-.092581	.187639
3	-.008570	.060950	-.164948	.066316
4	-.061795	.114068	-.028598	-.016301
5	-.019055	.070723	.047601	-.042543
6	.006042	-.047002	.136955	-.064740
7	.007621	-.037550	-.055868	-.044705
8	-.070558	-.080800	-.045300	-.055324
9	-.084863	-.093646	-.111528	-.086713
10	-.013710	-.084245	-.053941	-.031600
11	-.006838	-.177936	.023294	.034907
12	-.059365	-.103214	.057577	.084113
13	-.158955	-.121182	-.114156	-.108851
14	-.159485	.006398	.014535	-.256404
15	-.144275	-.064344	.012998	-.257192
16	-.026668	-.012867	-.154916	-.162471
17	-.047648	-.046138	-.081463	-.038005
18	.083214	.050458	-.003048	.056481
19	.047737	.101643	-.032358	.010061
20	.094941	.017811	.085447	-.024647
21	.015076	.128337	-.100532	-.027143
22	.005651	-.099040	-.108377	.003785
23	.042721	-.025125	-.021239	-.027288
24	.080430	-.194847	.137394	.007892
25	-.029375	-.164975	.069362	-.041642
26	-.029036	-.142241	.038633	-.176617
27	-.151633	-.119462	-.107061	-.200732
28	-.061628	-.031002	.054552	-.077751
29	.024958	-.045625	.086493	.036357
30	-.108248	-.040873	.028818	.058593

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-02
0	.059983	.071325	.016835	.025350
1	.333063	.324807	.196844	.142714
2	.361578	.273126	.217022	.124660
3	.372055	.297218	.180308	.109383
4	.220571	.207978	.161061	.081654
5	.221608	.109308	.185663	.095606
6	.332718	.114487	.167636	.112243
7	.303893	.101112	.167039	.072987
8	.210361	.098836	.232719	.031464
9-11	.280417	.083284	.434525	.062581
12-14	.165458	.094596	.306988	.026183
15-21	.189741	.050604	.272483	.030049
22-3C	.178067	.131097	.350675	.020458

GROSS STATISTICS

5 AS CS	WIND SPEED	8.17 M/SEC	SIGMA A 4.50 DEG
VERY STABLE	WIND DIRECTION	260 DEG	SIGMA E .77 DEG
	SOLAR RAD.	0 LY/MIN	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.99759E 00	0.23524E-01	0.15999E-01	0.16540E-01
V	0.34260E-00	0.63547E-01	0.26899E-01	0.50439E-01
W	0.11470E-01	0.86899E-02	0.90263E-02	0.40905E-02
T	0.17952E-01	0.35420E-02	0.16005E-02	0.29238E-02
E	0.67583E 00	0.47896E-01	0.25963E-01	
GUSTINESS RATIOS				
U	0.12225	0.01877	0.01548	0.01574
.	0.07164	0.03085	0.02007	0.02749
W	0.01311	0.01141	0.01163	0.00783
COVARIANCES				
U,V	0.14530E-00	0.10449E-01	0.46576E-02	0.82311E-02
U,W	0.11761E-01	-0.99391E-03	-0.20262E-02	-0.27609E-03
U,T	-0.52046E-02	0.16458E-02	0.11800E-02	0.11915E-02
V,W	0.42007E-02	-0.38434E-02	-0.31797E-02	-0.10864E-02
V,T	0.30442E-01	0.80778E-02	0.31927E-02	0.65819E-02
W,T	0.15163E-03	-0.65597E-03	-0.71420E-03	-0.24927E-03
WE	-0.34395E-02	-0.14854E-02	-0.10684E-02	
NORMALIZED COVARIANCES				
U,V	0.24855	0.27025	0.22451	0.28497
U,W	0.10995	-0.06952	-0.16861	-0.03357
U,T	-0.03889	0.18030	0.23318	0.17134
V,W	0.06701	-0.16355	-0.20406	-0.07564
V,T	0.38816	0.53842	0.48659	0.54200
W,T	0.01057	-0.11824	-0.18791	-0.07208

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20750	0.12022	0.50611	0.15588	0.65625	0.38020
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
0	.224680	-.168211	.233368	-.204273	.486331	-.188004
1	.195634	-.151805	.212321	-.124586	.418588	-.146305
2	.134893	-.114335	.173579	-.031712	.308064	-.088715
3	.075984	-.064059	.123942	.019733	.212259	-.039099
4	.027314	-.027708	.075237	.045291	.139453	-.012725
5	.002349	-.006443	.033165	.061633	.074240	.001107
6	-.009933	-.011011	.015593	.052443	.023106	.002602
7	-.024821	-.031361	.003134	.025363	-.007577	-.005939
8	-.030297	-.046598	-.010775	.000635	-.031281	-.007920
9	-.025723	-.040030	-.027087	-.012645	-.049518	.005229
10	-.032295	-.017380	-.044956	-.011214	-.064084	.021530
11	-.038450	.007176	-.046222	-.018673	-.069222	.026935
12	-.041856	.022800	-.045884	-.019149	-.065551	.021490
13	-.042665	.030039	-.042028	-.022864	-.062372	.023825
14	-.033268	.023322	-.037506	-.023954	-.070170	.033698
15	-.024056	.029681	-.036900	-.005359	-.082196	.048747
16	-.029364	.040192	-.042524	.008781	-.084066	.061147
17	-.030774	.051508	-.050771	.016832	-.089384	.065444
18	-.027257	.045738	-.055775	.029263	-.094731	.059489
19	-.019077	.043884	-.053307	.028245	-.094846	.046860
20	-.002376	.033781	.045377	.002235	-.087300	.030107
21	.010022	.012848	-.029715	-.025188	-.074490	.019675
22	.021350	-.010178	-.014927	-.040965	-.069611	.010656
23	.022547	-.021519	-.011136	-.053473	-.066493	.000215
24	.011604	-.018303	-.009585	-.045516	-.069707	-.004774
25	.004913	-.004448	-.006863	-.033327	-.076469	-.017422
26	-.001076	-.004123	-.006615	-.020965	-.072742	-.031092
27	-.009470	.005514	-.005410	-.000427	-.061554	-.035260
28	-.010531	.021555	-.001705	.022518	-.046540	-.036498
29	-.006952	.036977	.001386	.034059	-.029499	-.028707
30	.002925	.043251	.004304	.024639	.000565	-.023772
31	.003753	.070033	.001323	.013396	.031740	-.017403
32	.004608	.095755	.007043	.010377	.048708	-.018595
33	-.006826	.106677	.003430	.015239	.054585	-.018285
34	-.015872	.097977	.006056	.029515	.051511	-.019924
35	-.023936	.088331	.008041	.048324	.032469	-.014978
36	-.026846	.063804	.006823	.068667	.008487	.000322
37	-.017512	.035231	.004698	.077607	-.006635	.011669
38	-.011649	.028641	-.006251	.061683	-.010691	.007226
39	-.012893	.033663	-.008448	.050331	-.012620	.007515
40	-.020752	.030041	-.012684	.043257	-.013763	.009779
41	-.029130	.010513	-.011822	.050965	-.010444	.012598
42	-.021519	-.009879	-.004114	.058569	-.001769	.014131
43	-.010534	-.032245	.007930	.045902	.017220	.011032
44	-.008442	-.046495	.015872	.030025	.033439	-.001891
45	-.014865	-.052868	.017136	.016542	.033559	-.017622
46	-.014701	-.048570	.029108	-.005807	.037619	-.028406
47	-.010062	-.036369	.038572	-.033534	.042316	-.029527
48	-.002494	-.030304	.038888	-.033547	.029387	-.018157
49	-.008269	-.035182	.033361	-.031490	.013680	-.002037
50	-.010378	-.025208	.021680	-.030998	.003922	.010744
51	-.010016	-.001536	.008174	-.037533	-.000287	.021696
52	-.004390	.008732	-.012705	-.039724	-.005120	.020470
53	.001465	.009795	-.033957	-.044083	-.009999	.019552
54	-.012953	.011973	-.053495	-.048485	-.019181	.024756
55	-.025298	.013282	-.061333	-.046595	-.022985	.022207
56	-.024204	.005016	-.056213	-.038028	-.018527	.025706
57	-.017019	-.006363	-.049369	-.029362	-.011552	.022761
58	-.013392	-.001311	-.043193	-.035914	-.003674	.009823
59	.000183	.008420	-.036637	-.040837	.010781	-.001603
60	.007259	-.000337	-.031186	-.038719	.008015	.001999

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61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20750	0.12022	0.50611	0.15588	0.65625	0.38020
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
1	.034310	-.000204	.048723	.004383	.017892	.009020
2	.044784	.024433	.071477	-.013172	.033741	.016653
3	.044354	.024891	.080426	-.025091	.043731	.015729
4	.042937	.019457	.089307	-.021954	.042633	.022416
5	.051966	.001567	.107183	-.025483	.045483	.023529
6	.055416	-.007376	.116521	-.028228	.037055	.026021
7	.042773	-.008516	.115255	-.030742	.024912	.026625
8	.035291	-.003903	.114141	-.027119	.021462	.009531
9	.033293	.009949	.109835	-.011665	.022612	-.000506
10	.037058	.021121	.097927	-.001443	.021626	-.004530
11	.034141	.027597	.085262	.008452	.012157	-.001469
12	.014838	.037783	.070221	.017447	.010805	.001731
13	-.003303	.035592	.056500	.016475	.017200	-.000059
14	-.006549	.020426	.054319	.029262	.019329	-.016055
15	.003254	-.003334	.051435	.039807	.021740	-.024048
16	.007060	-.004879	.044924	.041740	.022245	-.023826
17	.004973	.003339	.030396	.035875	.012488	-.017196
18	.020947	.002514	.027923	.014995	.003157	-.006907
19	.028222	-.012751	.026856	.000893	-.001982	-.004915
20	.028277	-.020403	.026983	-.008798	-.003263	-.007636
21	.021208	-.029685	.029642	-.017198	-.012840	-.003929
22	.019736	-.041949	.032321	-.023708	-.022315	-.002776
23	.021923	-.049295	.029875	-.029210	-.026057	-.007806
24	.016024	-.065282	.026515	-.021061	-.020706	-.020975
25	.008123	-.073740	.009459	-.011233	-.011355	-.026493
26	-.000134	-.082991	-.007941	-.012477	-.007123	-.028690
27	-.014376	-.076582	-.017585	.001243	-.006857	-.028247
28	-.038195	-.063654	-.019670	.017474	-.007120	-.026469
29	-.046487	-.048565	-.012834	.014425	-.007284	-.024235
30	-.039929	-.033167	-.010628	-.002071	-.004249	-.029981
31	-.029718	-.020668	-.016547	.002226	.002595	-.035797
32	-.018127	-.017247	-.018414	.026373	-.000573	-.040723
33	.009994	-.031059	-.004653	.026505	-.003794	-.044485
34	.029129	-.046183	.005522	.017674	-.004388	-.037687
35	.030404	-.043183	.002693	.006906	.000481	-.027132
36	.033049	-.024090	.004304	.013207	.014131	-.028013
37	.035597	-.008649	-.004710	.025112	.023940	-.029398
38	.036317	-.001705	-.016309	.027307	.031102	-.026077
39	.031582	.005681	-.026170	.031579	.039115	-.020973
40	.025378	.005913	-.026910	.028657	.047943	-.010889
41	.024823	.003370	-.023259	.020990	.045465	.016630
42	.004313	.015292	-.029572	.004802	.044625	.028743
43	-.023339	.035931	-.043068	-.011925	.044922	.030908
44	-.039757	.043707	-.052428	-.020032	.042945	.027148
45	-.032587	.026150	-.045040	-.025700	.031941	.031817
46	-.026207	.016804	-.031893	-.023791	.020814	.030556
47	-.022247	.024834	-.025077	-.010752	.003426	.031938
48	-.012899	.027166	-.024001	.002799	-.012456	.030075
49	-.005129	.032913	-.031215	.009676	-.032712	.032540
50	-.007910	.034091	-.042258	.007032	-.050600	.034828
51	-.011379	.038802	-.047438	.006269	-.059711	.031147
52	-.006305	.034673	-.044729	.027707	-.063289	.020169
53	.001122	.020360	-.040679	.026651	-.061335	.017982
54	.011305	.019281	-.041118	.016107	-.063876	.022254
55	.023499	.019807	-.046221	.019817	-.068714	.021208
56	.037744	.013708	-.044872	.023322	-.064893	.017329
57	.039593	.028913	-.039071	.025960	-.056863	.011389
58	.036340	.048538	-.031716	.022082	-.053327	.007015
59	.028364	.047289	-.033638	.028892	-.056571	.009315
60	.022155	.034075	-.034096	.038173	-.048774	.010437

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16003	0.26906	0.90312	0.16006
	10E-01	10E-01	10E-02	10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.749594	.755315	.715471	.865311
2	.502138	.499320	.443751	.701625
3	.324770	.331853	.310203	.561501
4	.216495	.202054	.224745	.439336
5	.149195	.094255	.137702	.330067
6	.102667	.020254	.084399	.238823
7	.062856	-.008837	.059412	.161285
8	.015835	-.009607	.036121	.085783
9	-.036513	-.008346	-.003577	.023866
10	-.070533	-.014440	-.058823	-.019964
11	-.081588	-.022695	-.085606	-.047573
12	-.086320	-.035397	-.103667	-.069904
13	-.100536	-.056764	-.114900	-.099550
14	-.100725	-.074369	-.124164	-.129465
15	-.103139	-.091458	-.145914	-.153784
16	-.117287	-.110246	-.168239	-.183664
17	-.119064	-.120378	-.186155	-.218493
18	-.119586	-.144571	-.188491	-.247485
19	-.105908	-.154208	-.170313	-.265124
20	-.097274	-.146706	-.146912	-.268702
21	-.086412	-.130053	-.152587	-.269773
22	-.070902	-.126960	-.163215	-.268587
23	-.062173	-.128518	-.148801	-.261590
24	-.064815	-.13314	-.141065	-.254827
25	-.076378	-.148119	-.133679	-.241867
26	-.081072	-.153782	-.118321	-.216756
27	-.102373	-.145482	-.102057	-.187783
28	-.116383	-.135589	-.098375	-.165147
29	-.120240	-.103563	-.095453	-.153335
30	-.121123	-.043619	-.072432	-.130001
31	-.114292	.005084	-.058114	-.092067
32	-.097328	.022600	-.042469	-.054550
33	-.083733	.035684	-.034056	-.028317
34	-.087830	.024991	-.016637	-.008421
35	-.092689	.005821	-.002970	.002818
36	-.085271	-.017442	.000059	.002964
37	-.086935	-.028968	.016735	.006635
38	-.097474	-.032274	.042375	.010745
39	-.108523	-.023580	.040921	.006900
40	-.102042	-.010949	.051013	.004868
41	-.089339	-.001940	.044210	.000377
42	-.070353	.008977	.022318	.008632
43	-.032882	.028449	.001380	.025887
44	.007978	.036317	.018799	.031620
45	.038997	.027962	.039928	.032824
46	.055532	.034411	.049643	.040768
47	.056917	.047935	.055999	.043000
48	.061446	.041856	.033613	.036987
49	.056396	.017515	.008832	.025863
50	.029425	-.001046	-.004318	.013750
51	-.008980	-.009981	-.028549	.004899
52	-.032583	-.013996	-.040552	-.001484
53	-.042932	-.026857	-.031635	-.008676
54	-.051876	-.038457	-.020826	-.011292
55	-.036411	-.040938	-.011091	-.015736
56	-.016741	-.048922	-.033012	-.026216
57	-.009875	-.056177	-.044658	-.028117
58	-.021237	-.050733	-.030045	-.026998
59	-.013976	-.040893	-.026121	-.023063
60	-.020104	-.028534	-.021606	-.025248

RUN NO 104   91M   7-4-63   2030-2126(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-03	10E-03	10E-04
0	.052403	-.015294	.021652	-.010005	.037757	-.077825
1	.345796	-.279632	.106164	-.175271	.248392	-.287350
2	.317467	-.327656	.123446	-.101085	.337088	-.369309
3	.380972	-.217938	.170255	.058226	.453392	-.781052
4	.511316	-.155410	.166582	-.056924	.387367	-.981764
5	.538610	-.254854	.134638	-.187681	.262886	-.675409
6	.425271	-.122615	.089921	-.079493	.210438	-.190709
7-8	.276736	.025485	.070415	-.097118	.212527	-.193418
9-11	.235828	-.117597	.047868	-.284073	.122598	-.382508
12-15	.130867	-.092257	.017930	-.144275	.054117	-.231002
16-20	.067295	-.033597	.012212	-.095050	.037235	-.198703
21-27	.032756	.005252	-.001938	-.050019	.019113	-.039123
28-36	-.001178	-.001422	.002100	-.049087	.013078	-.045321
37-47	.009490	.002368	.001106	-.018076	.003632	-.015139
48-60	-.000017	-.002081	.001032	-.012837	.003036	-.020289

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-03	10E-04	10E-04
1	.238464	-.208845	.146195	.062282	.472857	-.462630
2	.217768	-.020475	.174317	-.006329	.306078	-.064561
3	.240946	.187875	.161685	-.019129	.685251	.316805
4	.222221	.126021	.121918	-.012639	.853711	.148375
5	.102650	-.038930	.087196	-.110763	.248395	.078993
6	.131918	-.076826	.061040	-.205929	.213375	.271948
7-8	.223556	-.011897	.043872	-.084963	.232689	.149165
9-11	-.007410	.020693	.002248	.044889	.317404	.001440
12-15	.045165	.053930	.003812	-.001617	.038092	.023826
16-20	.007773	-.004986	.009036	.003009	.032756	-.037838
21-27	.039449	-.010966	.007873	.010799	-.018449	.032933
28-36	.003477	-.007635	.002621	.012394	-.004100	.000361
37-47	.000956	-.006339	.000103	.007440	-.009860	-.000349
48-60	.002151	-.006280	.000277	-.002430	.013806	-.005002

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-02	10E-03
0	.019937	.037157	.007253	.028916
1	.164294	.239890	.067988	.220630
2	.173991	.275205	.094155	.267818
3	.161707	.304756	.111962	.287239
4	.135618	.221935	.082679	.187113
5	.128069	.149413	.055791	.101968
6	.099362	.137764	.045923	.080117
7-8	.068579	.149616	.034974	.074102
9-11	.053195	.116477	.028804	.042188
12-15	.035153	.064899	.021297	.018279
16-20	.029917	.034110	.016170	.014303
21-27	.015972	.027322	.010459	.008067
28-36	.010972	.021537	.009513	.005945
37-47	.007533	.012556	.005152	.003644
48-60	.006360	.008704	.003426	.002742

RUN NC 104 91M 7-4-63 2030-2126(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.28896	0.82286	0.69567	0.14363	0.12142	0.34578
	10E-01	10E-02	10E-02	10E-01	10E-01	10E-02
0	.284852	-.033553	.171277	-.075644	.542053	-.072090
1	.215838	-.022109	.127679	-.047781	.411164	-.062453
2	.175774	.038211	.114868	-.017052	.319637	-.056197
3	.154153	.051253	.102527	.032601	.274797	-.047473
4	.110723	.060622	.079553	.061563	.207681	.006918
5	.076407	.059058	.048169	.020842	.127472	.033353
6	.091197	-.042122	.028164	.010649	.057749	.029354
7	.053118	-.014834	.014601	.025284	-.002987	.054325
8	.009050	-.026618	.005921	.018826	-.057027	.025066
9	-.037997	-.005283	.014533	.004709	-.075313	.050308
10	-.087954	.005896	-.010452	-.023658	-.103523	.024660
11	-.147296	.047041	-.050114	.021079	-.135821	.039058
12	-.166251	.024851	-.088681	-.019693	-.178415	-.010870
13	-.163089	.016411	-.094993	-.028136	-.208495	.006159
14	-.205787	.071123	-.100354	-.025957	-.207251	.035884
15	-.186010	.078561	-.090045	.025460	-.177950	.042907
16	-.179716	.024541	-.089705	.017089	-.170799	.014216
17	-.202925	-.034148	-.112135	.012430	-.155976	.006331
18	-.212992	-.077781	-.164528	-.006105	-.141923	.002782
19	-.197633	-.070382	-.182530	.012445	-.119578	.005112
20	-.184306	-.099075	-.174769	.031464	-.104584	-.001463
21	-.196503	-.084100	-.192749	.002082	-.104977	-.020068
22	-.150449	-.037312	-.183535	-.013835	-.080609	-.039538
23	-.102026	-.018186	-.160589	-.023972	-.040461	-.045073
24	-.090128	-.038363	-.121947	-.033994	-.035843	-.052618
25	-.029349	-.047868	-.062635	-.023260	-.030507	-.011067
26	.011649	.006723	-.023913	-.028028	-.014232	-.012019
27	.020906	.023035	-.008993	.000223	-.025744	.016961
28	.037916	-.010586	.001137	-.020949	-.031924	.020186
29	.095266	-.016572	.011411	-.062455	-.026117	.006185
30	.150188	.014477	.042926	-.056503	-.036418	.030104

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-03	10E-03	10E-02	10E-04
0	-.004308	.032861	-.000842	.016853	.024676	.051866
1	.293005	.150799	.502938	.041843	.191711	-.130236
2	.298352	.012314	.412860	-.019470	.172795	-.560601
3	.120790	-.044726	.108887	-.050487	.114038	-.728050
4	.012817	.086247	.058660	-.138034	.047834	-.530290
5	.004715	.052771	.048317	-.217839	.026355	-.490885
6	.008269	-.123148	.022215	-.160568	.021607	-.300080
7	.034241	-.135219	.066397	-.115207	.016850	-.038884
8	.036983	-.080652	.028198	-.119584	.007548	.045822
9-11	.013764	-.079611	-.018455	-.101094	.007118	.026672
12-14	.002599	.004180	.021097	-.039878	.009947	.108667
15-21	.012606	-.016734	.015492	.031219	.008904	-.038174
22-30	.006415	.024443	.014479	-.025855	.005196	-.011823

RUN NC 104 91M 7-4-63 2030-2126(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.28896	0.82286	0.69567	0.14363	0.12142	0.34578
	10E-01	10E-02	10E-02	10E-01	10E-01	10E-02
1	.083096	.000664	.066842	.014151	.022776	-.021070
2	.107167	-.039683	.030505	.039702	.038872	-.083989
3	.137057	-.032024	.020889	.022063	.051809	-.076464
4	.159045	.039129	.020455	.031822	.076166	-.087290
5	.149959	.095300	.016493	-.003248	.054731	-.051517
6	.152030	.099841	.040048	-.027649	.056937	-.053543
7	.154091	.053275	.101223	-.061990	.100185	-.054083
8	.149370	.017313	.124485	-.058875	.113426	-.057880
9	.113715	-.004354	-.106994	.008185	.091987	-.084520
10	.132174	-.061490	.138273	.007296	.069168	-.030668
11	.110324	-.067206	.109638	-.006002	.064004	-.027108
12	.115021	-.050427	.097954	-.023688	.056536	.013700
13	.099388	-.066443	.138498	-.006984	.064523	-.009621
14	.067089	-.048355	.142683	-.016673	.043365	-.023861
15	.019690	-.027001	.142939	-.060029	-.004104	.041633
16	-.027699	-.067198	.121855	-.076674	-.019961	.043325
17	-.044258	-.017922	.099039	-.025151	-.024138	.011925
18	-.051678	.076336	.045055	.036655	-.039031	.001502
19	-.051620	.053606	.021892	.015503	-.041845	.083478
20	-.026176	-.016153	.040480	.024086	-.053545	.059698
21	-.041888	.047477	.030510	.065187	-.078081	.015318
22	-.059733	.091277	.031097	.072935	-.075697	-.012577
23	-.074715	.043705	.036779	.068020	-.073803	-.027188
24	-.064815	.075522	.040392	.067401	-.094069	-.020302
25	-.052367	.069922	.020514	.056148	-.118835	-.029089
26	-.041598	.046375	-.002443	.046431	-.124283	-.020371
27	-.051315	.007290	-.044223	.043662	-.108950	-.005935
28	-.054102	-.003256	-.064165	.017870	-.104842	-.016079
29	-.045238	-.038816	-.075487	-.013684	-.097172	.019251
30	-.045554	-.039716	-.058572	-.013126	-.062673	-.024152

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-03	10E-03	10E-03	10E-03
1	.246574	-.027185	.647220	-.160183	.511402	-.083711
2	.220255	.022153	.249437	-.124196	.535904	-.104909
3	.130730	.197549	-.035616	.088903	.232411	-.097230
4	.038646	.164301	-.079683	.081520	-.009724	-.037402
5	.031685	-.038589	-.009855	.041157	-.016150	-.021811
6	.041194	-.140233	.002978	.207464	.010908	-.024535
7	.022734	-.155611	-.005047	.227324	.019415	-.018437
8	-.002738	-.133764	.064894	.076300	.015346	-.029455
9-11	.010849	-.033307	.067328	-.045986	.047197	-.009416
12-14	.002128	.037349	.020190	.008655	-.059042	.011732
15-21	.007702	.027710	.031801	-.000262	.022134	.005922
22-30	-.000073	.003438	.008163	-.033247	-.011860	.009829

RUN NC 104   91M   7-4-63   2030-2126(EST)
301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16555 10E-01	0.50437 10E-01	0.40899 10E-02	0.29233 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.703107	.773618	.244410	.759482
2	.524661	.623228	-.072137	.530683
3	.364178	.505136	-.108770	.397638
4	.222891	.367579	-.071290	.306278
5	.122246	.235537	-.135268	.208903
6	.108838	.108830	-.098702	.112680
7	.065368	.021778	.053701	.016627
8	-.038742	-.078937	.003690	-.053573
9	-.096907	-.158099	-.054656	-.072162
10	-.165780	-.234831	-.166088	-.139953
11	-.266578	-.311551	-.133627	-.204189
12	-.259720	-.377387	.054419	-.256529
13	-.266781	-.411347	-.016340	-.294468
14	-.280614	-.435417	-.016640	-.286629
15	-.241646	-.411895	-.056120	-.267389
16	-.188186	-.377786	.055745	-.280392
17	-.135321	-.383376	.025112	-.254254
18	-.102580	-.354166	.093675	-.205016
19	-.079678	-.316626	-.000798	-.131772
20	-.120503	-.293622	-.040741	-.060192
21	-.134022	-.277260	.035353	.001922
22	-.106985	-.213304	-.147698	.049276
23	-.074540	-.126645	-.108037	.074858
24	-.053658	-.095131	.049155	.054496
25	-.008843	-.038702	.048253	.030859
26	-.028897	.042410	.050961	.023120
27	-.029718	.111222	-.081972	-.029213
28	-.026160	.184024	-.012510	-.078201
29	.003455	.236402	.000426	-.105947
30	-.003426	.240804	.061639	-.112751

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-01	10E-03	10E-03
0	.068437	.013739	.012656	.142228
1	.406965	.150545	.113137	.782043
2	.347889	.143459	.152331	.667676
3	.255716	.087063	.229584	.463116
4	.121886	.034089	.244954	.184914
5	.062407	.019919	.189420	.142283
6	.072159	.015634	.205754	.135756
7	.085971	.014889	.271619	.094095
8	.064304	.009610	.272950	.081389
9-11	.037075	.005731	.224087	.059658
12-14	.015902	.005481	.149200	.060090
15-21	.021633	.005223	.177008	.030920
22-30	.020272	.004714	.129521	.018536

RUN NC 104   46M   7-4-63   2030-2126(EST)
RUN NC 104   91M   7-4-63   2030-2126(EST)
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.167842	.020522	.452932	.222717
1	.195640	.054907	.323055	.103715
2	.187763	.027473	.230588	.158023
3	.129273	.124038	.149824	.292530
4	.149303	.142337	.128520	.310006
5	.118217	.136313	.225159	.120683
6	.074374	.261165	.294831	.111833
7-8	.078246	.273043	.210914	.189299
9-11	.127264	.096509	.169617	.117986
12-15	.134115	.115724	.113581	.109274
16-20	.169574	.157174	.129685	.081056
21-27	.185183	.085997	.054779	.075829
28-36	.094973	.148968	.085152	.104236
37-47	.103107	.118545	.111229	.126038
48-60	.128105	.132165	.108527	.110932

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.147093	.146658	.622044	.553422
1	.612005	.386665	.665410	.313345
2	.324973	.444498	.568083	.386901
3	.100318	.305501	.529570	.412944
4	.210263	.251103	.559733	.331528
5	.175857	.212148	.621114	.324587
6	.206999	.199593	.356654	.338930
7	.112457	.238741	.110717	.302280
8	.243201	.244682	.168661	.172312
9-11	.387122	.151066	.315300	.168096
12-14	.376558	.253183	.128774	.163879
15-21	.242915	.289341	.328669	.334202
22-30	.257406	.257325	.460897	.221720

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13. ABSTRACT

This volume contains the data summaries for Runs 96A through 104. Vertical profiles of mean wind speed and air temperature are presented in Section I and the turbulence statistics are presented in Section II. For a description of the field experiments and the data processing procedures, reference should be made to Volume I of this series.

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