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ROUND HILL TURBULENCE MEASUREMENTS
VOLUME V

Data Tabulations for Runs 78A through 85C

By

H. E. Cramer, F. A. Record, and J. E. Tillman

December 1966

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Atmospheric Sciences Research Division
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ABSTRACT

This volume contains the data summaries for Runs 78A through 85C. Vertical profiles of mean wind speed, air temperature, and soil temperature are presented in Section I. Section I also includes estimates of terms of the heat-budget equation. 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.

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 a 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, AIR TEMPERATURE, AND SOIL TEMPERATURE; HEAT-BUDGET ESTIMATES AT EARTH-AIR INTERFACE

Vertical profiles of mean wind speed and air temperature to a height of 40 m are presented in Tables 1 and 2, respectively. Wind speed measurements were made with cup anemometers at heights of 0.25, 0.5, 1, 2, 4, 8, 16, 32, and 40 m; wet- and dry-bulb temperatures were observed at each anemometer level, and also at 0.12 m. Soil temperatures are presented in Table 3. Soil thermometers were installed at the two ends of a north-south 40-m sampling line at depths of 1.6, 3.1, 6.2, 12.5, 25.0, 50.0, and 100 cm. Five separate elements 5 cm in length were inserted along the sampling line to provide an integrated temperature of the 0 to -5 cm layer. The profiles of soil temperature are frequently incomplete due to the failure of individual thermometers.

Table 4 presents estimates of the terms of the heat-budget equation

$$R_o + S_o + Q_o + E_o = 0$$

at the earth-air interface. Estimates were obtained by the following procedures:

1. R_o, the net effect of all radiative processes, was assumed equivalent to the net radiation measured by the Beckman-Whitley and/or Fritschen net-radiometers.

2. S_o, the vertical flux of heat in the soil, was determined from the heat flux through the -5 cm level, the change in temperature of the 0 to -5 cm layer of the soil, and the heat capacity of the soil within the 0 to -5 cm layer. The heat flux through the -5 cm level was measured by three Beckman-Whitley heat plates equally spaced along the sampling line.

3. Q_o, the vertical flux of heat in the atmosphere was assumed equal to the heat flux determined from the 16-m fast-response temperature and wind data.

4. E_o, the heat equivalent of the evaporative flux of moisture in the atmosphere, was obtained by determining the flux required to balance the heat-budget equation.

TABLE 1

VERTICAL PROFILES OF MEAN WIND SPEED*

Run No.	78A	79	80A	81A	81B
Date	10-25-62	10-29-62	11-1-62	11-1-62	11-2-62
Time (EST)	0806-0850	1602-1718	2215-2315	2332-0046	0046-0202
Height (m)			$\bar{U}$ (m sec^{-1})		
40	3.55	4.64	5.16	4.88	6.10
32	3.51	4.33	4.53	4.52	5.36
16	3.44	3.68	3.22	3.38	3.85
8	3.26	3.21	2.46	2.58	2.99
4	3.10	2.65	2.06	2.12	2.55
2	2.79	2.51	1.56	1.54	2.05
1	2.66	2.22	1.32	1.23	1.73
0.50	2.38	1.89	0.75	0.69	1.24
0.25	1.80	1.30	0.50	0.50	0.76

Run No.	81C	82A	82C	82D	82E
Date	11-2-62	11-2-62	11-2-62	11-2-62	11-2-62
Time (EST)	0213-0318	0356-0511	0642-0743	0800-0915	0916-1025
Height (m)			$\bar{U}$ (m sec^{-1})		
40	6.44	6.47**	4.17**	5.18**	5.57**
32	5.44	5.23**	3.28**	4.37**	4.87**
16	3.87	3.68	2.83	4.00**	4.48**
8	3.08	2.91	2.41	4.18	4.76
4	2.64	2.48	2.03	3.87	4.42
2	2.18	1.97	1.60	3.57	4.11
1	1.92	1.75	1.41	3.27	3.76
0.50	1.46	1.29	0.97	2.81	3.25
0.25	0.98	0.85	0.65	2.17	2.57

*Values at 0.25 m and 0.5 m were measured with low-inertia cup anemometers; standard large cup anemometers were used at all other heights.

**Anemometer exposure poor for prevailing wind direction.

TABLE 1 (Continued)

Run No.	84A	84B	85A	85B	85C
Date	11-6-62	11-6-62	11-16-62	11-16-62	11-16-62
Time (EST)	1246-1401	1401-1513	1116-1231	1254-1347	1358-1503
Height (m)			$\bar{U}$ (m sec^{-1})		
40	5.89	5.56	7.51	7.47	8.57
32	5.76	5.31	7.32	7.36	8.15
16	5.48	5.02	6.99	6.88	7.53
8	5.02	4.60	6.48	6.34	6.90
4	4.54	4.22	5.94	5.84	6.42
2	4.17	3.81	5.51	5.36	5.87
1	3.79	3.46	4.97	4.83	5.26
0.50	3.30	3.00	4.48	4.33	4.70
0.25	2.64	2.39	3.59	3.47	3.78

TABLE 2

VERTICAL PROFILES OF DRY-BULB TEMPERATURES T_D AND WET-BULB TEMPERATURES T_W*

Run No.	78A	79	80A	81A	81B
Date	10-25-62	10-29-62	11-1-62	11-1-62	11-2-62
Time (EST)	0806-0850	1602-1718	2215-2315	2332-0046	0046-0202
Height (m)			T_D, T_W (C)		
40	4.3(m)	5.5(1.1)	5.9(3.1)	5.5(2.9)	4.8(2.6)
32	4.4(1.4)	5.6(1.1)	5.8(3.1)	5.4(3.0)	4.6(2.5)
16	4.5(1.6)	5.7(1.3)	5.4(2.9)	4.9(2.7)	4.0(2.2)
8	4.6(1.5)	5.5(1.0)	5.2(2.7)	4.3(2.5)	3.6(1.9)
4	4.7(1.6)	5.3(0.9)	4.8(2.5)	3.8(2.0)	3.2(1.6)
2	4.9(2.0)	5.0(0.9)	4.2(2.3)	3.0(1.6)	2.7(1.4)
1	5.0(2.2)	4.6(0.5)	3.4(2.0)	2.0(0.9)	2.1(1.0)
0.50	5.2(2.3)	4.2(0.6)	3.0(1.6)	1.4(0.5)	1.7(0.7)
0.25	5.4(2.6)	4.0(0.6)	2.5(1.3)	0.9(0.2)	1.4(0.6)
0.12	5.5(2.7)	3.8(0.6)	2.2(1.2)	0.6(0.1)	1.1(0.4)

Run No.	81C	82A	82C	82D	82E
Date	11-2-62	11-2-62	11-2-62	11-2-62	11-2-62
Time (EST)	0213-0318	0356-0511	0642-0743	0800-0915	0916-1025
Height (m)			T_D, T_W (C)		
40	4.2(2.2)	3.6(1.6)	2.9(1.0)	4.9(2.2)	5.6(2.6)
32	3.8(2.1)	3.2(1.5)	2.8(1.1)	5.1(2.5)	5.8(3.0)
16	3.2(1.7)	2.6(1.2)	2.7(1.2)	5.4(2.9)	6.1(3.5)
8	2.9(1.5)	2.3(1.0)	2.4(0.9)	5.4(2.6)	6.2(3.1)
4	2.6(1.3)	2.0(0.7)	2.0(0.7)	5.5(2.6)	6.4(3.2)
2	2.3(1.2)	1.6(0.6)	1.7(0.8)	5.6(3.2)	6.6(3.7)
1	1.8(0.8)	1.1(0.2)	1.2(0.3)	5.8(3.3)	6.9(4.0)
0.50	1.4(0.6)	0.7(0)	1.4(0.4)	6.0(3.4)	7.2(4.1)
0.25	1.2(0.5)	0.5(-0.2)	1.3(0.5)	6.2(3.7)	7.5(4.5)
0.12	1.0(0.3)	0.2(-0.4)	1.2(0.3)	6.2(3.8)	7.7(4.6)

*Wet-bulb temperatures are enclosed in parentheses and missing values are denoted by m.

TABLE 2 (Continued)

Run No.	84A	84B	85A	85B	85C
Date	11-6-62	11-6-62	11-16-62	11-16-62	11-16-62
Time (EST)	1246-1401	1401-1513	1116-1231	1254-1347	1358-1503
Height (m)			T_D, T_W (C)		
40	2.3(-0.5)	2.0(-0.8)	8.7(3.0)	10.2(4.1)	11.2(4.5)
32	2.4(-0.4)	2.1(-0.8)	8.8(3.2)	10.4(4.3)	11.4(4.6)
16	2.6(-0.1)	2.3(-0.5)	9.1(3.7)	10.5(4.7)	11.4(5.1)
8	2.7(-0.1)	2.3(-0.5)	9.2(3.4)	10.6(4.4)	11.4(4.6)
4	2.7(-0.1)	2.3(-0.5)	9.3(m)	10.7(m)	11.4(m)
2	2.8(0.1)	2.4(-0.3)	9.6(3.7)	10.9(4.7)	11.5(4.8)
1	2.8(0.2)	2.4(-0.3)	9.9(3.9)	11.1(4.7)	11.5(4.9)
0.50	2.9(0.2)	2.4(-0.2)	10.2(4.3)	11.3(5.1)	11.5(5.1)
0.25	3.0(0.5)	2.5(-0.1)	10.5(4.5)	11.6(5.2)	11.6(5.1)
0.12	3.1(0.5)	2.5(-0.1)	10.7(4.6)	11.7(5.3)	11.7(5.1)

TABLE 3

VERTICAL PROFILES OF SOIL TEMPERATURE

Run No.	78A		79		80A	
Date	10-25-62	10-25-62	10-29-62	10-29-62	11-1-62	11-1-62
Time (EST)	0758	0907	1540	1721	2133	2315
				South Position		
Depth (cm)				T (C)		
1.6	2.8	8.6	7.9	4.1	3.3	2.1
3.1	1.9	8.8	8.9	5.1	3.9	2.7
6.2	2.4	7.4	10.6	7.4	5.7	4.4
12.5	4.3	6.6	11.5	9.4	7.7	6.6
25.0	8.5	8.4	11.8	11.4	10.6	10.0
50.0	13.4	13.2	11.4	11.4	11.7	11.7
				North Position		
Depth (cm)				T (C)		
1.6	5.7	6.9	9.3	7.9	8.1	7.4
3.1	6.3	7.4	10.2	9.0	8.8	8.2
6.2	7.0	7.3	9.9	9.4	9.3	8.9
12.5	8.7	8.7	10.5	10.3	10.4	10.0
25.0	10.9	10.9	10.6	11.0	11.2	11.2
50.0	m	m	m	m	m	m
				Average Value for Layer		
				T (C)		
0-5 cm	4.6	7.1	9.4	7.3	6.6	5.8

TABLE 3 (Continued)

Run No.	81A	81B	81C		82A	
Date	11-1-62	11-2-62	11-2-62	11-2-62	11-2-62	11-2-62
Time (EST)	2329	0053	0209	0319	0353	0518
				South Position		
Depth (cm)				T (C)		
1.6	2.1	1.3	1.0	0.6	0.6	0.2
3.1	2.7	1.4	1.4	1.1	1.1	0.8
6.2	4.4	3.5	3.0	2.6	2.6	2.2
12.5	6.6	5.7	5.2	4.7	4.7	4.1
25.0	10.0	9.4	8.9	8.5	8.5	7.9
50.0	11.7	11.7	11.6	11.6	11.6	11.4
				North Position		
Depth (cm)				T (C)		
1.6	7.4	6.9	6.7	6.4	6.4	6.0
3.1	8.2	7.7	7.5	7.2	7.2	6.8
6.2	8.8	8.4	8.2	8.0	7.9	7.6
12.5	10.0	9.9	9.4	9.2	9.2	8.8
25.0	11.6	11.4	10.7	10.6	10.6	10.4
50.0	m	m	m	m	m	m
				Average Value for Layer		
				T (C)		
0-5 cm	5.8	5.0	4.8	4.5	4.5	3.9

TABLE 3 (Continued)

Run No.	82C	82D	82E		84A	84B	
Date	11-2-62	11-2-62	11-2-62	11-2-62	11-6-62	11-6-62	11-6-62
Time (EST)	0635	0745	0917	1033	1243	1403	1514
				South Position			
Depth (cm)				T (C)			
1.6	m	3.0	8.0	13.1	8.6	5.1	3.7
3.1	0.7	2.5	8.3	12.4	9.1	5.5	4.2
6.2	2.0	2.6	7.2	10.2	8.7	6.4	5.4
12.5	3.9	3.9	6.3	8.2	7.5	7.0	6.3
25.0	7.6	7.3	7.3	7.7	7.0	7.5	7.5
50.0	11.3	11.3	11.2	11.0	9.5	9.5	9.5
				North Position			
Depth (cm)				T (C)			
1.6	5.6	5.8	6.8	7.9	7.0	6.2	5.8
3.1	6.5	6.5	7.6	8.8	7.7	7.1	6.8
6.2	7.3	7.2	7.3	7.7	6.8	6.8	6.7
12.5	8.6	8.5	8.4	8.5	7.3	7.5	7.5
25.0	10.2	10.1	9.9	9.8	8.4	8.4	8.5
50.0	m	m	m	m	m	m	m
				Average Value for Layer			
				T (C)			
0-5 cm	3.4	4.0	6.3	8.3	7.5	6.2	5.9

TABLE 3 (Continued)

Run No.	85A	85B	85C
Date	11-16-62	11-16-62	11-16-62
Time (EST)	1241	1352	1505
		South Position	
Depth (cm)		T (C)	
1.6	13.2	12.7	9.6
3.1	12.7	12.5	9.8
6.2	11.2	11.6	10.1
12.5	8.6	9.3	9.1
25.0	7.3	6.7	7.3
50.0	6.0	7.2	7.3
		North Position	
Depth (cm)		T (C)	
1.6	6.6	7.0	6.7
3.1	6.9	7.2	6.9
6.2	m	5.8	6.0
12.5	5.4	5.7	5.9
25.0	6.1	6.2	6.3
50.0	m	m	m
		Average Value for Layer	
		T (C)	
0-5 cm	7.5	7.8	7.2

TABLE 4

ESTIMATES OF HEAT-BUDGET CONSTITUENTS AT THE EARTH-AIR INTERFACE*

Run No.	Date	Time (EST)	R_o	S_o	Q_o	E_o**
			(cal cm^{-2} min^{-1})			
78A	10-25-62	0806-0850	-0.33	0.05	0.07	0.21(0.15)
79	10-29-62	1602-1718	0.15	-0.06	0.02	-0.11
80A	11-1-62	2215-2315	0.15	-0.04	-0.01	-0.10
81A	11-1-62	2332-0046	0.15	-0.04	-0.01	-0.10
81B	11-2-62	0046-0202	0.15	-0.02	-0.01	-0.12
81C	11-2-62	0213-0318	0.16	-0.02	-0.02	-0.12
82A	11-2-62	0356-0511	0.15	-0.03	-0.01	-0.11
82C	11-2-62	0642-0743	0.03	-0.03	-0.01	0.01
82D	11-2-62	0800-0915	-0.21	0.09	0.04	0.08(0.08)
82E	11-2-62	0916-1025	-0.40	0.10	0.13	0.17(0.15)
84A	11-6-62	1246-1401	-0.06	-0.03	0.02	0.07
84B	11-6-62	1401-1513	-0.02	-0.02	0.02	0.02
85A	11-16-62	1116-1231	-0.44	m	0.13	m
85B	11-16-62	1254-1347	-0.32	0.04	0.10	0.18
85C	11-16-62	1358-1503	-0.12	0	0	0.12

*The minus sign denotes a flux of energy toward the interface.

**Values of E_o enclosed by parentheses were determined from refractive index measurements.

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 quantity N is related to n, the refractive index of air, through the expression $N = (n-1) \times 10^6$. RHO(W) denotes the water vapor content of the air in g m^{-3}. 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 form 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, the thermal stratification, and the air trajectory (land or water) during the experiment. The second vertical column lists the mean wind speed and the standard deviations of azimuth angle and elevation angle. The third column presents the mean azimuth wind direction and the solar and net radiation in Langleys min^{-1}.

b. Variances

Variances are presented for the three components of the wind velocity and for air temperature for all runs. Variances are also tabulated for refractive index (in N units) and water vapor for Runs 78A, 82D, and 82E. Identification of the 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, T, N, and RHO(W) are identified with 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 tabulated 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 all runs for each of the four data sets. Covariances for U,N; U,RHO(W); V,N; V,RHO(W); W,N; W,RHO(W); T,N; T,RHO(W); N,RHO(W) are also tabulated for Runs 78A, 82D, and 82E for the four data sets. The covariance WE is presented for the first three data sets only.

e. Normalized Covariances

The normalized covariances were calculated by dividing the covariances of the paired variates by the product of the standard deviations of the two variates.

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. Calculations for Runs 78A, 82D, and 82E also included N and RHO(W). For all runs except 78A, 82D, and 82E 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

The order of presentation for Runs 78A, 82D, and 82E has been altered slightly to include the refractive index and water vapor data. Estimates can be identified by page and column headings.

c. Coherence

Estimates of the coherence between levels are presented for each of the three wind velocity components, for temperature, and also, in the case of Runs 78A, 82D, and 82E, for N and RHO(W). 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 5 presents the relationship between these K numbers and the central frequencies of the individual bands.

TABLE 5

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	28-36	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. PRESENTATION OF STATISTICS

The remainder of this volume contains the tabulation of the turbulence statistics for Runs 78A through 85C.

RUN NO. 78A 16M 10-25-62 0806-0850 EST

GROSS STATISTICS

4 CI CS	WIND SPEED 3.44 M/SEC	WIND DIRECTION 308 DEG	
UNSTABLE	SIGMA A 13.6 DEG	SOLAR RADIATION 0.67	
LAND	SIGMA E 9.0 DEG	NET RADIATION 0.33	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.58416E 00	0.39688E-00	0.23584E-00	0.28738E-00
V	0.70754E 00	0.45332E-00	0.22167E-00	0.34242E-00
W	0.23392E-00	0.20469E-00	0.17982E-00	0.18503E-00
T	0.17432E-00	0.36694E-01	0.16512E-01	0.28734E-01
N	0.27625E 01	0.58421E 00	0.30741E-00	0.44078E-00
RHO(W)	0.50579E-01	0.20873E-01	0.10943E-01	0.15725E-01
E	0.76282E 00	0.52777E 00	0.31868E-00	
GUSTINESS RATIOS				
U	0.22219	0.18314	0.14117	0.15595
V	0.24452	0.19572	0.13687	0.17011
W	0.14060	0.13152	0.12327	0.10279
COVARIANCES				
U,V	-0.57420E-01	-0.35076E-01	-0.71852E-02	-0.33497E-01
U,W	-0.86615E-01	-0.41812E-01	-0.14596E-01	-0.40591E-01
U,T	-0.35738E-01	-0.58361E-01	-0.18980E-01	-0.47974E-01
V,W	-0.19415E-01	-0.22299E-01	-0.48174E-02	-0.23888E-01
V,T	0.89611E-02	-0.86231E-02	0.62663E-02	-0.11013E-01
W,T	0.39920E-01	0.24254E-01	0.17122E-01	0.19187E-01
U,N	-0.56924E 00	-0.12381E-00	-0.17841E-01	-0.10645E-00
U,RHO(W)	-0.98331E-01	-0.30464E-01	-0.62797E-02	-0.25798E-01
V,N	-0.70376E-01	-0.49220E-01	0.63725E-02	-0.51385E-01
V,RHO(W)	-0.97064E-02	-0.94780E-02	0.21828E-02	-0.10283E-01
W,N	0.21676E-00	0.15178E-00	0.10274E-00	0.11518E-00
W,RHO(W)	0.42248E-01	0.28905E-01	0.19691E-01	0.22066E-01
T,N	-0.32796E-00	0.76477E-01	0.41007E-01	0.58745E-01
T,RHO(W)	-0.21491E-01	0.18957E-01	0.95968E-02	0.14339E-01
N,RHO(W)	0.38683E-00	0.10811E-00	0.57039E-01	0.81379E-01
WE	0.10390E-01	-0.90234E-04	0.41947E-02	
NORMALIZED COVARIANCES				
U,V	-0.08931	-0.08270	-0.03143	-0.10858
U,W	-0.23431	-0.14670	-0.07088	-0.21399
U,T	-0.11199	-0.48361	-0.30415	-0.52717
V,W	-0.04772	-0.07320	-0.02413	-0.11545
V,T	0.02552	-0.06686	0.10358	-0.11094
W,T	0.19769	0.27986	0.31422	0.31987
U,N	-0.44810	-0.25712	-0.06626	-0.29888
U,RHO(W)	-0.53155	-0.33470	-0.12361	-0.38349
V,N	-0.05034	-0.09564	0.02441	-0.13227
V,RHO(W)	-0.04768	-0.09744	0.04432	-0.14013
W,N	0.26965	0.43892	0.43697	0.49083
W,RHO(W)	0.36091	0.44221	0.44391	0.49764
T,N	-0.47260	0.52234	0.57558	0.50384
T,RHO(W)	-0.21267	0.68497	0.71395	0.67408
N,RHO(W)	0.96161	0.97903	0.98345	0.97746

RUN NO. 78A 16M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.22869 10E 00	0.20594 10E 00	0.62400 10E-01	0.19970 10E 00	0.60509 10E-01	0.54490 10E-01
0	-.031384	-.070838	-.304041	-.023912	.103180	.314128
1	-.028415	-.072590	-.275838	-.019174	.095739	.292532
2	-.021449	-.070659	-.226415	-.012056	.087078	.249334
3	-.022027	-.059983	-.174729	-.005044	.080334	.205962
4	-.031283	-.058294	-.136457	.004210	.081710	.168317
5	-.043108	-.053498	-.109430	.016796	.077658	.139161
6	-.052796	-.041776	-.089322	.029235	.068967	.108091
7	-.060622	-.026610	-.072919	.042196	.060901	.073597
8	-.060669	-.007614	-.054894	.043838	.048438	.045395
9	-.055531	.010762	-.030754	.038068	.029472	.020659
10	-.047640	.024441	-.007446	.027853	.010992	-.001315
11	-.041784	.027841	.003305	.015646	-.003271	-.031229
12	-.034329	.033229	.004401	.000676	-.012322	-.062717
13	-.027179	.042922	.005489	-.016412	-.024335	-.082474
14	-.027607	.045225	.003808	-.031114	-.031178	-.086732
15	-.029565	.043714	.000701	-.039703	-.036167	-.090242
16	-.029297	.036184	.000395	-.040870	-.038306	-.098036
17	-.024462	.028204	.001096	-.035317	-.041037	-.102257
18	-.020946	.024267	.004727	-.026333	-.046823	-.112308
19	-.021995	.028252	.010354	-.013640	-.049892	-.122154
20	-.023652	.032635	.018122	-.004168	-.047707	-.134205
21	-.020577	.024118	.025019	.006138	-.045464	-.138896
22	-.013571	.007416	.025942	.020678	-.044802	-.130420
23	-.008523	-.009498	.025215	.028460	-.047536	-.114202
24	-.001382	-.018052	.025865	.029874	-.052836	-.098154
25	.006659	-.019692	.031798	.028867	-.058097	-.083137
26	.012630	-.024953	.041984	.028462	-.066126	-.070846
27	.018258	-.029512	.060435	.027009	-.073316	-.063744
28	.025492	-.034733	.083729	.023033	-.076307	-.059260
29	.032925	-.035200	.100969	.009847	-.078282	-.051028
30	.031443	-.032799	.110947	-.004917	-.069982	-.036418
31	.026696	-.028771	.114353	-.018150	-.055730	-.023831
32	.029940	-.018883	.108483	-.032132	-.039371	-.013647
33	.041783	-.015113	.099871	-.042113	-.029755	-.003963
34	.051052	-.014539	.097839	-.044653	-.018134	.000764
35	.061029	-.011305	.100406	-.037085	-.006508	.001041
36	.066849	-.005456	.098075	-.025360	.004125	-.000792
37	.069512	-.001336	.096236	-.015781	.010039	.006406
38	.072391	.008975	.094101	-.009188	.019025	.017063
39	.076885	.019574	.090968	-.002064	.029380	.023200
40	.083868	.030239	.085915	.000625	.038197	.027560
41	.093908	.038505	.085364	-.004385	.036968	.033590
42	.095429	.042599	.087887	-.015733	.033916	.047212
43	.095840	.045300	.088066	-.028266	.028095	.063857
44	.093965	.044021	.082805	-.039060	.015288	.074727
45	.087697	.048775	.075794	-.046877	.004595	.073709
46	.074964	.057532	.066691	-.048218	-.000748	.057507
47	.058975	.063959	.059550	-.045920	-.001397	.043242
48	.044446	.066203	.044981	-.034814	.006310	.036973
49	.027263	.067371	.026093	-.022414	.020800	.031792
50	.014262	.063106	.003846	-.013564	.037585	.025764
51	.005968	.056172	-.010229	-.003101	.047213	.015673
52	-.003589	.049973	-.015935	.002195	.048349	.010024
53	-.020223	.045427	-.021510	.005806	.047384	.007431
54	-.029791	.036436	-.029869	.019700	.042916	.002943
55	-.037262	.028385	-.031874	.027481	.038711	-.005010
56	-.039780	.019338	-.032343	.030732	.034835	-.015631
57	-.037819	.007926	-.029440	.030853	.031849	-.024716
58	-.038973	-.002104	-.031713	.032187	.029487	-.029753
59	-.041023	-.009912	-.035365	.032222	.026167	-.030726
60	-.050820	-.013833	-.038422	.031706	.018744	-.037996

RUN NO. 78A 16M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(M)	V,N	V,RHO(M)	W,N	W,RHO(M)	T,N	T,RHO(M)	N,RHO(M)
	0.26930 10E 00	0.50807 10E-01	0.26114 10E 00	0.49267 10E-01	0.23516 10E 00	0.44366 10E-01	0.71256 10E-01	0.13443 10E-01	0.58017 10E-01
0	-.066360	-.123844	.024200	.044193	.436957	.443922	.575593	.713998	.983392
1	-.059718	-.111882	.031274	.048575	.394680	.402787	.496710	.617807	.843330
2	-.046584	-.089857	.040326	.054302	.324119	.332598	.384942	.480880	.661810
3	-.026767	-.061467	.044164	.055882	.262711	.270564	.290249	.364692	.512119
4	-.011481	-.039924	.047294	.058779	.213199	.219758	.209969	.267910	.382111
5	-.004197	-.027595	.038664	.050439	.176693	.182109	.146010	.189972	.276696
6	.002055	-.017802	.026923	.038423	.139779	.143566	.090305	.121642	.185805
7	.006127	-.010848	.021427	.031791	.103850	.105090	.041188	.061286	.110463
8	.014155	-.000126	.012268	.021148	.065138	.065844	.002614	.013205	.047935
9	.023496	.013280	-.003934	.003008	.030807	.030961	-.026546	-.024864	-.001940
10	.028458	.022486	-.019409	-.014429	-.001980	-.001810	-.048327	-.054782	-.043075
11	.022063	.019195	-.026832	-.024022	-.041012	-.041958	-.069635	-.082023	-.088295
12	.018689	.016680	-.028373	-.027392	-.079977	-.082337	-.090297	-.104774	-.137439
13	.018749	.017117	-.033899	-.034805	-.112092	-.114063	-.107630	-.125507	-.178199
14	.016601	.014972	-.036891	-.038798	-.128519	-.129046	-.116690	-.134083	-.210867
15	.009329	.008116	-.034898	-.037980	-.139073	-.138813	-.119569	-.135174	-.228596
16	-.000086	-.000055	-.027162	-.031730	-.152386	-.151989	-.118461	-.130980	-.245039
17	-.009389	-.007847	-.020705	-.026744	-.159955	-.159546	-.114153	-.124143	-.256191
18	-.016675	-.013511	-.023147	-.030171	-.165514	-.166604	-.111814	-.121033	-.262374
19	-.020918	-.015923	-.027839	-.034974	-.168527	-.171418	-.120098	-.131033	-.269293
20	-.021123	-.014347	-.026262	-.033192	-.174315	-.179014	-.136307	-.149918	-.283026
21	-.026954	-.017822	-.022330	-.029212	-.183894	-.188336	-.148738	-.165327	-.294018
22	-.035782	-.025085	-.018358	-.025646	-.185307	-.187512	-.139923	-.159074	-.284679
23	-.045453	-.033570	-.019350	-.027027	-.172993	-.173314	-.123111	-.144446	-.261520
24	-.055765	-.042035	-.024781	-.032901	-.150579	-.150544	-.101674	-.124590	-.221502
25	-.057430	-.042171	-.031807	-.040055	-.127901	-.127810	-.085206	-.108552	-.187006
26	-.052132	-.035245	-.032316	-.042320	-.113591	-.113058	-.077147	-.100557	-.163366
27	-.041831	-.022075	-.029050	-.041144	-.103763	-.103036	-.074141	-.097981	-.147927
28	-.028369	-.005186	-.019441	-.033817	-.094464	-.094022	-.071517	-.095794	-.132445
29	-.018118	.007312	-.018740	-.033686	-.079596	-.079412	-.066260	-.089629	-.104936
30	-.009866	.016482	-.017282	-.030634	-.062102	-.061010	-.060181	-.081877	-.076051
31	-.004856	.021297	-.007880	-.019264	-.043484	-.042295	-.048701	-.067701	-.044640
32	-.003471	.021145	.005665	-.004016	-.022937	-.022583	-.029957	-.045930	-.009044
33	.001262	.023388	.013260	.004720	-.005187	-.005379	-.016775	-.031039	.021237
34	.011602	.031505	.021953	.014707	.006025	.005373	-.012849	-.026240	.039318
35	.020100	.039510	.026220	.020988	.014147	.012480	-.014776	-.027486	.042590
36	.022003	.040763	.029819	.026321	.021876	.018617	-.018741	-.031043	.039827
37	.024403	.042404	.034325	.031541	.034878	.031342	-.017014	-.029699	.047110
38	.027093	.044202	.039837	.038418	.050747	.046971	-.010059	-.024444	.056040
39	.031704	.047354	.045721	.045781	.060387	.056740	-.000760	-.016585	.065562
40	.034146	.048430	.046659	.048564	.068801	.064977	.005487	-.010555	.072732
41	.038267	.051945	.040354	.042947	.075057	.071632	.015323	-.000043	.080781
42	.041990	.055734	.029308	.032837	.077793	.076838	.028914	.014021	.088069
43	.042627	.056331	.017769	.021668	.080945	.083208	.044503	.028396	.095834
44	.037690	.050862	.003197	.006223	.092623	.095673	.057585	.040033	.107415
45	.034707	.046636	-.009833	-.007288	.099682	.101643	.061476	.043524	.104182
46	.034643	.044621	-.019396	-.016601	.091786	.091478	.053311	.034500	.084943
47	.037536	.045457	-.024423	-.021291	.085698	.083158	.040278	.021533	.055422
48	.034925	.040059	-.021949	-.017454	.084011	.080163	.027749	.011213	.023780
49	.031766	.033247	-.015319	-.008510	.085393	.080324	.015910	.001994	-.003264
50	.027528	.024692	-.011059	-.001092	.085537	.079061	.008085	-.003226	-.021948
51	.023999	.018157	-.008840	.002987	.072832	.065778	.006672	-.003384	-.033691
52	.022025	.015109	-.006678	.004936	.057658	.051353	.011114	.001706	-.034830
53	.019496	.011550	-.004281	.006723	.041437	.036731	.013938	.005816	-.034382
54	.018856	.009190	-.007351	.003282	.020108	.017406	.013775	.006868	-.034161
55	.023273	.012593	-.006159	.003371	-.000058	-.001622	.012465	.006731	-.034355
56	.027351	.015933	-.007550	.001394	-.019412	-.020507	.011138	.007328	-.029600
57	.032684	.021190	-.011811	-.002935	-.036560	-.037134	.014566	.012980	-.017658
58	.032816	.020876	-.014179	-.005636	-.051208	-.050535	.020803	.023182	-.006968
59	.028000	.016074	-.016447	-.008489	-.052343	-.051506	.024555	.030090	.001919
60	.024025	.011944	-.019802	-.013110	-.056981	-.056971	.014638	.022567	-.004735

RUN NO. 78A 16M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.22869 10E 00	0.20594 10E 00	0.62400 10E-01	0.19970 10E 00	0.60509 10E-01	0.54490 10E-01
1	.005797	-.057973	-.030705	-.005064	.001527	-.029598
2	.014929	-.107404	-.053724	-.002752	.000999	-.044441
3	.024605	-.141558	-.069248	.002976	-.000265	-.053246
4	.028376	-.171516	-.081000	.003211	-.004244	-.059444
5	.031037	-.187823	-.090529	-.002280	-.008454	-.062416
6	.041576	.195160	-.099025	-.003797	-.007506	-.063254
7	.056779	-.197935	-.101159	-.005962	-.000750	-.062293
8	.066957	-.198420	-.095951	-.005414	.009833	-.061855
9	.072138	-.190434	-.085905	-.001207	.014930	-.063568
10	.071808	-.177373	-.074582	.007556	.014591	-.063997
11	.070068	-.164357	-.062395	.011981	.012097	-.061269
12	.072796	-.152214	-.046148	.014923	.009457	-.058613
13	.070038	-.136715	-.029964	.018668	.010409	-.056812
14	.065423	-.120140	-.016887	.022061	.017451	-.057280
15	.058084	-.104931	-.009120	.023213	.020738	-.057217
16	.051989	-.092545	-.001327	.027491	.021405	-.063650
17	.057395	-.085812	.011103	.033474	.030031	-.071881
18	.063451	-.080775	.027325	.041009	.035539	-.075536
19	.063488	-.071597	.035408	.046607	.036351	-.072013
20	.059548	-.060382	.037874	.044975	.039720	-.064133
21	.053362	-.044961	.045102	.042482	.040067	-.050623
22	.050254	-.030091	.057687	.038038	.044331	-.037577
23	.046065	-.014093	.064625	.033920	.046084	-.029130
24	.041802	-.001291	.067569	.029478	.044899	-.024361
25	.036064	.005475	.068216	.021793	.041237	-.022932
26	.024769	.011265	.065009	.015294	.036416	-.025470
27	.011825	.023060	.055301	.005440	.030214	-.020067
28	-.006900	.029677	.045355	-.007447	.019672	-.009159
29	-.020409	.038465	.038017	-.015339	.010994	.004579
30	-.026085	.049653	.024459	-.013530	.003429	.016698
31	-.032729	.064100	.011590	-.009696	-.002499	.025684
32	-.040583	.078965	.003396	-.007900	-.004982	.031482
33	-.038709	.099718	.001598	-.003527	-.003733	.040195
34	-.033593	.116775	-.000021	.000168	.002694	.052537
35	-.036099	.126573	-.004786	.000371	.008495	.065498
36	-.043330	.126067	-.013292	.003310	.010779	.080560
37	-.047475	.115811	-.026736	.008921	.010054	.092058
38	-.044669	.100935	-.038226	.005048	.014262	.093726
39	-.037811	.083042	-.044950	-.002070	.013729	.085838
40	-.033248	.061255	-.051262	-.003928	.007815	.077777
41	-.033850	.045484	-.058014	-.001230	-.003311	.074989
42	-.034866	.030490	-.064911	.001314	-.014869	.072271
43	-.037281	.017213	-.069717	-.001984	-.025341	.063606
44	-.040482	.006586	-.063072	-.012221	-.029894	.052340
45	-.038459	.000874	-.051210	-.023546	-.026292	.037576
46	-.030422	-.005737	-.042011	-.030760	-.016081	.020264
47	-.026459	-.010179	-.039278	-.034438	-.005481	.009919
48	-.026377	-.015742	-.037022	-.034015	.001240	.002889
49	-.025736	-.016330	-.035280	-.030594	.001575	-.000244
50	-.017436	-.014450	-.031826	-.028284	-.007627	-.006575
51	-.009383	-.018384	-.027040	-.026569	-.013484	-.012582
52	-.010682	-.016917	-.023966	-.020391	-.016279	-.011209
53	-.005721	-.011857	-.027614	-.012600	-.013825	.001033
54	.006305	.000935	-.025342	-.011249	-.008944	.015571
55	.019247	.014580	-.011644	-.011830	.001223	.023874
56	.029796	.028115	-.001202	-.011803	.017344	.025320
57	.036400	.033630	.003575	-.010476	.031567	.021901
58	.041722	.032694	.005697	-.008880	.041017	.016664
59	.037385	.022083	.009049	-.002462	.046857	.010411
60	.024447	.009925	.007339	.003092	.043035	.006462

RUN NO. 78A 16M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(M)	V,N	V,RHO(M)	W,N	W,RHO(M)	T,N	T,RHO(M)	N,RHO(M)
	0.26930 10E 00	0.50807 10E-01	0.26114 10E 00	0.49267 10E-01	0.23516 10E 00	0.44366 10E-01	0.71256 10E-01	0.13443 10E-01	0.58017 10E-01
1	-.008635	-.014199	.003348	.003481	-.017317	-.021140	-.013948	-.011865	.003208
2	-.025860	-.033965	.011051	.010095	-.014471	-.021931	-.021759	-.018611	.004820
3	-.040723	-.050058	.019476	.016962	-.010768	-.020694	-.028346	-.024301	.006252
4	-.059625	-.068852	.022802	.018867	-.004450	-.016815	-.029113	-.025118	.006258
5	-.080117	-.088552	.023219	.018050	.003997	-.010354	-.023926	-.020915	.004910
6	-.098553	-.106086	.026885	.021230	.013438	-.002552	-.017404	-.015302	.003442
7	-.107058	-.113812	.026939	.022797	.019973	.003321	-.013318	-.011701	.002720
8	-.109538	-.114909	.031839	.029319	.018368	.002062	-.006910	-.006041	.001490
9	-.108391	-.111748	.038299	.036079	.016726	.000337	-.002618	-.002408	.000410
10	-.103359	-.105073	.042548	.039661	.014915	-.001197	.001336	.000945	-.000381
11	-.094373	-.094689	.042638	.039385	.014637	-.000832	.001979	.001336	-.000576
12	-.082747	-.081150	.045900	.041676	.013659	-.001127	.005608	.004365	-.001372
13	-.069111	-.066019	.048970	.044392	.011497	-.002669	.009872	.008062	-.002236
14	-.051960	-.048543	.052272	.048699	.005180	-.008184	.011595	.009601	-.002609
15	-.038752	-.035510	.047273	.045136	.003731	-.009400	.010017	.008470	-.002165
16	-.027031	-.023768	.037950	.037285	.003382	-.011014	.008339	.007185	-.001696
17	-.010459	-.006832	.035509	.037027	-.002762	-.018036	.005915	.005162	-.001148
18	.007460	.012145	.030843	.034121	-.009543	-.024591	.000572	.000648	.000154
19	.022498	.026878	.022403	.027369	-.010462	-.024678	-.008687	-.007307	.002112
20	.035929	.039188	.013467	.020546	-.008633	-.021685	-.017830	-.015137	.003995
21	.050317	.053371	.007067	.014988	.000944	-.010600	-.022312	-.019299	.004819
22	.074074	.076449	.006017	.015120	.009784	-.000336	-.026114	-.022746	.005531
23	.094654	.095746	.002028	.012325	.008093	.000215	-.027210	-.023607	.005865
24	.104728	.104950	-.004707	.006328	-.000826	-.006314	-.032134	-.027690	.007085
25	.109690	.109361	-.009308	.001468	-.014569	-.017893	-.035731	-.030703	.008039
26	.110560	.109488	-.010870	-.001124	-.030168	-.031647	-.035709	-.030794	.008053
27	.103549	.101333	-.009889	-.001730	-.043641	-.041793	-.037450	-.032377	.008295
28	.090301	.087628	-.012758	-.006414	-.049548	-.044456	-.039912	-.034374	.008752
29	.082237	.078997	-.016326	-.011467	-.052481	-.043931	-.040435	-.034755	.008819
30	.077255	.071713	-.024614	-.020189	-.054544	-.042942	-.039499	-.034083	.008518
31	.072342	.064667	-.032462	-.028118	-.053885	-.040325	-.041195	-.035341	.008882
32	.068365	.059190	-.039311	-.034475	-.048354	-.034324	-.040881	-.034944	.008838
33	.066309	.056878	-.040109	-.034991	-.041557	-.026493	-.041562	-.035333	.009089
34	.069439	.059046	-.032093	-.026836	-.035178	-.018246	-.048456	-.041163	.010606
35	.069223	.057786	-.020107	-.015305	-.026437	-.007919	-.051553	-.043826	.011478
36	.063722	.051167	-.013761	-.009453	-.012931	.007090	-.051356	-.043743	.011407
37	.049221	.035767	-.013405	-.009294	.000923	.021351	-.051632	-.043895	.011567
38	.028451	.015366	-.012968	-.007977	.004453	.024616	-.045061	-.038185	.010250
39	.007807	-.003784	-.012748	-.007955	.003765	.022307	-.035020	-.029773	.008064
40	-.011654	-.021798	-.013549	-.009691	.007486	.023860	-.025284	-.021581	.005827
41	-.031916	-.040550	-.013655	-.012206	.014200	.028931	-.019540	-.016782	.004482
42	-.051054	-.058306	-.009888	-.011608	.014639	.028718	-.016828	-.014477	.003872
43	-.072364	-.077677	-.007004	-.011495	.013101	.025553	-.013489	-.011516	.003068
44	-.085904	-.087730	.001907	-.004861	.005688	.016695	-.007628	-.006518	.001767
45	-.088722	-.087543	.011120	.003782	-.005687	.003514	.000940	.000900	-.000133
46	-.085805	-.083155	.022870	.015957	-.013121	-.006730	.009376	.008226	-.002073
47	-.083562	-.080579	.037362	.030527	-.013072	-.008968	.018799	.016403	-.004103
48	-.080125	-.077012	.050552	.043390	-.011906	-.009690	.026022	.022532	-.005619
49	-.076278	-.073242	.056599	.048603	-.004986	-.004552	.029944	.025876	-.006667
50	-.070085	-.067293	.055342	.045513	-.003604	-.004767	.037837	.032700	-.008412
51	-.062064	-.059420	.053114	.042243	-.000851	-.003704	.047024	.040685	-.010350
52	-.054132	-.051937	.048772	.037840	.008167	.004341	.052758	.045536	-.011555
53	-.055211	-.053531	.040202	.031070	.024168	.020704	.055397	.047771	-.011980
54	-.057731	-.054975	.026166	.020047	.039200	.036877	.056704	.048843	-.012252
55	-.050095	-.045342	.016061	.013582	.049182	.047152	.059376	.050946	-.012958
56	-.034092	-.029264	.014450	.015692	.053715	.051153	.061194	.052310	-.013611
57	-.014076	-.010961	.012168	.016857	.054203	.050848	.060998	.052028	-.013509
58	.000932	.002427	.013425	.020082	.050234	.046378	.058099	.049388	-.012947
59	.007113	.008598	.018251	.025637	.040749	.036855	.052215	.044239	-.011803
60	.007522	.008685	.021659	.027694	.033792	.029850	.045351	.038267	-.010242

RUN NO. 78A 16M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.23583 10E 00	0.22175 10E 00	0.17983 10E 00	0.16511 10E-01	0.30752 10E 00	0.10946 10E-01
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.859299	.848153	.842527	.869663	.856504	.858873
2	.678554	.655822	.642290	.681969	.673210	.673336
3	.529671	.506363	.481019	.523332	.522834	.519471
4	.409420	.388499	.355396	.397346	.391951	.386543
5	.305663	.282391	.260379	.293199	.285268	.279082
6	.220537	.187722	.179564	.200629	.193380	.186198
7	.145230	.108359	.102693	.118289	.118153	.108261
8	.081469	.041015	.031979	.050603	.055418	.043839
9	.031875	-.016222	-.021689	-.009262	.004631	-.007209
10	.003167	-.054464	-.061970	-.060761	-.037913	-.048930
11	-.022669	-.073653	-.096851	-.101440	-.085232	-.093668
12	-.051956	-.084303	-.124452	-.132388	-.136953	-.141514
13	-.086938	-.103303	-.151843	-.150936	-.180498	-.180205
14	-.118943	-.121491	-.177953	-.154569	-.216335	-.210061
15	-.142335	-.135719	-.201747	-.148177	-.235988	-.225718
16	-.158642	-.153642	-.227630	-.133310	-.255344	-.238975
17	-.170452	-.168708	-.243315	-.119706	-.269563	-.246920
18	-.183579	-.187007	-.253193	-.115149	-.277357	-.251529
19	-.191699	-.205538	-.257693	-.128480	-.283278	-.259666
20	-.199242	-.213429	-.258691	-.151388	-.295475	-.275355
21	-.200214	-.225381	-.266162	-.172726	-.305106	-.288167
22	-.197271	-.247514	-.278283	-.178286	-.296477	-.278793
23	-.201180	-.264959	-.285391	-.177006	-.273802	-.255717
24	-.207101	-.281776	-.286027	-.169961	-.232365	-.217253
25	-.208577	-.291569	-.277241	-.161486	-.196430	-.184080
26	-.205254	-.279783	-.264074	-.155826	-.170685	-.162271
27	-.207711	-.256497	-.240566	-.154618	-.153378	-.148571
28	-.208421	-.229430	-.213682	-.154785	-.135960	-.134845
29	-.201322	-.198068	-.187929	-.147670	-.105186	-.109917
30	-.189006	-.162843	-.157582	-.136148	-.073029	-.083470
31	-.172201	-.116487	-.114361	-.116101	-.039243	-.053490
32	-.144676	-.077024	-.080620	-.089755	-.002563	-.018188
33	-.115994	-.048017	-.054039	-.074020	.029284	.011145
34	-.090517	-.023269	-.025473	-.067516	.049270	.027771
35	-.071419	.003923	.005230	-.065654	.053700	.030211
36	-.048378	.024921	.032620	-.065684	.051581	.026968
37	-.030379	.042658	.054229	-.066377	.059568	.033559
38	-.022004	.062957	.086809	-.069326	.068164	.042380
39	-.013343	.075647	.110025	-.069443	.076963	.052195
40	-.010435	.080076	.121085	-.067304	.083645	.059775
41	-.001569	.085677	.125820	-.058561	.090383	.069115
42	-.002097	.087474	.127834	-.047721	.095471	.078404
43	-.008828	.091336	.125072	-.043448	.100509	.088255
44	-.011289	.089292	.134691	-.042456	.110467	.100929
45	-.012173	.081480	.143600	-.042445	.105533	.099087
46	-.014069	.076615	.147364	-.051691	.085291	.080524
47	-.020028	.060953	.155082	-.059559	.054229	.052331
48	-.026085	.045629	.157136	-.056844	.020599	.022848
49	-.032384	.032907	.158829	-.052394	-.008015	-.002296
50	-.034303	.017451	.145717	-.045744	-.027960	-.019336
51	-.036007	-.003842	.120143	-.040623	-.041139	-.029575
52	-.035621	-.018347	.088418	-.035061	-.043723	-.029332
53	-.030285	-.023271	.055041	-.028046	-.044007	-.027956
54	-.021935	-.026477	.020161	-.023237	-.043854	-.027394
55	-.005962	-.024439	-.007495	-.018330	-.043724	-.027619
56	.017108	-.025519	-.032947	-.011105	-.037816	-.023395
57	.027961	-.027811	-.057909	.001561	-.024714	-.011971
58	.033946	-.032243	-.074236	.023117	-.013895	-.000509
59	.036538	-.047937	-.071687	.039913	-.004231	.008451
60	.037573	-.064666	-.074440	.044549	-.009324	.000989

RUN NO. 78A 16M 10-25-62 0806-0850 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-02	10E-02	10E-02	10E-02	10E-02
0	-.122983	-.048017	-.053179	-.005179	.004137	.019491
1	-.879495	-.281600	-.463805	.114148	.123906	.207274
2	-.419539	-.167471	-.376812	.056897	.203367	.336499
3	.127609	-.320660	-.196859	-.006059	.192132	.408663
4	.092014	-.514002	-.140044	.087250	.067201	.260902
5	.032721	-.289293	-.171014	.063808	.023967	.132290
6	.096589	-.069249	-.147034	-.126328	.039921	.073442
7-8	.080265	-.003788	-.073365	-.291619	-.012871	.055547
9-11	.048474	.030282	-.041978	-.028861	-.005580	.024471
12-15	-.030139	.008632	-.031806	.022123	.002227	.024864
16-20	-.024909	-.007348	-.020126	.004905	.004808	.006180
21-27	-.009971	-.003022	-.004570	-.007381	.002527	.008614
28-36	-.004741	.005168	-.003059	-.002219	.002297	.000303
37-47	.002312	.006872	-.001225	-.002632	-.000653	.000994
48-60	.000737	-.002144	-.001623	.000017	.001181	.000229

QUADRATURE SPECTRUM

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
1	.610314	-.082941	-.009146	.273744	.115182	-.125453
2	.756827	-.137208	-.044008	.212694	.065184	-.197003
3	.512850	-.145430	-.194740	.034656	-.004682	-.134989
4	.053640	-.074422	-.224744	-.117584	-.039736	-.010194
5	-.021103	-.047077	-.112253	-.155361	-.025546	-.023978
6	.056196	-.047255	-.051182	-.053096	.000723	-.040795
7-8	-.000910	-.017968	-.029588	.051807	.004722	-.025732
9-11	-.050261	-.006556	-.004672	-.003547	-.007243	-.013090
12-15	.014352	-.003905	-.002478	.016856	.002545	-.009421
16-20	.009292	-.000946	-.005199	-.014596	.005942	-.001843
21-27	-.009593	-.000060	-.002767	-.009655	-.002093	-.002275
28-36	-.003880	-.000752	.000400	-.007016	.000595	-.001704
37-47	.000957	.000257	-.000320	.002227	.000080	-.001109
48-60	.000382	.000346	.000062	-.001554	.000009	-.000012

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	.042555	.029134	.009290	.029432	.034616	.012263
1	.352331	.258293	.155584	.233791	.300892	.109603
2	.391635	.349511	.278793	.246409	.454615	.160159
3	.371649	.377091	.327269	.240302	.581337	.198593
4	.236743	.217788	.193363	.184358	.404739	.140888
5	.160763	.131543	.117098	.139501	.214330	.081181
6	.146262	.148170	.109838	.118718	.155058	.059864
7-8	.098482	.120169	.084327	.082711	.129451	.048290
9-11	.068318	.056902	.049662	.034927	.085240	.029970
12-15	.034134	.030413	.029787	.029517	.053607	.019287
16-20	.021764	.023992	.021684	.014870	.024977	.008984
21-27	.014462	.014753	.012532	.009931	.018480	.006614
28-36	.008803	.009876	.006780	.005104	.011298	.003814
37-47	.005337	.005309	.004839	.003121	.007833	.002677
48-60	.003695	.003681	.003164	.001897	.004702	.001569

RUN NO. 78A 16M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-02	10E-01	10E-02	10E-02	10E-02	10E-01
0	-.096594	-.025140	-.021520	-.002750	.006800	.014567	.039106	.011612	.006296
1	-.308168	-.133540	.016178	.025069	.102801	.203602	.401511	.107078	.055866
2	.055131	-.059018	.251693	.077666	.197458	.379610	.573623	.137135	.083806
3	.093450	-.019901	.473275	.111529	.246765	.472209	.671292	.151684	.106013
4	-.316074	-.075769	.282275	.058087	.148731	.287231	.503329	.114496	.074447
5	-.445090	-.102463	.078577	.017539	.070628	.137843	.354544	.082514	.041024
6	-.253977	-.067552	.150420	.032066	.042327	.081515	.265954	.064446	.029848
7-8	-.080090	-.026044	-.020663	-.005492	.028421	.056038	.203695	.047832	.024568
9-11	-.070703	-.019100	-.084651	-.014667	.016664	.031420	.112992	.024555	.015808
12-15	-.043157	-.012713	-.029042	-.004180	.017746	.033155	.075618	.017505	.010005
16-20	-.028065	-.008079	-.023602	-.002948	.007582	.013371	.034208	.008163	.004652
21-27	.004257	-.000076	-.013355	-.001671	.005274	.010141	.025594	.005905	.003441
28-36	.000370	-.000528	.004467	.001110	.001889	.003138	.012549	.002930	.002042
37-47	-.000006	-.000220	-.009535	-.001661	.001057	.001936	.009148	.002037	.001428
48-60	-.003119	-.000816	.000977	.000374	.000633	.001036	.004947	.001142	.000844

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-03	10E-02	10E-03	10E-02	10E-03	10E-03
1	.034162	.053392	.267024	.644637	-.216231	-.573376	-.141803	-.230315	.254224
2	-.040449	-.073132	.408770	.780229	.054759	-.265845	-.012380	-.021490	.020339
3	-.131928	-.248434	.479573	.765817	.236543	.140918	.049814	.079586	-.091172
4	-.095112	-.194399	.140878	.155712	.079048	.112685	-.020612	-.033741	.034466
5	-.024143	-.058749	-.039012	-.108286	-.095555	-.197325	-.049354	-.080571	.084259
6	-.005526	-.017437	-.037730	-.057927	-.004261	-.082244	-.045419	-.074263	.079005
7-8	.005053	.002873	-.028286	-.036617	-.003441	-.051363	-.035601	-.057005	.063718
9-11	.006021	.008792	.035706	.046529	-.078278	-.148620	-.010139	-.016422	.019137
12-15	.002645	.003820	.002517	.011247	-.049035	-.094529	-.008895	-.014243	.016734
16-20	.001055	.000779	-.004220	.004446	-.014943	-.027076	-.000423	-.000281	.002170
21-27	-.000286	-.000965	-.009979	-.019587	-.005486	-.012686	-.000017	-.000079	-.000112
28-36	.000633	.001055	-.003931	-.005297	-.013515	-.024952	-.000283	-.000500	.000638
37-47	.000501	.000764	.001175	.002129	-.006274	-.011985	-.000951	-.001474	.001994
48-60	.000323	.000526	-.001787	-.002990	-.002373	-.003694	-.000415	-.000679	.000950

RUN NO. 78A 16M 10-25-62 0806-0850 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
	0.31377 10E 00	0.18965 10E 00	0.90966 10E-01	0.20691 10E 00	0.99242 10E-01	0.59985 10E-01
0	-.106628	-.214027	-.527384	-.115455	-.110971	.319861
1	-.096589	-.114031	-.444260	-.112574	-.137274	.095738
2	-.021647	-.084315	-.334807	-.094431	-.170098	.049268
3	.052298	-.065987	-.202743	-.065915	-.152643	.020390
4	.113911	.006547	-.081032	-.055546	-.113299	.028050
5	.097850	.027867	-.103833	-.030382	-.075866	.021388
6	.090083	.014796	-.062497	.020177	-.070188	-.061043
7	.118902	-.024645	-.054158	.023444	-.079616	-.010117
8	.130044	.033357	-.011227	.047285	-.043513	.003544
9	.150549	.087436	.087031	.031603	-.019185	-.022815
10	.117177	.030854	.144233	.052203	.021795	.022377
11	.072059	-.012187	.160529	.058177	.074207	.018225
12	-.020640	.024128	.156854	.052074	.123848	.029065
13	-.104552	.021631	.129093	.098591	.201789	.037973
14	-.110720	.030906	.161540	-.016001	.129242	.010333
15	-.057082	.006055	.140193	-.010592	.062327	.002544
16	-.061164	.070967	.190471	.076604	.049340	.013436
17	-.078500	.045143	.237806	.050895	.047592	.029290
18	-.141893	.017176	.210708	.035493	.101537	.011517
19	-.178994	-.010876	.211384	-.009815	.129820	-.069109
20	-.236768	-.002212	.178301	.055054	.152453	-.070884
21	-.235623	-.005451	.094368	.099431	.188867	-.025057
22	-.209785	-.038622	.045803	.072576	.185133	-.044688
23	-.216292	-.047181	.002970	.084421	.148929	-.040486
24	-.153378	-.033236	-.017456	.040266	.087851	-.030266
25	-.101853	-.001741	-.028367	.042194	.066830	.059236
26	-.060683	-.045337	-.053570	.023854	.060519	.035698
27	-.011034	-.049424	-.022529	-.063957	.031358	-.037308
28	.080562	-.033070	.037793	-.045227	.023446	-.025904
29	.191381	-.001302	.083033	-.028952	-.022655	.020199
30	.209028	.071807	.078448	-.034252	-.027045	-.087110

COSPECTRUM

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
0	.011698	-.096183	-.015522	-.013729	-.079843	.067437
1	.188979	-.528304	-.136336	-.713781	-.901047	.230580
2	.047423	-.575425	-.124089	-.752429	-.680621	.109927
3	-.153538	-.545228	-.074019	-.591295	-.246276	.100040
4	-.139970	-.378058	-.035005	-.430300	-.003072	.162308
5	-.088839	-.372066	-.030674	-.138829	.138522	.147526
6	-.039635	-.265952	-.017631	-.008948	.048011	.086129
7	.008840	-.115709	-.020121	-.042613	-.156903	.077293
8	-.036056	-.140199	-.031740	-.010643	-.045463	.049421
9-11	-.042690	-.159564	-.014112	.047334	.092127	.058553
12-14	.000773	.105250	.000298	-.073015	.070161	.076727
15-21	.006315	-.127345	.000402	.003846	.001581	.049587
22-30	.003008	-.104159	-.003834	.011825	.005742	.084539

RUN NO. 78A 16M 10-25-62 0806-0850 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.35604 10E 00	0.67241 10E-01	0.38843 10E 00	0.73358 10E-01	0.23478 10E 00	0.44340 10E-01	0.11261 10E 00	0.21268 10E-01	0.83241 10E-01
0	-.298981	-.383666	-.132289	-.140177	.490576	.497651	.503896	.674240	.977627
1	-.273574	-.341973	-.143613	-.156455	.208992	.202563	.290660	.412704	.582261
2	-.255159	-.299377	-.151413	-.170903	.059569	.063059	.205078	.295869	.325583
3	-.193859	-.214891	-.118551	-.138685	.063594	.059917	.191257	.247857	.306491
4	-.089633	-.096394	-.062988	-.081693	.062781	.060826	.130087	.154312	.166315
5	-.062889	-.078884	-.033174	-.046679	.045922	.044662	.128963	.140451	.055303
6	.014781	-.002464	-.006956	-.023195	-.089718	-.091842	.045651	.051886	-.068378
7	.013390	-.001695	.044443	.018572	-.092483	-.081507	.031347	.034824	-.143748
8	.022022	.016178	.089705	.066168	-.090250	-.076269	.004162	.003047	-.193133
9	.109863	.115091	.061628	.047808	-.111305	-.100874	-.060097	-.078770	-.267193
10	.120403	.138070	.084560	.077756	-.083332	-.066068	-.024040	-.052739	-.240685
11	.094687	.120405	.116957	.118413	-.053170	-.041293	-.040413	-.081659	-.224436
12	.082816	.109274	.098859	.114846	-.041346	-.028701	-.072366	-.119434	-.242335
13	.098552	.115679	.076049	.113987	-.004662	.004882	-.076632	-.110125	-.259506
14	.154887	.171361	.013703	.043510	.005121	.006482	-.153008	-.182083	-.248267
15	.156583	.167657	.001101	.016557	-.011961	-.010056	-.176973	-.194760	-.175620
16	.184069	.203184	.011365	.021927	.027666	.026482	-.204010	-.219318	-.113343
17	.168579	.201684	-.006965	.005694	.054291	.053269	-.193188	-.212582	-.035673
18	.103515	.139918	.019475	.041412	.035914	.033566	-.146738	-.162271	.014888
19	.085225	.124606	-.006330	.026126	-.028581	-.041584	-.193032	-.220607	-.015524
20	.037759	.076144	-.005769	.032147	-.017557	-.032715	-.112817	-.148825	.079127
21	-.018795	.007147	.036297	.077120	-.020876	-.024330	-.057630	-.093675	.086460
22	-.056743	-.037391	.068956	.103962	-.041334	-.046499	-.032808	-.068338	.064018
23	-.075605	-.064412	.089431	.112452	-.069948	-.069847	.040087	.013664	.106558
24	-.093937	-.085302	.078421	.088172	-.073217	-.069436	.006208	-.019395	.037420
25	-.088663	-.083635	.068577	.074309	.018691	.030789	.068620	.051063	.075944
26	-.070629	-.073748	.085125	.087207	.053575	.054712	.098717	.074121	.108751
27	-.049625	-.047940	.031624	.033988	-.020047	-.025999	.044665	.013959	.040689
28	-.073631	-.053002	.005529	.009971	-.013895	-.017695	.074508	.039501	.050781
29	-.031584	-.006297	-.038372	-.038815	.036364	.036219	.083044	.040550	.062563
30	.074195	.082699	-.015439	-.019892	.006854	-.015333	-.011220	-.048778	-.011385

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-01	10E-02	10E-01	10E-02	10E-01	10E-02	10E-01
0	-.031630	-.078825	-.012005	-.033781	.017886	.040973	.021874	.054955	.013173
1	-.310988	-.746603	-.163109	-.425903	.100359	.204230	.145677	.359835	.108055
2	-.346701	-.782677	-.182004	-.417009	.104425	.189327	.119337	.294024	.139806
3	-.241835	-.523588	-.192324	-.355205	.139267	.243410	.059000	.165023	.144183
4	-.092627	-.212712	-.124165	-.200889	.133142	.244323	.022227	.077805	.080349
5	-.094239	-.207235	-.009801	.009164	.070463	.140362	.033855	.083030	.042065
6	-.058311	-.125281	.016015	.034439	.031689	.066690	.022627	.058591	.034717
7	-.001403	-.038661	.001165	-.026438	.027570	.058533	.007389	.036750	.025592
8	-.007653	-.069934	-.001467	-.010518	.020815	.042408	.007951	.035138	.015452
9-11	-.006705	-.036033	.015611	.041852	.041231	.076976	.016137	.036960	.020895
12-14	.020674	.033731	.001961	.015714	.057178	.106206	.012007	.025618	.018660
15-21	.001792	.003648	.005766	.009504	.031839	.060416	.010826	.023854	.020447
22-30	-.011574	-.025382	.001987	.004510	.029122	.062075	.012626	.028838	.011042

RUN NO. 78A 16M 10-25-62 0806-0850 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
	0.31377 10E 00	0.18965 10E 00	0.90966 10E-01	0.20691 10E 00	0.99242 10E-01	0.59985 10E-01
1	.124385	-.140120	-.067299	.107563	.100149	-.008686
2	.166123	-.047473	-.064398	.162247	.179709	.025152
3	.169264	.024730	-.116805	.121929	.192383	.109055
4	.162092	.071666	-.156338	.120915	.177646	.152873
5	.162181	.050556	-.160259	.143260	.168750	.127927
6	.156770	.093482	-.110763	.181028	.168030	.134292
7	.119316	.033567	-.088579	.182253	.109681	.089052
8	.109740	.081793	-.049974	.189304	.086408	.117891
9	.082203	.156119	-.025224	.177709	.078709	.129453
10	.019835	.081605	-.025294	.099737	.011254	.091033
11	-.076849	.076730	-.013149	.055054	-.059123	.145057
12	-.168053	.128545	.003263	.006802	-.112087	.111305
13	-.180519	.148296	.030866	.014467	-.130215	.058851
14	-.138682	.038587	.036332	.014121	-.161331	.013874
15	-.111945	-.041332	-.008171	.009028	-.146619	.063399
16	-.139733	.010091	-.010553	-.004659	-.080638	.048562
17	-.112618	.004672	-.000713	-.006527	-.071216	.034701
18	-.070430	.012905	.072257	-.020315	-.038215	-.016100
19	-.044631	-.031200	.039863	.018894	.058223	-.011386
20	-.079265	-.100060	.043961	-.037454	.068247	-.071189
21	.026315	-.125644	.063519	-.010835	.102606	-.087762
22	.080454	-.026939	.059541	-.085762	.117036	-.107495
23	.095415	-.022605	-.001338	-.107013	.133899	-.127532
24	.140308	-.010483	-.020538	-.058820	.185774	-.111140
25	.164997	-.032610	-.072367	-.103311	.188846	-.083206
26	.158189	-.043317	-.140234	-.121031	.217230	-.036571
27	.161879	-.154943	-.142088	-.030267	.270705	-.088871
28	.186439	-.136957	-.103373	.077792	.281977	-.132740
29	.176127	-.139684	-.093544	.035564	.259787	-.084624
30	.150023	-.157147	-.070347	-.047910	.155220	-.073450

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	.004427	.986068	-.286485	.160560	.208579	.454766
2	.143584	.758439	-.382786	.154534	.411609	.378028
3	.280339	.099515	-.415898	.114730	.871864	.163846
4	.166791	-.364539	-.275803	.056879	.586853	.045758
5	.034522	-.237552	-.199187	.009623	.119603	.043199
6	.004322	-.115988	-.056376	-.009237	.062770	.004394
7	.019723	-.151668	.013519	.011311	.142897	.011721
8	.060168	-.228970	-.002300	.027977	.141278	-.007506
9-11	.024636	-.290082	.052949	.029441	.043885	-.071996
12-14	.022013	-.338811	-.020546	.012798	.031824	-.038810
15-21	.002810	-.142360	-.038841	.000103	-.015334	-.003858
22-30	.002534	-.080573	-.022264	-.003006	-.003685	.007553

RUN NO. 73A 16M 10-25-62 0806-0850 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(M)	V,N	V,RHO(M)	W,N	W,RHO(M)	T,N	T,RHO(M)	N,RHO(M)
	0.35604 10E 00	0.67241 10E-01	0.38843 10E 00	0.73358 10E-01	0.23478 10E 00	0.44340 10E-01	0.11261 10E 00	0.21268 10E-01	0.83241 10E-01
1	-.033095	-.044751	.088868	.100404	.006599	.003353	-.051553	-.044222	.012382
2	.007250	-.009465	.141405	.164820	.002040	.007718	-.090295	-.077472	.021865
3	-.002128	-.030035	.132609	.160433	-.004736	.022680	-.121736	-.104398	.029647
4	-.078536	-.105077	.155872	.176855	.029143	.062552	-.111207	-.095140	.027312
5	-.133996	-.153448	.188717	.202693	.084771	.103499	-.072136	-.061890	.017486
6	-.091753	-.105094	.166401	.183268	.118720	.134193	-.058553	-.050470	.014458
7	-.100452	-.107110	.110610	.121326	.106182	.112166	-.052637	-.045449	.012855
8	-.059752	-.062751	.111028	.116075	.086079	.102081	-.084077	-.072291	.020143
9	-.006887	-.011669	.081207	.089189	.041176	.066798	-.082831	-.071068	.020360
10	.028617	.018413	.025946	.025857	-.017269	.007256	-.073767	-.063609	.018033
11	.079730	.085129	-.011702	-.023507	.016096	.048893	-.068396	-.059193	.016349
12	.131557	.113244	-.043279	-.063706	-.023575	.006564	-.040750	-.035426	.009438
13	.142126	.129419	-.055849	-.079002	-.048391	-.027233	.002936	.002100	-.001103
14	.104708	.098818	-.084240	-.110962	-.015468	-.009838	.011385	.009510	-.002890
15	.031341	.024990	-.079991	-.104131	.069577	.075325	.030968	.026015	-.007383
16	.008069	.004422	-.044986	-.058254	.071027	.072126	.012686	.010787	-.003266
17	.008170	.006855	-.038612	-.050232	.030648	.034439	-.009057	-.007739	.002244
18	.033485	.046193	.003762	-.005711	-.037815	-.035968	.002902	.002312	-.000655
19	.022260	.029286	.069972	.073856	-.060563	-.054783	.010005	.008489	-.002689
20	.007934	.017897	.033140	.044685	-.086421	-.091485	.005547	.004466	-.001675
21	-.001661	.014260	.053310	.070181	-.038606	-.054324	.042894	.036020	-.010494
22	.044153	.052445	.051853	.072051	-.081757	-.095376	.032640	.028299	-.007656
23	.029742	.025205	.009530	.039830	-.087359	-.105636	.011998	.010484	-.003273
24	-.001868	-.006960	.030737	.070919	-.022200	-.046841	.007653	.006684	-.002238
25	-.010168	-.026741	.004331	.049123	-.011844	-.030164	-.014850	-.012158	.004085
26	-.084949	-.107196	-.002378	.050215	.027463	.014728	-.022292	-.018737	.005918
27	-.149008	-.161922	.050523	.108693	.014110	-.009766	-.014112	-.011771	.003993
28	-.097632	-.109150	.088910	.144478	-.045031	-.070908	-.005715	-.004821	.001885
29	-.092003	-.101883	.099539	.147901	-.036531	-.051294	-.002483	-.001616	.001414
30	-.142106	-.139255	.053289	.083053	-.002616	-.019716	.033258	.028872	-.007640

QUADRATURE SPECTRUM

K	U,N	U,RHO(M)	V,N	V,RHO(M)	W,N	W,RHO(M)	T,N	T,RHO(M)	N,RHO(M)
	10E-01	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	.036684	.009237	.159279	.296775	.534925	.167858	-.468081	-.761974	.834676
2	-.059903	-.164881	.191768	.385288	.660616	.174547	-.448739	-.728450	.806576
3	-.145896	-.310162	.260715	.577875	.456757	.103319	-.358235	-.579293	.648701
4	-.110798	-.228390	.182526	.399759	.243741	.047788	-.169992	-.273821	.309220
5	-.000451	-.036746	.039563	.085302	.045266	.015251	-.092073	-.148171	.165868
6	.085917	.128395	.007115	.023204	-.481930	-.076919	-.114595	-.185856	.202078
7	.066083	.108941	.029930	.074976	-.533558	-.084079	-.188184	-.305435	.335845
8	.014094	.022107	.016700	.052737	-.094686	-.016680	-.157404	-.254461	.283875
9-11	.014484	.033080	.011295	.025735	.017825	-.010297	-.000228	-.000832	-.003083
12-14	-.020534	-.037050	.019522	.037309	.127814	.013498	.038146	.061463	-.068250
15-21	-.021414	-.041679	.002641	.001504	.003029	-.000200	.000469	.001027	-.001148
22-30	-.003280	-.009209	-.003387	-.006187	.011198	.003135	-.006412	-.010584	.010213

RUN NO. 78A 16M 10-25-62 0806-0850 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.28760 10E 00	0.34231 10E 00	0.12506 10E 00	0.28772 10E-01	0.44076 10E 00	0.15721 10E-01
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.587006	.700784	.298030	.674975	.598236	.598281
2	.291533	.466359	.001912	.497338	.322353	.350305
3	.143390	.356942	-.017922	.348842	.304087	.322192
4	.031228	.245659	.113955	.180157	.157464	.179586
5	-.066967	.085838	.053367	.126458	.028197	.081158
6	-.044088	-.076108	-.145845	.054785	-.092660	-.046175
7	-.060685	-.122129	-.086501	.034284	-.176784	-.114698
8	-.098920	-.189071	-.102379	-.002227	-.227099	-.164357
9	-.145794	-.296460	-.100297	-.112830	-.295231	-.247725
10	-.144883	-.357616	-.051841	-.132190	-.274403	-.218812
11	-.168278	-.373208	-.085391	-.195543	-.251067	-.211598
12	-.189396	-.292259	-.080781	-.236993	-.263016	-.236102
13	-.112916	-.209651	-.002298	-.182256	-.281484	-.248902
14	-.142575	-.154377	-.045172	-.210203	-.246377	-.256934
15	-.223714	-.118711	-.117410	-.178097	-.154565	-.197922
16	-.219659	-.111233	-.105604	-.185456	-.074508	-.150216
17	-.214282	-.027809	-.056789	-.197023	.013173	-.082040
18	-.218869	.035058	-.049005	-.153751	.058960	-.026449
19	-.154854	.110620	-.046697	-.230106	.036626	-.066737
20	-.087607	.169823	-.085376	-.215526	.124815	.031340
21	-.004478	.143331	-.146726	-.181795	.117796	.050890
22	.029402	.137592	-.127567	-.165924	.083995	.038281
23	.104757	.094044	-.154696	-.085244	.112809	.094764
24	.098134	-.007392	-.089185	-.104771	.041019	.028184
25	.102572	-.086664	.095219	-.034114	.068560	.078061
26	.153501	-.087103	.194047	-.043905	.098482	.111567
27	.066804	-.130697	.160045	-.099871	.034567	.038430
28	-.079680	-.179929	.092461	-.099755	.037875	.053274
29	-.049446	-.280522	.227677	-.125638	.049404	.063484
30	-.029613	-.336076	.090814	-.161302	-.009523	-.022020

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-02
0	.028225	.095453	.062489	.109949	.057367	.031092
1	.364912	.557614	.902287	.696431	.507307	.238982
2	.429188	.650062	.974307	.565187	.732741	.278616
3	.347094	.724716	.877736	.388200	.826983	.262544
4	.229427	.406007	.854639	.232734	.472775	.143764
5	.238665	.156530	.695423	.156876	.222607	.082933
6	.185719	.108149	.514434	.121041	.189608	.066700
7	.141268	.076465	.438441	.136195	.150127	.048030
8	.154419	.103809	.317859	.123634	.087041	.031231
9-11	.103989	.065520	.526475	.060204	.111453	.040395
12-14	.063216	.071803	.751531	.034619	.102273	.034717
15-21	.058366	.053628	.405741	.035277	.114574	.037315
22-30	.041606	.034322	.413054	.047076	.054308	.023019

RUN NO. 78A 40M 10-25-62 0806-0850 EST

GROSS STATISTICS

4 CI CS	WIND SPEED 3.55 M/SEC		WIND DIRECTION 313 DEG
UNSTABLE	SIGMA A 14.0 DEG		SOLAR RADIATION 0.67
LAND	SIGMA E 11.4 DEG		NET RADIATION 0.33

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.11654E 01	0.71695E 00	0.43791E-00	0.49609E-00
V	0.74702E 00	0.43739E-00	0.25985E-00	0.32866E-00
W	0.32966E-00	0.29355E-00	0.21749E-00	0.20046E-00
T	0.17481E-00	0.33712E-01	0.14700E-01	0.27465E-01
N	0.16846E 01	0.36521E-00	0.20359E-00	0.28339E-00
RHO(W)	0.35920E-01	0.12742E-01	0.69365E-02	0.99532E-02
E	0.11211E 01	0.72436E 00	0.45763E-00	
GUSTINESS RATIOS				
U	0.30410	0.23851	0.18641	0.19840
V	0.24347	0.18630	0.14359	0.16149
W	0.16174	0.15262	0.13137	0.12612
COVARIANCES				
U*V	-0.72746E-01	0.14271E-01	0.48616E-02	0.22752E-01
U*W	-0.20872E-00	-0.12197E-00	-0.39315E-01	-0.12845E-00
U*T	-0.11700E-00	-0.10305E-00	-0.42750E-01	-0.86238E-01
V*W	-0.83409E-01	-0.85549E-01	-0.50088E-01	-0.71247E-01
V*T	0.48077E-01	-0.26208E-02	-0.54724E-02	-0.27111E-02
W*T	0.45758E-01	0.27398E-01	0.12610E-01	0.24264E-01
U*N	-0.71977E 00	-0.15200E-00	-0.62855E-01	-0.13718E-00
U*RHO(W)	-0.13728E-00	-0.43080E-01	-0.17859E-01	-0.37667E-01
V*N	-0.62037E-01	-0.47214E-01	-0.28983E-01	-0.44806E-01
V*RHO(W)	-0.13395E-02	-0.80917E-02	-0.56711E-02	-0.77339E-02
W*N	0.22747E-00	0.12752E-00	0.71807E-01	0.10224E-00
W*RHO(W)	0.44993E-01	0.25550E-01	0.13875E-01	0.20903E-01
T*N	-0.23487E-00	0.36914E-01	0.20041E-01	0.29008E-01
T*RHO(W)	-0.64587E-02	0.12022E-01	0.58791E-02	0.96356E-02
N*RHO(W)	0.22969E-00	0.65564E-01	0.36441E-01	0.50947E-01
WE	0.51214E-01	0.32347E-01	-0.49425E-02	
NORMALIZED COVARIANCES				
U*V	-0.07796	0.02548	0.01441	0.05635
U*W	-0.33673	-0.26588	-0.12739	-0.40733
U*T	-0.25921	-0.66285	-0.53283	-0.73880
V*W	-0.16808	-0.23875	-0.21070	-0.27757
V*T	0.13304	-0.02158	-0.08855	-0.02854
W*T	0.19061	0.27541	0.22302	0.32700
U*N	-0.51369	-0.29705	-0.21051	-0.36586
U*RHO(W)	-0.67096	-0.45072	-0.32404	-0.53604
V*N	-0.05530	-0.11813	-0.12601	-0.14682
V*RHO(W)	-0.00818	-0.10839	-0.13358	-0.13522
W*N	0.30525	0.38946	0.34125	0.42895
W*RHO(W)	0.41348	0.41775	0.35723	0.46796
T*N	-0.43282	0.33268	0.36634	0.32880
T*RHO(W)	-0.08151	0.58006	0.58222	0.58278
N*RHO(W)	0.93374	0.96110	0.96971	0.95929

RUN NO. 78A 40M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED CUSPECTRUM COVARIANCE

M	U•V	U•W	U•T	V•W	V•T	W•T
	0.33733 10E 00	0.30867 10E 00	0.80267 10E-01	0.23771 10E 00	0.61815 10E-01	0.56563 10E-01
0	.014433	-.127071	-.532975	-.210521	-.088483	.222707
1	.008732	-.140841	-.476471	-.194391	-.076684	.220177
2	.017073	-.149288	-.383105	-.165246	-.066460	.201955
3	.028606	-.145052	-.309394	-.137279	-.067485	.173910
4	.038417	-.136053	-.256287	-.113264	-.070358	.139091
5	.045524	-.120429	-.209829	-.089396	-.070794	.104504
6	.052517	-.108347	-.163646	-.068989	-.061557	.077848
7	.055013	-.094707	-.127857	-.050761	-.052409	.057035
8	.058624	-.081826	-.093965	-.043819	-.046716	.034881
9	.059209	-.069226	-.066506	-.034763	-.043682	.018024
10	.058833	-.049815	-.051505	-.022339	-.042266	.001769
11	.054150	-.026943	-.024800	-.012803	-.033784	-.006574
12	.046452	-.008259	.003100	-.006405	-.016521	-.015524
13	.040440	.014904	.026244	.002064	.004676	-.030395
14	.027837	.042770	.047397	.010422	.024624	-.044878
15	.010704	.065447	.066811	.025038	.038390	-.060275
16	-.012166	.080480	.087870	.037619	.052204	-.063817
17	-.030899	.086628	.110226	.043104	.066909	-.059909
18	-.043119	.096291	.131769	.052710	.077443	-.056301
19	-.050450	.103376	.158196	.060586	.087131	-.060883
20	-.051690	.112655	.167868	.067838	.087586	-.073407
21	-.046743	.115990	.172167	.071555	.082251	-.077903
22	-.039738	.110711	.183281	.073609	.079987	-.073947
23	-.044787	.102676	.196384	.079377	.081328	-.069124
24	-.053854	.098676	.200661	.091475	.084975	-.064032
25	-.056750	.082719	.190859	.103716	.085730	-.059298
26	-.058947	.067148	.175950	.112705	.080989	-.044985
27	-.061511	.048556	.154712	.118591	.079770	-.028007
28	-.073148	.041330	.139180	.115452	.084951	-.020024
29	-.085345	.039605	.117824	.106410	.087698	-.018338
30	-.087045	.036370	.100812	.094212	.079706	-.026308
31	-.077777	.029454	.079634	.074425	.068694	-.036500
32	-.073693	.020316	.064055	.054092	.060605	-.040396
33	-.073147	.011775	.050044	.034116	.047135	-.042220
34	-.063260	.001935	.026375	.021758	.025893	-.038956
35	-.047164	-.008524	.004770	.013717	.002191	-.033189
36	-.028482	-.019330	-.008886	.010371	-.022838	-.027869
37	-.011283	-.034985	-.009523	.000718	-.044275	-.017639
38	.004647	-.044534	-.009526	-.010984	-.063724	-.008208
39	.015387	-.047145	-.012578	-.026214	-.078003	-.000368
40	.019602	-.038011	-.020017	-.041460	-.082482	.005348
41	.025183	-.031872	-.034001	-.053371	-.084254	.013732
42	.035144	-.031848	-.031781	-.060188	-.086877	.026263
43	.050354	-.027998	-.026477	-.064334	-.086968	.027705
44	.060973	-.022769	-.028739	-.062273	-.083602	.020752
45	.070460	-.015029	-.032859	-.059507	-.082560	.014518
46	.074049	-.009048	-.046410	-.053627	-.077876	.011184
47	.076580	-.007228	-.048153	-.047382	-.069873	.009536
48	.068990	-.006251	-.038219	-.044922	-.054974	.004839
49	.069231	.001358	-.031180	-.043704	-.042757	-.001445
50	.062143	.006439	-.014314	-.039378	-.033177	-.006790
51	.055421	.003019	-.008306	-.033844	-.026540	-.012987
52	.049650	.004163	-.006103	-.036230	-.023607	-.012803
53	.041661	.006501	.006132	-.036266	-.017284	-.007129
54	.032410	.014572	.017716	-.027535	-.013079	-.002201
55	.025913	.022609	.027531	-.025341	-.015161	.005660
56	.021885	.026419	.021481	-.023386	-.012534	.009991
57	.013898	.025059	.014294	-.021656	-.007106	.013550
58	-.003659	.025516	.007593	-.019047	.001706	.017736
59	-.020909	.030856	.002866	-.016365	.009049	.015759
60	-.031420	.038351	.002157	-.013778	.005633	.015474

RUN NO. 78A 40M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN. NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	0.29859 10E 00	0.55137 10E-01	0.22995 10E 00	0.42463 10E-01	0.21041 10E 00	0.38855 10E-01	0.54716 10E-01	0.10104 10E-01	0.37586 10E-01
0	-.210494	-.324109	-.126203	-.133517	.340832	.356929	.366212	.582462	.969539
1	-.198735	-.299084	-.123435	-.127925	.314154	.332934	.334918	.522694	.860068
2	-.170307	-.249616	-.117713	-.119970	.260085	.280872	.275679	.426320	.684242
3	-.142728	-.206185	-.111978	-.115185	.202120	.222691	.220673	.342104	.527040
4	-.116006	-.168972	-.104489	-.109541	.152340	.170075	.180086	.278882	.400615
5	-.095769	-.138916	-.090624	-.097620	.117079	.130200	.148841	.227773	.313937
6	-.078968	-.112156	-.067770	-.075276	.095616	.104464	.121378	.182500	.243698
7	-.071117	-.095985	-.048463	-.055940	.081167	.086115	.095055	.141695	.182911
8	-.067702	-.084158	-.035566	-.043260	.065376	.066350	.067868	.100920	.125278
9	-.065331	-.074905	-.027970	-.035934	.047092	.045885	.043257	.065198	.071277
10	-.053109	-.060272	-.023470	-.031494	.025127	.022323	.024239	.039788	.030799
11	-.028342	-.031107	-.011784	-.019215	.001434	-.000631	.003402	.011989	-.004575
12	-.009505	-.007112	.008805	.003337	-.023280	-.024607	-.018979	-.019143	-.043058
13	.002872	.009683	.033436	.030409	-.051847	-.053425	-.041181	-.049515	-.076796
14	.018770	.028968	.056509	.055603	-.074035	-.076651	-.065852	-.082273	-.104924
15	.032466	.046260	.075393	.075617	-.089725	-.094481	-.089797	-.112234	-.128918
16	.040066	.058605	.087312	.089624	-.100166	-.104491	-.104812	-.133353	-.144693
17	.043799	.067879	.095561	.100692	-.103385	-.106250	-.110285	-.146088	-.157512
18	.046693	.076040	.104448	.111058	-.108765	-.110035	-.109363	-.151806	-.164936
19	.055732	.090595	.112529	.120702	-.118551	-.119864	-.106803	-.156779	-.172109
20	.065466	.101677	.111278	.119682	-.121293	-.125481	-.109669	-.163704	-.189986
21	.074290	.110062	.102309	.110536	-.119184	-.124750	-.111675	-.168559	-.210320
22	.083767	.121355	.090407	.099685	-.115299	-.120506	-.113990	-.174121	-.240381
23	.094495	.134194	.081155	.092000	-.107969	-.112721	-.115786	-.179085	-.268026
24	.104021	.143621	.073991	.086655	-.103421	-.107282	-.116785	-.180584	-.290770
25	.109834	.146016	.070198	.083479	-.101188	-.104079	-.111314	-.173232	-.302015
26	.108471	.141062	.068695	.081117	-.099213	-.098465	-.100411	-.158348	-.291995
27	.100190	.128283	.071551	.083444	-.094167	-.089570	-.090382	-.144366	-.272117
28	.093898	.118748	.070802	.084310	-.081070	-.076103	-.081010	-.132345	-.248909
29	.084251	.104722	.062633	.077962	-.069684	-.065690	-.071382	-.119221	-.218497
30	.075327	.092299	.052586	.067071	-.061526	-.060862	-.058864	-.100776	-.184396
31	.063839	.076504	.042894	.055707	-.057129	-.059730	-.043274	-.077751	-.152692
32	.045705	.056754	.031094	.043376	-.051852	-.055988	-.028920	-.058829	-.124629
33	.030090	.039328	.017600	.028190	-.046714	-.051924	-.019793	-.044769	-.099971
34	.019895	.024061	.005180	.011655	-.042968	-.047723	-.011710	-.030560	-.075412
35	.008560	.008327	-.006235	-.004698	-.034941	-.039114	-.005884	-.018753	-.053401
36	-.004616	-.006774	-.020598	-.023588	-.024533	-.028458	-.004400	-.013125	-.034096
37	-.015777	-.016439	-.041504	-.047247	-.013436	-.016027	-.000386	-.007388	-.014786
38	-.021850	-.022013	-.065559	-.073287	.000799	-.001110	.003437	-.003085	.000181
39	-.029454	-.029376	-.088510	-.096856	.015762	.013894	.010235	.003922	.010430
40	-.039433	-.039736	-.109814	-.116679	.029745	.027418	.021226	.015939	.020332
41	-.046247	-.049563	-.123959	-.129677	.042995	.040989	.035272	.033423	.027564
42	-.040410	-.044184	-.127613	-.133704	.052393	.052434	.041669	.043231	.032953
43	-.033550	-.036882	-.129521	-.135705	.062284	.061404	.040417	.044322	.038688
44	-.026844	-.031242	-.136515	-.141162	.068677	.065135	.038226	.044471	.046155
45	-.019917	-.026207	-.137712	-.141860	.076309	.070145	.034950	.044056	.053692
46	-.016531	-.026890	-.132814	-.136310	.083007	.075245	.032174	.041894	.055834
47	-.015633	-.026546	-.123457	-.126019	.084860	.076268	.030506	.040390	.052677
48	-.013682	-.022102	-.103144	-.104497	.083990	.074285	.029309	.040363	.049548
49	-.007083	-.014365	-.081524	-.082339	.074219	.064293	.027176	.039459	.048214
50	-.001966	-.005400	-.064924	-.065376	.058536	.049197	.021315	.032507	.042896
51	.001923	-.000339	-.053396	-.053667	.046446	.037017	.009517	.018108	.027620
52	.010865	.008282	-.046576	-.046940	.040078	.031445	-.003004	.002553	.004469
53	.024581	.023233	-.037684	-.037740	.030250	.024241	-.015650	-.012916	-.021868
54	.036030	.036409	-.027106	-.027447	.021449	.017654	-.027384	-.026427	-.045491
55	.038331	.040786	-.017580	-.019679	.010770	.010426	-.037556	-.037159	-.065062
56	.031180	.032937	-.005677	-.008524	-.001602	.000704	-.044167	-.043803	-.076424
57	.016510	.018201	.008878	.005424	-.011783	-.006884	-.044593	-.043825	-.080002
58	.002025	.003904	.022561	.019483	-.019863	-.012583	-.040920	-.040982	-.080323
59	-.003598	-.002178	.032226	.029952	-.029200	-.021176	-.035427	-.036160	-.080730
60	-.002090	-.001460	.039004	.035107	-.034148	-.025621	-.033458	-.034347	-.083267

RUN NO. 78A 40M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.33733 10E 00	0.30867 10E 00	0.80267 10E-01	0.23771 10E 00	0.61815 10E-01	0.56563 10E-01
1	.005795	-.010464	-.030398	-.002934	.017844	-.018683
2	.013465	-.018299	-.046357	.001462	.035039	-.021492
3	.020526	-.028582	-.055334	.004799	.047610	-.020202
4	.035144	-.042136	-.066974	.003301	.055794	-.019630
5	.052032	-.057052	-.073205	.008562	.061877	-.012976
6	.069090	-.070315	-.076747	.013979	.066931	-.006612
7	.082574	-.081497	-.082875	.019743	.064548	-.001717
8	.095430	-.096021	-.090868	.018991	.057611	.000167
9	.100641	-.102753	-.092550	.016362	.048645	.003677
10	.096755	-.105260	-.087723	.012206	.042913	.005160
11	.095906	-.104425	-.087007	.007708	.034604	.007027
12	.096860	-.097376	-.082278	.006135	.030871	.003910
13	.097370	-.083219	-.069022	.007162	.030399	.004389
14	.093944	-.068757	-.059512	.007641	.031119	.011790
15	.092932	-.049596	-.050158	-.000705	.028830	.021600
16	.093170	-.025724	-.040021	-.011349	.026035	.035711
17	.092932	-.010340	-.025406	-.026620	.027015	.036881
18	.090291	.004125	-.018570	-.036110	.027933	.027447
19	.074549	.010868	-.017791	-.040450	.022470	.017374
20	.047612	.011907	-.014673	-.041107	.012198	.011618
21	.020363	.002076	-.007791	-.040410	.002106	.001968
22	.001280	-.004667	.004669	-.037174	-.007021	-.004394
23	-.012649	-.004099	.015086	-.033627	-.012557	-.008361
24	-.025315	-.004768	.025415	-.031789	-.012871	-.014103
25	-.036396	-.005635	.034037	-.032884	-.012631	-.021851
26	-.051669	-.003164	.034693	-.033293	-.012532	-.031077
27	-.065436	-.004464	.038985	-.026088	-.013144	-.038067
28	-.066743	-.005270	.043493	-.020231	-.009928	-.047454
29	-.067491	-.006015	.049141	-.019348	-.006698	-.054047
30	-.073194	-.010974	.056457	-.015176	-.008015	-.061767
31	-.079487	-.013863	.055088	-.011348	-.008593	-.070469
32	-.083127	-.016496	.047671	-.012081	-.007891	-.078766
33	-.078788	-.013544	.033316	-.012767	-.006967	-.082657
34	-.078693	-.010155	.023402	-.009457	-.001521	-.083524
35	-.074554	-.022203	.012016	-.006144	.001923	-.084199
36	-.071036	-.037192	-.001180	-.011081	.003554	-.085128
37	-.072149	-.041027	-.000552	-.012529	-.002422	-.087247
38	-.073508	-.040647	.001116	-.009381	-.010574	-.091209
39	-.067168	-.047649	.001563	-.002935	-.015210	-.089917
40	-.056423	-.048581	.004644	.001745	-.015032	-.082237
41	-.051345	-.040690	.006660	.006576	-.006792	-.065865
42	-.041077	-.026846	.001568	.011888	.007119	-.047664
43	-.025740	-.003258	-.001712	.015284	.013981	-.029864
44	-.012034	.007630	.001050	.024163	.018606	-.006956
45	.004928	.017603	.002070	.031369	.025208	.017008
46	.018847	.023291	-.001589	.034062	.031177	.036983
47	.035239	.028781	-.012718	.031001	.043495	.053830
48	.048683	.037652	-.028947	.022706	.058523	.063128
49	.056962	.035455	-.040524	.014159	.066857	.065278
50	.063189	.034249	-.052323	.009121	.066086	.065256
51	.063241	.035560	-.059072	.004186	.061223	.068435
52	.060460	.035488	-.065318	.006128	.052983	.077796
53	.057755	.042456	-.068271	.007438	.041037	.089225
54	.053034	.049067	-.066956	.008024	.024927	.102716
55	.053693	.057210	-.057491	.008631	.012981	.114881
56	.048741	.063398	-.046240	.008619	.003274	.122045
57	.050227	.060685	-.032864	.003276	-.001009	.122446
58	.051297	.056284	-.026822	.004492	-.002778	.114442
59	.040924	.046151	-.023407	.008043	-.004729	.100819
60	.031983	.027335	-.025221	.008989	-.003817	.080145

RUN NO. 78A 40M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	0.29859 10E 00	0.55137 10E-01	0.22995 10E 00	0.42463 10E-01	0.71041 10E 00	0.38855 10E-01	0.54716 10E-01	0.10104 10E-01	0.37586 10E-01
1	-.021977	-.027183	-.009307	-.003418	.007433	.001680	.032544	.028610	-.008537
2	-.037930	-.045387	-.002758	.006989	.002818	-.003192	.040041	.035196	-.010579
3	-.047653	-.056333	.013801	.024774	.001953	-.003562	.038197	.033361	-.010300
4	-.053166	-.064197	.029649	.040929	-.001129	-.006124	.033577	.029511	-.008887
5	-.060083	-.072127	.040263	.051444	-.002962	-.005964	.031381	.027698	-.008158
6	-.062356	-.075041	.039601	.052317	-.011232	-.011239	.032079	.028354	-.008328
7	-.068668	-.082206	.032540	.045394	-.023728	-.020783	.031298	.027679	-.008027
8	-.073114	-.088341	.025295	.037039	-.028143	-.023963	.028286	.024884	-.007065
9	-.073867	-.089394	.013253	.024255	-.031989	-.026434	.017317	.015316	-.004217
10	-.069225	-.084260	-.003048	.008549	-.037074	-.030490	.005363	.004941	-.001108
11	-.064679	-.079935	-.019109	-.007693	-.039759	-.032533	-.004982	-.004312	.001555
12	-.055740	-.071054	-.031421	-.019345	-.044152	-.037319	-.011393	-.010117	.003183
13	-.049261	-.061834	-.034601	-.022220	-.050273	-.042481	-.019672	-.017410	.005358
14	-.052102	-.061801	-.035057	-.022246	-.057344	-.046885	-.029329	-.025885	.007740
15	-.051213	-.058354	-.032076	-.020209	-.053291	-.040914	-.034463	-.030466	.009030
16	-.046344	-.051027	-.029779	-.018760	-.044188	-.029307	-.036584	-.032370	.009646
17	-.044470	-.045242	-.036228	-.024201	-.033303	-.019468	-.030451	-.026967	.008173
18	-.041910	-.041199	-.047372	-.033927	-.013164	-.004287	-.019578	-.017410	.005350
19	-.036953	-.036754	-.056294	-.043184	.005729	.009749	-.006953	-.006408	.002041
20	-.036222	-.035246	-.059865	-.049043	.018794	.019638	.003880	.002988	-.000743
21	-.041001	-.037562	-.064681	-.056117	.022631	.020599	.015459	.012993	-.003914
22	-.044422	-.037261	-.068735	-.062024	.026357	.022105	.020515	.017358	-.005406
23	-.050837	-.040275	-.067285	-.062375	.031850	.025815	.019400	.016403	-.005084
24	-.053195	-.039358	-.059107	-.055107	.036388	.028195	.013372	.011125	-.003542
25	-.051429	-.035796	-.047484	-.044912	.030079	.020816	.004952	.003806	-.001376
26	-.042107	-.027482	-.039882	-.038293	.023465	.012479	-.004737	-.004546	.001259
27	-.024137	-.010327	-.042039	-.040410	.018566	.006731	-.010448	-.009442	.002844
28	-.012086	.001491	-.042959	-.040533	.013703	.000098	-.011799	-.010484	.003394
29	-.004342	.009372	-.042449	-.039143	.013809	-.001667	-.011432	-.010069	.003169
30	.007876	.021699	-.041716	-.038942	.017232	-.000764	-.010994	-.009385	.002912
31	.016739	.028814	-.042524	-.039746	.016261	-.003999	-.010052	-.008199	.002791
32	.018869	.028512	-.044040	-.040814	.011957	-.010236	-.008747	-.007033	.002458
33	.028851	.033545	-.042644	-.039716	.003291	-.018872	-.009057	-.007430	.002293
34	.035300	.036528	-.037135	-.032761	-.000871	-.022720	-.008545	-.007310	.002157
35	.028471	.027847	-.030393	-.026054	-.003564	-.025554	-.003767	-.003110	.000980
36	.012952	.010898	-.020839	-.017226	-.005515	-.027657	.009346	.008365	-.004436
37	-.003557	-.003159	-.010043	-.009143	-.009315	-.031643	.025873	.022741	-.006916
38	-.008508	-.007426	-.004045	-.005953	-.021318	-.043169	.039548	.034875	-.010616
39	-.005841	-.005207	.000748	-.003113	-.030936	-.051220	.049296	.043494	-.013140
40	.002603	.003235	.004909	.000540	-.033068	-.051016	.046497	.040887	-.012351
41	.010196	.010428	.011021	.007980	-.029475	-.043262	.029627	.026163	-.007746
42	.017180	.015397	.016381	.016166	-.024871	-.034242	.013752	.012338	-.003417
43	.032291	.027639	.017962	.019210	-.023069	-.027935	.000913	.000970	.000019
44	.048741	.042534	.016886	.019444	-.019739	-.019053	-.012049	-.010296	.003408
45	.066966	.058975	.018041	.022213	-.014325	-.008100	-.022929	-.019888	.006094
46	.075255	.065203	.023837	.028800	-.009039	.001513	-.025830	-.022324	.006654
47	.064071	.052675	.031752	.038960	-.008580	.006446	-.020830	-.017887	.005284
48	.048823	.035128	.045693	.055148	-.009896	.007926	-.017469	-.014913	.004485
49	.032866	.020902	.058451	.068554	-.006268	.011918	-.018044	-.015583	.004647
50	.024792	.007930	.066159	.075236	.001725	.018813	-.017650	-.015430	.004358
51	.019405	.001484	.072628	.079920	.011727	.028432	-.016257	-.014252	.003879
52	.004165	-.013430	.078409	.082806	.015816	.034192	-.010516	-.009144	.002432
53	-.010905	-.027604	.077210	.078412	.018596	.039499	-.002160	-.001557	.000123
54	-.021791	-.036907	.074505	.071642	.020592	.044890	.001153	.001348	-.000643
55	-.024580	-.037002	.072811	.066969	.021944	.049031	-.000415	-.000166	-.000201
56	-.028796	-.037501	.073109	.064548	.023802	.052600	-.004358	-.003884	.000820
57	-.032381	-.037042	.073296	.063533	.028101	.056561	-.006918	-.006262	.001479
58	-.035883	-.038063	.068230	.058831	.032572	.058599	-.006180	-.005655	.001374
59	-.039382	-.039776	.059825	.051180	.028235	.051289	-.005822	-.005376	.001327
60	-.039117	-.040150	.046042	.039459	.021063	.039546	-.010544	-.009609	.002643

RUN NO. 78A 40M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN. NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.43802 10E 00	0.25978 10E 00	0.21752 10E 00	0.14709 10E-01	0.20354 10E 00	0.69406 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.765117	.860029	.842775	.876423	.883979	.888528
2	.567883	.676348	.645526	.706266	.700561	.709591
3	.428485	.531791	.483170	.568426	.537017	.550233
4	.341131	.419968	.349553	.462972	.404631	.423072
5	.273012	.329231	.253605	.372584	.314778	.333924
6	.196036	.260232	.172058	.291615	.242541	.260737
7	.127618	.206414	.115528	.222822	.180859	.196994
8	.065173	.155264	.069275	.157180	.122953	.136076
9	.015298	.097288	.018477	.103140	.068483	.079555
10	-.015199	.043981	-.037133	.069887	.027897	.037473
11	-.037666	-.007962	-.089395	.033713	-.006405	-.000698
12	-.075158	-.058282	-.130311	-.009485	-.043927	-.042398
13	-.099785	-.100081	-.159606	-.051691	-.075803	-.079884
14	-.127066	-.138745	-.177576	-.094956	-.100530	-.113059
15	-.158835	-.172920	-.191869	-.128459	-.120816	-.141925
16	-.185029	-.204351	-.207418	-.158636	-.134375	-.161274
17	-.198290	-.217594	-.223061	-.189440	-.147379	-.175804
18	-.223087	-.229977	-.238338	-.214218	-.156217	-.183747
19	-.253082	-.242010	-.254024	-.241296	-.165065	-.191450
20	-.274042	-.252704	-.266862	-.258385	-.184684	-.208859
21	-.281095	-.263618	-.276927	-.270668	-.207467	-.227774
22	-.282378	-.275607	-.275193	-.284435	-.241190	-.255461
23	-.285278	-.293196	-.262479	-.297299	-.272368	-.280865
24	-.262852	-.306192	-.243923	-.299181	-.298324	-.300990
25	-.224562	-.303168	-.220151	-.289389	-.312743	-.308961
26	-.208437	-.292161	-.199713	-.268517	-.304355	-.296487
27	-.172279	-.277937	-.188714	-.248800	-.284508	-.275524
28	-.146249	-.255803	-.166243	-.233856	-.260909	-.252316
29	-.116885	-.218843	-.143561	-.216058	-.228346	-.222471
30	-.083439	-.188402	-.116377	-.188608	-.192822	-.187954
31	-.051866	-.165947	-.077159	-.153443	-.161199	-.154172
32	-.044462	-.139871	-.049460	-.129249	-.133307	-.124728
33	-.034408	-.114229	-.033336	-.105646	-.107773	-.099561
34	-.008622	-.087310	-.013134	-.078277	-.081989	-.074461
35	.004633	-.059009	.007536	-.053232	-.058663	-.052010
36	.023459	-.027261	.026425	-.036514	-.037235	-.033506
37	.024458	.004856	.035874	-.027583	-.016409	-.015113
38	.042951	.030113	.054711	-.023973	-.000596	-.000766
39	.061257	.061162	.077892	-.019867	.009098	.010014
40	.071578	.086606	.095704	-.010073	.017323	.021629
41	.083652	.110252	.103444	.011187	.021230	.032657
42	.089224	.134021	.083766	.025842	.025386	.040004
43	.077753	.143827	.068270	.034388	.032174	.045408
44	.075571	.139019	.065575	.042632	.041430	.051900
45	.084811	.134145	.068272	.051947	.050802	.058568
46	.083416	.117041	.070207	.052594	.054003	.059949
47	.070962	.098053	.066871	.052416	.051008	.056711
48	.042985	.073559	.053970	.056551	.048073	.053740
49	.021176	.053212	.032199	.060343	.047454	.052125
50	-.004557	.037074	.004112	.053834	.043208	.045558
51	-.006533	.022515	-.017991	.038427	.029156	.028511
52	-.009714	.005893	-.030790	.021752	.006124	.004351
53	-.021462	-.011971	-.033093	.004997	-.020374	-.022601
54	-.043311	-.030514	-.025881	-.007128	-.043748	-.046912
55	-.062658	-.037426	-.016339	-.014361	-.063017	-.066876
56	-.044967	-.041282	-.007749	-.018503	-.074230	-.078341
57	-.030733	-.048447	-.000119	-.017112	-.078474	-.081264
58	-.003258	-.057432	.002402	-.018880	-.080237	-.080547
59	.008534	-.058966	.002474	-.019456	-.082441	-.079526
60	-.006482	-.058094	.014019	-.019865	-.086109	-.081085

RUN NO. 78A 40M 10-25-62 0806-0850 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-01	10E-02	10E-02
0	.002469	-.013327	-.093478	-.008686	.008271	.033328
1	.577489	-.109015	-.722705	-.087022	-.069369	.237051
2	.978541	-.150605	-.869599	-.124146	-.225581	.269473
3	.525988	-.169040	-.851255	-.111430	-.242250	.274275
4	-.382631	-.080201	-.423298	-.031739	-.028023	.183008
5	-.350142	-.001172	-.163165	-.014985	.035790	.114772
6	-.253903	.015278	-.161503	-.031918	.003319	.067576
7-8	-.263390	.011030	-.180251	-.020307	.030062	.044750
9-11	.047596	-.000381	-.100530	-.013772	-.015722	.023467
12-15	-.058533	.000524	-.059113	-.004615	.000903	.010510
16-20	.002620	.004037	-.039061	-.002358	.000295	.000925
21-27	.009769	.002519	-.027994	-.001855	-.008191	-.002877
28-36	.003980	.001755	-.012795	-.000763	-.002886	-.000334
37-47	.012176	.001168	-.003419	-.000404	-.001714	-.000794
48-60	.008340	.000466	-.002374	-.000159	-.000570	-.000517

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	.045480	-.927602	-.109054	-.308604	.086076	-.106084
2	.129072	-.722746	-.197570	-.108273	.090673	.040034
3	.151160	-.761511	-.284194	.180605	.123403	.074434
4	.041546	-.802900	-.184004	.236452	.084927	-.053450
5	-.017267	-.400051	-.064125	.118081	.051384	-.056009
6	-.016498	-.044027	-.025125	.012475	.034162	-.015315
7-8	-.000617	.184469	-.026134	-.076379	.033878	-.010242
9-11	-.007027	.082752	-.000881	.000503	.011928	-.008374
12-15	-.004881	-.004261	-.014306	-.028317	-.002278	-.012585
16-20	-.000092	-.004939	-.005751	.013597	-.000159	-.002908
21-27	.000599	-.000049	-.002152	-.003033	.001277	-.001098
28-36	.000648	-.009116	-.004075	-.009094	-.000989	-.003023
37-47	-.000388	.001153	.000682	-.003787	-.000044	-.000918
48-60	-.000320	-.000028	.000802	.002089	-.000336	.000092

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	.050208	.043409	.020435	.034441	.041301	.014306
1	.448401	.366924	.217285	.250969	.320130	.109904
2	.631398	.477243	.323593	.282283	.366143	.127534
3	.725701	.482017	.381629	.265368	.341259	.121820
4	.446698	.251008	.248745	.144491	.182693	.066409
5	.221985	.140897	.141359	.075266	.113315	.038876
6	.181422	.13?413	.119455	.064679	.123900	.039058
7-8	.187714	.091796	.095689	.058882	.097912	.030718
9-11	.110812	.062039	.059796	.035906	.048246	.016447
12-15	.072542	.046633	.045421	.020154	.036759	.011897
16-20	.058217	.027386	.022435	.013068	.021422	.007089
21-27	.044334	.014812	.013526	.008724	.010037	.003388
28-36	.028232	.010334	.008390	.004924	.004916	.001613
37-47	.020513	.005528	.006163	.002478	.003254	.000996
48-60	.018860	.003728	.003831	.001736	.001550	.000494

RUN NO. 78A 40M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	10E-01	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.017711	-.045472	-.000826	.000175	.009390	.021225	.041634	.012957	.074148
1	-.134439	-.347268	-.019745	-.044649	.097513	.200565	.314610	.096067	.573480
2	-.160016	-.415421	-.090936	-.187245	.145914	.284509	.396192	.114822	.662139
3	-.145565	-.389337	-.122500	-.240507	.152924	.296837	.421359	.115862	.626026
4	-.067781	-.154040	-.043661	-.075089	.083234	.167838	.245378	.065652	.338598
5	-.008336	-.043008	-.012052	-.013162	.047347	.097314	.118850	.032697	.204349
6	-.026948	-.072509	-.006042	-.009300	.028241	.057922	.080600	.024634	.214498
7-8	-.018343	-.061700	.007015	.016657	.018970	.038704	.058017	.019956	.168262
9-11	-.013004	-.039192	-.008433	-.016421	.020233	.036854	.046106	.013925	.086246
12-15	-.013293	-.032166	.001622	.002720	.015309	.026583	.028668	.008279	.064459
16-20	-.001095	-.008084	.002806	.004507	.004996	.008276	.018731	.005369	.037931
21-27	-.002030	-.008342	-.001612	-.004148	.001438	.001829	.008645	.002957	.017717
28-36	-.000226	-.002691	-.000325	-.001062	.000886	.001341	.002888	.001360	.008449
37-47	-.000250	-.000981	.000144	-.000075	.000351	.000421	.001009	.000606	.005450
48-60	.000197	-.000080	-.000024	-.000124	.000238	.000296	.000671	.000422	.002589

QUADRATURE SPECTRUM

K	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03	10E-03	10E-03
1	-.914886	-.167776	-.692042	-.961900	-.139680	-.411081	-.005002	-.001785	.004407
2	-.899398	-.181248	-.287467	-.299015	-.171732	-.199450	-.044331	-.008257	.010878
3	-.578982	-.145730	.222779	.584990	-.313503	-.369181	.122195	.019995	-.020320
4	-.252883	-.075253	.305679	.647902	-.237940	-.479653	.398933	.066091	-.071096
5	-.209873	-.045923	.217350	.441495	.060147	-.000168	.421899	.069346	-.075755
6	-.245688	-.043888	.162258	.321793	.186913	.276992	.628808	.101642	-.113394
7-8	-.094127	-.019582	.063401	.165950	.123478	.178722	.458670	.074141	-.083783
9-11	-.022974	-.003766	.009448	.039297	-.027353	-.061292	-.041850	-.006954	.005838
12-15	-.006092	-.003566	-.082590	-.137587	.032281	.029713	.113405	.018319	-.020512
16-20	-.035076	-.006721	-.023709	-.038919	-.009834	-.020605	.102514	.016593	-.018606
21-27	-.002335	-.000732	-.022682	-.034473	.008522	.011825	.050365	.008290	-.008873
28-36	-.004456	-.001453	-.003237	-.007172	.007361	.006448	.027465	.004509	-.004386
37-47	.003569	.000502	-.002942	-.004707	.003530	.004374	.012053	.001923	-.002405
48-60	-.003119	-.000394	.000576	-.000165	.003185	.005346	.004603	.000679	-.000988

RUN NO. 78A 40M 10-25-62 0806-0850 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
	0.40391 10E 00	0.31557 10E 00	0.11672 10F 00	0.25702 10E 00	0.95065 10E-01	0.74273 10E-01
0	.056329	-.407048	-.738837	-.277201	-.028518	.326683
1	.068661	-.310929	-.541767	-.185316	-.001801	.187209
2	-.015460	-.149290	-.343641	-.094991	.033699	.121410
3	-.039349	-.108553	-.250519	-.004461	.020103	.077631
4	.031004	-.077100	-.197612	-.024481	-.066479	.030222
5	.074634	.002141	-.090934	.013077	-.085311	-.005141
6	.025530	.061577	.024743	.058651	-.080275	-.028243
7	.029762	.055839	.084006	.102499	-.073119	-.053412
8	.081368	.095725	.138326	.123424	-.081363	-.109496
9	.052959	.154403	.182478	.071092	-.073540	-.094628
10	-.025704	.179386	.191490	.079997	-.026239	-.084580
11	-.019135	.129106	.184565	.037696	-.060068	-.013448
12	-.043569	.153030	.150577	.037077	-.028820	-.021540
13	-.069969	.176849	.157439	-.013149	.024840	-.033716
14	-.085650	.132795	.224400	-.036651	.104527	-.070631
15	-.026622	.049065	.209772	-.047731	.087511	-.033316
16	.025512	-.023487	.080811	-.007659	.053432	-.022164
17	.053697	-.010710	.060323	.024544	.071108	-.047698
18	.049346	.025710	.141497	-.047690	.080464	-.098140
19	-.061502	-.042908	.136286	-.025124	.147868	-.042031
20	-.076523	-.036130	.046104	.042734	.167224	-.046053
21	-.034264	.002901	.043328	.078222	.113875	-.066060
22	-.061342	-.012437	.027901	.072054	.106392	.012427
23	-.068752	-.055450	.007863	.022439	.056509	.039949
24	-.037129	-.092963	.010727	-.062774	-.032250	.123395
25	.040578	-.102184	-.026881	-.053329	-.115830	.081454
26	.003946	-.094951	-.022361	.025758	-.119719	.071980
27	-.036044	-.090883	.005514	.035222	-.096391	.089619
28	-.009076	-.071039	.020657	-.037338	-.117239	.109610
29	-.001625	-.080226	-.021429	.040110	-.048646	.090191
30	-.020038	-.037500	.005499	.124148	.037929	.031414

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	.016398	-.006434	-.021071	-.004823	-.044095	.024561
1	.100493	-.143443	-.172083	-.052107	-.385063	.292702
2	.057546	-.251390	-.179119	-.075079	-.163692	.376981
3	.004759	-.285077	-.153567	-.117837	.253273	.353545
4	-.035574	-.160969	-.091641	-.131456	.254892	.294855
5	-.058907	-.060336	-.054096	-.079567	.077778	.247315
6	.000199	-.045692	-.032729	-.026131	.045493	.095271
7	.077723	-.071628	-.022499	-.021675	-.035528	.041444
8	.043274	-.053405	-.016486	-.019248	.013695	.043248
9-11	.027143	-.036095	-.023234	-.027823	-.077111	.091354
12-14	.041327	-.020515	-.017244	-.033322	-.059476	.020160
15-21	-.011446	-.026358	-.011413	-.003194	-.013989	.054903
22-30	-.012394	.001907	-.006089	-.007793	.001230	.046345

RUN NO. 78A 40M 10-25-62 0806-0850 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED CUSPECTRUM COVARIANCE

M	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	0.37491 10E 00	0.70267 10E-01	0.30536 10E 00	0.57230 10E-01	0.23857 10E 00	0.44713 10E-01	0.88240 10E-01	0.1653B 10E-01	0.53122 10E-01
0	-.365898	-.536047	-.146733	-.135137	.428550	.467490	.328736	.582627	.959063
1	-.274546	-.398532	-.084840	-.073440	.270572	.289480	.199065	.383077	.641338
2	-.172767	-.251625	-.036704	-.021658	.128794	.148082	.106643	.220001	.353310
3	-.120068	-.178713	-.037060	-.025766	.068463	.082764	.079743	.148614	.170893
4	-.140753	-.180567	-.052552	-.065129	.040954	.044703	.077732	.110500	.052267
5	-.081763	-.097742	.003907	-.022396	-.004536	-.005164	.056139	.052005	-.080673
6	-.036061	-.023833	.089004	.052293	-.061164	-.061192	.037514	-.004789	-.155594
7	-.000974	.023992	.147152	.104475	-.129299	-.127037	.035707	-.022989	-.194963
8	.015103	.054494	.105591	.067017	-.182001	-.189283	.045625	-.037477	-.203543
9	.025555	.076897	.056223	.026534	-.132631	-.143004	.082155	-.008632	-.202226
10	.042086	.093304	.051850	.036479	-.147725	-.153416	.086916	.010563	-.246291
11	.097647	.139638	.013704	-.006895	-.130970	-.116652	.064760	.013534	-.238764
12	.087128	.120120	-.040983	-.044031	-.115933	-.106742	.038791	.011842	-.168902
13	.107898	.140236	-.085193	-.065776	-.028433	-.035379	-.023383	-.035843	-.123908
14	.158119	.203357	-.067504	-.026907	.000093	-.021474	-.134671	-.152599	-.120578
15	.165115	.205008	-.084833	-.046867	.048711	.031209	-.158471	-.172330	-.037408
16	.130540	.137046	-.114071	-.081998	.083286	.064390	-.161449	-.155021	.027248
17	.155522	.153217	-.110614	-.074079	.063755	.039233	-.207816	-.188249	.014389
18	.205209	.219517	-.067556	-.033666	.033962	-.000645	-.255520	-.249588	-.019480
19	.136772	.159167	-.014313	.032167	.035740	.016999	-.231477	-.237261	.061345
20	.032319	.042455	.028739	.075270	.044705	.023856	-.195817	-.201698	.099649
21	.009100	.021628	.057537	.083402	-.010943	-.029481	-.147677	-.165273	.043862
22	.045631	.048009	.147564	.159264	-.036560	-.027650	-.120314	-.143415	-.061088
23	.016557	.016645	.180655	.172770	-.047766	-.028799	-.049688	-.081742	-.096875
24	-.011273	-.006071	.148074	.117870	-.018614	.021892	.046828	.024253	-.080390
25	-.063783	-.062943	.112614	.062400	-.050391	-.018100	.082938	.057885	-.112192
26	-.093426	-.087618	.127715	.073501	-.025734	-.000296	.115577	.090341	-.070362
27	-.080522	-.068254	.055616	.018517	.005236	.032259	.132996	.111517	.004905
28	-.106485	-.085828	-.063101	-.089450	.069179	.093320	.171464	.146839	.137226
29	-.110129	-.102086	-.116231	-.113943	.063778	.082923	.145351	.122325	.155345
30	-.048877	-.041225	-.066514	-.045708	.045783	.049728	.050767	.021673	.073911

COSPECTRUM

K	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	10E-01	10E-02	10F-01	10E-02	10E-01	10E-02	.0E-02	10E-02	10E-02
0	-.040696	-.103447	-.007456	-.020102	.007386	.016265	.121475	.030665	.066057
1	-.370164	-.908441	-.022745	-.106580	.073705	.172913	.903883	.225622	.544515
2	-.348487	-.886076	.000596	-.028574	.123885	.269492	.573838	.170790	.695482
3	-.188963	-.581365	-.088095	-.096175	.200310	.387592	-.012672	.077411	.876565
4	-.059476	-.260871	-.164834	-.219976	.174150	.334157	.000986	.070412	.696627
5	-.077921	-.223274	-.061757	-.085777	.067738	.154139	.329562	.100057	.400277
6	-.064195	-.162125	.003700	.014214	.021802	.052246	.249703	.064374	.314353
7	-.031806	-.091440	.014114	.016575	.031794	.058640	.120607	.033190	.266789
8	-.032688	-.082419	.032060	.054431	.037123	.067805	.046131	.016975	.217149
9-11	-.033517	-.095881	.000271	-.013835	.034577	.072230	.087405	.029518	.136347
12-14	-.044493	-.102743	-.038635	-.072915	.039210	.066603	.091492	.023527	.114494
15-21	-.014997	-.044856	-.008875	-.016844	.016692	.036841	.058225	.016121	.079107
22-30	-.006498	-.021244	-.004744	-.007684	.009705	.024221	.037734	.010437	.049302

RUN NO. 78A 40M 10-25-62 0806-0850 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	0.37491 10E 00	0.70267 10E-01	0.30536 10E 00	0.57230 10E-01	0.23857 10E 00	0.44713 10E-01	0.88240 10E-01	0.16538 10E-01	0.53122 10E-01
1	-.080126	-.090048	-.068191	-.035174	-.006784	-.014360	-.008747	-.007283	.002845
2	-.064470	-.065400	-.175709	-.125373	.020687	.013426	-.041907	-.036230	.012621
3	-.029740	-.035395	-.198347	-.137674	.009985	-.002229	-.061788	-.052803	.018561
4	-.026183	-.039138	-.181693	-.120185	-.007732	-.007782	-.053392	-.045977	.015674
5	.006196	-.012119	-.119401	-.064266	.003908	.031479	-.066298	-.056918	.020032
6	.007406	-.003208	-.112941	-.075178	.031091	.063270	-.073308	-.062801	.022506
7	.008445	.009396	-.109502	-.085953	-.011517	.005037	-.055509	-.047424	.017198
8	.009009	.019740	-.119285	-.112649	-.028541	-.020021	-.006403	-.005273	.002644
9	.000295	.017132	-.068596	-.084199	.004494	.016996	.027091	.023325	-.007474
10	-.057757	-.028238	.010689	-.028897	.004731	.004376	.049807	.042465	-.014452
11	-.064937	-.044424	.071102	.014299	.015290	.008136	.080469	.069013	-.024041
12	-.007118	.003144	.114970	.063010	.026680	.014608	.093466	.080534	-.027688
13	.006871	.020283	.194292	.143936	-.021479	-.032856	.096843	.083229	-.028628
14	.015288	.013389	.191547	.147159	-.006828	-.014647	.064807	.055263	-.019487
15	.044803	.027901	.161869	.113837	.005285	.026505	-.008915	-.007781	.002451
16	.048255	.020681	.122507	.085383	.003438	.042882	-.027096	-.023119	.008330
17	.018951	-.014248	.129481	.109897	.010488	.046496	-.025639	-.021684	.007913
18	.067325	.036545	.045143	.030078	.042228	.080626	-.085585	-.073175	.025465
19	.121854	.102975	-.038326	-.045558	.012087	.044456	-.156732	-.134550	.046210
20	.120167	.111894	-.077799	-.071484	.000863	.017967	-.150350	-.129299	.043815
21	.110365	.106071	-.066269	-.029803	-.012138	-.008155	-.130651	-.113098	.038062
22	.151220	.134727	-.069468	-.017356	.011364	.017699	-.145969	-.126279	.043261
23	.134957	.121772	-.096339	-.038569	-.010143	-.021554	-.128474	-.110881	.037448
24	.061731	.055065	-.015253	.052862	-.033801	-.054130	-.094605	-.080895	.028005
25	-.045127	-.048817	.043324	.107001	.013199	-.016211	-.056627	-.048056	.017052
26	-.082514	-.079470	.067571	.118833	.051624	.019333	-.035937	-.030645	.010917
27	-.094206	-.078594	.080760	.118077	.093722	.043821	.018716	.016042	-.005219
28	-.111111	-.094477	.070163	.105884	.065708	.013344	.060653	.052698	-.017274
29	-.164155	-.141279	.042070	.080334	.050279	-.011549	.139587	.120634	-.040946
30	-.212130	-.184986	.035811	.053757	.006729	-.050919	.207441	.178825	-.061369

QUADRATURE SPECTRUM

K	U•N	U•RHO(W)	V•N	V•RHO(W)	W•N	W•RHO(W)	T•N	T•RHO(W)	N•RHO(W)
	10F-02	10E-02	10E-01	10E-02	10E-03	10E-03	10E-02	10E-03	10E-03
1	.352608	.055883	.006924	-.029593	.986887	.615490	-.087438	-.140567	.166023
2	-.646888	-.099545	-.120766	-.196398	.149217	.129568	.040891	.066530	-.061549
3	-.310599	-.065167	-.258287	-.329839	.080824	.061528	-.245182	-.394337	.445528
4	.199362	-.025905	-.179331	-.201417	.523788	.357955	-.353548	-.568730	.632999
5	-.367534	-.112744	-.013381	.031784	.556894	.051839	-.047387	-.075942	.082865
6	-.491477	-.083125	-.013493	.000291	.236454	-.343271	.076165	.121487	-.142792
7	-.649693	-.097593	-.057545	-.106247	.918924	-.089314	.048596	.077940	-.090537
8	-.573228	-.099275	-.054055	-.095764	.189080	-.042493	.016528	.027015	-.026711
9-11	-.115227	-.017557	-.018943	-.025674	-.422231	-.160288	-.004391	-.006587	.011496
12-14	-.280108	-.058295	.018338	.031831	.924249	.279830	-.014265	-.023438	.026848
15-21	-.127810	-.030790	.008020	.018557	-.876985	-.183801	.022559	.036629	-.040916
22-30	.016314	-.001867	.008878	.017827	-.209334	-.046077	-.001097	-.000729	.003446

RUN NO. 7HA 40M 10-25-62 0806-0850 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
	0.40391 10E 00	0.31557 10E 00	0.11672 10E 00	0.25702 10E 00	0.95065 10E-01	0.74273 10E-01
1	.076918	-.129649	-.067964	.001587	.079911	-.031352
2	.052378	-.068364	-.032359	-.036355	.087951	-.014678
3	.004550	-.083582	-.031269	-.039793	.110881	-.038036
4	.031318	-.073848	-.054406	-.009876	.120061	-.003322
5	.110297	.007575	-.057978	.021813	.129335	.092201
6	.094242	.043286	-.031533	.056140	.073451	.121968
7	.065594	-.009042	.008310	.073115	.027999	.048836
8	.002986	.038380	.041604	.034289	-.031860	.015304
9	-.079313	.025081	.056837	-.009432	-.083187	.043256
10	-.111392	.014617	.070453	-.014445	-.129469	.001837
11	-.099727	-.042556	.038122	.023682	-.157301	-.018029
12	-.061851	.023883	.032847	.054391	-.117273	-.028755
13	-.037539	.063909	.046043	.102383	-.077521	-.047867
14	-.043219	-.005010	-.001413	.102416	-.059725	-.028492
15	-.060757	.061595	-.035584	.033065	-.087210	.074963
16	-.031001	.109115	-.068735	-.005080	-.066183	.133325
17	-.006462	.085080	-.100951	.012508	-.004786	.123078
18	-.035895	.127543	-.070363	-.028147	-.029380	.145098
19	-.065787	.112301	-.006452	-.118552	-.042282	.115284
20	-.010940	.018424	.027404	-.107008	-.015808	.059821
21	.076070	.041387	.034145	-.067878	.091176	.008808
22	.093188	.087898	.013184	-.077857	.140213	.026171
23	.096122	.030457	.017973	-.065707	.147213	-.041660
24	.136785	-.049208	.006249	.026453	.222756	-.082516
25	.182658	-.113325	-.031461	.037043	.234602	-.091826
26	.160064	-.097017	-.027256	.085590	.203438	-.084580
27	.127479	-.099526	.007546	.131711	.162796	-.122473
28	.127072	-.117509	.005025	.098798	.151952	-.145958
29	.172640	-.152631	.002485	.055575	.146997	-.183610
30	.145783	-.227686	-.007010	.039083	.077220	-.189657

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	-.055704	.729271	-.003274	.463783	-.225017	.251208
2	.006460	-.306556	.030896	.422128	-.007166	.056194
3	.136686	-.687930	-.078981	-.110994	.483387	.025012
4	.120269	-.247980	-.314293	-.362297	.488304	.149829
5	.061143	-.533653	-.293923	.107107	.297179	-.022692
6	-.000124	-.825406	-.022266	-.105137	.123329	-.212187
7	-.070846	-.659549	.041862	-.518663	-.073234	-.133577
8	-.051166	-.409278	-.033312	-.414076	-.046217	-.042471
9-11	.034634	-.203664	.008114	.119578	.030303	-.052104
12-14	.040830	-.129793	-.073243	.037301	.011698	.071595
15-21	.017034	-.256796	-.054136	.063399	.031465	-.024611
22-30	.002550	-.148568	-.023486	.015937	.020101	-.009955

RUN NO. 78A 40M 10-25-62 0806-0850 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.49592 10E 00	0.32897 10E 00	0.20081 10F 00	0.27472 10E-01	0.28343 10E 00	0.99562 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.589083	.581081	.429383	.706294	.675471	.667080
2	.307879	.259807	.149884	.427749	.372813	.370435
3	.256939	.065632	.068771	.267365	.170572	.191743
4	.212775	.015841	.082905	.146304	.037414	.080419
5	.076536	-.114404	-.078833	.013717	-.113205	-.054030
6	-.036991	-.210514	-.121687	-.124084	-.194211	-.135044
7	-.089612	-.200215	-.133798	-.179726	-.239305	-.174389
8	-.111204	-.186900	-.226979	-.256336	-.251980	-.186692
9	-.186152	-.134338	-.202799	-.264748	-.263155	-.176946
10	-.231396	-.097602	-.190836	-.215527	-.315884	-.209114
11	-.275887	-.073203	-.158436	-.142105	-.299539	-.201639
12	-.330265	.045554	-.200347	-.072832	-.209180	-.142164
13	-.309979	.055449	-.107100	-.053142	-.135527	-.117548
14	-.318840	.013011	-.168988	-.123644	-.093477	-.149211
15	-.268240	-.007974	-.111890	-.120588	.011678	-.083756
16	-.083730	-.003519	.015705	-.052363	.088151	-.023319
17	-.059197	.020647	.028552	-.029237	.089657	-.044651
18	-.125615	-.020924	-.002893	-.096547	.066618	-.091996
19	-.073284	.008052	.062751	-.123986	.152376	-.018942
20	.005394	-.033188	.060616	-.106561	.184955	.024215
21	.024593	.008531	-.112690	-.123850	.102611	-.012261
22	.075236	-.001320	-.042153	-.129931	-.029524	-.095500
23	.076221	.013546	-.019757	-.127514	-.095902	-.107622
24	.111395	-.075565	.059001	-.053093	-.109935	-.061800
25	.185184	-.127880	.019366	-.044865	-.159601	-.078947
26	.138548	-.197867	.089555	-.031776	-.122474	-.033008
27	.028835	-.223804	.084500	-.012230	-.041600	.038594
28	-.040140	-.217019	.122062	-.005101	.099515	.162527
29	.023145	-.166363	.135768	-.011267	.129812	.170594
30	.030715	-.119128	.146674	-.077296	.068027	.070582

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	.068807	.064399	.000368	.061635	.027461	.016154
1	.721716	.305479	.121884	.441754	.236320	.128603
2	.909923	.280390	.212347	.433687	.366508	.143120
3	.810350	.391507	.261181	.441879	.544531	.155395
4	.368141	.430130	.197311	.389083	.431622	.125120
5	.190050	.358600	.114552	.258797	.211257	.082665
6	.198379	.246558	.094655	.133384	.167202	.062262
7	.228152	.146538	.094692	.075868	.151941	.049023
8	.166913	.124740	.063795	.052404	.129155	.038185
9-11	.120398	.114895	.075880	.085318	.074699	.027339
12-14	.152682	.103828	.069984	.048959	.061002	.022637
15-21	.114812	.059174	.062014	.037254	.042630	.015648
22-30	.069737	.048233	.046567	.024209	.026404	.009821

RUN NO. 78A 16M 10-25-62 0806-0850 EST
RUN NO. 78A 40M 10-25-62 0806-0850 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.425182	.284141	.616653	.658962	.630620	.626728
1	.317381	.554304	.595628	.445329	.413498	.366424
2	.142953	.433565	.565896	.371640	.358503	.330121
3	.106172	.345870	.533728	.247305	.387554	.361315
4	.243560	.270182	.485926	.141871	.348614	.308419
5	.204986	.189516	.472888	.088325	.214691	.174838
6	.067113	.174476	.489096	.283501	.095533	.054392
7-8	.189074	.195809	.370537	.240483	.175536	.116191
9-11	.082489	.109984	.268898	.293729	.212695	.252460
12-15	.123475	.076389	.209463	.151034	.093217	.086168
16-20	.146120	.111401	.084293	.121593	.158779	.154926
21-27	.094470	.069413	.131526	.205089	.172678	.178632
28-36	.083086	.071352	.151153	.251187	.113415	.162960
37-47	.124446	.153851	.124495	.150503	.185622	.154055
48-60	.150682	.103010	.159040	.143951	.186898	.150563

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10F 01	10E 00	10E 00	10E 00
0	.902851	.982115	.160494	.914589	.972781	.992787
1	.893437	.842191	.092641	.843756	.829588	.850367
2	.794589	.667089	.087249	.743045	.814854	.803293
3	.597670	.562949	.075543	.671846	.834181	.802688
4	.399135	.612252	.066347	.718386	.811649	.776477
5	.540696	.851273	.060351	.787756	.645643	.699928
6	.580028	.691053	.041866	.763566	.630319	.695714
7	.455645	.405877	.037155	.539890	.668429	.656616
8	.392117	.522592	.046869	.303362	.522157	.436155
9-11	.314845	.630359	.066318	.516296	.232854	.236734
12-14	.173182	.352545	.052140	.297750	.653887	.631618
15-21	.411544	.366956	.056535	.338555	.374085	.339508
22-30	.383203	.315317	.061537	.301261	.421961	.417726

RUN NO. 79 16M 10-29-62 1602-1718 EST

GROSS STATISTICS

1 CI	WIND SPEED	3.68	M/SEC	WIND DIRECTION	302 DEG
TRANSITIONAL	SIGMA A	8.5	DEG	SOLAR RADIATION	0.04
LAND	SIGMA E	4.5	DEG	NET RADIATION	-0.15

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.96950E 00	0.40548E-00	0.21365E-00	0.30427E-00
V	0.34293E-00	0.21531E-00	0.16592E-00	0.12263E-00
W	0.87493E-01	0.81393E-01	0.75716E-01	0.34852E-01
T	0.55273E 00	0.56942E-02	0.34923E-02	0.39421E-02
E	0.69996E 00	0.35112E-00	0.22765E-00	
GUSTINESS RATIOS				
U	0.26756	0.17304	0.12561	0.14989
V	0.15913	0.12609	0.11069	0.09516
W	0.08038	0.07753	0.07477	0.05073
COVARIANCES				
U,V	0.19375E-00	0.11689E-01	0.16845E-02	0.14020E-01
U,W	-0.44249E-01	-0.57544E-01	-0.41836E-01	-0.41123E-01
U,T	0.47148E-00	0.14628E-01	0.68024E-02	0.13213E-01
V,W	0.12602E-01	0.10103E-01	0.67206E-02	0.60359E-02
V,T	0.15517E-00	-0.85446E-03	0.63273E-03	-0.16309E-02
W,T	0.13129E-01	-0.62250E-02	-0.49348E-02	-0.36267E-02
WE	-0.84530E-02	0.37503E-02	0.30052E-02	
NORMALIZED COVARIANCES				
U,V	0.33603	0.03956	0.00895	0.07258
U,W	-0.15193	-0.31676	-0.32893	-0.39935
U,T	0.64407	0.30443	0.24903	0.38152
V,W	0.07275	0.07632	0.05996	0.09233
V,T	0.35641	-0.02440	0.02629	-0.07418
W,T	0.05970	-0.28915	-0.30348	-0.30941

RUN NO. 79 16M 10-29-62 1602-1718 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18832 10E 00	0.12721 10E 00	0.27318 10E-01	0.11210 10E 00	0.24073 10E-01	0.16261 10E-01
0	.009037	-.329198	.249283	.059660	.026519	-.303512
1	.005976	-.298335	.245240	.049334	.022407	-.244076
2	.002012	-.248197	.233047	.036558	.019369	-.174510
3	.001180	-.201696	.207873	.024930	.019273	-.123206
4	.006639	-.157019	.180798	.011299	.015563	-.089534
5	.010147	-.111947	.155837	.002256	.002632	-.068033
6	.019063	-.073807	.124945	-.009998	-.020882	-.040134
7	.016521	-.042003	.092326	-.010280	-.034837	-.008084
8	.007175	-.004824	.063969	.000132	-.038515	.013968
9	.005097	.019558	.041485	.001758	-.039707	.023858
10	.009201	.027572	.022197	-.000536	-.027877	.026928
11	.017001	.046255	-.004237	-.004322	-.016208	.031500
12	.020221	.065601	-.034552	-.015932	-.004727	.045053
13	.020005	.075013	-.057556	-.016467	.003941	.059545
14	.010779	.073254	-.071776	-.001642	.008476	.069607
15	.004025	.075090	-.078971	.008129	.006044	.066031
16	.003001	.069925	-.083790	.008013	-.005405	.064643
17	-.003325	.058389	-.089364	.004327	-.013816	.069449
18	-.005666	.049071	-.092864	.007429	-.021446	.073483
19	-.005793	.048249	-.095097	.007015	-.020904	.071580
20	-.012900	.047902	-.100061	.007314	-.022646	.061606
21	-.016426	.049192	-.101177	.009212	-.021244	.047406
22	-.005708	.046190	-.094897	.002397	-.019831	.039810
23	.011285	.045293	-.094524	.004055	-.019856	.031139
24	.017620	.050088	-.092988	.009619	-.015744	.026821
25	.007570	.057016	-.085287	.012920	-.001637	.029130
26	.000134	.054613	-.073019	.003541	.008048	.030981
27	-.004017	.051688	-.062326	-.003362	.014585	.020042
28	-.007695	.045950	-.054342	.000362	.019787	.011374
29	-.010114	.037547	-.047027	.012039	.019147	.002415
30	-.008994	.027879	-.043803	.021840	.015899	-.007009
31	-.013360	.018255	-.039490	.022149	.018320	-.008921
32	-.013563	.018985	-.039986	.012639	.017177	-.006070
33	-.015623	.026177	-.039446	-.004811	.012903	-.001553
34	-.014218	.030357	-.035327	-.022910	.011981	.002539
35	-.016899	.035143	-.028446	-.028040	.013505	.005811
36	-.024493	.042609	-.020647	-.022420	.017334	.004481
37	-.022249	.053410	-.019299	-.024182	.024535	.001120
38	-.018927	.058976	-.014291	-.032388	.025109	.002494
39	-.022438	.051274	-.006754	-.028412	.015170	.011133
40	-.023947	.044622	-.004693	-.022961	.005623	.017980
41	-.014792	.038421	-.006917	-.028065	-.006051	.025223
42	-.006396	.030457	-.007931	-.033714	-.009039	.027151
43	-.001575	.023645	-.005739	-.038662	-.008301	.031627
44	.005863	.020000	-.008245	-.050446	-.003612	.036241
45	.007932	.018722	-.017226	-.065326	-.000007	.044286
46	.015747	.009502	-.021895	-.072878	-.001274	.049070
47	.026900	.000481	-.022604	-.066560	-.006122	.048234
48	.036728	.000127	-.022429	-.059042	-.007698	.046874
49	.040425	.003391	-.017707	-.050503	-.015433	.045021
50	.038816	.004815	-.011338	-.042294	-.023517	.040787
51	.036448	.003985	-.006565	-.051795	-.020751	.030742
52	.034445	-.012004	-.002755	-.062304	-.011699	.018681
53	.030183	-.030857	.000896	-.051719	.000507	.000213
54	.018775	-.041592	.006236	-.025406	.010093	-.016765
55	.000231	-.033232	.010438	-.002503	.008585	-.028958
56	-.012696	-.025311	.015273	.014047	.002110	-.040208
57	-.017524	-.031665	.021396	.017631	.001512	-.040956
58	-.021393	-.035172	.025919	.018047	.001756	-.042221
59	-.031341	-.027239	.028459	.031412	.002956	-.045286
60	-.031651	-.026203	.031656	.046945	.002631	-.051937

RUN NO. 79 16M 10-29-62 1602-1718 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18832 10E 00	0.12721 10E 00	0.27318 10E-01	0.11210 10E 00	0.24073 10E-01	0.16261 10E-01
1	.004139	-.049136	.030886	.000742	.013374	-.036823
2	.013162	-.069700	.064354	.005540	.024989	-.058051
3	.019239	-.064382	.089473	.018818	.031395	-.068250
4	.027871	-.048404	.102929	.029190	.028034	-.072411
5	.032816	-.034703	.115111	.038463	.020697	-.072397
6	.041675	-.027012	.120964	.044077	.014489	-.065916
7	.047056	-.025155	.121686	.041960	.007041	-.058818
8	.049091	-.027488	.119025	.037553	.008484	-.057408
9	.050963	-.020351	.107084	.035337	.012750	-.056879
10	.051776	-.002380	.089531	.036241	.013449	-.049013
11	.045684	.009022	.073917	.036399	.012769	-.038155
12	.038302	.015771	.063470	.020958	.015152	-.034162
13	.027081	.021615	.059914	.017137	.014535	-.035885
14	.015857	.019956	.061428	.015235	.014477	-.035780
15	.002124	.022309	.065078	.007211	.020879	-.040745
16	-.012861	.025085	.066194	-.000377	.025369	-.042926
17	-.024994	.023677	.067073	-.008588	.023466	-.039434
18	-.027884	.014944	.065541	-.016965	.023278	-.032724
19	-.029360	.013023	.062166	-.014216	.024635	-.026644
20	-.031612	.012556	.056113	-.004947	.024254	-.019865
21	-.024155	.009111	.048211	.001346	.020227	-.006778
22	-.018121	.001397	.043467	.002479	.018756	.007580
23	-.009510	-.009290	.039638	-.006531	.015881	.018829
24	.000653	-.015760	.032486	-.015607	.012033	.021898
25	-.001338	-.017997	.022862	-.018135	.006487	.022282
26	-.002372	-.021600	.012625	-.012096	.005291	.021563
27	.006744	-.020765	.008370	-.009489	.005236	.027067
28	.027036	-.015697	.009365	-.004995	.001759	.028396
29	.042128	-.004944	.008958	-.004537	-.006739	.023954
30	.047579	-.003889	.002414	-.007371	-.012573	.023393
31	.049325	-.010448	-.003340	-.009544	-.019433	.029716
32	.043777	-.010796	-.008747	-.009947	-.022098	.034425
33	.038841	-.007244	-.013492	-.014524	-.023573	.034092
34	.038778	-.006637	-.020862	-.004642	-.023203	.025428
35	.037198	-.011054	-.018374	.014633	-.024862	.010638
36	.042472	-.011771	-.010041	.018874	-.027278	.002694
37	.050433	-.007438	-.010447	.023845	-.030102	.003223
38	.050830	-.007415	-.010045	.025755	-.027381	.003936
39	.050532	-.016140	-.004282	.018426	-.019989	-.001709
40	.049375	-.020798	-.003825	.003550	-.014934	-.004085
41	.043762	-.013005	-.016096	-.002227	-.014335	.004138
42	.036631	-.001212	-.034346	-.005387	-.013404	.008074
43	.033571	.003596	-.044810	.001235	-.016889	.009118
44	.020063	-.001881	-.045794	.011558	-.021377	.008747
45	.002548	.004047	-.043576	.004600	-.020334	-.000443
46	-.006381	.005693	-.034170	.001633	-.017999	-.006315
47	-.008142	.005289	-.030612	-.003211	-.014208	-.010902
48	-.011644	.013198	-.034174	-.009169	-.011653	-.015570
49	-.010621	.025523	-.043404	-.013269	-.009790	-.018780
50	-.007066	.033705	-.053166	-.006826	-.015015	-.017206
51	-.013355	.034452	-.056489	-.000471	-.015529	-.014100
52	-.017598	.034840	-.054259	.000163	-.008686	-.014846
53	-.027188	.039497	-.046713	.001870	-.001025	-.012739
54	-.037320	.037430	-.031679	.007611	.006811	-.008974
55	-.036900	.024770	-.018620	.005258	.013594	-.009746
56	-.026413	.018424	-.013969	.000499	.018931	-.006310
57	-.014916	.008002	-.008589	.001420	.020380	-.002523
58	-.008497	-.009974	-.003260	.002271	.018097	-.001069
59	-.005074	-.027510	.001072	.006701	.012969	-.000396
60	-.006189	-.038414	.009506	.012496	.007744	-.001036

RUN NO. 79 16M 10-29-62 1602-1718 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.21371 10E 00	0.16596 10E 00	0.75726 10E-01	0.34919 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.830589	.771016	.711496	.822088
2	.632942	.518631	.439805	.603115
3	.488846	.350875	.288185	.452447
4	.377799	.236988	.179763	.348480
5	.280539	.157196	.106339	.259310
6	.207903	.100957	.049345	.176683
7	.152121	.041233	-.000471	.099771
8	.093074	-.003942	-.067755	.036239
9	.044928	-.035163	-.111335	-.019431
10	-.000232	-.055593	-.100333	-.057606
11	-.038854	-.076104	-.096131	-.088840
12	-.072601	-.090195	-.108546	-.123741
13	-.096019	-.102585	-.133107	-.153018
14	-.103504	-.116140	-.150180	-.170890
15	-.108338	-.116579	-.144781	-.177041
16	-.104171	-.123900	-.127295	-.185870
17	-.102269	-.136049	-.125411	-.196705
18	-.108016	-.156321	-.130602	-.206598
19	-.117412	-.182617	-.132024	-.218206
20	-.117298	-.207903	-.124744	-.228793
21	-.116901	-.223853	-.116043	-.235501
22	-.123487	-.233572	-.113434	-.237543
23	-.132136	-.223250	-.109502	-.227624
24	-.140180	-.202859	-.098337	-.214856
25	-.148492	-.182467	-.105371	-.198402
26	-.153700	-.162668	-.107332	-.170069
27	-.161310	-.140658	-.095872	-.139598
28	-.159308	-.110070	-.075367	-.111586
29	-.158869	-.065907	-.070312	-.084772
30	-.158330	-.036230	-.047619	-.062234
31	-.144978	-.027430	-.020811	-.029742
32	-.123698	-.031799	-.021413	-.002296
33	-.115352	-.028893	-.016666	.008694
34	-.113068	-.026659	-.013543	.004846
35	-.107940	-.020419	-.018139	.002606
36	-.105325	-.027294	-.020275	.010788
37	-.105467	-.038498	-.025542	.022352
38	-.108881	-.044957	-.018422	.030754
39	-.112446	-.039177	-.017764	.033140
40	-.111088	-.019198	-.011930	.023845
41	-.110937	-.000789	-.013054	.015682
42	-.108466	.007085	-.009937	.009618
43	-.102217	.013430	.007662	-.002057
44	-.102385	.018209	.015312	-.013246
45	-.093819	.025785	.010093	-.015962
46	-.069165	.029301	-.001233	-.013666
47	-.041400	.040230	.001026	-.011516
48	-.023110	.055051	.005547	-.016480
49	-.011349	.062103	.005556	-.022689
50	-.003718	.063497	.020345	-.026754
51	-.002317	.062886	.028288	-.020534
52	-.000476	.069570	.000243	.000517
53	.004537	.063102	.000564	.018566
54	.006887	.053741	.010200	.025142
55	.005171	.048808	.024831	.022257
56	-.001517	.057029	.027907	.022110
57	-.001766	.058033	.035090	.018900
58	.009741	.040321	.051506	.013079
59	.013936	.024876	.062377	.014935
60	.011631	.032221	.063552	.019038

RUN NO. 79 16M 10-29-62 1602-1718 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-02	10E-02	10E-02	10E-03	10E-03
0	.023339	-.062189	.013661	.010991	-.038483	-.030072
1	.128064	-.594737	.142656	.129767	-.150523	-.425933
2	.100003	-.658537	.171341	.039410	-.038605	-.531163
3	-.002394	-.654137	.172458	.002919	.133691	-.678941
4	-.035110	-.575295	.112882	.083530	.173843	-.666049
5	.003308	-.463670	.055259	.071586	.056398	-.427654
6	-.062516	-.322877	.027161	.052259	.059235	-.278273
7-8	-.029807	-.207674	.011782	.054060	.177675	-.210918
9-11	.023355	-.071235	.003187	.022130	.074277	-.161482
12-15	-.017440	-.051990	.003967	.030559	-.068774	-.081764
16-20	.020869	-.020555	-.001577	-.003524	-.010350	-.060648
21-27	.003667	-.019286	.001407	.004369	.012218	-.058546
28-36	.000717	-.010351	-.001322	.003390	.008298	-.021512
37-47	.000611	-.001992	.000021	.002486	-.000006	-.018318
48-60	.000542	-.003166	.000195	.000493	.001552	-.011416

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	.309928	-.040622	.109408	.053136	.143417	-.178482
2	.066105	-.004436	.110419	.070024	.268410	-.302791
3	.123477	-.009785	.086071	.123951	.175446	-.399826
4	.357507	-.104478	.053958	.138000	-.019842	-.258485
5	.270100	-.158880	.039410	.081149	-.009172	-.104415
6	.060252	-.168186	.035748	.039266	.075573	-.085122
7-8	-.073155	-.097105	.029571	.011320	.082685	-.135049
9-11	-.028987	-.055719	.005102	-.013961	.067089	-.074556
12-15	.003566	-.045267	-.002335	-.009072	.043775	-.024295
16-20	-.001095	-.046616	.002555	-.009360	.007110	-.019552
21-27	.002123	-.009176	-.000408	-.002149	-.005357	-.001765
28-36	-.003859	-.007082	-.000660	-.002444	-.003128	-.006725
37-47	-.000829	.000245	-.000572	.001815	.000923	-.001308
48-60	-.004052	.000379	.000204	.000804	-.000706	-.000972

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.048357	.011439	.035606	.040453
1	.344501	.139414	.469685	.358751
2	.323341	.196111	.665865	.471023
3	.273068	.217683	.802474	.556951
4	.204526	.156374	.693809	.411978
5	.164069	.099344	.549627	.236226
6	.133452	.079876	.465678	.185671
7-8	.089573	.093086	.384082	.165515
9-11	.051611	.051292	.254220	.087133
12-15	.039629	.038425	.166880	.063347
16-20	.022810	.025931	.133464	.042146
21-27	.015305	.017398	.095819	.031809
28-36	.011059	.010555	.071111	.018186
37-47	.006080	.007591	.046257	.010414
48-60	.004467	.004600	.030468	.006347

RUN NO. 79 L6M 10-29-62 1602-1718 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
	0.19317 10E 00	0.10300 10E 00	0.34640 10E-01	0.65375 10E-01	0.21987 10E-01	0.11723 10E-01
0	.072582	-.399271	.381451	.092327	-.074178	-.309356
1	.067312	-.145534	.232787	.031244	-.100178	-.080734
2	.017976	-.101531	.125774	.034290	-.066790	-.030069
3	-.011164	-.062966	.085384	-.022964	.003575	-.018771
4	-.022092	.011432	.029200	-.060297	.016022	.037247
5	.002129	-.003878	-.002626	-.056045	.055022	.025650
6	-.013430	.004552	-.007057	.018432	.077387	-.026773
7	.020156	.021705	-.039370	.048604	.103858	-.002849
8	.061700	.009731	-.107228	-.118717	.105424	.071405
9	.014066	.100176	-.133287	-.096528	.048686	.116067
10	.021474	.094257	-.156382	-.086911	.067983	.102254
11	.031687	.080759	-.149803	-.070380	.026033	.051650
12	-.028045	.060139	-.102795	.000801	-.011870	.015673
13	-.02[illegible]170	.027661	-.085086	.015687	-.023602	-.002058
14	-.016[illegible]	.010552	-.054228	.014316	-.017328	.014501
15	-.060485	.059113	-.036801	.045282	-.006023	.005556
16	-.065430	.015234	.013912	.065516	.040143	-.053447
17	-.063644	.127981	-.012528	.032636	.030359	.019316
18	-.099060	.066321	-.003485	.076886	-.102468	.030764
19	-.057619	.061509	-.001384	.070745	-.064755	-.002704
20	-.004419	.046062	-.004608	.043129	-.018023	-.030314
21	.034369	.051438	-.007658	-.027134	-.004945	.028285
22	.031328	-.020370	.014092	.056829	-.040039	-.016825
23	.005603	-.008629	.053092	.040137	-.055257	-.008017
24	-.021176	-.081503	.086588	.106007	-.038250	-.045641
25	.005344	-.076338	.067320	.135775	-.035782	-.037736
26	.048690	-.054652	.037546	.008622	-.002504	-.017200
27	.026294	-.043671	.016341	-.021335	.018868	-.023913
28	.034534	-.051084	-.010229	-.034101	-.004638	-.021204
29	.010925	-.060623	.002151	-.018201	-.007107	-.026495
30	-.008462	-.021145	-.019668	-.043101	.026099	.034232

COSPECTRUM

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
0	.019486	-.024174	.005906	-.018253	.102108	.005334
1	.338463	-.416148	.128956	-.125317	.299224	-.115758
2	.286922	-.519112	.216696	.009416	-.203995	-.278091
3	-.034239	-.436107	.251689	.165922	-.685325	-.397624
4	-.114509	-.316084	.159364	.139507	-.711770	-.331721
5	.211831	-.258119	.063538	.021883	-.545713	-.165883
6	.302293	.108833	.020954	-.036380	-.294981	-.031779
7	.187120	-.125011	.048542	.026410	.002503	-.081091
8	.209242	-.237538	.070446	.084283	.090866	-.215088
9-11	.068375	-.152524	.053127	.093155	-.042459	-.245884
12-14	.034997	-.063392	.019860	-.064436	-.047687	-.010010
15-21	-.024955	-.105583	.029709	.019345	.071946	-.148459
22-30	.002187	-.165830	.015780	.024047	.059093	-.139925

RUN NO. 79 16M 10-29-62 1602-1718 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
	0.19317 10E 00	0.10300 10E 00	0.34640 10E-01	0.65375 10E-01	0.21987 10E-01	0.11723 10E-01
1	.090459	.007358	.098609	.028057	.009139	-.094562
2	.072418	.020816	.086277	-.028038	.035438	-.043476
3	.152278	-.010268	.060935	.030920	.004022	-.024050
4	.138792	.027947	.017592	.045264	-.014531	-.029058
5	.074789	.080810	-.038145	.023780	-.000475	-.032618
6	.037684	.047317	-.024838	.040989	.017521	.009405
7	.023233	.095327	-.046995	.022781	.010864	.024813
8	.017727	.050254	-.045673	.052190	.013041	.032312
9	.024565	.044946	-.024236	.103691	-.000993	.029418
10	.031692	.035062	.015918	.066892	-.006407	.027053
11	.033283	-.071690	.046927	.017448	.010172	.014149
12	.028249	-.063165	.040904	-.037087	.013346	-.007269
13	.010040	-.048551	.044901	-.083682	-.013556	-.056895
14	.003750	-.038851	.013062	-.012884	-.018443	-.051702
15	-.050138	-.017140	.013440	-.077940	.009856	-.022527
16	-.007150	-.003923	.005170	-.029675	-.051101	-.011469
17	.004368	-.013066	.062833	.009961	-.068499	-.024944
18	-.070372	-.066317	.054441	.020498	.000980	.039616
19	-.059830	.001972	.046422	-.000196	-.002716	.052652
20	-.087352	-.032345	.059794	-.040705	.002652	.008703
21	-.061907	-.041010	.018404	-.043647	.032776	.039733
22	-.020452	-.036867	-.013372	-.032587	.034302	.046632
23	.046071	-.011205	-.043845	.015733	.031958	.048091
24	.041382	.001022	-.062317	.025296	.040642	.057403
25	.050111	.030458	-.039131	.033242	.037094	-.013862
26	.087074	.077160	-.037050	.051687	.018481	-.042377
27	.044435	.062887	-.049775	.046649	.001734	-.023669
28	.013630	.036211	-.043812	.026353	-.011010	-.028040
29	.001878	.051807	-.030420	.027859	-.056396	-.035582
30	-.028048	.073467	-.024536	-.027190	-.020954	-.056260

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	.420792	.028961	.450987	.062734	-.020989	-.016214
2	.615157	.182220	-.032311	.116635	.053110	-.045043
3	.626634	.250968	-.206837	.126924	.155749	-.001379
4	.377442	.115512	.300273	.017680	-.003683	-.092397
5	.466795	-.040387	.572136	-.073252	-.059321	-.255397
6	.453122	-.164766	.767975	-.074890	.089728	-.188874
7	.285145	-.127120	.914934	.027064	.054537	-.056287
8	.216642	.003950	.497595	.080152	-.008028	-.012239
9-11	-.034391	.016413	.259367	-.031653	.106152	-.062558
12-14	-.065852	.036105	.196529	-.001926	.066293	-.072594
15-21	.088458	.018332	.088073	.022103	-.051422	-.077395
22-30	.100924	-.026961	.042579	.029133	-.033961	-.034432

RUN NO. 79 16M 10-29-62 1602-1718 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.30433 10E 00	0.12261 10E 00	0.34858 10E-01	0.39428 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.615608	.393797	.125504	.519176
2	.365918	.133733	.040725	.259928
3	.141208	.107789	-.028856	.197386
4	-.075832	-.024128	-.076605	.048348
5	-.110330	-.035004	-.099290	-.044023
6	-.150177	-.090298	-.015318	-.088279
7	-.153666	-.160906	-.025960	-.114381
8	-.153767	-.238164	.013700	-.187024
9	-.165774	-.147722	-.144847	-.214897
10	-.163034	-.163468	-.053225	-.187007
11	-.171134	-.183551	-.040746	-.153731
12	-.176020	-.135391	-.040979	-.125116
13	-.178913	-.066937	-.055084	-.099697
14	-.192377	-.050550	.011512	-.128252
15	-.140366	-.026567	-.061715	-.093974
16	-.069671	-.044657	.005150	-.006964
17	-.081635	-.059272	-.092961	-.021356
18	-.028962	.047242	-.040889	-.083466
19	-.051670	.085159	.010859	-.057427
20	-.052836	.106779	.007981	-.004984
21	-.040797	.081817	-.078270	-.051970
22	.004895	.073690	.096815	.017498
23	.040961	.104292	-.085988	.045884
24	.045021	.080670	.021548	.063010
25	.039597	.064911	.028908	.069123
26	.008857	-.002922	.039224	-.018281
27	.036344	-.101463	-.035873	.001564
28	.083055	-.180820	-.014530	-.031205
29	.036663	-.154148	.119459	-.009322
30	.024028	-.086324	.018357	-.003893

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.017336	.007716	.014937	.053486
1	.301681	.065813	.140255	.415631
2	.414089	.111574	.169331	.492729
3	.438986	.152586	.187970	.535835
4	.336921	.114905	.176872	.416882
5	.271394	.078965	.170617	.286839
6	.242198	.059160	.159942	.185208
7	.214249	.043495	.161035	.156633
8	.154381	.046079	.179336	.146701
9-11	.091972	.046136	.154752	.131896
12-14	.040650	.046098	.092022	.078915
15-21	.041350	.038415	.139654	.108265
22-30	.054054	.031435	.184760	.074862

RUN NO. 79 40M 10-29-62 1602-1718 EST

GROSS STATISTICS

1 CI	WIND SPEED	4.64 M/SEC	WIND DIRECTION 306 DEG
TRANSITIONAL	SIGMA A	7.5 DEG	SOLAR RADIATION 0.04
LAND	SIGMA E	4.1 DEG	NET RADIATION -0.15

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.56797E 00	0.33646E-00	0.18891E-00	0.25086E-00
V	0.38536E-00	0.22755E-00	0.18013E-00	0.13627E-00
W	0.11053E-00	0.10727E-00	0.99266E-01	0.43014E-01
T	0.27383E-00	0.28727E-02	0.20502E-02	0.19257E-02
E	0.53243E 00	0.33572E-00	0.23416E-00	
GUSTINESS RATIOS				
U	0.16242	0.12501	0.09367	0.10794
V	0.13396	0.10281	0.09147	0.07956
W	0.07165	0.07059	0.06790	0.04470
COVARIANCES				
U,V	0.15059E-00	0.39670E-01	0.16440E-01	0.36005E-01
U,W	-0.45694E-01	-0.54880E-01	-0.33995E-01	-0.39528E-01
U,T	0.17430E-00	0.96360E-02	0.45800E-02	0.79984E-02
V,W	-0.95557E-03	-0.98257E-03	-0.29547E-02	0.25283E-02
V,T	0.81540E-01	0.47671E-02	0.37928E-02	0.33079E-02
W,T	0.28376E-02	-0.47368E-02	-0.39529E-02	-0.20820E-02
WE	0.14587E-02	0.16191E-01	0.99678E-02	
NORMALIZED COVARIANCES				
U,V	0.32148	0.14337	0.08912	0.19474
U,W	-0.18237	-0.28887	-0.24825	-0.38053
U,T	0.44198	0.30994	0.23272	0.36392
V,W	-0.00462	-0.00629	-0.02210	0.03302
V,T	0.25068	0.18645	0.19736	0.20420
W,T	0.01631	-0.26983	-0.27709	-0.22876

RUN NO. 79 40M 10-29-62 1602-1718 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18445 10E 00	0.13692 10E 00	0.19686 10E-01	0.13369 10E 00	0.19223 10E-01	0.14269 10E-01
0	.088837	-.248116	.232828	-.022119	.197536	-.276876
1	.084855	-.225592	.222563	-.011095	.172325	-.222272
2	.076765	-.182517	.196295	-.000205	.137166	-.145487
3	.067298	-.137128	.166925	.016160	.111180	-.090099
4	.053539	-.098783	.134178	.027719	.086907	-.045268
5	.037842	-.065934	.102197	.030098	.068683	-.010844
6	.028900	-.039699	.076328	.031982	.056754	.011955
7	.019878	-.015490	.054073	.030888	.041012	.023116
8	.004940	.001826	.035504	.026813	.019455	.026196
9	-.005696	.011818	.022547	.026872	-.008024	.028886
10	-.010075	.007165	.013990	.025635	-.029961	.033484
11	-.012903	-.003389	.005911	.019225	-.038601	.036286
12	-.013241	-.012627	-.000733	.012343	-.041011	.037258
13	-.017603	-.020160	-.006786	.003784	-.043356	.042232
14	-.021043	-.012340	-.011128	-.003121	-.043867	.043799
15	-.015445	.005358	-.020044	-.004343	-.050950	.044037
16	-.010797	.020734	-.033061	-.001228	-.060324	.042928
17	-.010238	.034254	-.043332	-.001260	-.069371	.040573
18	-.016026	.054411	-.050971	-.000609	-.070557	.042412
19	-.018524	.071078	-.058784	-.007531	-.064886	.048777
20	-.018073	.081895	-.066767	-.023748	-.060430	.056443
21	-.013721	.090950	-.072015	-.032023	-.059720	.058657
22	-.012446	.090118	-.074207	-.031145	-.057898	.054515
23	-.012939	.085888	-.071839	-.030150	-.058065	.050930
24	-.013354	.086166	-.071330	-.031392	-.055002	.044788
25	-.012967	.084995	-.073971	-.036593	-.048872	.032755
26	-.013840	.088781	-.076076	-.044471	-.040675	.015350
27	-.011888	.081725	-.073330	-.047192	-.032854	-.002212
28	-.003793	.069940	-.065745	-.048686	-.021858	-.010328
29	.010358	.061740	-.059264	-.048799	-.010300	-.012564
30	.020486	.052611	-.055379	-.049879	-.003751	-.013763
31	.026286	.041219	-.048357	-.045138	-.001359	-.013683
32	.024541	.032690	-.040615	-.039785	.001944	-.014768
33	.024801	.025285	-.037088	-.032767	.004442	-.012494
34	.023122	.014263	-.038236	-.032666	.004787	-.010607
35	.020174	.004346	-.042312	-.028299	.006796	-.005334
36	.014726	.004378	-.049029	-.013039	.007695	.002965
37	.009546	.002230	-.052396	-.000561	.008827	.010816
38	.006079	-.006480	-.052611	-.001188	.012083	.019082
39	.007255	-.008582	-.053558	-.002754	.013561	.018186
40	.008657	-.015405	-.053229	-.005954	.012490	.009690
41	.004692	-.026491	-.048546	-.004343	.012319	.002757
42	-.000855	-.038523	-.043322	.007046	.014627	-.004367
43	-.002631	-.041255	-.043619	.020810	.012816	-.010256
44	-.002186	-.037498	-.045507	.029787	.007006	-.009343
45	-.002233	-.035448	-.042652	.038197	-.001476	-.011343
46	-.003159	-.043119	-.038735	.042748	-.013259	-.012267
47	-.009140	-.048893	-.031436	.040865	-.020064	-.010420
48	-.015586	-.047809	-.026046	.033764	-.018162	-.005867
49	-.023920	-.041931	-.021317	.034719	-.014740	-.006323
50	-.038598	-.041093	-.012178	.038937	-.009305	-.006356
51	-.050078	-.041172	-.003241	.042207	-.001830	-.002697
52	-.057169	-.034925	.002069	.037880	.002058	.006865
53	-.054814	-.027207	.006035	.030904	.004290	.008968
54	-.050570	-.017373	.009843	.021925	.007981	.006055
55	-.043954	-.015876	.011806	.016647	.005046	.008064
56	-.038169	-.015637	.015420	.017706	.002307	.010380
57	-.032800	-.011832	.022317	.020741	.003956	.013499
58	-.032088	-.001467	.032977	.018038	.008285	.008908
59	-.035370	.002848	.044146	.010705	.008271	-.001582
60	-.044164	.005193	.054728	.006770	.005089	-.008199

RUN NO. 79 40M 10-29-62 1602-1718 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18445 10E 00	0.13692 10E 00	0.19686 10E-01	0.13369 10E 00	0.19223 10E-01	0.14269 10E-01
1	.018941	-.013827	.029461	.007722	.009418	-.000915
2	.025193	-.027631	.052347	.006402	.016295	.000493
3	.032410	-.043752	.067906	.012864	.017334	.001530
4	.038486	-.051476	.076184	.019879	.015886	-.001632
5	.041422	-.058530	.082473	.016808	.012675	-.002339
6	.037680	-.058304	.085274	.009009	.008230	-.002002
7	.034481	-.057149	.091312	.000593	-.001071	-.005714
8	.033448	-.048025	.096599	-.005473	-.009160	-.006438
9	.027279	-.038972	.100583	-.007466	-.017006	-.006190
10	.019276	-.043924	.104043	.003368	-.025983	-.007658
11	.011444	-.048564	.106222	.022767	-.033858	-.010627
12	.005978	-.049977	.101500	.024771	-.039866	-.012835
13	.006612	-.042534	.090552	.014885	-.044201	-.014038
14	.006323	-.032926	.078088	.005328	-.044575	-.013859
15	.009935	-.023992	.070739	-.000323	-.036308	-.017403
16	.013017	-.024523	.067728	-.003630	-.030767	-.023690
17	.007622	-.034299	.066773	.000465	-.026012	-.029804
18	.006268	-.033197	.064769	.001600	-.020975	-.034921
19	.006248	-.026124	.062591	-.000172	-.014486	-.035703
20	-.001742	-.026460	.062991	-.009333	-.009209	-.029748
21	-.006992	-.034384	.064841	-.012356	-.000285	-.026488
22	-.006063	-.031253	.061077	-.010086	.003075	-.022869
23	-.000522	-.021118	.055903	-.001438	.002066	-.022139
24	.009021	-.010977	.051270	.000558	.002033	-.025724
25	.017535	-.008409	.044514	-.008252	.007477	-.021223
26	.020505	-.011926	.033836	-.019973	.016327	-.010168
27	.018253	-.005324	.021017	-.027558	.020671	-.002958
28	.013466	.004977	.013342	-.027376	.019095	.004508
29	.006120	.011849	.014087	-.025901	.016260	.010830
30	.000036	.018543	.016520	-.026818	.018118	.012353
31	-.003260	.019393	.014292	-.022522	.020611	.014379
32	-.004738	.019917	.008794	-.021845	.022032	.011794
33	-.009280	.022656	.003490	-.029992	.021912	.009663
34	-.007211	.021745	.002800	-.033692	.024785	.004763
35	-.000856	.020447	-.003602	-.024906	.026890	.001708
36	.004764	.019666	-.016452	-.022926	.028074	.004058
37	.002615	.021783	-.027134	-.025785	.034740	.010409
38	-.002923	.019519	-.033814	-.029407	.040549	.015097
39	-.003999	.015992	-.038658	-.026131	.040917	.018240
40	-.003692	.007644	-.037613	-.017336	.039522	.016641
41	-.007667	.007172	-.034030	-.012067	.033777	.012068
42	-.012435	.005860	-.030870	-.008356	.025984	.008901
43	-.006324	.002382	-.030926	-.000612	.016576	.008802
44	-.000391	.002997	-.037684	.011491	.008312	.008783
45	.002447	.009101	-.044429	.015310	.002153	.010482
46	.010653	.007889	-.050660	.019165	-.008103	.011440
47	.014921	.000798	-.055380	.025363	-.021296	.012146
48	.010619	-.005659	-.059834	.026192	-.031796	.017933
49	-.000114	-.004528	-.066553	.017282	-.035744	.025930
50	-.007254	-.006640	-.073627	.007186	-.033726	.035754
51	-.018053	-.008581	-.078011	-.007037	-.027234	.038880
52	-.029317	-.009377	-.080691	-.012978	-.021229	.036311
53	-.038011	-.013482	-.082763	-.011547	-.015359	.022348
54	-.040677	-.019930	-.081697	-.010082	-.009285	.007266
55	-.042048	-.023247	-.078969	-.005806	-.004192	-.002524
56	-.038302	-.018570	-.074473	.002227	-.002401	-.002143
57	-.029642	-.005444	-.066955	.004922	-.004131	-.001106
58	-.023732	.011403	-.058441	.018102	-.004780	-.006694
59	-.010498	.026066	-.044805	.034601	-.002748	-.014664
60	.006256	.032580	-.029380	.046482	-.000939	-.017708

RUN NO. 79 40M 10-29-62 1602-1718 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.18890 10E 00	0.18011 10E 00	0.99239 10E-01	0.20516 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.864675	.827532	.726621	.855442
2	.698966	.613231	.429162	.667584
3	.563445	.446103	.234730	.518108
4	.441395	.315084	.112153	.394379
5	.337701	.214577	.029643	.295464
6	.261127	.146097	-.023840	.214495
7	.201755	.085007	-.057057	.140170
8	.143455	.028799	-.066872	.074596
9	.086166	-.020273	-.065343	.013383
10	.030716	-.051686	-.059288	-.039200
11	-.022530	-.069016	-.051582	-.074685
12	-.062709	-.084579	-.052370	-.109622
13	-.094934	-.105838	-.056534	-.140917
14	-.127139	-.132175	-.071212	-.167087
15	-.160972	-.164357	-.088352	-.186397
16	-.196741	-.201457	-.094795	-.208303
17	-.223483	-.234206	-.086526	-.227747
18	-.247624	-.245760	-.086737	-.236309
19	-.270920	-.248906	-.110689	-.243411
20	-.295284	-.249290	-.138293	-.255550
21	-.311914	-.246337	-.155029	-.262672
22	-.319384	-.249031	-.168731	-.258914
23	-.319776	-.241271	-.170912	-.253135
24	-.316675	-.227374	-.163060	-.246447
25	-.305272	-.223838	-.163716	-.232239
26	-.285155	-.216633	-.160610	-.214211
27	-.259982	-.202654	-.140956	-.190533
28	-.237295	-.184904	-.123968	-.158902
29	-.208418	-.164472	-.112491	-.126298
30	-.167934	-.135411	-.095811	-.096630
31	-.125846	-.100929	-.069239	-.069414
32	-.091642	-.071872	-.039380	-.045144
33	-.057316	-.042941	-.006782	-.030097
34	-.027321	-.015275	.003510	-.019471
35	-.006240	.014922	.016324	-.011748
36	.008794	.049004	.026224	-.010399
37	.018595	.076790	.022853	-.016724
38	.028258	.093818	.017041	-.028625
39	.039022	.094651	.018479	-.038297
40	.047145	.088176	.038166	-.038602
41	.056314	.078846	.057358	-.038279
42	.062041	.075718	.053922	-.034786
43	.059481	.069716	.039949	-.032055
44	.062878	.063805	.028817	-.038139
45	.069135	.056008	.026860	-.044460
46	.071193	.044559	.025578	-.051052
47	.066367	.035210	.030936	-.052092
48	.060721	.032767	.044605	-.043682
49	.055247	.034256	.059529	-.028596
50	.048276	.040170	.061019	-.017834
51	.037653	.039358	.063252	-.012531
52	.029275	.033603	.052516	-.017257
53	.018786	.024938	.045217	-.013755
54	.009127	.019411	.044523	-.009790
55	-.005946	.014734	.038203	-.006850
56	-.013940	.008212	.023908	.006530
57	-.025776	-.000960	.016307	.023390
58	-.038286	-.007567	.016380	.047973
59	-.043582	-.011027	.013157	.075690
60	-.042587	-.000818	-.001224	.094236

RUN NO. 79 40M 10-29-62 1602-1718 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-02	10E-02	10E-02	10E-03	10E-03
0	.083726	-.049378	.008285	-.021965	.022417	-.007480
1	.293518	-.448623	.101071	.081129	.370852	-.180019
2	.215770	-.626790	.105041	.201038	.596244	-.322239
3	.323030	-.606459	.082928	.096503	.779304	-.471398
4	.290691	-.257428	.051227	-.091773	.588854	-.445142
5	.144485	-.129972	.029012	-.073989	.302251	-.307674
6	.114393	-.188877	.021636	-.037700	.197132	-.210164
7-8	.105575	-.261690	.023909	-.053083	.146843	-.269625
9-11	.010999	-.148041	.011190	-.045846	.056117	-.164705
12-15	.005491	-.017376	.002604	-.014297	.036603	-.113910
16-20	.003051	-.034854	.001254	-.017817	.065196	-.049684
21-27	-.003921	-.010962	.000550	-.001468	.009667	-.035235
28-36	.005222	-.005436	.000295	-.001245	.015430	-.023275
37-47	.000723	-.001762	.000091	-.002333	.009911	-.012567
48-60	.000444	-.001426	-.000119	-.003470	.002838	-.005682

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	.153421	-.238922	.913318	-.097980	-.023904	-.130860
2	.145836	-.277569	.862384	.034056	-.195501	-.137896
3	.134800	-.248528	.545750	.102253	-.201365	-.044546
4	.129771	-.109546	.281242	.025453	.027409	.057390
5	.141201	-.070313	.204147	-.006906	.108763	.067118
6	.134747	-.096392	.144068	.020255	.138146	.011122
7-8	.059546	-.060031	.064005	.004237	.115063	-.023370
9-11	.049141	-.015323	.006064	.025527	.021807	.006094
12-15	-.008858	-.011026	.050361	.020934	.006190	.001038
16-20	.009483	.017857	.004120	-.026412	.006877	.003997
21-27	.001440	-.002419	.004283	.008476	.001434	-.002519
28-36	.008042	.000730	.002181	.004063	.000697	-.002682
37-47	.003007	.000195	-.001146	.003546	-.001084	-.000007
48-60	.002051	-.002836	.001846	.000653	-.000745	.000219

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.030876	.013860	.003741	.021110
1	.268552	.166145	.055594	.253022
2	.348160	.255827	.088463	.323869
3	.361922	.298103	.101421	.351338
4	.202313	.187171	.067188	.250453
5	.095917	.106587	.049212	.138929
6	.085726	.102877	.058484	.103957
7-8	.079062	.084089	.061069	.093565
9-11	.045007	.063100	.043025	.051290
12-15	.029518	.030775	.028532	.032656
16-20	.016672	.024933	.017642	.022066
21-27	.008810	.011938	.012494	.012196
28-36	.007063	.008448	.007820	.007654
37-47	.004587	.005500	.005072	.005365
48-60	.002959	.003350	.003412	.002890

RUN NO. 79 40M 10-29-62 1602-1718 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
	0.18494 10E 00	0.10386 10E 00	0.21982 10E-01	0.76557 10E-01	0.16203 10E-01	0.90997 10E-02
0	.194682	-.380587	.363858	.033025	.204145	-.228799
1	.110544	-.227925	.230489	.077784	.033146	-.029636
2	.074567	-.091675	.104562	-.037050	-.012346	.005352
3	.045977	-.067765	.039390	-.041195	.009621	-.020001
4	-.000869	-.076108	.000177	.024314	.003878	.029166
5	-.027086	-.042534	.003907	.052878	-.003741	-.036315
6	-.029164	.052592	.032355	.033632	.013895	-.017841
7	-.008806	.118022	.022063	.015665	-.003436	-.022114
8	.011026	.107293	-.047825	-.058668	.017412	.013037
9	-.024536	.094714	-.127442	-.039880	-.003936	.037839
10	-.033819	.114908	-.117866	-.015165	-.012033	.050823
11	-.039280	.072198	-.124211	-.024631	-.016981	.020992
12	-.048658	.104885	-.177438	.009277	-.048109	.020283
13	-.018948	.092317	-.180355	-.034636	-.006360	.089136
14	-.011421	.110115	-.172236	-.057123	-.046747	.083139
15	-.044979	.096008	-.129972	-.012152	-.030697	.091822
16	-.058059	.086676	-.066234	-.053184	.039903	.019536
17	-.087473	.057412	-.033245	-.018897	-.018254	-.002638
18	-.110051	.051238	-.037485	.031024	-.076240	.016046
19	-.106983	.050900	-.029319	.099925	-.066005	-.010457
20	-.078218	.031324	-.002255	.043824	.008395	.037736
21	.010983	-.007161	.041061	.013759	.028631	-.005818
22	.055168	-.079908	.096940	-.012194	-.036127	-.058554
23	.054035	-.157632	.165728	.001498	-.030896	-.081313
24	.013615	-.145096	.161248	.061120	-.055345	-.078418
25	.057336	-.149918	.143579	-.009889	-.029558	-.041854
26	.096172	-.186458	.121557	-.050896	-.003537	-.031071
27	.106118	-.165745	.138271	-.018939	.002091	-.046503
28	.088262	-.107572	.123331	-.025476	.027592	-.083417
29	.085342	.034112	.110320	-.021540	.093151	-.043750
30	.093138	.069264	.050985	.035725	.088635	.020862

COSPECTRUM

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
0	.007488	.009908	-.005864	-.001190	.006484	.011411
1	.505372	-.356812	.073745	.024965	.264373	-.096920
2	.633769	-.707632	.162347	.079409	.254293	-.224792
3	.372458	-.673140	.143716	.093696	.147577	-.167450
4	.269800	-.371304	.036559	-.009223	.087030	.003887
5	.419750	-.305612	.018606	-.039163	.078940	-.009174
6	.221560	-.152687	.035622	.008595	.112454	-.066932
7	.166945	-.074363	.059579	-.016815	.164565	-.098104
8	.304900	-.050227	.060076	-.020024	.209957	-.079437
9-11	.040410	-.131936	.046075	.115791	.124692	-.134560
12-14	.034601	-.198803	.005866	.058632	.136855	-.038650
15-21	.071570	-.073643	.014078	-.008208	.157487	-.092051
22-30	.083583	-.042920	.009105	-.062386	.135835	-.103127

RUN NO. 79 40M 10-29-62 1602-1718 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
	0.18494 10E 00	0.10386 10E 00	0.21982 10E-01	0.76557 10E-01	0.16203 10E-01	0.90997 10E-02
1	.069447	-.048341	.096517	-.028991	-.034286	-.013279
2	.089952	-.025319	.069799	-.039391	-.027118	-.066194
3	.134384	.001349	.024535	.010277	-.023981	-.007885
4	.149417	.057383	-.060014	.052813	-.047809	.004035
5	.162964	.059285	-.134990	.063389	-.100338	.017308
6	.194119	.099571	-.119648	.117419	-.094931	-.039601
7	.169579	.090900	-.065062	.121416	-.127297	-.034228
8	.133987	.091206	-.068775	.079436	-.097048	.008248
9	.085810	-.005862	-.070477	.009484	-.106443	.022651
10	.019448	.001699	-.068583	.013756	-.029449	.041443
11	-.000043	.037397	-.051801	.055421	-.012048	.031531
12	-.012665	.029956	-.045233	.079949	-.012858	-.033746
13	-.028104	.000186	-.026882	-.034906	-.046793	-.012158
14	-.051038	-.016861	-.025939	-.109196	-.041590	-.006412
15	-.091407	-.037165	.001837	-.087008	.013660	-.021379
16	-.127061	-.072481	.019766	-.090542	.066307	-.009370
17	-.122156	-.028303	.041642	-.087760	.085096	.026725
18	-.083827	-.075122	.097392	-.046487	.038788	-.029958
19	-.097845	-.079524	.087121	-.031179	.028226	.006123
20	-.123867	-.016266	.028418	-.034611	.053334	.068911
21	-.084146	-.076574	.044279	-.062397	.140509	.037311
22	-.104892	-.035936	.035752	-.077375	.186699	.004607
23	-.046205	.024465	.043749	.025644	.111104	.011510
24	-.028480	-.008335	.077147	-.015538	.098863	.002546
25	-.001112	-.034210	.047511	.024626	.050910	.037607
26	.018855	-.007134	.026575	-.040130	-.041125	-.016120
27	.032887	.012338	.005204	.014265	-.026933	-.043278
28	.022739	.046163	-.029516	.094230	-.019248	-.097716
29	.116228	.033072	-.045709	.072121	-.020022	-.015614
30	.136195	.052180	-.021575	.094229	-.065150	.010475

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-03	10E-02	10E-03	10E-04
1	.048219	.119615	-.650384	.064661	-.455206	-.030286
2	.121875	.279216	-.794554	.239043	-.728624	-.328393
3	.128278	.233295	-.390350	.235152	-.435728	-.281172
4	.053789	-.001871	.179921	-.003102	-.043515	-.533764
5	.014787	-.078153	.266774	-.122232	.021414	-.919898
6	-.001054	-.094565	.294344	-.088559	.150022	-.308642
7	-.009008	-.158614	.473348	-.061820	.128220	.229838
8	-.008203	-.172995	.542989	-.119879	.109383	.059640
9-11	.009835	-.039800	.391304	-.037709	-.101325	-.899962
12-14	.000905	-.050730	.041722	-.021935	-.026299	-.236920
15-21	.001741	-.017897	.067153	.003718	-.034165	.263554
22-30	.003511	-.027926	.036396	-.000761	-.024818	.494498

RUN NO. 79 40M 10-29-62 1602-1718 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.25090 10E 00	0.13632 10E 00	0.42993 10E-01	0.19260 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.637152	.349926	.172140	.405984
2	.317891	.078609	.005090	.080836
3	.182479	.021333	-.051842	.003065
4	.080674	.099697	-.057074	-.070748
5	-.040556	-.032109	.061874	-.047267
6	-.141852	-.035583	-.031330	.016482
7	-.210210	-.061162	-.105829	.026458
8	-.234897	-.078263	-.103599	-.040460
9	-.254920	-.143032	-.135073	-.128453
10	-.312777	-.126990	-.152419	-.116913
11	-.361552	-.112638	-.051210	-.097922
12	-.337575	-.100266	-.048293	-.170499
13	-.229001	-.055041	-.104351	-.194985
14	-.174877	-.148939	-.135508	-.242213
15	-.128784	-.134781	-.066459	-.146444
16	-.082401	-.109528	.021541	-.018541
17	.016983	-.029805	-.042893	.001002
18	.019538	-.118400	-.117362	-.093162
19	-.027957	-.108439	.007831	-.101774
20	.005534	-.062137	.021012	-.121331
21	.082301	.087021	.021135	-.010259
22	.182805	.048019	.115507	.069249
23	.260988	.048046	.093352	.101296
24	.245742	.053392	.106103	.125518
25	.213859	.134406	.032207	.115769
26	.185467	.092904	.118338	.157411
27	.152070	-.046949	.091328	.136062
28	.095310	-.046240	.071474	.143332
29	.003569	.051346	.060655	.215451
30	-.094860	.059207	-.017730	.108847

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-03
0	.004108	.010216	-.003149	.008931
1	.201138	.107142	.132670	.143126
2	.403001	.132626	.275580	.195790
3	.473950	.122480	.313721	.170667
4	.289610	.082958	.220123	.097417
5	.163102	.075476	.189372	.088507
6	.110435	.059524	.154538	.105097
7	.127331	.050356	.144283	.140018
8	.124551	.056787	.175325	.127980
9-11	.066873	.061592	.235017	.105496
12-14	.078779	.054309	.178043	.047075
15-21	.043193	.046583	.146628	.059929
22-30	.025320	.038258	.205582	.046633

RUN NO. 79 16M 10-29-62 1602-1718 EST
RUN NO. 79 40M 10-29-62 1602-1718 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	.551799	.178699	.320382	.111890
1	.442017	.600552	.221550	.508170
2	.235188	.481311	.242075	.395060
3	.121412	.380926	.252185	.315373
4	.155189	.362678	.332078	.320736
5	.265828	.362673	.299269	.243139
6	.175976	.190638	.187599	.141623
7-8	.069316	.108332	.224654	.160317
9-11	.089594	.124064	.162645	.082282
12-15	.132682	.086693	.114699	.129868
16-20	.114357	.172828	.149615	.122388
21-27	.077868	.122936	.130628	.136254
28-36	.166649	.127421	.156086	.092190
37-47	.105587	.089677	.110993	.114670
48-60	.122724	.115242	.160926	.097605

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	.804419	.824113	-.009297	.116774
1	.801210	.680175	.349842	.456416
2	.728168	.583272	.432069	.549114
3	.688008	.604146	.427799	.451414
4	.711661	.595301	.364725	.336768
5	.717646	.553025	.432536	.405272
6	.561849	.506102	.492529	.447686
7	.501674	.537992	.242848	.597526
8	.483492	.724008	.266585	.666828
9-11	.387940	.685625	.468839	.594943
12-14	.283731	.325805	.217927	.300669
15-21	.202678	.447511	.311527	.382249
22-30	.293666	.385280	.383376	.180264

RUN NO. 80A 16M 11- 1-62 2215-2315 EST

GROSS STATISTICS

CLEAR	WIND SPEED 3.22 M/SEC	WIND DIRECTION 288 DEG	
STABLE	SIGMA A 5.7 DEG	SOLAR RADIATION 0	
LAND	SIGMA E 2.5 DEG	NET RADIATION -0.15	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.28963E-00	0.10403E-00	0.94042E-01	0.57770E-01
V	0.94042E-01	0.43116E-01	0.42942E-01	0.15479E-01
W	0.19615E-01	0.18128E-01	0.18805E-01	0.46849E-02
T	0.49101E-01	0.75957E-02	0.64447E-02	0.43255E-02
E	0.20164E-00	0.82660E-01	0.77895E-01	
GUSTINESS RATIOS				
U	0.16713	0.10017	0.09524	0.07464
V	0.09524	0.06449	0.06436	0.03864
W	0.04350	0.04181	0.04259	0.02126
COVARIANCES				
U,V	-0.36067E-01	0.10344E-02	0.10847E-02	-0.23880E-02
U,W	-0.11760E-01	-0.15645E-01	-0.15940E-01	-0.78294E-02
U,T	0.60693E-01	0.17002E-01	0.14851E-01	0.11292E-01
V,W	-0.32620E-02	-0.11604E-02	-0.10380E-02	0.24305E-03
V,T	-0.76327E-02	0.62002E-03	0.51139E-03	-0.53481E-03
W,T	-0.39302E-02	-0.41410E-02	-0.42070E-02	-0.17190E-02
WE	-0.85078E-03	-0.69991E-03	-0.78293E-03	
NORMALIZED COVARIANCES				
U,V	-0.21854	0.01545	0.01707	-0.07986
U,W	-0.15602	-0.36026	-0.37905	-0.47591
U,T	0.50896	0.60485	0.60367	0.71434
V,W	-0.07595	-0.04151	-0.03653	0.02854
V,T	-0.11233	0.03426	0.03074	-0.06536
W,T	-0.12664	-0.35290	-0.38215	-0.38187

RUN NO. 80A 16M 11- 1-62 2215-2315 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.63541 10E-01	0.42053 10E-01	0.24613 10E-01	0.28423 10E-01	0.16636 10E-01	0.11010 10E-01
0	.017176	-.378813	.603681	-.036434	.030832	-.382022
1	.005945	-.313676	.540522	-.018394	.019277	-.281615
2	-.007273	-.215723	.436144	.005538	-.009161	-.159280
3	-.015677	-.138915	.339186	.019974	-.030848	-.087596
4	-.026278	-.090467	.255346	.026689	-.042418	-.038593
5	-.025997	-.055328	.179771	.011252	-.040710	-.006061
6	-.007121	-.012682	.112061	.004283	-.022145	.017303
7	.002038	.026547	.057702	.016867	-.006022	.038208
8	-.005938	.062469	.008427	.028609	.001894	.055845
9	-.012790	.092647	-.036408	.021113	.000036	.071173
10	-.005398	.103134	-.076384	.020553	-.004738	.086787
11	-.000270	.094707	-.104319	.017166	-.006241	.092890
12	-.001442	.092974	-.121142	.010811	-.003694	.090452
13	-.009755	.082364	-.126878	.015337	-.001765	.079916
14	-.013432	.060703	-.126281	.021704	.013273	.064191
15	-.010375	.045005	-.128475	.011030	.022419	.042487
16	-.014365	.044898	-.133166	-.012057	.023320	.029472
17	-.017135	.037900	-.135989	-.026699	.007938	.029797
18	-.015747	.030330	-.138117	-.033559	-.008575	.032840
19	-.003880	.027093	-.143319	-.037645	.002991	.022075
20	.013490	.036575	-.151215	-.035261	.013618	.007387
21	.026122	.042570	-.150154	-.022331	.011934	.006076
22	.039176	.036949	-.148847	-.022093	.022183	.013332
23	.044336	.030050	-.149463	-.019198	.025477	.023859
24	.040887	.025984	-.145156	-.009454	.019205	.032721
25	.040753	.029813	-.141406	-.004309	.019765	.034415
26	.025985	.033726	-.132529	.012427	.013957	.031961
27	.012334	.037212	-.123331	.018131	-.006312	.014256
28	-.000567	.039454	-.113031	.010762	-.021068	-.002329
29	-.013966	.042786	-.097760	.002105	-.019205	-.010200
30	-.020456	.036841	-.085770	-.005872	-.010244	-.010684
31	-.014716	.029377	-.071203	-.010704	-.004500	-.012279
32	-.006759	.018790	-.046713	-.019834	.003272	-.006287
33	-.000520	-.000759	-.012356	-.023074	.000482	-.013223
34	.008263	-.010481	.011816	-.019235	.005758	-.025307
35	.017138	-.003109	.020038	-.020769	.009215	-.025109
36	.012833	-.004344	.018904	-.020914	.006436	-.020960
37	.005723	-.003274	.009251	-.003092	.011933	-.001256
38	.001128	-.006521	.005454	.009717	.021033	.007937
39	-.008676	-.008421	.007439	-.001795	.020562	.000112
40	-.011353	-.001953	.013590	-.021084	.011966	-.005105
41	-.014907	-.007972	.011964	-.014114	-.003310	-.001329
42	-.019503	-.009609	.010138	.008958	-.023105	.006131
43	-.021637	-.005105	.011519	.033158	-.030968	-.000141
44	-.012901	.003103	.013802	.042175	-.031385	.001065
45	-.005314	.011967	.019908	.036385	-.028976	.009636
46	.000393	.022133	.031394	.022039	-.019241	.013198
47	-.007296	.025362	.045466	.018973	-.008562	.008681
48	-.018916	.016070	.052025	.010312	-.006333	.000694
49	-.029640	.006195	.058662	.001996	-.012138	.000742
50	-.020595	-.006301	.061342	-.008979	-.013879	.002500
51	-.009931	-.019318	.058250	-.019940	-.010970	-.002780
52	-.000332	-.027008	.056275	-.014812	-.005806	-.004297
53	.008449	-.034085	.054115	-.011268	.003723	-.010250
54	.025243	-.031701	.049557	-.009461	.010337	-.014451
55	.038749	-.039002	.033450	-.003881	.015924	-.010934
56	.045907	-.041113	.015075	-.001709	.035938	-.007620
57	.036657	-.044646	.006191	.001514	.038321	-.006689
58	.025529	-.034048	-.004198	.004141	.017989	-.007655
59	.020132	-.016827	-.014590	-.006238	.004868	-.011822
60	.005240	-.007975	-.018154	.002840	-.003397	-.009410

RUN NO. 80A 16M 11- 1-62 2215-2315 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.63541 10E-01	0.42053 10E-01	0.24613 10E-01	0.28423 10E-01	0.16636 10E-01	0.11010 10E-01
1	-.002702	-.030335	.042616	-.009451	-.008982	-.010898
2	.005930	-.033009	.066394	-.004147	-.017352	-.028852
3	.015256	-.026641	.077244	-.004666	-.022953	-.035496
4	.016763	-.026629	.079035	-.008317	-.020776	-.034648
5	.014207	-.017516	.069469	-.013012	-.007345	-.030090
6	.006408	-.010016	.058817	-.021626	.014488	-.027644
7	-.007688	.000578	.053316	-.040217	.027236	-.030447
8	-.019080	.006820	.051295	-.039243	.026903	-.028192
9	-.031783	.003949	.046555	-.030063	.031819	-.029844
10	-.039836	.004125	.046013	-.020242	.041826	-.026572
11	-.055073	.000450	.045025	-.023675	.048598	-.019948
12	-.064665	-.003107	.044253	-.035783	.037819	-.015207
13	-.064954	-.004539	.042063	-.037838	.026561	-.005583
14	-.062558	-.010810	.040205	-.041183	.021307	-.004274
15	-.050616	-.025062	.035039	-.031867	.016190	.007893
16	-.040094	-.020393	.025869	-.017976	.012800	.012199
17	-.038772	-.005474	.015610	-.005230	.006922	.005476
18	-.044821	.001065	.008730	-.005046	.006149	-.004867
19	-.042467	.006800	.004723	-.004116	-.001425	-.000539
20	-.023802	.020521	.000786	-.001861	-.011012	-.010779
21	-.001825	.034240	-.004719	.004023	-.023264	-.012298
22	.016461	.043132	-.003817	.023666	-.036669	-.024185
23	.025727	.058194	.000270	.035273	-.043271	-.043074
24	.036528	.066170	.000249	.026619	-.041362	-.053539
25	.043301	.065580	.001989	.024737	-.035597	-.059333
26	.034791	.062356	.001821	.022839	-.021992	-.057096
27	.028676	.056079	-.004858	.002528	.001766	-.056000
28	.023475	.038226	-.005967	-.021393	.026451	-.043559
29	.011601	.026709	-.003853	-.031435	.049413	-.018772
30	.004310	.018688	-.003664	-.017530	.052663	-.009836
31	-.011976	.007589	.001789	-.020290	.040263	-.007698
32	-.027666	-.006458	.003838	-.014931	.021010	-.005390
33	-.021060	-.026663	.003245	-.002549	.013631	.008711
34	-.008634	-.043551	.005012	.013705	.011450	.019097
35	-.000065	-.041671	-.000190	.016749	.011975	.028294
36	.009662	-.021280	-.007126	.015947	.013930	.032928
37	.026295	-.016587	-.018367	.026215	.016704	.032994
38	.036913	-.022922	-.026217	.023563	.010475	.033111
39	.032746	-.012597	-.047636	.035843	-.004829	.038268
40	.033501	.005545	-.060595	.035389	-.010806	.038741
41	.032944	.014218	-.054172	.028959	-.008712	.027937
42	.033352	.010830	-.038678	.019495	-.004158	.017895
43	.025602	-.004962	-.025811	.015681	-.003928	.015389
44	.033861	-.004671	-.020403	.018479	.001086	.011500
45	.042020	-.007530	-.007739	.004357	-.001924	.005252
46	.031228	-.016135	-.003475	-.000256	-.015265	-.002519
47	.030475	-.024922	-.006866	.009119	-.028001	.000457
48	.036020	-.023115	-.014378	.011710	-.033049	.009714
49	.028507	-.025853	-.012685	-.002579	-.029271	.011085
50	.015401	-.044235	-.003999	-.016998	-.028932	.022114
51	.006487	-.046466	.009986	-.020452	-.033107	.031732
52	-.003131	-.049829	.021230	-.010278	-.034084	.036253
53	-.020628	-.046706	.032247	-.015747	-.032684	.034944
54	-.026737	-.039459	.036286	-.004049	-.030097	.033351
55	-.023099	-.029425	.028320	-.002434	-.025369	.022675
56	-.017557	-.011356	.015202	.000900	-.020151	.012643
57	-.009444	-.005362	.005458	.006011	-.025104	.006551
58	-.001374	-.004871	.002502	.007030	-.028514	.001489
59	.008271	-.001910	.004377	-.001007	-.029244	-.001177
60	.013061	-.002051	.011846	-.021519	-.013929	.006051

RUN NO. 80A 16M 11- 1-62 2215-2315 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.94012 10E-01	0.42947 10E-01	0.18811 10E-01	0.64439 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.806573	.689746	.585060	.802315
2	.594484	.368848	.231638	.559799
3	.437633	.192945	.065736	.391478
4	.313590	.069406	-.004654	.272428
5	.202028	-.017111	-.034028	.179026
6	.113800	-.051319	-.065139	.103171
7	.048134	-.073996	-.099304	.053206
8	-.018631	-.099213	-.121628	.005782
9	-.064852	-.122247	-.118432	-.035628
10	-.106977	-.131431	-.134243	-.077199
11	-.133975	-.128786	-.122381	-.116735
12	-.151649	-.115648	-.091635	-.148508
13	-.175415	-.099784	-.065046	-.166387
14	-.189084	-.093729	-.051438	-.171091
15	-.192369	-.091004	-.041496	-.164776
16	-.195750	-.087186	-.053080	-.165259
17	-.191658	-.073279	-.074998	-.171719
18	-.185701	-.077764	-.063863	-.176919
19	-.188406	-.086696	-.039095	-.179343
20	-.202679	-.081821	-.030459	-.180165
21	-.203991	-.097468	-.031506	-.179503
22	-.196603	-.083396	-.034593	-.182228
23	-.198015	-.085518	-.040965	-.181659
24	-.196093	-.091076	-.034150	-.177790
25	-.189885	-.114646	-.042883	-.175175
26	-.185105	-.113340	-.055150	-.164026
27	-.171868	-.113983	-.046677	-.144090
28	-.152761	-.116922	-.050420	-.117897
29	-.141765	-.105432	-.064402	-.101635
30	-.120020	-.077444	-.038750	-.084556
31	-.080881	-.033283	-.007314	-.056296
32	-.037272	.001268	.007689	-.035030
33	.000615	.026426	.036551	-.016210
34	.013476	.046066	.046028	-.003810
35	.014922	.054291	.013849	.001141
36	.011241	.051504	.008119	-.002385
37	.018919	.037607	.003452	-.016264
38	.022850	.021314	.011256	-.027348
39	.029631	.015540	.013630	-.027762
40	.035170	.027289	.022622	-.021102
41	.041854	.040001	.032600	-.021396
42	.046359	.055363	.021740	-.010933
43	.051216	.051235	.028676	.006467
44	.053456	.048591	.024834	.014906
45	.046306	.044514	.019286	.026393
46	.050470	.049739	-.000482	.046237
47	.061295	.041441	-.016895	.064229
48	.066513	.053914	-.040531	.070886
49	.068668	.059164	-.058479	.077176
50	.076144	.045958	-.064670	.074752
51	.076681	.019256	-.055591	.071583
52	.070431	-.002130	-.025347	.061207
53	.066326	.007148	.000846	.050505
54	.057468	.004923	.017922	.045087
55	.046215	-.013921	.025508	.032622
56	.039670	-.006749	.025229	.013965
57	.036102	.003159	.010721	-.001162
58	.033266	-.001569	.036781	-.018715
59	.009111	-.021410	.052195	-.029421
60	-.014880	-.029585	.040793	-.033702

RUN NO. 80A 16M 11- 1-62 2215-2315 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-02	10E-02	10E-03	10E-04	10E-03
0	-.035796	-.002820	.009144	.002483	-.057930	-.004829
1	-.231265	-.082761	.147578	.110010	-.447957	-.106066
2	-.353909	-.136860	.231213	.178146	-.840725	-.209935
3	-.300480	-.181581	.269965	.135909	-.979716	-.362993
4	.131422	-.176799	.194079	-.014423	-.507628	-.416767
5	.316990	-.164928	.129290	-.095922	-.109811	-.378292
6	.183414	-.164354	.109653	-.232004	.563459	-.358084
7-8	-.255339	-.112657	.079817	-.126258	.215554	-.286367
9-11	.269137	-.045775	.033223	.011920	.727445	-.125992
12-15	.066120	-.025886	.020348	-.077491	.660363	-.114549
16-20	.122662	-.026302	.012059	-.056456	.444384	-.086507
21-27	-.012485	-.015914	.006487	-.045424	.022828	-.055135
28-36	.024086	-.006552	.003796	.010956	.051945	-.035109
37-47	.022340	-.002733	.001568	-.022014	.011807	-.021514
48-60	.005214	-.002118	.001080	-.003463	-.011886	-.009498

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	-.506417	.396549	.310352	-.137696	.105162	-.146342
2	-.958623	.172334	.462584	-.274073	.081115	-.129067
3	-.835621	-.352884	.465452	-.292109	.090097	-.027004
4	-.308471	-.487383	.362813	-.219624	.168206	.002552
5	.314349	-.047209	.340225	-.163571	.079662	-.114130
6	.965287	.327985	.177647	.074376	-.127896	-.150217
7-8	.378554	-.205012	.134321	.109661	-.142996	-.005745
9-11	.119572	-.216042	.151973	-.007895	-.058021	-.012009
12-15	-.118476	-.075419	.073592	.026346	-.012904	-.016085
16-20	-.012318	-.046383	.031963	-.029914	-.011177	-.004615
21-27	-.035896	-.038306	.005147	-.012279	.021021	.003338
28-36	-.022657	-.031217	.007974	-.009015	-.007620	.003777
37-47	-.012493	-.013437	.003565	-.007181	.001788	.002953
48-60	.002096	.005878	-.000658	-.003950	-.000824	.001331

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-03
0	.004529	.006516	.002613	.041619
1	.072845	.141441	.042300	.534591
2	.118972	.276310	.071811	.776736
3	.143189	.375224	.107554	.895562
4	.104112	.302979	.107940	.685429
5	.072203	.264899	.104033	.480840
6	.063887	.299501	.115789	.385601
7-8	.048374	.261767	.101721	.325011
9-11	.026711	.174950	.076081	.186231
12-15	.017466	.122532	.051944	.148011
16-20	.010731	.091230	.050917	.086575
21-27	.007381	.055399	.036767	.060198
28-36	.005332	.044070	.023347	.038012
37-47	.003264	.027516	.017775	.020902
48-60	.002563	.015965	.012140	.013744

RUN NO. 80A 16M 11- 1-62 2215-2315 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
	0.29915 10E-01	0.16452 10E-01	0.15819 10E-01	0.85108 10E-02	0.81836 10E-02	0.45007 10E-02
0	-.079829	-.475888	.713809	.028558	-.065352	-.381945
1	-.052938	.080597	.160524	-.005854	-.022452	.110847
2	-.032257	-.019964	-.007862	-.024107	-.018451	-.011247
3	-.025165	.083696	-.059554	-.040554	-.004375	.008354
4	-.046292	.075990	-.077209	.006246	-.025698	.054979
5	.029048	-.077185	.065150	-.023888	.011362	-.070128
6	.018394	.038510	-.063431	-.004023	.039258	.045746
7	.040729	-.078245	.011361	.009653	.013944	-.084862
8	.063125	-.048602	-.007316	-.034372	.084950	-.037504
9	-.045852	.046276	-.103835	.013062	-.008798	-.016950
10	-.032419	.015948	-.164553	.026674	.009819	.040078
11	-.061873	.098328	-.106529	.110542	-.028341	.064107
12	.123494	.038352	-.010004	-.030990	.064035	-.006590
13	.112202	.071275	-.022126	-.153366	.065183	.088096
14	-.017464	-.052235	.086031	.022005	-.085198	-.109137
15	.024128	-.010423	.044130	.054841	-.003520	-.027901
16	.000191	-.062166	.066824	.019654	-.023494	-.029276
17	.022774	-.003680	.065655	-.009872	.012362	-.002987
18	-.007662	-.055301	.084933	.007267	-.044924	.024954
19	-.087118	-.015721	.143812	.026045	-.071334	.018495
20	.083262	.038995	-.028491	-.046025	.003694	.066898
21	.064110	.028996	-.089051	.010461	-.007068	.020422
22	-.026810	.061319	-.089785	.092943	-.002106	.038765
23	.070139	.023768	-.007791	.011529	.021021	-.026836
24	-.025557	.006318	.012953	.079145	-.005659	-.015705
25	.072278	.012599	.027927	-.073897	.056622	.020190
26	-.012444	-.075507	-.021572	-.007898	.074588	.003208
27	-.033260	.108354	-.139783	-.047520	.018895	.131974
28	-.017749	-.071325	-.097778	.075407	-.036930	-.014058
29	-.034027	.069350	-.118567	-.040546	.022576	.020834
30	-.073905	-.034003	.023690	.014636	.000656	-.036006

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-03	10E-03
0	.005209	-.022399	.125131	-.101976	.001640	-.014539
1	-.376768	-.148358	.428468	-.658511	.008014	-.061622
2	-.463277	-.154531	.435129	-.353997	-.029734	-.028043
3	-.404389	-.219434	.841272	-.189576	-.116797	-.017603
4	-.253082	-.154790	.828429	-.305498	-.107468	-.020102
5	-.158215	.052848	.324380	.084005	-.033161	.005946
6	-.355490	-.067318	.235424	.555354	-.029498	.011025
7	-.363077	-.447063	.576033	.704861	-.016006	-.067170
8	.131893	-.548589	.724159	.203102	.015683	-.118750
9-11	.204272	-.353685	.661611	.146873	.019029	-.042895
12-14	-.219518	-.285450	.480648	.073557	-.046566	-.054322
15-21	-.069979	-.214953	.339079	.299993	-.015939	-.074495
22-30	.007301	-.757088	.501110	.037129	-.017614	-.177178

RUN NO. 80A 16M 11- 1-62 2215-2315 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
	0.29915 10E-01	0.16452 10E-01	0.15819 10E-01	0.85108 10E-02	0.81836 10E-02	0.45007 10E-02
1	-.069505	-.022151	.073274	-.075221	.076138	-.055630
2	-.000450	.055577	.032272	.013707	-.011195	-.040994
3	.019184	.010282	.064150	.000007	.025319	-.088151
4	.101209	-.001782	.005659	.093290	-.024140	.018165
5	.033182	-.093656	.037339	.042687	-.031636	.037603
6	.013858	-.055471	.034773	-.042146	-.016298	.012210
7	-.029914	-.011693	.027792	.030224	.008610	.000393
8	-.010632	.028012	.005602	-.027233	.072336	-.083490
9	.081223	-.031002	-.024985	.086865	-.029082	.035674
10	.014095	-.000034	.014931	-.082613	.035761	.003529
11	.069458	.011270	-.009195	.081427	-.076168	-.002753
12	.028653	-.037154	.025586	-.063980	-.029697	.025149
13	.047278	-.032718	.016250	.032179	-.024831	.022866
14	.027140	-.020582	.001680	.017091	.018442	-.016810
15	-.083653	-.008048	.038751	-.060452	.072749	-.018759
16	-.019551	-.060069	.004816	-.008831	.014405	.093537
17	.022414	-.005633	-.023668	-.001084	-.043044	-.012144
18	.140207	.022283	-.015595	.054453	-.085952	.015707
19	.016403	.031773	.018709	-.005097	.000167	-.048488
20	-.098418	.050092	.021819	-.018743	.095274	-.046915
21	-.011878	-.029255	.020769	.039779	.038331	.006379
22	-.027909	.023890	-.010566	-.094883	.003149	-.044061
23	.052348	.051725	.000892	-.027411	-.039688	-.011420
24	-.037660	.027803	.007981	-.094916	.034365	.015072
25	-.040877	-.026769	-.039089	.053586	.042116	.048383
26	-.001415	.029955	-.010075	-.037176	.035783	.000560
27	.001077	-.019856	.029716	.033332	.035891	-.011463
28	-.011014	.031833	.030084	-.013891	.013522	-.077545
29	.003457	.030541	.027298	-.008428	-.060150	-.035266
30	.043380	-.095664	-.036361	.065210	-.042904	.077997

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	.608949	-.216044	.214678	.036356	-.097685	-.057019
2	.395713	-.167377	.162824	.062728	-.137639	-.113646
3	.135511	-.038759	.157556	.053260	.175162	-.358409
4	.017969	-.015307	.170296	.048723	.158489	-.348705
5	.017133	-.064218	.169305	.017997	.005039	-.118495
6	.103481	.053990	.145375	-.008855	-.087022	-.309311
7	.253870	.199407	.062872	.018610	-.195539	-.506676
8	-.022025	.208835	.000386	-.032382	.462721	-.457066
9-11	-.441587	.119415	.095356	-.086364	.924713	-.596129
12-14	-.328925	-.106795	.092877	-.108109	.147985	.154406
15-21	-.059319	-.073912	.029678	-.010325	.468772	.119816
22-30	-.176480	-.119891	.095956	-.039643	.440657	-.324013

RUN NO. 80A 16M 11- 1-62 2215-2315 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.57828 10E-01	0.15475 10E-01	0.46807 10E-02	0.43276 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.202293	.009766	-.223685	.279629
2	-.020464	-.012080	.094210	.078412
3	-.051865	-.073941	-.141894	-.024836
4	-.080616	.105311	-.092655	-.111625
5	.116273	.092996	-.001230	.020162
6	-.079295	-.020866	-.028720	-.120095
7	-.034503	.046555	.037748	-.024676
8	.083281	-.036371	.044929	-.080908
9	-.049723	-.078352	-.012700	-.156693
10	-.102211	.054360	.006823	-.222977
11	-.075816	.024768	-.095770	-.127773
12	-.069004	-.076723	.009984	-.032014
13	-.005412	-.145263	-.121924	-.055785
14	.037877	-.065861	.130966	.110287
15	-.000419	-.045756	-.106013	.037051
16	.082582	.044127	.064659	.052480
17	.025665	.049381	-.079264	.115007
18	.090850	-.077300	.114580	.110870
19	.155037	-.015283	-.095294	.197573
20	-.018104	-.051459	.011064	-.010030
21	-.080126	.006002	-.036813	-.075736
22	-.107508	-.052326	-.021010	-.105913
23	-.085858	-.022722	-.007305	-.037566
24	-.025326	-.078232	.088046	.004881
25	.042926	-.008220	-.046898	-.013793
26	.021612	-.011362	.122813	-.036597
27	-.125289	.048058	-.118230	-.152312
28	-.043310	.085917	.078078	-.174790
29	-.057531	-.019136	-.081570	-.168293
30	.077707	-.080957	-.000319	-.061028

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-03	10E-03	10E-03
0	.097370	.196918	.011570	.044313
1	.332878	.959548	.076645	.182311
2	.238309	.734545	.083532	.216683
3	.330643	.591689	.090457	.396792
4	.312728	.394804	.089002	.384175
5	.171607	.275406	.096246	.189977
6	.209177	.403025	.132625	.149470
7	.325051	.542660	.203914	.224707
8	.312832	.442284	.220344	.243068
9-11	.276315	.665364	.159392	.219521
12-14	.297860	.729409	.147049	.143470
15-21	.171129	.621221	.165815	.123563
22-30	.273335	.996877	.457125	.178943

RUN NO. 80A 40M 11-01-62 2215-2315 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.16	M/SEC	WIND DIRECTION	299 DEG
STABLE	SIGMA A	3.4	DEG	SOLAR RADIATION	0
LAND	SIGMA E	1.3	DEG	NET RADIATION	-0.15

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.17416E-00	0.51850E-01	0.47034E-01	0.24803E-01
V	0.95028E-01	0.30006E-01	0.28983E-01	0.86450E-02
W	0.14654E-01	0.14093E-01	0.13590E-01	0.29402E-02
T	0.31519E-01	0.58577E-02	0.49548E-02	0.30948E-02
E	0.14192E-00	0.47999E-01	0.44804E-01	
GUSTINESS RATIOS				
U	0.08088	0.04413	0.04203	0.03052
V	0.05974	0.03357	0.03299	0.01802
W	0.02346	0.02301	0.02259	0.01051
COVARIANCES				
U,V	-0.35054E-01	0.60118E-02	0.60081E-02	0.12458E-02
U,W	-0.44746E-02	-0.99247E-02	-0.92878E-02	-0.32752E-02
U,T	0.46868E-01	0.10452E-01	0.85954E-02	0.60970E-02
V,W	-0.40037E-02	-0.22548E-02	-0.17606E-02	-0.21730E-03
V,T	-0.18721E-01	0.27128E-02	0.25041E-02	0.60489E-03
W,T	-0.21987E-02	-0.30101E-02	-0.30186E-02	-0.86478E-03
WE	0.13105E-03	0.32792E-04	0.19838E-03	
NORMALIZED COVARIANCES				
U,V	-0.27249	0.15241	0.16273	0.08508
U,W	-0.08857	-0.36714	-0.36737	-0.38353
U,T	0.63259	0.59974	0.56305	0.69591
V,W	-0.10729	-0.10965	-0.08871	-0.04310
V,T	-0.34207	0.20462	0.20896	0.11694
W,T	-0.10231	-0.33129	-0.36786	-0.28669

RUN NO. 80A 40M 11-01-62 2215-2315 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.36912 10E-01	0.25278 10E-01	0.15261 10E-01	0.19841 10E-01	0.11979 10E-01	0.82034 10E-02
0	.162589	-.367575	.563021	-.088433	.208971	-.368047
1	.128317	-.247532	.478999	-.016774	.142479	-.234121
2	.078493	-.112523	.338413	.027302	.059420	-.092823
3	.042433	-.037224	.221295	.022692	.011971	-.023388
4	.011211	.012717	.138890	.021036	-.015263	.009821
5	-.014938	.032830	.084827	.015460	-.022414	.014804
6	-.027620	.037439	.052320	.013820	-.026374	.030256
7	-.040012	.028923	.022948	.027075	-.042767	.052024
8	-.024825	.027157	-.001583	.020537	-.035411	.045106
9	-.004383	.031407	-.027690	.008290	-.017870	.042431
10	.003414	.033858	-.058318	-.006844	-.017764	.038611
11	-.003357	.043142	-.080998	-.008489	-.033949	.043098
12	-.003647	.057129	-.095701	-.002410	-.036494	.049941
13	.002468	.058944	-.097669	-.012454	-.025052	.054385
14	.000075	.041860	-.093331	-.010624	-.009627	.042556
15	-.012854	.039248	-.098976	-.002584	-.004187	.036890
16	-.033889	.047564	-.120181	.005547	.001753	.033267
17	-.044493	.045119	-.128111	-.000658	-.000334	.017067
18	-.037265	.031595	-.120748	-.011021	-.001835	.010140
19	-.034057	.027609	-.114156	-.003274	-.004099	.015399
20	-.026609	.026341	-.099783	-.009736	.011271	.021411
21	-.010729	.023903	-.086202	-.013498	.027492	.026368
22	.000165	.015659	-.085869	-.003335	.019859	.027968
23	.002067	-.011623	-.081200	.005124	.015031	.016325
24	-.002009	-.010645	-.084420	.002322	.019527	.013115
25	.002983	-.000034	-.088450	.000337	.022581	.012968
26	.006920	.005614	-.091219	-.002122	.024213	.016502
27	.005101	.019464	-.082822	-.004513	.029029	.013380
28	.007952	.006451	-.051852	-.002571	.021486	.002463
29	.010169	-.019677	-.019955	-.008052	.008835	-.013908
30	.008088	-.025186	-.003759	-.015024	.003373	-.015539
31	.005477	-.018443	.003714	-.016859	.005105	-.021291
32	.011476	-.018684	.006382	-.023602	.001799	-.022001
33	.012250	-.020935	.006984	-.005411	-.004167	-.024195
34	.000008	-.020035	-.000759	.007183	-.010616	-.032424
35	-.009093	-.013452	-.007979	-.000497	-.019030	-.025991
36	-.012757	-.004859	-.018314	-.001819	-.028183	-.014553
37	-.009726	-.007086	-.022420	.001976	-.032156	-.005188
38	-.004332	-.019816	-.006573	.006723	-.021143	.002155
39	.006984	-.036766	.013176	.019126	-.003505	-.013667
40	.013869	-.049172	.019949	.008462	.017024	-.025275
41	.014133	-.038801	.013369	-.002315	.025274	-.017056
42	.008620	-.014325	.002392	-.006625	.008905	-.000932
43	-.002062	.011769	-.010603	-.003520	-.019026	.020710
44	-.008813	.026229	-.016366	.024167	-.053775	.030653
45	-.014598	.033874	-.011048	.027812	-.066122	.027812
46	-.021852	.045292	-.008961	-.003514	-.052295	.022222
47	-.034719	.046314	-.007895	-.017047	-.036081	.012743
48	-.042748	.045126	-.006038	-.013515	-.037706	.001546
49	-.047168	.033608	.007696	.007182	-.031865	-.007144
50	-.041289	.014058	.029230	.012720	-.017447	-.013579
51	-.036650	.011708	.036946	.004462	-.016705	-.009597
52	-.033463	.017519	.039568	-.009014	-.019652	-.018294
53	-.014320	.006773	.037655	-.022948	-.016936	-.019567
54	.008855	.003928	.026883	-.028029	-.009793	-.022743
55	.022561	.008282	.007979	-.023249	-.011563	-.019079
56	.020787	.019172	-.013043	-.024551	-.007019	-.004059
57	-.004647	.021436	-.025058	-.001548	-.006319	.008607
58	-.018222	.015757	-.018506	.017469	.000798	.011083
59	-.018126	.015261	-.005674	.033795	.000955	.026510
60	-.004108	.008559	.003920	.017602	.012877	.039702

RUN NO. 80A 40M 11-01-62 2215-2315 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.36912 10E-01	0.25278 10E-01	0.15261 10E-01	0.19841 10E-01	0.11979 10E-01	0.82034 10E-02
1	.045284	.001923	.053328	.032334	-.010470	-.013457
2	.049117	.008538	.053651	.016815	-.008562	.003922
3	.041109	.013505	.038165	-.001499	-.006780	.026985
4	.027647	.009918	.034414	-.004207	.005094	.036714
5	.019487	-.000634	.044381	-.012681	.022687	.023284
6	.029395	-.000919	.050476	-.009237	.021871	.012705
7	.033188	-.001690	.054445	-.004723	.010019	.017592
8	.025124	.001587	.059432	-.006656	.002305	.016186
9	.025348	.003936	.059638	-.004739	-.000637	.006395
10	.022144	.008091	.054600	.003182	.012628	.001218
11	.005909	.011360	.048125	.006739	.019580	.006212
12	-.012241	.010470	.038077	.010497	.015837	.016713
13	-.012895	.018346	.035882	.004998	.017722	.010846
14	-.003352	.028767	.038788	-.000362	.018209	-.004496
15	.005896	.032267	.044584	.020527	.003348	-.014621
16	.008160	.022763	.045869	.026350	.005842	-.025682
17	.008126	.013576	.037965	.041864	-.001914	-.021983
18	.015124	.013573	.022367	.039952	-.015852	-.003774
19	.023720	.004835	.007958	.032996	-.023185	-.005104
20	.020102	-.006490	.000203	.013235	-.025840	-.007781
21	.020047	-.000623	-.006891	-.004867	-.016050	-.009919
22	.005607	-.005032	-.011054	-.019614	.003447	-.003630
23	-.014159	-.008036	-.006065	-.017740	.018217	.004799
24	-.028812	-.008992	-.000269	-.012377	.027083	.008655
25	-.034547	-.014014	-.001536	-.009807	.032256	.015683
26	-.040662	-.008849	-.004985	.005183	.031221	.007081
27	-.034167	-.008192	.001495	.007412	.035076	-.013714
28	-.035855	-.005155	.002867	-.007849	.038635	-.015161
29	-.047726	.006408	.000491	-.024304	.045108	-.007819
30	-.049327	.008853	-.010816	-.026948	.041119	.001387
31	-.046074	.000295	-.022084	-.017094	.028896	.013434
32	-.030736	.017548	-.034897	.007591	.011249	.001705
33	-.010675	.008410	-.033861	.018933	-.013119	-.008502
34	.012209	-.011228	-.024792	.023220	-.031635	-.006816
35	.025547	-.017050	-.013811	.023842	-.041118	.000425
36	.029157	-.013691	-.000242	.014262	-.042062	.000420
37	.031571	-.003262	.003300	-.009079	-.031860	.003364
38	.032153	.003275	.001099	-.020594	-.027217	.008985
39	.044987	.004139	.003605	-.016997	-.032713	.012474
40	.045311	-.007002	.007876	-.011796	-.027236	.005462
41	.045277	-.010066	.011468	.015583	-.028616	.004427
42	.040172	.005629	.003606	.019346	-.026445	.004410
43	.035051	.021325	-.004124	.014464	-.018992	.000093
44	.023732	.024400	-.015981	.002458	-.007465	-.000089
45	.007105	.016543	-.025028	-.008160	.002983	.012941
46	-.027633	.010125	-.029196	-.029102	.016150	.018706
47	-.041391	-.002230	-.024718	-.033445	.024026	.006254
48	-.032472	-.014891	-.019058	-.040347	.023809	.004380
49	-.030044	-.013990	-.014380	-.040845	.020503	.010078
50	-.016750	-.023561	-.005993	-.014264	.011451	.008623
51	-.005363	-.033167	.011293	.004847	.010415	-.000105
52	-.001331	-.010169	.015392	.005039	.022706	-.009627
53	.000166	.010290	.008449	.010531	.027879	-.021284
54	-.001259	.018473	-.006619	.001477	.022427	-.019629
55	-.010515	.018916	-.019755	.000034	.009414	-.009960
56	-.012294	.002473	-.025966	.004636	-.001972	.002633
57	-.002104	-.017510	-.016691	.008750	-.001962	.006733
58	.006464	-.018221	.000372	.021270	-.001122	-.005537
59	.012407	-.018225	.017725	.027273	-.002598	-.010007
60	.006640	-.008070	.018118	.028686	-.004364	-.007256

RUN NO. 80A 40M 11-01-62 2215-2315 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.47027 10E-01	0.28973 10E-01	0.13588 10E-01	0.49526 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.758439	.610349	.496038	.773796
2	.493026	.256534	.118832	.499744
3	.308713	.088635	-.016233	.308999
4	.174912	.010532	-.076728	.189146
5	.089390	-.024428	-.057822	.117824
6	.043464	-.034776	-.034738	.064347
7	.011898	-.040864	-.050219	.013245
8	-.013758	-.052507	-.052644	-.024927
9	-.039828	-.074347	-.064764	-.061556
10	-.066051	-.103772	-.053635	-.090466
11	-.089452	-.119366	-.058405	-.114012
12	-.121215	-.126698	-.097894	-.124376
13	-.137683	-.097979	-.102610	-.131957
14	-.147968	-.042612	-.069114	-.128121
15	-.161085	-.038665	-.038084	-.135674
16	-.180282	-.072373	-.035951	-.146062
17	-.195766	-.082114	-.031966	-.154441
18	-.194616	-.088688	-.034853	-.161724
19	-.189182	-.096148	-.044438	-.161337
20	-.180528	-.111201	-.060791	-.146499
21	-.167078	-.124106	-.052430	-.132465
22	-.164140	-.109228	-.036763	-.122850
23	-.160189	-.095092	-.005948	-.114450
24	-.164626	-.080501	-.019012	-.119955
25	-.174551	-.050638	-.034796	-.121833
26	-.168488	-.035846	-.030459	-.121537
27	-.143738	-.032480	-.050928	-.109783
28	-.104213	-.031619	-.055887	-.087023
29	-.067561	-.023824	-.026537	-.065890
30	-.033774	.006662	-.009301	-.051663
31	.000755	.024727	.008694	-.035312
32	.022186	.029181	.002678	-.023731
33	.035467	.024250	.012676	-.014158
34	.035499	.018273	.038457	-.010656
35	.030770	.024501	.033063	-.012316
36	.024166	.034971	.017411	-.016690
37	.022945	.036663	.022690	-.021653
38	.033446	.026580	.016019	-.011892
39	.042363	.032628	.039532	.001403
40	.064513	.058206	.063902	.006064
41	.076571	.052703	.043030	-.011961
42	.070903	.035660	.014897	-.034659
43	.067496	.015289	-.023534	-.052102
44	.062616	.001851	-.060136	-.055094
45	.047575	.014687	-.043765	-.040218
46	.023683	.017135	-.032385	-.021047
47	.005710	-.006391	-.012385	-.005701
48	.001460	-.034224	.002414	.012276
49	.024049	-.056282	-.002604	.027711
50	.038992	-.062393	-.008086	.049005
51	.045454	-.039587	-.020214	.050477
52	.044333	-.015949	-.014310	.043027
53	.029427	-.002587	-.008678	.024099
54	.011056	-.003743	-.003742	.004786
55	-.014418	-.011738	.006442	-.013845
56	-.036178	-.012130	-.001144	-.021750
57	-.038755	-.012867	-.007919	-.013612
58	-.022483	-.003024	.010676	.012842
59	-.011826	-.010219	-.010157	.029123
60	-.021613	-.002483	-.023146	.033420

RUN NO. 80A . 40M 11-01-62 2215-2315 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-02	10E-04	10E-03	10E-03
0	.050606	-.028989	.005576	.022594	.021070	-.002744
1	.327392	-.183868	.066872	.427087	.099898	-.038752
2	.322590	-.303696	.097359	.630159	.031782	-.094280
3	.506367	-.651704	.121967	.581484	.055324	-.191424
4	.578882	-.765010	.102642	.066146	.173915	-.222161
5	.406947	-.605955	.070325	-.036332	.214285	-.179427
6	.298218	-.561717	.053157	-.132500	.190695	-.175930
7-8	.332158	-.435994	.043929	-.831893	.137391	-.173194
9-11	.488683	-.428673	.029232	-.803778	.123098	-.117771
12-15	.155619	-.371573	.020308	-.492876	.101919	-.111119
16-20	.059036	-.223075	.014016	-.571575	.051817	-.069646
21-27	.079123	-.137236	.006003	-.773142	.054652	-.064651
28-36	.018312	-.093956	.002716	-.461679	.015800	-.029993
37-47	.032731	-.059465	.001537	-.471812	.018660	-.024202
48-60	.003170	-.030176	.000585	-.172695	.005182	-.011405

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	.016198	.098140	.205180	.064175	.662831	.049039
2	.112384	.106779	.273734	.075343	.613390	.053086
3	.406878	.115237	.300520	.046445	.042985	.262955
4	.385843	.055830	.207517	-.008395	-.154230	.422932
5	-.037051	-.039792	.097603	-.101308	.885609	.442029
6	.086701	-.082407	.053359	-.118867	.628242	.446767
7-8	.385178	-.033432	.023771	.031079	-.751542	.149825
9-11	.018508	.068663	.051476	.041727	.204257	.038512
12-15	.103355	.011062	.015375	.043983	-.259294	.046381
16-20	.124137	.022643	.049267	.021498	-.247419	-.143605
21-27	.060494	-.015450	.038331	.040737	.065450	-.163684
28-36	.006821	-.010490	.020795	.021655	-.006362	-.045286
37-47	.029434	.003266	.005061	.016417	-.044567	-.029192
48-60	.003665	-.004169	.003037	.000457	-.012988	-.008084

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.019822	.007073	.022378	.030908
1	.268573	.079932	.246706	.362316
2	.464152	.139818	.404705	.488477
3	.615087	.215355	.630720	.575583
4	.460405	.193743	.628812	.487057
5	.289346	.142870	.547975	.358950
6	.253294	.141607	.607807	.297011
7-8	.233630	.148375	.538802	.249589
9-11	.177534	105290	.473993	.175765
12-15	.125306	)94735	.500494	.121223
16-20	.079181	.078100	.387667	.089906
21-27	.047507	.051531	.321666	.054798
28-36	.031558	.035234	.206101	.029400
37-47	.022678	.023718	.179226	.019639
48-60	.013799	.016285	.104749	.012262

RUN NO. 80A 40M 11-01-62 2215-2315 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
	0.14651 10E-01	0.85358 10E-02	0.87566 10E-02	0.50417 10E-02	0.51720 10E-02	0.30132 10E-02
0	.085027	-.383695	.696274	-.043101	.116954	-.286997
1	-.010607	.037674	.147843	-.025268	-.026845	.078667
2	-.051308	.017266	.003685	-.030767	.015596	.076298
3	-.024821	-.008300	.019256	-.063233	.007489	-.010128
4	-.072305	.012600	-.056930	.033953	-.057988	.044753
5	-.042152	.101965	.002887	-.041964	-.072680	.013566
6	-.009553	.098150	-.025135	.020569	.024945	.044401
7	-.000678	.011582	-.049519	-.000825	-.020970	.023687
8	.035327	.006095	-.033622	-.015091	-.003317	-.032311
9	.028096	.033739	-.014475	.003108	.062458	.001390
10	.107154	.080498	-.049426	.064968	.131104	.046411
11	.109088	-.088741	.063567	-.078266	.111170	-.081415
12	.012372	-.035182	.025363	.036143	.050872	.000315
13	-.026329	.085606	-.116281	.040018	-.036355	.052949
14	.050781	-.074192	-.028214	-.021898	-.007812	-.069187
15	.030156	-.018183	-.061603	.028248	-.042915	.031804
16	-.077323	-.046125	-.020110	.054201	-.080853	-.069715
17	-.047546	.011991	-.007051	.024736	-.094452	-.095873
18	-.075911	.046993	-.018497	.030851	-.060527	.048241
19	.008029	-.031194	-.010106	.039119	.005845	-.016197
20	.032887	.026922	.033586	-.029131	.022236	-.019939
21	-.062247	-.005206	.066184	.047248	-.044631	-.036815
22	-.026779	-.049945	.106643	-.054526	.052707	-.081390
23	-.017395	-.059249	.098855	-.081031	-.012908	-.009551
24	-.065927	.103622	-.025441	.048251	-.092606	.121645
25	-.065857	.017751	-.015868	.014272	-.068096	.042666
26	-.055450	.021123	-.052654	-.030367	-.025433	.094776
27	.066126	.033411	-.012471	.023341	.055806	.016931
28	-.019009	-.005482	.026548	-.022233	.058290	.009997
29	-.116311	.125302	-.076110	.055549	-.011702	.102446
30	.068273	-.027635	.012144	-.111302	.097219	-.041045

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-03	10E-04
0	-.008373	.017973	.085701	-.084292	.007317	.013227
1	-.009924	.044780	.342518	-.680235	.049901	.279137
2	-.168663	-.015609	.328504	-.651147	-.010748	.258642
3	-.292752	-.120173	.359372	-.328574	-.084669	-.074726
4	-.068570	-.205081	.277308	-.076224	-.033495	-.220098
5	.223775	-.212928	.340559	-.287357	.108866	-.187732
6	.304743	-.159856	.370878	-.170140	.153335	-.301438
7	.158089	-.114335	.265355	.090145	.044715	-.300772
8	.079339	-.120392	.227209	-.011709	-.020168	-.314458
9-11	.055770	-.062953	.284338	.033402	.006062	-.249233
12-14	.050319	-.044792	.211029	.199387	-.009731	-.319965
15-21	.098341	-.218987	.249939	-.055831	.040147	-.620179
22-30	.057568	-.218441	.240149	-.124896	.048111	-.675701

RUN NO. 80A 40M 11-01-62 2215-2315 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
	0.14651 10E-01	0.85358 10E-02	0.87566 10E-02	0.50417 10E-02	0.51720 10E-02	0.30132 10E-02
1	.027328	.045875	.099891	.009235	.023793	.005464
2	.054560	-.019605	.013817	.034480	-.005795	.061062
3	-.017013	.026959	.043002	.011559	.057642	.010599
4	.114762	.006591	.020487	.050868	-.079426	.016914
5	.051424	-.048185	-.037291	-.081848	.007278	.013795
6	.065591	-.022789	-.014545	.091433	-.051138	-.039123
7	.048596	-.012640	-.040666	-.033906	-.078528	-.003635
8	-.003997	.057905	-.038990	.002226	-.023931	-.031092
9	.019395	.066531	-.038171	.020071	-.032663	-.097759
10	.000334	.012827	.000882	-.056488	.069248	.000471
11	.004890	-.008995	.037489	-.064159	.012142	.033576
12	.064535	.045522	.027430	.016781	-.028172	-.018367
13	.118942	-.017166	.054096	-.017597	-.136431	.000188
14	.038378	.014066	.056500	-.069881	-.026975	-.047371
15	.013307	.038863	.035322	.033364	.041311	-.120421
16	.018225	.027865	.036982	.063834	-.030579	-.052760
17	-.064100	.046232	-.006294	.015029	.008481	-.038753
18	-.003840	-.016909	.009117	.007949	.030495	-.013595
19	.022927	-.089402	.016006	-.017081	.000194	.079245
20	.030030	-.007102	-.066606	.092905	-.068401	.062962
21	-.031420	-.023478	-.054084	-.030577	.056055	.048329
22	.038510	-.058104	-.018424	.005992	.053036	.081663
23	.006442	-.032037	-.016329	-.001584	.018173	.052744
24	.010708	-.032772	.001678	.064014	-.022772	.011770
25	.027596	-.086672	.008358	.008546	.011708	.052783
26	-.041132	.028833	-.032813	-.016728	.105721	-.096739
27	-.015370	.056860	-.007104	.015166	.104253	-.019099
28	.014340	-.003262	.009454	.026411	.103737	.014187
29	.015833	.033599	-.068553	-.030845	-.038264	.059914
30	.050661	.008294	-.023508	-.043354	-.067302	.002629

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-04	10E-04
1	.461048	.072239	.050774	-.064539	-.864163	-.448187
2	.300702	.061604	-.000138	-.149936	-.632965	-.248952
3	.174210	-.037192	-.076826	.242296	-.161239	.264269
4	.108849	-.057616	.000591	.603022	-.029324	.269173
5	.171691	-.004893	.158084	.341960	-.043663	.024541
6	.180605	-.012508	.163350	-.086338	.173787	.432515
7	-.032778	.029654	.095575	-.085494	.686078	.482726
8	-.200243	.111684	.061638	.214972	.884916	-.053474
9-11	.009338	.041468	.043805	.222743	-.231055	.007022
12-14	.019477	-.047632	.044018	-.115552	.416661	.043512
15-21	.093284	.047504	.056644	.010258	-.274374	-.055406
22-30	-.162532	.037301	.047181	-.415059	.567810	-.135505

RUN NO. 80A 40M 11-01-62 2215-2315 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.24806 10E-01	0.86537 10E-02	0.29373 10E-02	0.30911 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.186831	.050635	-.002605	.212113
2	.000881	-.011352	.006721	.016970
3	.051786	.091555	-.008561	.012265
4	.016991	.053123	-.037533	-.139720
5	.010146	.014547	-.105043	-.044799
6	-.085541	.016745	-.050974	-.015272
7	-.021629	.034378	-.034368	-.074813
8	-.037023	-.001439	.001870	-.024895
9	-.014943	.067307	-.013935	-.002988
10	-.022781	-.056475	-.093082	-.043812
11	.125525	-.037914	.003128	-.003160
12	.075499	-.032601	-.072254	-.048020
13	-.066606	-.041869	-.149386	-.168827
14	.018258	-.116851	.032472	-.105527
15	-.005061	-.155651	-.072110	-.164708
16	.008462	.037031	.029202	.031226
17	-.028555	.044702	.012971	.028605
18	.008203	-.053904	-.087910	-.038709
19	-.007581	-.058839	.116305	-.015944
20	.009948	.080494	-.055975	.013113
21	.080696	-.009341	-.034050	.076511
22	.120309	-.019457	.022455	.132340
23	.137577	.058182	-.003130	.068770
24	-.057789	.070619	-.160078	.000513
25	-.074855	.075263	.095838	.029833
26	.018608	-.052151	.042489	-.084563
27	.011154	.011570	.113165	-.020939
28	-.041676	.031568	.085335	.016263
29	-.157839	.023872	-.046500	-.048255
30	.030452	.021318	.047286	.017728

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-03	10E-03	10E-03
0	.062164	.162460	.005302	.021476
1	.179415	.646733	.080712	.142862
2	.108215	.492488	.113118	.179186
3	.122880	.385160	.132773	.191226
4	.126003	.198433	.117532	.129233
5	.145792	.209107	.102775	.152533
6	.129936	.304041	.126302	.203879
7	.082275	.336546	.145658	.192964
8	.073987	.266623	.123704	.150587
9-11	.097344	.276016	.089509	.137526
12-14	.093708	.329385	.093932	.100363
15-21	.110230	.447387	.142911	.119870
22-30	.103262	.456071	.182372	.126331

RUN NO. 80A 16M 11- 1-62 2215-2315 EST
RUN NO. 80A 40M 11-01-62 2215-2315 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	.146095	.226155	.020645	.015095
1	.164685	.161243	.032859	.301009
2	.185919	.216787	.046486	.322296
3	.139127	.233274	.089929	.227919
4	.068090	.137263	.097186	.093797
5	.104691	.176756	.084066	.124126
6	.084689	.119948	.173944	.204079
7-8	.130314	.082601	.182300	.152719
9-11	.134918	.103366	.193887	.115726
12-15	.062891	.101802	.134286	.129736
16-20	.103023	.113982	.085061	.089162
21-27	.134290	.103760	.072697	.129772
28-36	.085850	.122831	.090319	.144822
37-47	.144321	.109534	.094767	.128659
48-60	.124759	.122862	.078798	.101033

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	.725811	.796477	.863481	.543237
1	.527823	.660354	.335647	.285897
2	.183347	.603435	.285839	.300223
3	.061560	.513958	.234463	.244713
4	.174866	.343637	.208059	.215760
5	.324331	.172023	.237854	.222357
6	.387911	.243189	.026064	.284349
7	.239427	.163067	.361474	.440302
8	.068935	.121975	.347641	.443872
9-11	.272355	.218573	.246987	.304568
12-14	.407090	.415949	.281870	.454224
15-21	.266870	.364527	.224517	.168245
22-30	.346908	.343250	.320997	.273825

RUN NO. 81A 16M 11- 1-62 2332-0046 EST

GROSS STATISTICS

CLEAR	WIND SPEED 3.38 M/SEC	WIND DIRECTION 272 DEG
STABLE	SIGMA A 15.6 DEG	SOLAR RADIATION 0
LAND	SIGMA E 1.4 DEG	NET RADIATION -0.15

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.59948E 00	0.51176E-01	0.42944E-01	0.24432E-01
V	0.79922E 00	0.21032E-01	0.19849E-01	0.72384E-02
W	0.78813E-02	0.72425E-02	0.73013E-02	0.16551E-02
T	0.38779E-01	0.82678E-02	0.72755E-02	0.33030E-02
E	0.70329E 00	0.39729E-01	0.35047E-01	
GUSTINESS RATIOS				
U	0.22907	0.06693	0.06131	0.04625
V	0.26449	0.04291	0.04168	0.02517
W	0.02627	0.02518	0.02528	0.01204
COVARIANCES				
U,V	0.55727E 00	0.37289E-02	0.40032E-02	0.19771E-02
U,W	-0.68008E-02	-0.61259E-02	-0.64100E-02	-0.13905E-02
U,T	0.35033E-01	0.11642E-01	0.10032E-01	0.55221E-02
V,W	-0.42784E-02	-0.41159E-03	-0.72712E-03	-0.10761E-03
V,T	-0.11787E-01	0.15356E-02	0.17704E-02	0.46632E-03
W,T	-0.33454E-02	-0.26069E-02	-0.26772E-02	-0.41415E-03
WE	0.12795E-02	0.25766E-03	0.54158E-04	
NORMALIZED COVARIANCES				
U,V	0.80510	0.11366	0.13711	0.14867
U,W	-0.09894	-0.31819	-0.36200	-0.21867
U,T	0.22977	0.56599	0.56754	0.61471
V,W	-0.05391	-0.03335	-0.06040	-0.03109
V,T	-0.06695	0.11645	0.14733	0.09537
W,T	-0.19136	-0.33689	-0.36732	-0.17713

RUN NO. 81A 16M 11- 1-62 2332-0046 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.29202 10E-01	0.17710 10E-01	0.17677 10E-01	0.12040 10E-01	0.12018 10E-01	0.72883 10E-02
0	.137359	-.361808	.567874	-.060521	.147406	-.367170
1	.120407	-.252194	.473015	-.055714	.117686	-.247231
2	.085202	-.109565	.316357	-.035388	.061331	-.090646
3	.057284	-.026546	.184642	-.015157	.017183	-.000652
4	.035459	.022884	.093989	.001075	-.003029	.044545
5	.011364	.051809	.037099	.025470	-.013365	.054184
6	-.011879	.053508	-.000667	.038648	-.015975	.054560
7	-.027656	.057766	-.024939	.027029	-.013758	.061253
8	-.037817	.063360	-.053878	.013096	-.020085	.049872
9	-.061191	.058900	-.080486	.012519	-.038737	.034332
10	-.078614	.046645	-.089443	.014866	-.049338	.020589
11	-.073478	.041794	-.086938	.014982	-.041606	.015333
12	-.067776	.042553	-.080878	.023174	-.034390	.018557
13	-.060245	.033240	-.072496	.022162	-.035286	.022385
14	-.030666	.035735	-.057873	.008602	-.029561	.022200
15	.001537	.028928	-.049374	-.004189	-.011020	.009834
16	.019375	.006171	-.044543	-.021642	-.000044	-.013638
17	.019299	-.004840	-.047914	-.000265	.005694	-.011853
18	.017087	-.001368	-.046047	.011747	-.003458	.004469
19	.023341	-.014520	-.035181	-.008879	-.003680	.016724
20	.024375	-.026448	-.027551	-.009847	.002274	.015250
21	.015401	-.022344	-.032270	.005335	-.001949	.011765
22	.002585	-.002794	-.049098	.005821	-.002553	.016691
23	-.026674	.007466	-.065096	.001298	-.010185	.032424
24	-.046559	.021307	-.074764	.010019	-.020764	.037382
25	-.047128	.032928	-.077657	.009566	-.038427	.028470
26	-.032208	.044913	-.082564	.016989	-.046174	.028816
27	-.024953	.039153	-.080322	.018113	-.045565	.037978
28	-.020304	.029046	-.070571	.010493	-.036949	.022290
29	-.011788	.007292	-.060650	.016266	-.029719	-.003376
30	-.015467	-.004280	-.059729	.006039	-.007670	-.006878
31	-.010671	-.005643	-.055893	-.016144	.015939	-.007830
32	-.003210	-.004473	-.048959	-.033278	.023093	.004760
33	.002515	.004269	-.039201	-.033871	.027086	.033232
34	.018902	.000302	-.030927	-.015455	.027299	.039852
35	.032866	-.005480	-.019381	-.013398	.022625	.020214
36	.034445	-.025382	.007579	-.023031	.019916	-.013809
37	.037384	-.033746	.030862	-.033136	.016663	-.045655
38	.034168	-.027840	.041498	-.024671	.016778	-.064015
39	.034436	-.021602	.033495	-.019721	.031044	-.053316
40	.028054	.002946	.010465	-.020911	.039470	-.027669
41	.015033	.015354	-.006472	-.003887	.034566	-.009898
42	.011852	.018358	-.015805	.016634	.024406	.003258
43	.017419	.021404	-.024105	.021435	.013581	.010647
44	.016886	.036166	-.035632	.028884	.006126	.015858
45	.002960	.038367	-.047762	.033272	-.010987	.021826
46	-.013850	.044323	-.052212	.039986	-.010634	.036800
47	-.017729	.048074	-.041330	.025193	.002223	.027156
48	-.004759	.031477	-.023803	-.015219	.013150	-.006671
49	.009836	-.021135	-.001496	-.025273	.013800	-.051098
50	.010507	-.050478	.016749	-.021873	.011484	-.065850
51	.017377	-.050598	.030116	-.026643	.020986	-.042674
52	.021039	-.032887	.027068	-.020690	.036838	-.010802
53	.019799	-.020483	.024993	-.006487	.037704	.009629
54	.018051	-.032447	.041805	.007944	.028582	-.004979
55	.032160	-.031964	.047473	.001813	.022397	-.006710
56	.022114	-.016580	.036181	-.004843	.013625	.005674
57	.003061	-.001774	.023972	.001595	.015052	.014046
58	.000426	.014322	.014270	-.003604	.020143	.009845
59	.005189	.017550	.012963	-.004900	.026957	.004532
60	.001814	.010842	.025636	.001263	.022252	.004996

RUN NO. 81A 16M 11- 1-62 2332-0046 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.29202 10E-01	0.17710 10E-01	0.17677 10E-01	0.12040 10E-01	0.12018 10E-01	0.72883 10E-02
1	.013665	-.045538	.067242	-.003083	.008521	-.004068
2	.011234	-.038815	.086290	-.022019	.013979	-.030380
3	.004823	-.036090	.090384	-.027804	.016936	-.039129
4	-.002567	-.042066	.088976	-.034623	.025613	-.035136
5	-.003170	-.050180	.090353	-.035019	.031669	-.021460
6	.004915	-.061395	.082037	-.013278	.020281	.000465
7	.011158	-.065551	.075870	-.015382	.008995	.013126
8	.028023	-.068302	.075135	.001870	.001008	.015009
9	.046948	-.058492	.068215	.017488	-.014607	.020949
10	.038344	-.046927	.058075	-.009547	-.009196	.010354
11	.027287	-.039292	.043658	-.028541	.003820	-.012907
12	.019849	-.013108	.033903	-.012681	.017103	-.030649
13	.017387	-.000178	.023740	.013044	.022657	-.029126
14	.020414	.009038	.010127	.006167	.020649	.000534
15	.016467	.014855	-.002615	-.011862	.015237	.023317
16	.013340	.003277	.003707	-.017377	.022684	.021976
17	.008322	.009389	.009761	-.013524	.016726	.008601
18	.010915	.015736	-.000636	-.003286	.001779	-.001941
19	.009795	.018169	-.001758	.018531	-.006364	-.004459
20	.014246	.002466	.011403	.026043	-.012028	-.001759
21	.001409	-.010952	.021613	.020743	-.006874	.001884
22	-.009207	-.020168	.036953	.015017	-.007174	.004428
23	-.013868	-.016722	.040198	.010105	-.013272	-.012031
24	-.010957	.003146	.025299	-.002082	-.014562	-.016126
25	-.020221	.010471	.003149	.002219	-.009002	-.006463
26	-.028564	.013151	-.010132	.007362	.003662	.001915
27	-.028875	.015899	-.030353	.003648	.024271	.014749
28	-.030145	.020268	-.040760	-.009557	.031346	.008982
29	-.034898	.023925	-.037610	-.020704	.022929	.000397
30	-.023785	.027914	-.028739	-.001135	.006892	-.013985
31	-.009524	.031465	-.025620	.028577	-.012093	-.037653
32	-.005064	.022629	-.019705	.031849	-.012609	-.048836
33	.005827	.023293	-.010772	.025244	-.006806	-.048453
34	.020739	.018312	.002093	.031000	-.012449	-.054695
35	.027715	.009993	.003809	.043437	-.009556	-.038396
36	.021597	-.002824	-.001301	.015525	-.011429	-.008325
37	.007811	-.002006	-.017441	-.018887	-.018547	.010928
38	-.007055	-.004335	-.029889	-.029066	-.015613	.021756
39	-.007294	-.019647	-.026281	-.025474	-.015820	.022540
40	-.003036	-.023403	-.025979	-.026492	-.011996	.032490
41	.002858	-.022311	-.026844	-.019755	-.017727	.048342
42	.003638	-.018321	-.020131	-.005476	-.032454	.029361
43	.012253	-.007655	-.022893	.012549	-.043828	.004255
44	.015461	.000207	-.027056	.013042	-.032837	.013094
45	.007747	-.006555	-.023044	-.011124	-.021904	.008828
46	-.002263	.006245	-.024290	-.027668	-.014646	-.006853
47	.004933	.017294	-.025461	-.017505	-.012357	-.014592
48	.014273	.004303	-.022768	.015269	-.000302	-.001115
49	.008910	.007038	-.018804	.011279	.014665	.006594
50	-.003592	.026133	-.014426	-.013264	.031463	-.001792
51	-.020823	.041857	-.007783	-.014663	.048310	-.015764
52	-.017502	.030421	.001261	.014645	.041100	-.020789
53	-.007695	.028828	-.001124	.024948	.017348	-.025148
54	-.007742	.027592	-.008476	.018430	.000081	-.023068
55	-.011956	.003573	-.010508	.013560	-.006393	-.009779
56	-.021459	-.016027	-.010751	.001047	-.003160	.014781
57	-.019720	-.005041	-.018190	-.002341	.000189	.039831
58	-.006435	.007760	-.009667	.001910	.017402	.032373
59	.000740	.002941	.013416	-.004852	.034270	.031115
60	.007041	-.006715	.035679	-.002860	.026947	.027543

RUN NO. 81A 16M 11- 1-62 2332-0046 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.42953 10E-01	0.19853 10E-01	0.73021 10E-02	0.72746 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.734036	.625080	.505736	.746636
2	.445284	.269941	.134394	.424541
3	.262202	.094174	-.001900	.212792
4	.139877	.015901	-.043341	.089676
5	.050197	-.005201	-.070113	.020799
6	-.012386	-.016087	-.053699	-.019649
7	-.055574	-.035220	-.042119	-.043358
8	-.097855	-.043456	-.024097	-.052598
9	-.140166	-.067268	-.036360	-.071670
10	-.166994	-.098726	-.029278	-.094956
11	-.179692	-.104168	-.017579	-.098655
12	-.171233	-.113584	-.019067	-.091366
13	-.150347	-.103619	-.036413	-.085544
14	-.123511	-.096329	-.055038	-.080569
15	-.099248	-.081135	-.049662	-.070127
16	-.081954	-.063706	-.045612	-.055762
17	-.081332	-.078395	-.050125	-.065119
18	-.067176	-.093468	-.079556	-.075733
19	-.037199	-.099020	-.054826	-.075474
20	-.022362	-.094992	-.021669	-.085359
21	-.026468	-.077104	-.022402	-.103846
22	-.052945	-.051976	-.048463	-.119299
23	-.085705	-.043661	-.072360	-.124492
24	-.115239	-.081042	-.107838	-.118260
25	-.118340	-.110726	-.110608	-.113292
26	-.105900	-.127500	-.095108	-.118667
27	-.102526	-.124598	-.081805	-.122141
28	-.106132	-.101818	-.057957	-.102797
29	-.107945	-.062594	-.041321	-.072328
30	-.090228	-.048140	-.024622	-.053017
31	-.063611	-.011509	.003530	-.038951
32	-.038547	.022260	.024099	-.035526
33	-.004424	.033214	.008352	-.051510
34	.029171	.042299	-.004725	-.059447
35	.050790	.046013	-.002775	-.053692
36	.062772	.025383	.000147	-.038556
37	.069942	.002001	.004227	-.015996
38	.071645	.004054	.000069	.006659
39	.056860	.017237	.020973	.010233
40	.022903	.042023	.015329	.004394
41	-.004416	.072009	.006006	-.001986
42	-.014571	.079927	.005638	-.012653
43	-.022398	.084292	.013419	-.020861
44	-.045734	.061053	-.001298	-.022049
45	-.083705	.037346	-.034667	-.017674
46	-.112027	.039652	-.051690	-.017667
47	-.110147	.051589	-.034295	-.005249
48	-.089455	.047005	-.001280	.024820
49	-.051380	.021425	.073484	.048810
50	-.009135	.002474	.098344	.062578
51	.033202	.013212	.052634	.059557
52	.048484	.011600	.020143	.040771
53	.054292	-.009478	-.006599	.029760
54	.069344	-.017427	.001104	.040943
55	.069014	-.021373	.023660	.035425
56	.060731	-.031761	.013100	.015280
57	.060528	-.046091	-.020409	-.001823
58	.055292	-.032372	-.038457	.003522
59	.054976	-.005538	-.026446	.024908
60	.051262	.009101	-.034830	.045386

RUN NO. 81A 16M 11- 1-62 2332-0046 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-02	10E-03	10E-03	10E-03
0	-.000397	-.005628	.006041	.003791	-.009662	-.002175
1	.019907	-.124249	.072444	.025783	-.023489	-.045864
2	.216894	-.196893	.093601	-.001439	.079607	-.092759
3	.434307	-.296846	.103705	-.056512	.167318	-.128467
4	.403760	-.363614	.087322	-.065863	.127891	-.108435
5	.477067	-.400406	.080327	-.038409	.116569	-.112696
6	.748170	-.530419	.091459	-.097421	.201532	-.166765
7-8	.504061	-.452018	.067702	-.101995	.156136	-.174837
9-11	-.021856	-.295831	.038166	-.048121	.052366	-.135952
12-15	.079273	-.246850	.025364	-.046421	.068075	-.119574
16-20	.052627	-.163819	.018682	.007315	.051810	-.069642
21-27	.024674	-.095852	.007248	.000684	.015309	-.051321
28-36	.024198	-.064149	.004214	-.007629	.013799	-.024014
37-47	.002111	-.033761	.001603	.003850	-.000747	-.017726
48-60	-.001428	-.013578	.001029	.001465	.001488	-.005649

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-04	10E-04
1	.094068	-.065965	.197216	.143313	.198780	-.317101
2	.167727	-.159742	.350717	-.211922	.630545	-.080229
3	.291264	-.271787	.388135	-.701329	.480713	.111290
4	.218180	-.265639	.309944	-.626572	.233510	-.171918
5	-.029021	-.186185	.279619	-.347037	.483813	-.430888
6	-.122957	-.213436	.281818	-.494797	.085312	-.031622
7-8	-.005328	-.103449	.224098	-.154424	.043891	-.240891
9-11	-.081250	.042839	.039901	-.604364	.673855	-.251697
12-15	.048664	-.015462	.071324	-.045407	-.066844	-.357261
16-20	.063467	-.040239	.044422	.226294	-.191349	.177339
21-27	.001069	-.032416	.026269	-.120308	.057353	.035686
28-36	.012071	-.022740	.022275	.080184	.058491	.028547
37-47	.007795	-.017717	.008659	.119873	-.031791	.054001
48-60	-.001612	-.002086	.004520	-.012579	.000123	.009751

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.018600	.003965	.013407	.035738
1	.222751	.058223	.204632	.445424
2	.308947	.112530	.311471	.594675
3	.396260	.155643	.370562	.642706
4	.364763	.122564	.288073	.515367
5	.322873	.102263	.227945	.452796
6	.375412	.111080	.274016	.470616
7-8	.262778	.096174	.308491	.442242
9-11	.140383	.071866	.281390	.285315
12-15	.108757	.063619	.253759	.231753
16-20	.083750	.051979	.207701	.154513
21-27	.049348	.036143	.153796	.086262
28-36	.035384	.022475	.127153	.053718
37-47	.021814	.016824	.084591	.031733
48-60	.014084	.009721	.059275	.017198

RUN NO. 81A 16M 11- 1-62 2332-0046 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
	0.13304 10E-01	0.63595 10E-02	0.89822 10E-02	0.34631 10E-02	0.48913 10E-02	0.23381 10E-02
0	.148609	-.218652	.614779	-.031074	.095336	-.177131
1	-.038330	.035968	.211241	.121583	-.043628	-.013709
2	.038476	-.018901	.092640	.042863	.020106	-.019674
3	.009058	-.008425	-.030270	-.019326	.011259	.002582
4	.029192	.066158	-.072863	.027423	.075914	.043396
5	.038923	-.027803	-.058193	-.040109	.056202	.006734
6	-.055635	-.009934	-.010258	.033852	.026928	.007989
7	-.003914	.011142	-.014515	-.096160	.003039	.051143
8	-.031952	.074386	-.102437	.030184	-.032796	.073117
9	-.000765	.009200	-.026897	.040434	.031100	.003643
10	-.027603	.023051	-.061480	-.002252	-.031639	.027004
11	.006859	.037102	-.032921	.006156	-.004086	.074057
12	.061577	.018410	-.062854	-.053617	.032590	.014373
13	-.011932	.008779	-.096575	.037332	.000490	.042435
14	.027114	-.007633	-.033564	-.032348	.021993	.015902
15	.040940	-.003891	.005556	-.028123	.000394	-.048610
16	-.033068	-.079928	.044636	.014975	-.002847	-.110119
17	.002106	-.079571	.032843	-.031717	-.049215	-.083707
18	.031969	-.023568	.088852	.006189	.048641	-.052879
19	.040284	-.064680	.062325	-.043318	.032197	-.037328
20	.043166	.051420	.083053	.006684	.017975	.023560
21	-.028335	.052085	.067979	-.042292	-.011643	-.057193
22	.014973	.022115	.092482	.002188	-.026671	-.002016
23	-.017900	.000083	.015365	-.002936	-.031289	-.002123
24	-.009721	-.035435	-.016312	-.060429	-.011730	-.050761
25	.013488	-.017574	-.001451	-.065308	.027322	-.043707
26	.011997	.069179	-.063470	-.005977	.037978	.055929
27	.016088	.095224	-.057435	-.010010	.022598	.104300
28	-.000545	.094498	-.073415	-.048980	-.007548	.136241
29	.039484	.089796	-.035153	-.044881	.009996	.078740
30	.059979	.000141	-.100679	.073582	.043113	.027536

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-04	10E-04
0	.059432	-.000792	.080960	.052413	.316128	.013087
1	.104403	.005510	.270817	.498379	.836288	.187364
2	.037568	-.015798	.336660	.368070	.306092	-.068156
3	.113513	-.095163	.538254	.267843	.171607	-.550487
4	.142546	-.100503	.405109	.298795	.011475	-.479295
5	.086813	-.008564	.283989	.338985	-.251599	-.080572
6	.021528	.004794	.364219	.375029	-.384852	-.053833
7	-.064583	-.063104	.379412	.279995	-.500622	-.308388
8	-.080825	-.049478	.327886	.112193	-.439390	-.243219
9-11	.018970	-.062912	.275749	-.083512	.098522	-.132039
12-14	.077934	-.033708	.137572	.157245	.405893	-.157947
15-21	.072931	-.048832	.147506	-.293993	.233639	-.128955
22-30	.213806	-.124629	.186572	-.462188	.518811	-.243607

RUN NO. 81A 16M 11- 1-62 2332-0046 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
	0.13304 10E-01	0.63595 10E-02	0.89822 10E-02	0.34631 10E-02	0.48913 10E-02	0.23381 10E-02
1	.094889	-.025411	.068700	.002147	-.009986	-.053109
2	.020907	.048257	.021474	.045883	-.008843	-.082700
3	.059680	.073228	-.001017	.044582	-.056562	-.088957
4	.029288	.033509	-.035379	-.068850	-.053815	-.045956
5	.066298	.091562	-.014631	.032044	-.034950	-.063871
6	.054555	.060915	.028716	.011846	-.025026	-.006062
7	.087706	.006821	.043686	-.004289	-.041023	-.000936
8	.092368	.005352	-.000199	-.073927	-.090222	.018898
9	.070347	.016171	-.023766	-.024658	-.080434	.020558
10	.036062	.056835	-.030744	.058706	-.022956	.017371
11	.007138	.016379	-.036261	-.008141	.019369	.027462
12	.063247	-.027383	-.004899	-.033829	-.029077	.033929
13	.002702	-.039559	-.021594	-.036297	-.009511	.048315
14	-.017961	-.012041	-.032002	-.009944	.013810	-.037267
15	.028044	.030907	-.031823	-.070770	-.043794	-.012332
16	.013004	.057507	-.022596	-.034186	.042116	-.012657
17	-.036925	-.006413	-.062160	.027958	.021565	.030902
18	-.043826	.014521	-.021044	-.034789	.053260	-.005614
19	.009078	.000884	.006146	.036665	-.001123	-.015919
20	.039358	-.005118	-.030702	.095678	-.049541	-.028566
21	.011858	.047177	.012796	.038861	-.026699	-.052746
22	.001144	-.005330	.017735	.004476	-.013806	-.004329
23	.049467	-.019033	.012093	.016661	-.084437	.021062
24	-.024831	-.005777	-.007320	-.004436	-.006366	.006572
25	.014482	.038861	.029794	.050390	-.021664	-.058034
26	.007867	.006403	.062048	-.023430	-.014618	-.060943
27	.025692	-.011412	.029493	.024642	.016795	-.015548
28	.022157	-.003919	.045728	-.033363	-.001029	-.012204
29	.038150	.007131	.042101	-.031303	-.060979	-.020936
30	.022051	-.051775	.022011	-.009576	-.005817	.008302

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-03	10E-04
1	.471553	.128378	-.113130	-.275131	-.119555	-.102892
2	.385355	.101198	-.005390	-.177282	-.098098	-.136699
3	.301568	.107932	.079509	.195751	-.089695	-.400214
4	.099147	.099412	.036269	.230599	-.022772	-.553798
5	-.016399	.052532	-.003838	-.028888	.017192	-.471783
6	.005302	.006664	-.002239	.183401	-.001354	-.313894
7	.016632	.006258	-.009526	.387733	.003464	-.187138
8	.045123	.018172	.001503	.118630	-.007577	-.119232
9-11	.112693	-.054381	.108149	-.012397	-.010325	-.059619
12-14	.039495	.022325	.068488	.359868	.039485	-.080740
15-21	.086917	-.048477	.025019	-.314538	-.008801	.034316
22-30	.099653	.003357	.023915	.170103	-.010335	-.053587

RUN NO. 81A 16M 11- 1-62 2332-0046 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.24431 10E-01	0.72448 10E-02	0.16554 10E-02	0.33023 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.346719	.206131	.104811	.324179
2	.274227	.128951	.008303	.118795
3	.176368	.144616	-.044384	-.048342
4	.089166	.199625	-.142771	-.146107
5	.050528	.174630	-.021982	-.054375
6	.043038	-.003276	.008642	-.020234
7	.028695	.081769	-.029581	-.072771
8	-.131059	.042185	-.033299	-.123281
9	-.054360	.053107	-.077823	-.052004
10	-.172674	.148669	-.054962	-.068241
11	-.078248	.037908	-.067284	-.001574
12	-.130383	-.016968	-.107057	-.087915
13	-.165273	-.058872	-.107798	-.150683
14	-.154906	.053080	-.009488	-.050869
15	-.113813	.064360	-.126942	-.022810
16	-.040984	-.093883	.052880	.034808
17	-.031607	.060140	-.000477	.002764
18	.044271	.000381	.064592	.053162
19	.053293	-.064817	.080924	.028886
20	.116186	-.027121	-.048498	.056120
21	.005560	-.086559	-.067302	.036785
22	.071032	-.029594	.007307	.034423
23	.028150	-.129279	-.106073	-.060040
24	-.047396	-.062006	.119962	-.053908
25	-.012301	-.060342	.090968	-.000398
26	-.061614	-.079969	.017583	-.104045
27	-.076038	-.051879	-.047537	-.065872
28	-.111087	-.134452	-.062002	-.063882
29	-.024953	-.165660	-.048087	-.046113
30	-.163802	-.130905	-.018561	-.020074

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-04	10E-03
0	.069661	.036870	.033159	.031700
1	.314486	.117860	.499540	.176662
2	.282113	.051615	.760274	.202183
3	.275096	.032294	.931355	.268878
4	.148959	.028399	.722975	.231823
5	.082786	.023346	.535903	.190413
6	.103734	.022859	.720393	.219921
7	.093514	.022650	.977903	.218009
8	.073651	.015595	.831982	.179961
9-11	.084003	.016885	.804329	.168290
12-14	.046157	.034405	.566463	.097037
15-21	.074155	.026056	.606415	.086204
22-30	.091172	.034220	.910626	.119104

RUN NO. 81A 40M 11-01-62 2332-0046 EST

GROSS STATISTICS

CLEAR
STABLE
LAND

WIND SPEED 4.88 M/SEC
SIGMA A 9.2 DEG
SIGMA E 0.7 DEG

WIND DIRECTION 289 DEG
SOLAR RADIATION 0
NET RADIATION -0.15

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.42123E-00	0.14120E-01	0.10023E-01	0.79802E-02
V	0.56180E 00	0.13425E-01	0.88272E-02	0.72454E-02
W	0.41488E-02	0.33672E-02	0.33645E-02	0.10128E-02
T	0.14997E-01	0.15011E-02	0.88437E-03	0.10414E-02
E	0.49359E-00	0.15469E-01	0.11107E-01	
GUSTINESS RATIOS				
U	0.13300	0.02435	0.02052	0.01831
V	0.15359	0.02374	0.01925	0.01744
W	0.01320	0.01189	0.01189	0.00652
COVARIANCES				
U,V	0.45559E-00	0.37523E-02	0.17992E-02	0.28174E-02
U,W	0.75949E-02	-0.11563E-02	-0.15765E-02	-0.28634E-03
U,T	-0.30806E-01	0.21702E-02	0.11589E-02	0.16120E-02
V,W	0.77709E-02	-0.12586E-02	-0.12011E-02	-0.40043E-03
V,T	-0.31428E-01	0.18883E-02	0.10629E-02	0.12306E-02
W,T	-0.23877E-02	-0.39140E-03	-0.46708E-03	-0.10521E-03
WE	0.31393E-02	-0.22051E-04	-0.21424E-04	
NORMALIZED COVARIANCES				
U,V	0.93654	0.27254	0.19128	0.37052
U,W	0.18168	-0.16769	-0.27148	-0.10072
U,T	-0.38759	0.47139	0.38927	0.55919
V,W	0.16096	-0.18720	-0.22039	-0.14782
V,T	-0.34239	0.42063	0.38041	0.44799
W,T	-0.30270	-0.17409	-0.27078	-0.10244

RUN NO. 81A 40M 11-01-62 2332-0046 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.94070 10E-02	0.58090 10E-02	0.29770 10E-02	0.54509 10E-02	0.27935 10E-02	0.17250 10E-02
0	.191386	-.271271	.389348	-.220667	.380595	-.271127
1	.153669	-.186242	.314473	-.110278	.266293	-.172599
2	.086136	-.104081	.207293	-.027337	.144247	-.088338
3	.049496	-.061534	.139216	-.000694	.086627	-.053014
4	.034984	-.040212	.095350	.002949	.062399	-.032195
5	.020561	-.018183	.057673	.002206	.044522	-.018326
6	.009196	.003433	.016756	-.001405	.033446	.006526
7	.005622	.017352	-.014704	.000586	.033590	.024060
8	-.001980	.033429	-.028173	.004256	.018822	.031188
9	-.007831	.039782	-.029433	-.001031	.004018	.032642
10	-.006706	.040743	-.026948	.000439	.003155	.021542
11	.000772	.038435	-.020174	.008182	-.001572	.030274
12	.007279	.022526	-.013991	.012719	-.015063	.027053
13	-.000596	.012961	-.018576	.005833	-.012974	.015311
14	-.011402	.037448	-.022432	.007395	-.007469	.019550
15	-.022860	.047789	-.024627	.006169	-.010300	.014287
16	-.022306	.037287	-.022157	.004963	-.010084	.013658
17	-.014171	.023760	-.023400	.008649	-.011174	.011795
18	-.005118	.032956	-.029413	.006065	-.015448	.007340
19	.002686	.024025	-.028664	-.005402	-.023075	.013313
20	-.007134	.000720	-.026904	-.011224	-.025043	.007688
21	-.019232	-.003607	-.029094	-.008476	-.024321	.007897
22	-.035120	.013025	-.036634	-.000314	-.035312	.013558
23	-.039882	.024604	-.040650	.008505	-.040327	.019737
24	-.047900	.037901	-.062605	.017059	-.047143	.045104
25	-.051903	.059922	-.074466	.026725	-.055972	.056227
26	-.039679	.062438	-.073587	.028143	-.053415	.049958
27	-.033588	.054688	-.074552	.020767	-.043328	.043118
28	-.038566	.052487	-.071431	.030699	-.032996	.047491
29	-.032499	.043233	-.060858	.031888	-.030504	.047109
30	-.017863	.040016	-.045622	.020557	-.032122	.049379
31	-.005764	.032669	-.019399	.019452	-.031531	.033231
32	.002528	.025203	.010198	.005820	-.023822	.008708
33	.009164	.001892	.024100	.003305	-.018810	.000093
34	.011388	-.016178	.029169	-.000445	-.013598	-.006479
35	.016929	-.016072	.018284	.001015	-.004235	-.002916
36	.017079	-.018632	.012035	-.011165	-.010487	-.017010
37	.007122	-.032054	.008447	-.004916	-.021330	-.028524
38	-.001781	-.035446	.003554	.011145	-.024252	-.030549
39	-.001438	-.052372	-.003749	.001077	-.029427	-.035699
40	-.003189	-.056122	-.020797	.005647	-.043970	-.021857
41	-.010628	-.038894	-.032408	.024880	-.055228	-.007290
42	-.013388	-.027271	-.035973	.025271	-.051353	-.008217
43	-.008229	-.029292	-.040692	.024156	-.050581	-.000753
44	-.009914	-.038074	-.035978	.019150	-.053688	.004732
45	-.020887	-.034949	-.042071	.022625	-.055402	.010465
46	-.029606	-.022004	-.044142	.025566	-.047017	.006849
47	-.016193	.008257	-.034176	.027445	-.034589	.007494
48	-.003152	.018295	-.013427	.022083	-.030588	.009999
49	.001014	.002753	.009124	.022180	-.029984	.000440
50	.000850	.007944	.009960	.027173	-.032973	.001649
51	-.007335	.024734	.002866	.046785	-.034192	.012244
52	.005228	.017266	.008802	.024244	-.026570	.013266
53	.041102	-.012031	.020827	-.013942	-.004672	.003625
54	.067271	-.022201	.032639	-.033825	.017842	.000757
55	.062018	-.021556	.027207	-.029378	.022056	.002144
56	.032040	-.008219	.007073	-.035088	.030443	-.008636
57	-.000769	.017337	-.016864	-.032744	.025009	-.004738
58	-.028784	.033952	-.032683	-.027712	.018194	-.002404
59	-.047116	.025335	-.039687	-.023559	.011829	-.009730
60	-.044370	.011994	-.038716	-.025443	.008866	-.018081

RUN NO. 81A 40M 11-01-62 2332-0046 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.94070 10E-02	0.58090 10E-02	0.29770 10E-02	0.54509 10E-02	0.27935 10E-02	0.17250 10E-02
1	.051478	-.021445	.035321	.012347	-.020991	-.005101
2	.043987	-.005308	.038055	-.019615	-.007005	-.003411
3	.024885	-.001187	.027776	-.044034	-.002824	.010189
4	.009885	.014226	.016467	-.056376	-.009836	.018910
5	.012967	.008185	.027181	-.035058	-.028372	.016604
6	.023968	-.015526	.041627	-.019531	-.035028	.014991
7	.040726	-.027187	.048418	-.021432	-.033244	.015206
8	.037168	-.027507	.046693	-.022319	-.022119	.013483
9	.034921	-.046357	.040441	-.018594	-.012891	.029689
10	.040584	-.062370	.036577	-.016037	-.012962	.036610
11	.044012	-.054122	.028446	-.023576	-.015173	.043482
12	.034932	-.040398	.023046	-.025252	-.015933	.040837
13	.018249	-.028272	.010526	-.012790	-.020372	.030588
14	.012540	-.010953	.003938	-.004758	-.027477	.018841
15	.017963	-.000530	.006631	-.002669	-.032598	.020399
16	.020013	-.001079	.003046	-.009760	-.030456	.015284
17	.013080	.007940	.003812	-.012374	-.020226	.006457
18	.004881	-.001930	.007037	-.014595	-.014016	-.005506
19	-.002649	-.003696	.004963	.000872	-.007792	-.009477
20	-.014589	.001444	.000370	.009561	-.005427	-.013304
21	-.024887	.002372	-.005579	.004817	-.003713	-.014497
22	-.034499	.001024	-.009236	.003887	-.002137	-.021147
23	-.032634	-.002650	-.003949	.013644	-.000070	-.027134
24	-.029075	.013586	-.016206	.014862	.006247	-.030509
25	-.044989	.022551	-.023273	.001043	.007888	-.020037
26	-.059079	.008258	-.025149	-.017390	.012386	-.011485
27	-.060994	-.003625	-.021160	-.020465	.014533	-.009349
28	-.048714	-.016682	-.013798	-.017672	.013818	.003526
29	-.030702	-.018978	-.010272	-.017093	.016671	.006110
30	-.027802	-.013722	-.009577	-.009494	.018877	.001145
31	-.028007	-.017231	-.008261	-.000028	.015269	.002259
32	-.020094	-.029760	-.006127	.004512	.007451	.007665
33	-.021786	-.019174	-.007641	-.009512	.013092	.002749
34	-.012119	-.018934	-.005705	-.010798	.020041	.000526
35	-.008566	-.013249	-.004054	.002097	.017735	-.001048
36	-.004038	.006853	-.004686	.008854	.015723	.002372
37	.007186	.010840	-.007910	.014583	.010937	.006772
38	.017424	.016201	-.006812	.019753	.010449	.002435
39	.026629	.016952	-.007620	.018763	.010254	.000777
40	.029390	.000041	-.007815	.024880	.004342	.000099
41	.020057	.006165	-.013958	.025809	.005383	.001098
42	-.001340	-.002275	-.014924	.008996	.016637	.005636
43	-.015392	-.011855	-.007877	-.021765	.024935	.003926
44	-.018424	-.014481	-.002549	-.026645	.022485	.007423
45	.002507	-.005498	.001004	-.007483	.015619	-.010144
46	.012579	.013223	.003867	.001677	.009533	-.008158
47	.006702	.022646	.003836	-.005867	.008126	.004470
48	-.000807	.015484	.009205	-.017997	.018181	.012423
49	.005975	.001261	.022903	-.031231	.026186	.006562
50	.014329	.011835	.018238	-.032966	.009144	.008206
51	.028461	.016103	.017407	-.029181	-.008928	.010597
52	.027899	.012815	.023441	-.002523	-.015764	-.000198
53	.019959	.013100	.019848	.017172	-.016353	-.007596
54	.012179	.011958	.010270	.025693	-.016550	-.014268
55	.003244	.016989	-.007868	.028730	-.016424	-.014679
56	-.009396	.029552	-.017715	.030553	-.015866	-.018645
57	-.006827	.026359	-.012952	.018735	-.017560	-.015659
58	-.002464	.031719	-.017070	.009421	-.013316	-.011598
59	-.000001	.038404	-.020808	.001611	-.015114	-.013153
60	.000246	.029508	-.018692	-.004630	-.022211	-.017197

RUN NO. 81A 40M 11-01-62 2332-0046 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.10025 10E-01	0.88272 10E-02	0.33660 10E-02	0.88406 10E-03
0	1.000000	1.000000	1.000000	1.000000
1	.674826	.633736	.513014	.755535
2	.371987	.256476	.196483	.520356
3	.221120	.075076	.091414	.378612
4	.150654	.019006	.037086	.289272
5	.099363	.008998	.001313	.211736
6	.038269	.032900	-.025850	.137569
7	-.009967	.053396	-.054146	.087367
8	-.038340	.038050	-.045728	.047421
9	-.044389	.014181	-.040834	.012545
10	-.057077	-.010968	-.049856	.003023
11	-.083401	-.034574	-.063423	-.014628
12	-.095568	-.047652	-.072249	-.039590
13	-.107439	-.033305	-.049261	-.054318
14	-.106802	-.022918	-.063988	-.076156
15	-.102016	-.034743	-.093197	-.091757
16	-.093210	-.048506	-.104276	-.104219
17	-.097182	-.059391	-.085588	-.120820
18	-.107108	-.062359	-.085853	-.137283
19	-.110521	-.058874	-.085489	-.151250
20	-.104642	-.054753	-.088674	-.158446
21	-.097654	-.064256	-.073013	-.166138
22	-.105217	-.081345	-.022532	-.170979
23	-.117627	-.089061	-.024881	-.166514
24	-.128416	-.102677	-.056691	-.182623
25	-.130838	-.121163	-.078206	-.196145
26	-.126718	-.115598	-.078526	-.198055
27	-.127692	-.093944	-.076433	-.200894
28	-.114778	-.076962	-.075543	-.193545
29	-.093428	-.057898	-.087825	-.176725
30	-.072011	-.049525	-.080259	-.159168
31	-.032146	-.028850	-.030684	-.115471
32	-.001087	-.024341	.008201	-.072691
33	.023797	-.044579	.027835	-.042962
34	.037201	-.048749	.023057	-.022045
35	.029785	-.036391	.006502	-.022364
36	.027500	-.035558	.030680	-.020573
37	.030533	-.039275	.048216	-.022450
38	.032901	-.028412	.032847	-.023353
39	.041388	-.025828	.052255	-.021931
40	.016199	-.056425	.051528	-.033215
41	-.002402	-.068529	.025510	-.049026
42	.002718	-.044260	.015201	-.054434
43	.011978	-.009998	-.000556	-.055055
44	.010550	.004620	.006460	-.050278
45	.017006	-.008301	.016196	-.047314
46	.024666	-.026382	.028674	-.034693
47	.025488	-.036473	.012405	-.015422
48	.014683	-.029245	-.008328	.006179
49	.006206	-.045077	.013347	.029931
50	-.008828	-.060573	.017793	.034532
51	-.016726	-.072074	-.034557	.033941
52	-.004293	-.059066	-.071417	.035497
53	.028269	-.022315	-.046975	.051198
54	.046601	.027038	-.013446	.067869
55	.030728	.036337	.001115	.060940
56	-.001038	.039635	.026619	.056426
57	-.022443	.043558	.020719	.039845
58	-.051601	.050336	.009203	.032834
59	-.056610	.044472	.013570	.021154
60	-.048572	.012730	.030899	.016097

RUN NO. 81A 40M 11-01-62 2332-0046 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-04	10E-03	10E-04
0	.025680	-.002281	.018637	-.048108	.017869	-.013276
1	.176984	-.055495	.121234	-.653732	.123227	-.225540
2	.192203	-.121810	.122038	-.615169	.105002	-.341646
3	.191858	-.163138	.123833	-.495416	.086154	-.388322
4	.122899	-.103018	.094545	-.403017	.067699	-.249126
5	.067155	-.095348	.067634	-.371020	.048369	-.229974
6	.106136	-.141342	.084706	-.592188	.050752	-.375534
7-8	.115859	-.084840	.079949	-.439148	.050587	-.275818
9-11	.065645	-.059882	.045340	-.381419	.031680	-.162479
12-15	.048319	-.027776	.020839	-.390142	.029607	-.101688
16-20	.041136	-.034295	.015095	-.355223	.023380	-.085071
21-27	.021845	-.022364	.014206	-.297576	.016406	-.093485
28-36	.015110	-.018852	.006795	-.189806	.011925	-.052068
37-47	.001052	-.008542	.003309	-.141979	.005103	-.039972
48-60	.000041	-.007216	.001352	-.099353	.003635	-.023649

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-04	10E-04	10E-04	10E-04	10E-04
1	-.041477	-.527792	.076218	-.382002	-.092274	.063019
2	.053156	-.445359	.240385	-.376458	-.267467	.096425
3	.166354	-.426699	.391311	-.401521	-.286385	.167446
4	.139740	-.485658	.326648	-.360525	-.125316	.168596
5	.021055	-.325710	.214046	-.421044	-.016220	.066681
6	-.025066	.086693	.114823	-.273321	.010735	-.052916
7-8	.015467	.326813	.091623	-.087530	-.048317	-.070433
9-11	.004329	.268283	-.027741	-.179841	-.035363	.004426
12-15	.024204	-.173584	.038097	-.086317	.059727	.016303
16-20	.031153	-.069509	.069300	.107710	-.012225	-.026625
21-27	.033173	-.116502	.069310	.143745	-.051909	-.011773
28-36	.006611	.015012	.008426	.044359	-.025383	-.004795
37-47	.006407	-.070509	.002968	.029869	-.012552	.005653
48-60	.003627	-.028716	.009578	.031972	-.011367	.001611

POWER SPECTRUM

K	U	V	W	T
	10E-03	10E-03	10E-03	10E-03
0	.075560	.077267	.009356	.012387
1	.614886	.619176	.106844	.104906
2	.828527	.633615	.169978	.117912
3	.999264	.593126	.226009	.111409
4	.759654	.442655	.182548	.071224
5	.549876	.345438	.146868	.045754
6	.572722	.356982	.158527	.046673
7-8	.492361	.372254	.127381	.041260
9-11	.327710	.302377	.128276	.027877
12-15	.255565	.313597	.091387	.016828
16-20	.186498	.269814	.076814	.012160
21-27	.170611	.158165	.071002	.010154
28-36	.101563	.104954	.051552	.006854
37-47	.067356	.059435	.043172	.004182
48-60	.047216	.040313	.029178	.003109

RUN NO. 81A 40M 11-01-62 2332-0046 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
	0.76049 10E-02	0.28428 10E-02	0.28858 10E-02	0.27076 10E-02	0.27486 10E-02	0.10275 10E-02
0	.370473	-.100724	.558601	-.147888	.447697	-.102397
1	.257656	.093803	.354602	-.016310	.268546	.059793
2	.209849	.044879	.271899	-.014356	.181110	.047886
3	.150092	.082375	.162006	.043500	.078450	.070800
4	.091937	.019141	.068587	.023597	-.019687	.034661
5	.045680	.050276	.003191	.082324	-.071147	.030069
6	.016088	.038218	-.076760	.000483	-.068636	-.013240
7	.030925	-.055195	-.088276	-.032727	-.069552	-.086556
8	.015625	-.090105	-.113439	-.007629	-.095746	-.089578
9	.034019	-.076888	-.123156	.036601	-.090704	-.044103
10	-.030503	-.027969	-.176169	.046078	-.084659	-.063037
11	-.031134	-.009174	-.165262	.070318	-.035962	-.006576
12	-.025157	-.008343	-.146164	-.022125	.014026	-.007566
13	-.032458	-.027708	-.103790	-.044739	.029674	-.042375
14	.004418	-.001490	-.053035	-.031859	.060113	.006025
15	.005114	-.007506	-.030062	-.062256	.073974	-.012409
16	.037931	-.062174	.036754	-.047148	.084960	.004838
17	.036657	-.001733	.032094	-.049836	.110114	.010910
18	-.047457	.039551	.017564	.021801	.094163	.076610
19	-.033755	.051392	.020306	-.009403	.080923	.052552
20	-.030057	.025807	-.040126	-.037544	.045446	.038620
21	-.007108	.002371	-.005081	-.014726	.014892	.021532
22	-.027161	.023237	-.043564	.044057	-.035024	.045380
23	-.029249	-.002839	.000967	-.002577	-.022924	-.007352
24	-.037211	-.011290	.007147	.035403	-.050538	-.023169
25	-.052467	.001786	.004137	.033722	-.058302	-.021369
26	-.093417	-.000613	-.001249	.070744	-.108313	-.008588
27	-.073919	.013802	.027219	.039446	-.106582	-.014765
28	-.060016	.036845	.033878	.033158	-.085007	.008154
29	-.065997	.030524	.033566	.023598	-.096510	.019978
30	-.027705	.055072	.080714	.003202	-.042270	-.016113

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-04	10E-03	10E-04	10E-03	10E-04
0	.229810	.037733	.034993	-.005116	.047886	-.010777
1	.793536	.293200	.225140	.115672	.126628	-.019658
2	.436708	.487202	.259276	.095495	.089883	.109467
3	.358520	.633480	.302048	-.265220	.186334	.252212
4	.278876	.330639	.221408	-.443745	.203016	.157325
5	.164312	-.007577	.099752	-.174625	.116507	-.003897
6	.119789	-.201530	.058083	-.073825	.075388	-.061267
7	.143477	-.475220	.077110	-.292514	.065215	-.151727
8	.132289	-.494172	.063551	-.581884	.053620	-.197397
9-11	.016384	-.001712	.023044	-.232017	.037393	-.067366
12-14	.028231	-.154512	.024428	.045638	.005967	-.034319
15-21	.037999	-.198810	.019941	-.186970	.021497	-.065662
22-30	.041489	-.435576	.032867	-.203738	.023060	-.119132

RUN NO. 81A 40M 11-01-62 2332-0046 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
	0.76049 10E-02	0.28428 10E-02	0.28858 10E-02	0.27076 10E-02	0.27486 10E-02	0.10275 10E-02
1	.039524	-.028242	.030888	-.082791	-.033012	.028754
2	.008558	.037807	.003417	-.085023	-.018028	-.012290
3	.040692	.008345	.022641	-.094818	-.027594	-.019982
4	.070240	.043149	.008738	-.101139	-.041886	-.028245
5	.104511	.100082	.010530	-.080184	-.063140	-.033718
6	.125402	.122708	.002977	-.011494	-.076864	-.064302
7	.152552	.075055	.025179	-.006172	-.078520	-.070023
8	.160537	.020335	.019159	-.009227	-.075741	-.068325
9	.129468	.055667	.006174	.019131	-.049921	-.086318
10	.112136	-.021212	-.019553	-.025674	-.023977	-.085591
11	.071993	-.024050	-.039097	-.011870	-.003911	-.039534
12	.016115	.007163	-.055983	.027827	.021290	-.038758
13	-.020592	.044382	-.064333	.038047	.020551	-.048328
14	.002214	.030419	-.052977	.087205	-.020982	-.069332
15	-.026671	.039964	-.048137	.099370	-.008398	-.075972
16	-.023138	.043073	.002458	.095934	-.027798	-.083905
17	-.008600	.011502	.034954	.090417	-.005873	-.030241
18	-.037449	.052954	.082027	.030501	.020730	.018082
19	-.045414	-.002803	.089986	.027937	-.007163	.052300
20	-.038687	-.025362	.072575	-.068501	-.005144	.102635
21	-.021768	-.036368	.050106	-.041373	-.021743	.132208
22	-.008000	.007553	.016676	-.036734	-.008632	.141209
23	-.017912	-.030263	-.002128	-.070874	.005433	.151306
24	.019695	-.064671	.020819	-.074105	-.010472	.133958
25	.003458	-.038451	.003991	-.043193	-.002259	.105542
26	.018595	-.008881	-.020626	-.018579	-.021749	.024817
27	.009867	-.042971	-.041826	-.004888	-.029127	-.008133
28	.007351	-.043870	-.060706	-.004832	-.015066	-.031827
29	.050411	-.009646	-.046441	.057590	-.019036	-.048013
30	.079758	.004305	-.038502	.039936	-.008096	-.079716

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-04	10E-04	10E-03	10E-04	10E-04
1	.404353	.894778	-.064002	.010510	-.756576	-.401988
2	.398971	.671777	-.128994	-.041811	-.628459	-.355283
3	.286999	.444536	.309410	-.101278	-.567603	-.009965
4	.024415	.427805	.502626	-.062224	-.308461	.071199
5	-.111618	.227324	-.109110	-.023569	.015630	-.031045
6	-.114929	-.253949	-.283592	-.055484	.230251	.105468
7	-.052635	-.474550	.110212	-.056081	.215977	.087491
8	.021350	-.356744	.192489	-.018083	.004833	-.026595
9-11	.009509	-.024194	.078779	.002215	-.080863	.014937
12-14	.018077	.082503	-.013045	-.005745	-.076514	.013246
15-21	.023424	-.121130	.065392	-.011571	-.044407	.032757
22-30	.020578	-.114219	.086196	-.001978	-.040323	.024933

RUN NO. 81A 40M 11-01-62 2332-0046 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.79844 10E-02	0.72434 10E-02	0.10121 10E-02	0.10430 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.539446	.643275	.129864	.621417
2	.432745	.464019	.108859	.379717
3	.308983	.309495	-.040893	.188511
4	.191656	.138088	-.008070	.065078
5	.104860	.040254	-.164473	-.023029
6	.009158	.042690	-.106999	-.088595
7	.000203	-.011787	-.092572	-.142409
8	-.052581	-.068215	.008968	-.188078
9	-.068210	-.132275	-.092448	-.179021
10	-.108968	-.155262	-.144256	-.193636
11	-.100250	-.154904	-.135532	-.207268
12	-.102555	-.096065	-.051986	-.203220
13	-.073044	-.045093	.015383	-.123526
14	-.090233	-.034175	-.079863	-.121344
15	-.071846	.001844	.009574	-.095340
16	.080418	.045756	.028209	-.056031
17	.018659	.071394	.040721	-.006899
18	-.025718	.081525	-.040685	.024845
19	-.037512	.091582	.052684	.023460
20	-.063545	.069414	.094989	-.024112
21	-.070545	.028623	.014339	-.003438
22	-.112684	-.009505	-.015991	-.015720
23	-.051247	-.008176	-.001096	.041004
24	-.082447	-.045220	-.009122	.034154
25	-.101747	-.061436	.031623	.036129
26	-.087630	-.095077	-.046442	.017533
27	-.063458	-.134871	.037594	.020326
28	-.039637	-.158668	-.032425	.036831
29	-.033647	-.138856	-.010171	.024795
30	.038099	-.108679	.008778	.072686

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-04	10E-03
0	.041439	.041330	.026715	.020665
1	.164739	.142503	.282802	.130948
2	.111790	.099661	.493151	.148371
3	.100515	.108703	.750619	.163992
4	.075428	.080040	.683982	.120284
5	.041073	.040940	.514859	.075189
6	.029407	.031317	.491156	.057785
7	.031583	.031434	.512532	.053030
8	.023483	.029350	.508490	.041479
9-11	.015412	.018990	.306639	.030366
12-14	.012761	.006385	.291388	.023460
15-21	.015249	.011997	.384549	.014688
22-30	.021467	.011600	.553887	.016803

RUN NO. 81A 16M 11- 1-62 2332-0046 EST
RUN NO. 81A 40M 11-01-62 2332-0046 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	.132558	.101223	.296155	.025108
1	.135000	.031110	.212148	.178711
2	.195379	.073348	.158103	.107130
3	.118417	.155266	.151001	.079989
4	.040313	.132019	.197686	.069710
5	.079438	.027241	.220284	.067882
6	.062941	.123658	.215893	.149045
7-8	.047043	.124715	.177673	.112228
9-11	.172873	.138533	.065741	.074936
12-15	.083822	.152605	.108625	.063120
16-20	.047393	.174697	.122588	.114449
21-27	.090533	.110435	.119412	.054195
28-36	.085885	.105921	.128154	.076190
37-47	.067900	.116603	.086977	.075069
48-60	.099521	.082830	.061810	.067159

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	.712097	.797711	.662640	.061907
1	.627740	.753819	.717726	.087298
2	.446679	.596049	.675450	.041609
3	.321472	.481698	.693330	.135648
4	.254285	.265646	.693402	.280885
5	.214176	.105297	.530620	.360064
6	.330611	.073198	.184288	.450020
7	.225686	.150306	.128953	.362259
8	.202973	.170273	.043258	.157043
9-11	.356176	.138855	.408464	.336461
12-14	.241769	.279961	.242873	.223600
15-21	.229377	.229437	.293213	.230096
22-30	.231872	.225826	.318266	.142874

RUN NO. 818 16M 11-02-62 0046-0202 EST

GROSS STATISTICS

CLEAR	WIND SPEED	3.85 M/SEC	WIND DIRECTION 295 DEG
STABLE	SIGMA A	9.6 DEG	SOLAR RADIATION 0
LAND	SIGMA E	2.1 DEG	NET RADIATION -0.15

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.22152E-00	0.11010E-00	0.95519E-01	0.50569E-01
V	0.42307E-00	0.53458E-01	0.48268E-01	0.17483E-01
W	0.19418E-01	0.18804E-01	0.18475E-01	0.39084E-02
T	0.61721E-01	0.11642E-01	0.10349E-01	0.49587E-02
E	0.33200E-00	0.91183E-01	0.81131E-01	
GUSTINESS RATIOS				
U	0.12225	0.08619	0.08028	0.05841
V	0.16894	0.06005	0.05706	0.03434
W	0.03619	0.03562	0.03530	0.01624
COVARIANCES				
U,V	-0.27963E-01	-0.48706E-02	-0.55954E-02	-0.18699E-02
U,W	-0.11448E-01	-0.15657E-01	-0.15102E-01	-0.44248E-02
U,T	0.34999E-01	0.20889E-01	0.17710E-01	0.10423E-01
V,W	0.53057E-02	0.12522E-02	0.45208E-03	0.52730E-03
V,T	-0.12044E-00	-0.16046E-02	-0.13640E-02	-0.12968E-02
W,T	-0.64978E-02	-0.50528E-02	-0.49288E-02	-0.11554E-02
WE	0.84861E-03	0.54496E-03	0.37234E-03	
NORMALIZED COVARIANCES				
U,V	-0.09134	-0.06349	-0.08241	-0.06289
U,W	-0.17455	-0.34409	-0.35950	-0.31474
U,T	0.29932	0.58344	0.56328	0.65821
V,W	0.05854	0.03950	0.01514	0.06379
V,T	-0.74534	-0.06432	-0.06103	-0.13927
W,T	-0.18769	-0.34149	-0.35645	-0.26246

RUN NO. 818 16M 11-02-62 0046-0202 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.67903 10E-01	0.42008 10E-01	0.31444 10E-01	0.29862 10E-01	0.22352 10E-01	0.13828 10E-01
0	-.082598	-.359463	.563098	.015182	-.061136	-.356426
1	-.063308	-.266634	.479016	-.010628	-.053429	-.231854
2	-.031320	-.118311	.331790	-.017197	-.045302	-.085471
3	-.013462	-.016071	.206266	-.008043	-.036067	.000823
4	-.010139	.028174	.123430	.003355	-.027142	.045309
5	-.018415	.045419	.063590	.015791	-.026932	.060622
6	-.029469	.042065	.023500	.036221	-.036414	.050028
7	-.032246	.040020	-.005683	.039374	-.036131	.046911
8	-.026175	.030940	-.022841	.025224	-.025197	.044261
9	-.009937	.020257	-.033441	.006377	-.006286	.026206
10	.010920	.015461	-.041165	-.025893	.022724	.010559
11	.028576	.013157	-.053530	-.031027	.039515	.004054
12	.040559	.020825	-.068061	-.038100	.045127	.003269
13	.047566	.033457	-.083413	-.034263	.038963	.014098
14	.044416	.039717	-.094813	-.028807	.031631	.028490
15	.045946	.030232	-.095101	-.003036	.024141	.029818
16	.050717	.011785	-.086365	.009140	.023355	.025810
17	.061042	-.003177	-.084808	.016885	.032997	.014962
18	.065228	-.001694	-.088296	.007667	.037711	.007606
19	.059271	.009283	-.093717	.008051	.036223	.009482
20	.039987	.017804	-.092504	.001980	.036083	.014200
21	.022489	.016280	-.094958	.002348	.033082	.015274
22	.009254	.020654	-.096536	-.000264	.027881	.006912
23	.006473	.033605	-.096324	.004716	.019740	.013081
24	.005302	.039192	-.099724	.008104	.012159	.014659
25	.009605	.045618	-.102122	-.000621	.018419	.017401
26	.012821	.046517	-.106604	.000591	.027457	.019966
27	.013438	.038774	-.098781	.007253	.029845	.024468
28	.008189	.033713	-.088109	.003846	.019694	.025777
29	.000453	.033491	-.070753	-.000284	.009766	.020144
30	-.005055	.027423	-.043821	.006573	-.006724	.015281
31	-.016788	.010719	-.013955	.012027	-.027605	.007812
32	-.035634	-.004702	.010335	.020460	-.041721	.001926
33	-.056538	-.015211	.022463	.019139	-.050802	-.009891
34	-.072007	-.012951	.026785	.010464	-.053936	-.014921
35	-.077928	-.017290	.030644	.002288	-.045447	-.013133
36	-.073476	-.012296	.025204	.013732	-.042902	-.015049
37	-.059599	-.002073	.015999	.039105	-.034964	-.013343
38	-.044269	.005532	.009311	.031047	-.025749	-.005480
39	-.037316	-.001420	.017506	.001906	-.021214	-.009533
40	-.033059	-.013641	.025981	-.014392	-.020775	-.009470
41	-.030098	-.022056	.026872	-.017275	-.020547	-.003510
42	-.018530	-.020096	.025259	-.011358	-.017639	-.005617
43	-.011508	-.008333	.014423	-.010679	-.008860	-.009097
44	-.008850	.019167	-.004172	-.011372	.002777	.000869
45	.000899	.031554	-.016508	-.003514	.008627	.013700
46	.012697	.034335	-.021726	-.009103	.017428	.023327
47	.028285	.030774	-.023262	-.018422	.023101	.033496
48	.040881	.017634	-.023814	-.017162	.034576	.019823
49	.044167	-.006336	-.022784	-.022747	.044753	-.000619
50	.039730	-.020625	-.023678	-.020868	.042834	-.015166
51	.030546	-.023784	-.023261	-.020042	.041932	-.018686
52	.031101	-.013834	-.020490	-.022259	.035914	-.014927
53	.038856	-.007252	-.016578	-.022927	.022302	-.008843
54	.028454	-.006122	-.017681	-.016136	.006709	-.009085
55	.010408	-.000136	-.020526	-.002843	-.008547	-.006962
56	-.012061	.001499	-.021248	.011348	-.019064	-.002966
57	-.026623	-.001130	-.012238	.014043	-.021363	.001907
58	-.024177	.001201	-.003075	.009554	-.018125	.005124
59	-.016882	.003742	.000387	.013269	-.011143	.009284
60	-.007711	-.003200	-.001046	.020521	.001174	.018049

RUN NO. 818 16M 11-02-62 0046-0202 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.67903 10E-01	0.42008 10E-01	0.31444 10E-01	0.29862 10E-01	0.22352 10E-01	0.13828 10E-01
1	-.017732	-.013539	.053945	-.016704	-.011074	-.031659
2	-.021729	-.005054	.079426	-.024571	-.013633	-.048096
3	-.020401	-.004064	.094724	-.019199	-.017830	-.046393
4	-.015930	-.009600	.100936	-.003492	-.019119	-.042207
5	-.019997	-.021026	.100249	.017447	-.013609	-.029676
6	-.023863	-.031367	.090767	.004144	-.011747	-.017372
7	-.019799	-.028389	.074250	-.010128	-.021663	-.009498
8	-.014651	-.016657	.065226	-.024677	-.025314	-.005900
9	-.008401	-.006696	.053961	-.020001	-.020520	.005840
10	-.000537	-.008664	.042767	-.005444	-.015162	.015123
11	.002975	-.017628	.032888	.012028	-.022097	.014591
12	.001817	-.025693	.030858	.014283	-.030344	.019634
13	.005061	-.024406	.032033	.002677	-.029450	.029564
14	.008708	-.028762	.030110	.004148	-.021698	.039225
15	.017249	-.027840	.025047	.025707	-.017272	.030000
16	.005608	-.016231	.010546	.017021	-.006412	.019884
17	-.012685	-.004533	.000108	-.008588	.007129	.012975
18	-.023043	.007587	-.005862	-.029940	.017420	.002265
19	-.017280	.018400	-.005485	-.021989	.014981	-.014695
20	.004772	.021788	-.000347	-.003254	.008932	-.025015
21	.030806	.007687	.009114	.016427	.010757	-.024168
22	.037585	.001950	.007857	.025355	.012129	-.022208
23	.030059	.008479	.001182	.026256	.010503	-.007687
24	.020698	.005753	-.007000	.022055	.011160	.009940
25	.018810	-.010265	-.011996	.012363	.013705	.021454
26	.023350	-.018093	-.023234	.015242	.007650	.033788
27	.013684	-.013896	-.033773	.009951	.000879	.045153
28	-.001823	-.004286	-.042891	.001272	-.000728	.038514
29	-.006142	.000312	-.044618	.007595	.005880	.019293
30	-.013052	.006264	-.044511	-.003390	.022284	.006162
31	-.022249	.015445	-.041224	-.007091	.030657	-.004539
32	-.018848	.017306	-.025907	.004304	.028305	-.020316
33	-.020678	.017453	-.001763	-.004945	.022062	-.025761
34	-.033426	.020260	.014202	-.030024	.017060	-.024934
35	-.027865	.021752	.017589	-.039986	.012027	-.019716
36	-.017400	.013842	.018845	-.026910	.010006	-.003126
37	-.014660	.001601	.019540	-.002511	.010996	.009182
38	-.007133	-.007030	.016166	.014369	.002471	.017967
39	-.000860	-.005895	.019388	.010471	-.004956	.020824
40	-.009930	-.000510	.025041	.004837	-.010824	.012259
41	-.016097	-.005150	.029290	.000327	-.013286	-.006944
42	-.024836	-.007565	.033995	-.003667	-.015319	-.017761
43	-.019092	-.003088	.032511	.011549	-.014439	-.009722
44	-.015239	-.001590	.024670	.014944	-.010649	-.010152
45	-.011790	.001162	.019239	.001777	-.002833	-.008715
46	.003395	-.008345	.015972	.008002	-.003236	-.009429
47	.019317	-.018127	.009575	.012433	-.007950	-.004609
48	.029739	-.028679	.004564	.012612	-.017287	.011380
49	.041464	-.029762	-.003835	.006843	-.029784	.019428
50	.030727	-.017200	-.014221	-.001286	-.026217	.013910
51	.011941	.000622	-.023191	-.014893	-.006211	.000720
52	.004256	.016988	-.028118	-.015625	.007238	-.012392
53	.003896	.022238	-.019926	-.006524	.013790	-.024362
54	.007281	.016215	-.012822	-.006283	.015006	-.021424
55	.007549	.008264	-.009682	-.011142	.014851	-.009066
56	.007538	-.003796	-.007039	-.007079	.018512	-.014108
57	.008925	-.002381	-.003013	.008050	.021537	-.017759
58	.012049	.002529	-.006042	.024165	.017375	-.001638
59	.003377	.004390	-.013653	.026691	.013454	.021335
60	.003045	.012426	-.030149	.013917	.011071	.030388

RUN NO. 818 16M 11-02-62 0046-0202 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.95523 10E-01	0.48270 10E-01	0.18474 10E-01	0.10351 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.762632	.650053	.507175	.760452
2	.487456	.282452	.113440	.472124
3	.293116	.094701	-.057630	.281399
4	.173875	.019555	-.123204	.151288
5	.108306	-.018319	-.121111	.060436
6	.053212	-.052141	-.080562	.004455
7	.002063	-.082858	-.091969	-.031466
8	-.037449	-.096056	-.100729	-.053274
9	-.075121	-.090330	-.058696	-.066969
10	-.103668	-.084653	-.017137	-.068026
11	-.120013	-.069881	.001494	-.065907
12	-.127723	-.062163	-.012367	-.080408
13	-.137363	-.052124	-.045252	-.103021
14	-.152779	-.038543	-.050926	-.111199
15	-.158562	-.047506	-.028217	-.112389
16	-.156604	-.070073	-.005382	-.116037
17	-.150763	-.088131	-.000234	-.115893
18	-.150695	-.085160	-.000155	-.121689
19	-.153560	-.081907	-.011821	-.129753
20	-.150097	-.090732	-.021837	-.137004
21	-.138879	-.090987	-.021083	-.146750
22	-.130752	-.071032	-.002317	-.153458
23	-.128091	-.049941	-.043981	-.163822
24	-.133182	-.054309	-.067754	-.167476
25	-.143855	-.078638	-.069605	-.161345
26	-.147629	-.102224	-.057596	-.151159
27	-.141545	-.115445	-.051045	-.139128
28	-.117291	-.120578	-.039066	-.123092
29	-.093066	-.094877	-.025389	-.094827
30	-.059253	-.057214	-.017394	-.062600
31	-.017977	-.020940	-.007255	-.033245
32	.013592	.008903	.004525	-.013089
33	.042843	.025481	.021037	-.001857
34	.064913	.032528	.025170	-.003242
35	.078096	.033688	.005802	-.005146
36	.077085	.031668	.010375	-.005656
37	.056449	.037144	-.005765	-.004177
38	.047930	.042490	-.024392	.001298
39	.052311	.051435	-.018724	.006954
40	.048694	.054079	-.010168	.015774
41	.047242	.048398	.002536	.024648
42	.032418	.032834	.012878	.036653
43	.001246	.032160	.005250	.045812
44	-.035435	.018512	-.012269	.048317
45	-.059946	-.003065	-.005966	.039422
46	-.073617	-.013726	-.014267	.024495
47	-.072662	-.021146	-.037678	.006779
48	-.059604	-.037341	-.019374	.000821
49	-.051266	-.047743	-.007281	.008219
50	-.037902	-.033539	.015028	.007654
51	-.020851	-.013970	.031489	-.003733
52	-.016832	-.002013	.027052	-.009152
53	-.014227	.005036	.000509	-.009788
54	-.021681	.017738	-.003778	-.012768
55	-.031747	.021097	.011727	-.008118
56	-.031199	.027274	.027987	-.005744
57	-.016043	.020050	.024692	-.002831
58	-.001787	.000046	.012171	-.000493
59	.004932	-.011970	-.005590	.002725
60	.015934	-.008729	-.004694	.005628

RUN NO. 818 16M 11-02-62 0046-0202 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-03	10E-02	10E-03	10E-03	10E-03
0	.002277	-.022966	.010306	.016500	-.003240	-.002344
1	.027261	-.502889	.132655	-.000523	-.039457	-.089689
2	-.032559	-.777183	.194503	-.049127	-.184263	-.163324
3	-.151841	-.957741	.242624	.055887	-.454034	-.236287
4	-.129579	-.782048	.183353	.131572	-.358918	-.225108
5	-.021080	-.695566	.119261	.050761	-.062709	-.210949
6	-.009179	-.975401	.122560	.042251	-.067608	-.270282
7-8	.022409	-.959801	.106016	-.085509	-.021747	-.268846
9-11	-.010752	-.753202	.069476	-.223196	.052477	-.284097
12-15	-.019460	-.723274	.047912	.049751	-.034806	-.213572
16-20	-.023189	-.357864	.022516	.071688	-.043746	-.132183
21-27	-.008201	-.247013	.014498	.013415	.010943	-.087237
28-36	-.003458	-.101448	.005970	.032231	-.000269	-.046968
37-47	-.001711	-.040753	.002064	.027089	-.008322	-.033275
48-60	-.000144	-.019831	.001333	.016775	-.001695	-.018191

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	-.066403	-.161527	.346754	.053374	.006879	.054869
2	.069374	-.237667	.450891	.029185	-.099294	.030808
3	-.166628	-.328425	.768957	-.034601	-.224035	-.014271
4	-.575933	-.214328	.731665	-.119389	-.161909	-.047890
5	-.322639	-.125645	.397659	-.068804	-.059121	-.058664
6	-.005378	-.091855	.402915	.035348	-.040367	-.097038
7-8	-.273627	.108440	.399704	-.096021	.047139	-.175360
9-11	-.090045	-.119579	.186758	.026214	-.039057	-.009368
12-15	-.054800	.087386	.070460	-.068505	-.016238	-.056234
16-20	.005883	.000368	.042709	-.078539	-.014575	-.014747
21-27	-.083596	-.055250	.014848	.007750	.003737	-.008647
28-36	-.013812	-.022245	.022880	.002041	-.003525	-.004711
37-47	-.007116	-.016634	.007667	-.012203	-.004757	.001287
48-60	-.003198	-.004953	.004270	.013007	-.002071	.001812

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-03	10E-02
0	.004784	.013433	.030313	.004582
1	.058291	.166982	.362736	.065588
2	.087473	.266903	.496467	.098064
3	.116978	.352858	.610409	.115417
4	.094437	.279200	.582776	.084626
5	.061206	.226761	.595773	.061624
6	.061947	.281888	.776335	.062648
7-8	.049518	.260802	.891181	.061348
9-11	.033795	.222026	.799282	.041705
12-15	.023906	.139441	.725204	.028612
16-20	.017745	.122710	.526715	.017005
21-27	.010675	.091056	.444670	.011561
28-36	.005814	.050999	.259523	.007506
37-47	.004176	.032021	.224724	.004356
48-60	.002714	.020589	.146195	.002590

RUN NO. 818 16M 11-02-62 0046-0202 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
	0.29718 10E-01	0.14057 10E-01	0.15832 10E-01	0.82646 10E-02	0.93085 10E-02	0.44029 10E-02
0	-.062921	-.314787	.658349	.063803	-.139310	-.262423
1	.028085	.003027	.160385	.058145	-.028723	.019852
2	.085736	.017149	.008723	.037303	.039625	-.000283
3	-.066257	.046095	.008516	.058465	-.055586	.021545
4	-.061934	.044374	-.001669	-.002308	-.070374	.001182
5	.036756	.026074	-.074825	-.099055	.042092	.024131
6	-.015501	-.028963	-.005017	-.038295	-.043342	-.000315
7	.006787	.002587	.040532	-.002405	-.023077	-.041050
8	-.010631	.040547	-.048808	-.054555	-.008637	.034675
9	-.076746	.117112	-.105353	.035008	-.079472	.110596
10	-.061799	.027689	-.017494	.040059	-.092427	.050041
11	.006919	.026420	-.015586	-.008914	-.009320	.075981
12	.037383	.024547	-.021419	-.062901	.035429	.035028
13	.009353	-.006327	.003966	-.050843	.038251	-.023558
14	.033641	.022582	-.030477	-.038851	.002680	.025519
15	.014050	-.002618	.033957	-.023537	.012093	-.032280
16	-.064754	.011202	.015273	.088154	-.065347	.013700
17	.023331	-.047281	.065143	-.039945	.022083	-.014516
18	.052260	.000905	.066619	-.009316	.070218	-.031247
19	-.042203	.011151	.012720	.028943	-.016676	.001389
20	-.076326	-.005532	-.012108	.042668	-.030644	-.054226
21	-.066841	.033770	.013086	.013226	.001072	.049527
22	-.096993	-.005753	.000530	.062688	-.017232	-.017394
23	-.064218	-.040250	-.006660	.006022	-.027647	-.101831
24	-.003636	-.029441	-.015845	-.087526	-.004410	-.043823
25	.001168	.009863	.027307	-.032997	-.009114	.000732
26	-.072949	-.056175	-.043377	.009045	.006240	-.007010
27	-.010940	.004374	-.072714	-.021011	.027264	.040545
28	.032404	-.035410	-.009130	-.012905	.039076	.015044
29	.041453	.007383	-.015127	-.044155	.047892	-.026074
30	.001033	-.066064	.060157	-.032951	.062943	-.074643

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	-.145134	.058332	.190171	-.001104	-.095457	.115377
1	-.090215	.081747	.625192	.033019	-.253627	.181533
2	.021309	-.131113	.491828	.083060	-.077342	-.484644
3	.072261	-.253507	.708215	.130425	.007999	-.931302
4	.350280	-.229703	.680475	.089552	.046952	-.587149
5	.120584	-.126943	.472778	.085646	-.016534	-.097965
6	-.129979	-.067031	.445027	.146511	-.081803	.114811
7	-.037078	-.142618	.518839	.118350	-.095497	-.204511
8	.056079	-.225996	.503496	.030019	-.046227	-.668369
9-11	.250988	-.326017	.520959	-.075483	.034025	-.667532
12-14	-.300587	-.096216	.261163	-.035016	-.089382	-.174355
15-21	-.454000	-.190893	.467031	.048390	-.136410	-.575442
22-30	.063869	-.280703	.363002	-.024323	.008865	-.831660

RUN NO. 81B 16M 11-02-62 0046-0202 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
	0.29718 10E-01	0.14057 10E-01	0.15832 10E-01	0.82646 10E-02	0.93085 10E-02	0.44029 10E-02
1	-.030283	-.065961	.125586	-.008922	-.024271	.024693
2	.019424	-.013383	.043277	.054923	.008819	.013390
3	-.024816	-.032810	.039697	-.028517	.042609	.044924
4	-.037487	-.007546	.092609	.022340	.003850	.000367
5	.036002	-.040053	.028921	-.006425	-.018920	-.001326
6	.028845	.013292	-.006388	.012653	-.007773	-.031816
7	-.027543	.039639	.020800	-.040100	-.019492	-.066393
8	.046444	-.054545	.044894	.006151	-.027427	-.008562
9	.083473	-.070659	-.034471	.070646	-.006367	.010124
10	-.022834	-.022876	.022143	.056860	.032735	.012365
11	-.104311	-.048190	.038222	-.032065	.090743	.023034
12	.004350	.000032	.040154	-.012548	-.020431	-.019106
13	.009119	.067425	-.031969	-.008192	.016877	-.036317
14	-.027752	.053396	-.039269	.031925	.008568	-.032737
15	.009242	.077104	-.020722	.047651	.037344	-.033941
16	-.023054	.024989	-.016713	-.001935	.069156	-.046770
17	-.001417	-.023524	-.023941	.023676	.006141	.026067
18	-.037813	-.023117	.001668	-.026642	.063317	.042181
19	.006296	-.042208	-.007893	-.000526	.031534	.052526
20	-.016384	-.038954	.004712	.025050	.073298	.044902
21	.010898	-.027554	-.011762	.014068	.028432	.049603
22	-.049562	.051505	.033995	-.098155	.006172	-.024824
23	-.027012	-.061195	.050700	-.032703	-.008708	.000055
24	.069402	.000642	-.008361	-.004260	-.012432	-.022473
25	.045544	.022917	-.035316	-.003857	-.009575	-.005567
26	.001630	-.041315	.000487	-.000128	-.040258	.013053
27	-.008391	-.041539	-.025968	.027435	-.018322	.054218
28	-.032306	.022012	-.031306	-.042429	-.016647	-.021626
29	-.034624	.030664	-.027877	-.022415	-.026111	-.011472
30	.026212	.006214	-.002622	.100767	-.015081	.005501

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-03	10E-04
1	-.108861	-.088234	.170358	.696421	.152287	-.241008
2	.072500	-.109371	.227975	.444171	-.012439	-.243556
3	.153007	-.180238	.289089	-.081116	-.069684	.077911
4	-.003130	-.069988	.202096	-.089180	.006919	.249601
5	-.157912	.108595	.138847	.057110	.024227	-.003289
6	-.292834	.002766	.222193	-.067522	.048304	.266326
7	-.259418	-.248854	.232919	.314402	.088459	.790980
8	-.010002	-.221749	.144591	.694863	.046269	.458509
9-11	.104012	.014666	.064094	-.048441	-.053581	-.125525
12-14	-.065130	-.027568	.058347	.259724	-.001570	-.019003
15-21	-.105871	-.051987	.195843	-.112180	-.048020	-.030034
22-30	-.065012	-.100577	.005921	-.787974	.014811	.212834

RUN NO. 818 16M 11-02-62 0046-0202 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.50545 10E-01	0.17473 10E-01	0.39092 10E-02	0.49590 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.272264	.254875	-.079018	.221658
2	.020890	.085940	.028610	.042669
3	.068797	.091849	-.032957	-.013906
4	.044233	.095753	-.153778	-.022469
5	-.090219	-.007914	-.089667	-.035287
6	.050210	.033887	-.028107	-.010718
7	.082110	.074036	-.026137	.088181
8	-.068045	-.003330	-.077741	.020911
9	-.090357	.027473	-.008853	-.049398
10	.025996	.041471	-.018979	.015314
11	-.001122	.007258	.022963	-.036795
12	-.009850	-.024272	.011516	-.091227
13	.014258	-.051981	-.050864	-.070041
14	-.008785	-.086979	-.095463	-.078659
15	.031497	-.048475	.045908	.046643
16	.055664	.041764	-.043010	-.031756
17	.090766	-.012721	.037501	.048836
18	.030003	-.049781	.098108	.020223
19	-.007309	-.027749	-.018227	-.044557
20	-.043879	-.063139	-.037641	-.024812
21	-.020629	-.128747	-.044517	-.028113
22	-.051235	-.057909	-.020023	.005746
23	-.077430	-.090666	.006403	-.012690
24	-.105515	-.145929	.131205	-.027938
25	-.038316	-.149997	-.088257	.007925
26	-.026099	-.151540	.084363	-.099490
27	-.071819	-.155420	-.035358	-.095769
28	-.013612	-.094293	-.080920	-.038914
29	-.099125	-.135964	.054500	.037345
30	-.024969	-.125886	-.016815	.065860

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.144414	.054330	.003529	.096081
1	.475506	.221714	.047979	.388927
2	.265275	.123875	.083270	.279164
3	.297633	.089694	.131525	.267381
4	.315654	.079853	.153613	.215559
5	.224736	.068703	.162635	.183519
6	.205231	.081306	.183005	.236257
7	.238893	.086204	.193643	.307114
8	.226329	.066674	.140678	.291254
9-11	.235796	.061330	.149890	.215631
12-14	.136605	.056345	.093701	.156756
15-21	.237711	.072737	.181286	.188197
22-30	.150072	.064264	.282193	.207327

RUN NO. 818 40M 11-02-62 0046-0202 EST

GROSS STATISTICS

CLEAR	WIND SPEED 6.10 M/SEC	WIND DIRECTION 303 DEG	
STABLE	SIGMA A 4.5 DEG	SOLAR RADIATION 0	
LAND	SIGMA E 0.7 DEG	NET RADIATION -0.15	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.15032E-00	0.27951E-01	0.20297E-01	0.14148E-01
V	0.23664E-00	0.13253E-01	0.10110E-01	0.54334E-02
W	0.55709E-02	0.55628E-02	0.50953E-02	0.15260E-02
T	0.76182E-01	0.83003E-02	0.65657E-02	0.43914E-02
E	0.19626E-00	0.23388E-01	0.17751E-01	
GUSTINESS RATIOS				
U	0.06356	0.02741	0.02336	0.01950
V	0.07975	0.01887	0.01648	0.01208
W	0.01224	0.01223	0.01170	0.00640
COVARIANCES				
U,V	0.48505E-01	0.26245E-02	0.12705E-02	0.16405E-02
U,W	0.18059E-03	-0.35741E-02	-0.33118E-02	-0.77734E-03
U,T	-0.82388E-02	0.95153E-02	0.69307E-02	0.56252E-02
V,W	0.13314E-02	-0.61789E-03	-0.57614E-03	0.31802E-04
V,T	-0.90642E-01	0.22477E-02	0.14656E-02	0.12330E-02
W,T	-0.32805E-02	-0.16594E-02	-0.15373E-02	-0.44144E-03
WE	0.13736E-04	0.38992E-03	0.28023E-03	
NORMALIZED COVARIANCES				
U,V	0.25718	0.13636	0.08869	0.18711
U,W	0.00624	-0.28663	-0.32566	-0.16729
U,T	-0.07699	0.62471	0.60037	0.71365
V,W	0.03667	-0.07196	-0.08027	0.01104
V,T	-0.67508	0.21431	0.17989	0.25242
W,T	-0.15924	-0.24421	-0.26579	-0.17053

RUN NO. 818 40M 11-02-62 0046-0202 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14325 10E-01	0.10174 10E-01	0.11546 10E-01	0.71799 10E-02	0.81481 10E-02	0.57870 10E-02
0	.088575	-.325296	.600067	-.079998	.179933	-.265871
1	.067622	-.187219	.497433	-.021861	.135623	-.157702
2	.043088	-.055277	.341643	.010543	.082240	-.061737
3	.026867	.015036	.222221	.023846	.044846	-.003039
4	.018033	.052636	.135231	.007895	.026859	.028707
5	.013866	.061108	.082558	.002043	.025108	.036638
6	.019250	.059827	.052548	.004115	.024106	.028996
7	.037648	.054490	.028986	-.017267	.033879	.021095
8	.045246	.044067	.004204	-.029011	.038799	.019610
9	.044125	.029942	-.007770	-.017628	.037686	.016249
10	.050986	.004299	-.002786	-.020711	.043048	-.002866
11	.048041	-.023078	-.001456	-.009696	.051269	-.004365
12	.032333	-.024175	-.007398	.011381	.050026	.000725
13	.024846	-.013436	-.018900	.001227	.027469	.011460
14	.019843	-.014443	-.039777	-.025881	.024303	.021447
15	.000478	-.013280	-.056019	-.024572	.019028	.021101
16	-.006207	-.016265	-.059659	-.017404	.012245	.012165
17	-.002559	.005372	-.070075	-.022029	.006500	.015892
18	-.010318	.025720	-.094610	-.004418	-.013761	.028151
19	-.020811	.027540	-.115414	.030811	-.038611	.031201
20	-.022217	.035701	-.129193	.028343	-.039034	.022340
21	-.018825	.031691	-.137427	.013832	-.040335	.021370
22	-.027654	.014173	-.138855	.016364	-.038851	.010758
23	-.027188	.013903	-.145321	.030298	-.041079	.002373
24	-.026109	.007285	-.145650	.010038	-.046364	.002168
25	-.033789	.005294	-.133794	.001874	-.066361	.004774
26	-.045401	.006064	-.123884	.006719	-.085295	.010171
27	-.039194	-.011748	-.110830	-.002740	-.076683	.000034
28	-.020438	-.023068	-.092630	.002801	-.072288	-.001935
29	-.014446	-.012201	-.072395	.009960	-.076960	-.002648
30	-.015548	.008078	-.055535	.017221	-.064381	-.001316
31	-.029714	.016047	-.049577	.019105	-.050619	.011890
32	-.033613	.024101	-.054183	.005442	-.030041	.029916
33	-.025573	.031261	-.061987	-.011789	-.004831	.035573
34	-.018689	.044936	-.057664	-.009543	.008916	.038913
35	-.008452	.039584	-.055081	-.017937	.009016	.035796
36	-.004661	.029408	-.049644	-.009181	-.007964	.027853
37	-.020403	.023761	-.044989	-.001122	-.021228	.023060
38	-.040954	.011458	-.040600	.012900	-.037294	.013766
39	-.046998	-.002886	-.034018	.002343	-.049957	.008449
40	-.047012	-.016882	-.018213	.007682	-.068796	-.004159
41	-.049246	-.020331	-.000775	-.002815	-.077253	-.028900
42	-.050568	-.020939	.017379	-.007444	-.068405	-.036727
43	-.048794	-.024776	.036004	.004937	-.051350	-.036736
44	-.035672	-.024157	.042261	.004246	-.040622	-.027252
45	-.015824	-.014655	.053888	-.003412	-.029346	-.022101
46	-.018889	-.011209	.062491	-.003830	-.022143	-.025187
47	-.019529	-.015231	.065964	.017290	-.015767	-.024696
48	-.021353	.008144	.048404	.033723	-.015723	-.012635
49	-.018037	.029858	.013021	.021293	-.003536	-.004447
50	-.012683	.021932	-.010133	.025457	-.000577	-.002119
51	-.000904	.011383	-.012413	.022766	.003695	-.009565
52	.009511	.004669	-.007885	.007135	-.000813	.000348
53	.003389	.000328	-.005686	.017086	-.011273	-.001188
54	-.012104	-.012930	.005076	.027140	-.004439	-.004165
55	-.016027	-.013486	.016907	.018944	.004221	.003072
56	.005261	-.009356	.027697	.017255	.015743	-.004557
57	.024867	-.020076	.035772	-.005969	.025025	-.037855
58	.021318	-.021104	.040006	-.004212	.036041	-.042813
59	.031398	-.007025	.047434	.002481	.050498	-.034462
60	.042026	-.009915	.051214	.002447	.047634	-.017511

RUN NO. 818 40M 11-02-62 0046-0202 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.14325 10E-01	0.10174 10E-01	0.11546 10E-01	0.71799 10E-02	0.81481 10E-02	0.57870 10E-02
1	.030739	.003095	.046312	-.021200	.007678	.035798
2	.029456	.008063	.059593	-.029813	.007853	.059056
3	.030264	-.009215	.060666	-.029843	.009547	.084101
4	.026627	-.031592	.057273	-.055146	.024904	.095153
5	.009665	-.031891	.053371	-.075048	.028888	.092613
6	-.013022	-.020085	.050177	-.072184	.030183	.089030
7	-.034040	-.007545	.042616	-.076470	.035787	.087722
8	-.048256	-.010900	.030514	-.085026	.041645	.086689
9	-.052361	-.026565	.016627	-.085226	.044912	.084436
10	-.051998	-.031618	.003289	-.078413	.052661	.082982
11	-.051413	-.008927	-.001746	-.076234	.061601	.060261
12	-.048265	.005816	-.000182	-.063502	.070542	.036638
13	-.039912	-.003092	.006793	-.058186	.059627	.022670
14	-.032317	-.014035	.008108	-.056545	.035571	.026116
15	-.016489	-.020121	.003081	-.033568	.013280	.038242
16	-.018011	-.020545	.002024	-.020697	-.002784	.044103
17	-.031385	-.029789	.001453	-.037628	-.003728	.045202
18	-.025452	-.026340	.007463	-.041408	.001122	.035482
19	-.007711	-.023277	.013706	-.032385	-.002695	.027877
20	.004492	-.016643	.008533	-.019617	.004449	.021361
21	.006780	-.011376	.002244	-.029102	.011790	.017481
22	-.000511	.005696	-.012554	-.040010	.009179	.026888
23	.002776	.015335	-.018715	-.020036	.002684	.021343
24	.009169	.005755	-.019556	-.001728	-.002481	.004525
25	.013678	-.002808	-.020382	.022526	-.012000	-.004684
26	.008758	-.000928	-.025570	.036984	-.018672	-.024803
27	-.010882	.008271	-.025413	.027669	-.018606	-.040649
28	-.024331	.021394	-.025745	.010630	-.002427	-.050727
29	-.028128	.018589	-.021372	.017808	.008757	-.045795
30	-.017967	-.001043	-.020236	.020700	.004153	-.033146
31	-.009023	-.010381	-.020049	.014003	-.013414	-.017251
32	.003488	.000722	-.021121	.020145	-.023735	-.024635
33	.015797	.011764	-.017803	.028866	-.033008	-.034478
34	.046221	.010202	-.006439	.037303	-.053376	-.033779
35	.076143	-.007895	.016493	.052377	-.073593	-.028245
36	.079758	-.008405	.032757	.052369	-.074806	-.022019
37	.051582	-.014157	.035571	.021897	-.049115	-.005881
38	.039938	-.015760	.020072	.002252	-.031952	.013260
39	.034533	-.005393	.013475	-.016704	-.022157	.022396
40	.022354	-.002165	.013997	-.018569	-.020975	.033279
41	.009536	-.008784	.012358	-.022988	-.002646	.031291
42	.005200	-.010948	.019317	-.022721	.011374	.017815
43	-.000667	-.001743	.017692	-.027771	.019370	.007561
44	-.008415	.012792	.008094	-.002785	.015587	-.000474
45	.006784	.017797	-.003557	.011447	.008756	-.003950
46	.031206	.007792	-.006676	.026035	-.008409	-.010532
47	.028451	-.003692	-.010050	.037508	-.024269	-.015645
48	.022703	-.001238	-.020793	.032702	-.017676	-.015090
49	.009520	.004336	-.029437	-.003770	-.008539	-.020147
50	.006770	-.000934	-.026864	-.023322	-.001897	-.018320
51	.018567	-.002219	-.024556	-.006872	-.000049	-.006596
52	.024098	-.020722	-.009229	.001851	-.002023	-.002215
53	.007603	-.021508	.001997	-.001586	.004792	-.004298
54	-.015097	-.002086	.003747	.009527	.026104	-.017721
55	-.015679	.012924	.002776	.017589	.039292	-.024898
56	-.018395	.020545	.003608	.020630	.041693	-.021529
57	-.022712	.014501	.007439	.009444	.042050	-.019237
58	-.038544	.020920	.008586	.004067	.035932	-.022166
59	-.047528	.016977	.008378	-.012421	.030226	-.027155
60	-.044359	.003986	.018238	-.010946	.034760	-.025431

RUN NO. 818 40M 11-02-62 0046-0202 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.20300 10E-01	0.10109 10E-01	0.50993 10E-02	0.65674 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.693080	.579804	.505894	.784696
2	.400654	.230076	.193503	.524052
3	.206737	.099922	.086937	.345196
4	.101309	.051530	.041248	.221916
5	.035420	.007317	-.011726	.149466
6	.009867	-.026336	-.014522	.094234
7	-.020517	-.011897	-.029706	.050364
8	-.051317	.003673	-.043436	.010681
9	-.052435	.020062	-.051650	-.020728
10	-.038565	.023681	-.037479	-.038505
11	-.025273	.008445	-.017325	-.058438
12	-.034671	-.001948	-.024697	-.069358
13	-.052350	-.044469	-.031373	-.084206
14	-.054888	-.074866	-.061905	-.104518
15	-.057871	-.063096	-.090804	-.108277
16	-.053340	-.071073	-.076687	-.110437
17	-.072149	-.095459	-.095934	-.121733
18	-.118047	-.109980	-.124798	-.134545
19	-.149512	-.088761	-.139142	-.149207
20	-.166215	-.079825	-.137986	-.158985
21	-.157826	-.075686	-.130364	-.178436
22	-.162206	-.074817	-.108575	-.198439
23	-.169036	-.086792	-.093919	-.214528
24	-.165334	-.093359	-.078216	-.227375
25	-.148356	-.089595	-.077730	-.224443
26	-.126282	-.124415	-.070107	-.214149
27	-.098290	-.148914	-.027516	-.197932
28	-.070794	-.129262	-.018169	-.167335
29	-.065381	-.117970	-.024364	-.135315
30	-.054017	-.099732	-.015282	-.102816
31	-.033264	-.047812	.011040	-.082986
32	-.017782	-.023996	.010436	-.076500
33	-.022478	-.036930	.018874	-.062044
34	-.021113	-.030232	.007131	-.043104
35	-.017394	-.003164	.021959	-.030915
36	-.002014	-.004834	.025712	-.025694
37	-.000760	-.000845	.020126	-.026503
38	-.008229	-.021316	.033992	-.026396
39	-.009864	-.018511	.022624	-.023249
40	-.004141	-.011842	.012634	-.018382
41	.011166	-.016240	.002331	.000438
42	.026171	-.025068	.015283	.016890
43	.034266	-.023595	.025211	.029123
44	.024889	.015052	.014062	.032506
45	.015140	.019220	-.016789	.035348
46	.018659	.006089	-.016668	.036588
47	.036163	.003541	-.005391	.028095
48	.033025	.004111	-.037975	.021691
49	.000613	.013546	-.024939	.016977
50	-.028226	.030296	.003436	.018804
51	-.029118	.031079	.022527	.033572
52	-.017249	.017938	.002632	.042674
53	-.011874	.014868	.017309	.049090
54	.008951	.027611	.007976	.057258
55	.025103	.024183	.003651	.055862
56	.017740	.019361	-.017089	.063037
57	.023159	.026698	.015991	.073072
58	.022998	.021128	.010885	.077351
59	.025106	.043540	.007987	.077319
60	.033980	.061002	-.019675	.062646

RUN NO. 81B 40M 11-02-62 0046-0202 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-04	10E-03	10E-04
0	.037263	-.002983	.059749	-.058936	.022353	-.000871
1	.359833	-.070707	.723275	-.410989	.281005	-.370714
2	.287720	-.097022	.942612	-.309664	.262278	-.686698
3	.126718	-.091559	.912037	-.190322	.142353	-.744834
4	.015969	-.078252	.543937	.114757	.018614	-.640987
5	-.058070	-.112844	.368018	.342452	-.035508	-.810086
6	-.064449	-.120177	.334668	.165787	.014676	-.626680
7-8	.019901	-.188305	.413775	-.134489	.077634	-.623664
9-11	.066768	-.216363	.279778	-.110456	.074765	-.853611
12-15	.055622	-.127024	.167593	-.327167	.044265	-.631933
16-20	.024205	-.088314	.106553	-.165518	.026948	-.397499
21-27	.008139	-.069023	.055086	-.211304	.017926	-.264608
28-36	.016093	-.041775	.031236	-.190387	.012361	-.183148
37-47	-.000380	-.031069	.016812	-.019086	.003101	-.130451
48-60	.003801	-.019026	.007391	-.108175	.005287	-.101643

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-04	10E-03	10E-03	10E-03	10E-03
1	-.086070	-.728094	.019068	-.140647	.037041	.105166
2	-.196885	-.691434	.057904	-.183774	.121582	.141908
3	-.162466	-.713777	.134852	-.201259	.143289	.171985
4	-.035869	-.422987	.149155	-.116170	.065893	.117635
5	-.015170	.015977	.071010	-.042318	.039053	.052680
6	.036739	.055287	.075618	-.044663	.032398	.066932
7-8	.157870	-.344074	.126725	-.019947	-.045025	.065754
9-11	.087270	-.014598	.057563	.019446	-.015879	.007700
12-15	.031636	.094120	.021422	-.004410	.018136	.006201
16-20	.008153	.125649	.020074	.001645	-.009917	.008084
21-27	.004631	.188757	.014102	-.002489	.002161	-.002381
28-36	.010309	-.079872	.006727	-.012332	.005864	.000372
37-47	.009009	-.053508	.005011	.003408	.000194	.002138
48-60	.002743	-.004959	.000936	.001297	-.001530	.000955

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-03	10E-03	10E-03
0	.011674	.044225	.011740	.045639
1	.128716	.561561	.165385	.605452
2	.175793	.727263	.269636	.821244
3	.196428	.722868	.367543	.838205
4	.136970	.478313	.298148	.534873
5	.091731	.361866	.180291	.365154
6	.094063	.396820	.157329	.373628
7-8	.117680	.380222	.204440	.363930
9-11	.083813	.423714	.200690	.212955
12-15	.057437	.323899	.136595	.160365
16-20	.039596	.220712	.120256	.109212
21-27	.028473	.197954	.099917	.064906
28-36	.017471	.152091	.087331	.038939
37-47	.012062	.092965	.063173	.026414
48-60	.009930	.066187	.046716	.014751

RUN NO. 81B 40M 11-02-62 0046-0202 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
	0.87626 10E-02	0.46448 10E-02	0.78750 10E-02	0.28794 10E-02	0.48819 10E-02	0.25878 10E-02
0	.187219	-.167356	.714314	.011045	.252564	-.170587
1	.186902	.036542	.304006	-.042177	.197725	.020243
2	.058772	.046617	.089077	-.004134	.065980	.061983
3	.016143	.005443	.043805	.015372	-.010099	-.015522
4	-.027547	.048168	-.024271	.031743	-.033394	.034283
5	-.016815	.024999	.047440	.034485	.018581	-.019511
6	.054458	-.036522	.064762	-.021611	.095802	-.038379
7	.049067	.089124	-.018807	-.034516	.120966	.069258
8	.024912	.028045	.084172	-.055668	.059280	.001978
9	.032993	.047030	.048217	-.036331	.070781	.011038
10	.009298	.064141	-.025505	.013911	.011863	-.029661
11	-.029389	.038020	.040603	.010200	-.033392	-.016828
12	-.072227	.141446	-.026159	-.001988	-.080158	.145282
13	-.061820	.070331	-.112210	.056348	-.056786	.065958
14	-.023121	-.034883	-.040852	-.020642	-.031619	-.058970
15	-.004790	.011527	-.022344	.010880	.011373	.002900
16	-.010487	-.028003	-.034999	.020078	.008093	.004513
17	-.072076	-.028920	-.045948	.046484	-.051878	.008097
18	-.061475	-.007038	-.093463	.088888	-.064944	-.015936
19	-.041225	-.049577	-.108107	.057029	-.045794	-.014427
20	-.047431	-.058931	-.146103	.041379	-.047933	-.046317
21	.010747	-.031657	-.151517	-.019313	.045170	-.006310
22	.047055	-.140553	-.037751	-.062644	.078679	-.070962
23	-.012055	-.086763	-.008531	-.042248	.029554	-.044489
24	-.001619	-.007789	.008173	-.046285	-.025621	-.001121
25	-.043160	-.093523	-.023954	.000491	-.052286	-.023801
26	-.066487	.013223	-.113402	-.047050	-.078328	.051423
27	-.111442	.086571	-.162322	-.039822	-.066218	.102097
28	-.107428	-.037987	-.094929	-.064128	-.087726	-.000678
29	-.073203	-.077334	-.079302	-.044343	[illegible]	-.080599
30	-.079775	-.017935	-.115886	-.022635	-.042681	-.087638

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-03	10E-03	10E-04	10E-03	10E-04
0	.075134	.042369	.175730	.013190	.081042	.059814
1	.395854	.128763	.833386	-.153938	.300537	.153939
2	.278482	-.023046	.510192	-.172832	.165106	-.118050
3	.156901	-.101855	.289879	.167712	.072295	-.244152
4	.065236	-.027342	.265526	.234602	-.002630	.006099
5	.105946	.019156	.311182	-.115665	.026744	.063285
6	.158610	.005019	.310954	-.145606	.087330	-.088569
7	.211913	-.031327	.381639	-.263682	.154072	-.195508
8	.253978	-.060570	.351750	-.485642	.204240	-.225848
9-11	.087668	-.028191	.250005	-.014096	.083898	-.106212
12-14	.020845	-.049565	.196712	.122484	.019710	-.414906
15-21	.011879	-.047388	.153919	.023895	.007218	-.257381
22-30	-.049786	-.052383	.133942	.163198	-.007055	-.246943

RUN NO. 818 · 40M 11-02-62 0046-0202 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
	0.87626 10E-02	0.46448 10E-02	0.78750 10E-02	0.28794 10E-02	0.48819 10E-02	0.25878 10E-02
1	-.033266	-.036375	.025922	-.166980	.077671	.143759
2	.044823	-.052706	.016964	-.083718	-.026425	.059277
3	.036178	.014853	.015957	-.039013	-.022974	-.046062
4	.080932	.039590	.028021	-.012446	-.040663	-.013201
5	.098111	.018782	.001336	.069000	-.040157	-.058207
6	.014390	.044708	.025906	.020177	.016110	-.073555
7	-.002028	.064432	.002541	.031576	-.001170	.012810
8	.042729	.032852	-.006414	.029059	-.052862	.022790
9	-.021467	.003606	.033560	-.038397	-.016287	.010983
10	-.030692	.021892	.012215	-.038223	.043043	.045586
11	-.044773	-.014462	.026521	-.043880	.084485	.056522
12	-.113182	.004333	.054198	-.029997	.129261	-.088852
13	.038024	.002448	-.001538	.050322	-.007633	.007057
14	.029142	-.062355	-.005028	.025485	-.018872	.071772
15	.015142	-.079060	.034857	-.093089	-.006948	.013745
16	.009332	-.120839	.016327	-.124077	.029160	.129576
17	-.034981	-.075123	.015021	-.091599	.069788	.142706
18	-.053378	.001009	.005803	-.062321	.073985	.000845
19	-.046698	-.068222	.043813	.029710	.073243	.005289
20	-.025377	.031630	.033633	.004270	.087658	-.027226
21	.025894	.048147	.025027	.034164	.097851	-.034276
22	.030981	-.086266	.040145	-.017037	.023307	.023203
23	.039372	-.033954	-.004733	-.110308	.003514	.028185
24	.038868	.009717	-.022896	-.058383	.031120	.066201
25	.100971	-.046034	-.009663	-.012939	-.006181	.049581
26	.057288	.034220	-.019858	.024718	.046049	-.055249
27	.100810	.094535	-.006151	.126845	-.029813	-.089753
28	.118515	.068471	-.024131	.076451	-.088612	-.072534
29	.062278	.034381	-.036453	.006946	-.076308	-.032388
30	.035776	.069238	-.032931	-.003403	-.045961	-.022046

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-04	10E-03	10E-03	10E-03	10E-04
1	.013442	-.334570	.145175	-.057077	.103929	.406125
2	.074386	.584006	.052016	-.000606	-.027740	-.096380
3	.173800	.848011	.015853	.014593	-.064581	-.320890
4	.155608	-.025671	.023530	-.019738	-.037732	-.041367
5	.138032	-.602507	.013104	-.042901	-.035911	.149060
6	.036393	-.336256	.035903	-.039294	.023652	.022135
7	-.101556	-.153895	.047260	-.057872	.071729	.211814
8	-.060375	-.615435	.013698	-.102229	.010607	.774358
9-11	-.037505	-.212796	-.003369	-.032110	.004763	.380622
12-14	-.049608	-.328489	.016862	-.038289	.058379	.320226
15-21	-.022323	.069137	.013564	-.026908	.030071	.287988
22-30	-.034774	.013338	-.002874	-.006175	.023151	-.013011

RUN NO. 81B 40M 11-02-62 0046-0202 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.14135 10E-01	0.54321 10E-02	0.15263 10E-02	0.43874 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.460305	.493762	.092117	.365611
2	.264776	.338225	-.129317	.056625
3	.258295	.221431	.080665	.000109
4	.149217	.169765	-.085541	-.073377
5	.159383	.190561	-.087427	.022611
6	.178250	.181267	.031337	.032916
7	.093778	.150637	-.030646	-.048462
8	.188201	.042509	-.066449	.011050
9	.126482	.018974	-.080297	-.008046
10	.037759	-.023392	-.033850	-.035685
11	.099098	-.068180	-.127764	-.029708
12	.010985	-.082004	-.180929	-.055083
13	-.084115	-.135131	-.075323	-.098487
14	-.081037	-.074352	-.006243	-.007746
15	-.087375	-.003077	-.002958	.042389
16	-.074467	-.041488	.021540	.040973
17	-.039912	-.137176	.029903	-.081868
18	-.156987	-.153910	-.000553	-.102784
19	-.160423	-.143171	.123803	-.088621
20	-.174303	-.054449	.140136	-.118790
21	-.194242	-.039941	.023476	-.149538
22	-.083513	-.017903	.092695	-.060331
23	-.031722	-.047283	.060992	-.004356
24	-.096119	-.155186	-.017260	.030683
25	-.098485	-.133876	-.034222	-.034799
26	-.204624	-.249991	-.099509	-.087581
27	-.301311	-.202141	-.110039	-.092361
28	-.232549	-.158884	-.028357	-.047051
29	-.218942	-.172178	.104945	-.015361
30	-.248550	-.158784	-.014998	-.071889

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-04	10E-03
0	.091555	.031586	.044610	.085227
1	.344337	.126088	.306331	.428483
2	.167469	.073953	.627267	.306922
3	.072942	.046361	.981986	.255859
4	.050568	.025916	.625161	.267824
5	.062740	.018010	.357029	.246871
6	.066645	.016964	.551343	.207680
7	.070272	.020534	.700579	.269816
8	.058159	.028654	.782230	.289636
9-11	.042977	.019539	.586639	.210494
12-14	.034927	.012017	.617164	.175476
15-21	.041187	.011663	.881401	.131689
22-30	.034648	.014316	.625484	.120405

RUN NO. 818 16M 11-02-62 0046-0202 EST
RUN NO. 818 40M 11-02-62 0046-0202 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	.090553	.136525	.005686	.174148
1	.179739	.371158	.177451	.283432
2	.119622	.274746	.202334	.239158
3	.049875	.176931	.273171	.155502
4	.056385	.095729	.323048	.097122
5	.035858	.117418	.264574	.110424
6	.179435	.190176	.303399	.163510
7-8	.115856	.152726	.397157	.234574
9-11	.108276	.152472	.093312	.093574
12-15	.081209	.083017	.123815	.101242
16-20	.085739	.080288	.141005	.098278
21-27	.087334	.127587	.107837	.086643
28-36	.153318	.073476	.126660	.147694
37-47	.084790	.086522	.105293	.089357
48-60	.085920	.082223	.092201	.097581

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	.756002	.903811	.290755	.195753
1	.548441	.841885	.380774	.277835
2	.099727	.664299	.536139	.192767
3	.293842	.463053	.499243	.185436
4	.264943	.329053	.233496	.197037
5	.270043	.242780	.143820	.184960
6	.123414	.157703	.158710	.294799
7	.351689	.306201	.258919	.253208
8	.302902	.597313	.381674	.197467
9-11	.255853	.389401	.300692	.356665
12-14	.153668	.185724	.144278	.280534
15-21	.250226	.300739	.343465	.184200
22-30	.233415	.220697	.256889	.190633

RUN NO. 81C 16M 11-02-62 0213-0318 EST

GROSS STATISTICS

CLEAR	WIND SPEED	3.87 M/SEC	WIND DIRECTION 325 DEG
STABLE	SIGMA A	6.6 DEG	SOLAR RADIATION 0
LAND	SIGMA E	2.9 DEG	NET RADIATION -0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.41582E-00	0.16360E-00	0.14289E-00	0.81218E-01
V	0.19925E-00	0.91679E-01	0.85033E-01	0.32560E-01
W	0.36896E-01	0.36994E-01	0.34771E-01	0.94366E-02
T	0.59359E-01	0.12794E-01	0.11591E-01	0.55063E-02
E	0.32598E-00	0.14615E-00	0.13135E-00	
GUSTINESS RATIOS				
U	0.16663	0.10452	0.09768	0.07364
V	0.11534	0.07824	0.07535	0.04663
W	0.04963	0.04970	0.04818	0.02510
COVARIANCES				
U,V	-0.13721E-00	-0.41373E-02	-0.31835E-02	-0.31919E-02
U,W	-0.30897E-01	-0.31508E-01	-0.26747E-01	-0.13361E-01
U,T	0.11525E-00	0.25460E-01	0.22572E-01	0.13329E-01
V,W	0.52380E-02	0.38534E-02	0.48241E-02	0.19281E-02
V,T	-0.65058E-01	-0.24191E-02	-0.24133E-02	-0.12409E-02
W,T	-0.88073E-02	-0.87223E-02	-0.81698E-02	-0.24941E-02
WE	-0.14550E-02	0.22164E-02	0.26367E-03	
NORMALIZED COVARIANCES				
U,V	-0.47670	-0.03378	-0.02888	-0.06207
U,W	-0.24945	-0.40500	-0.37947	-0.48262
U,T	0.73355	0.55650	0.55465	0.63029
V,W	0.06109	0.06617	0.08872	0.11000
V,T	-0.59822	-0.07063	-0.07687	-0.09268
W,T	-0.18820	-0.40092	-0.40695	-0.34600

RUN NO. 81C 16M 11-02-62 0213-0318 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11026 10E 00	0.70519 10E-01	0.40700 10E-01	0.54387 10E-01	0.31389 10E-01	0.20075 10E-01
0	-.028879	-.379477	.554706	.088933	-.076915	-.406928
1	-.046332	-.306515	.482043	.074976	-.068980	-.293903
2	-.059508	-.199205	.356229	.063389	-.055539	-.154776
3	-.048275	-.108578	.244797	.056852	-.043260	-.061000
4	-.029398	-.044206	.155594	.048885	-.026220	.001523
5	-.009677	-.002168	.090951	.019960	-.014269	.041222
6	.010272	.017149	.043683	-.003322	-.003321	.065423
7	.010346	.031949	-.003858	-.011317	.001780	.072767
8	.008176	.045973	-.039876	-.008211	-.003624	.060175
9	.017877	.055342	-.055317	-.017163	-.005409	.052894
10	.021100	.064924	-.055166	-.019439	.007434	.049450
11	.023390	.067526	-.065356	-.033313	.027528	.044725
12	.031615	.062856	-.079514	-.045993	.039237	.032318
13	.035904	.054918	-.087943	-.032195	.036091	.027455
14	.035558	.052358	-.091632	-.021765	.033926	.027988
15	.028364	.052687	-.095708	-.027876	.033485	.028744
16	.016071	.053701	-.099587	-.026902	.028158	.039041
17	.008801	.053111	-.109976	-.012789	.010617	.049229
18	.000581	.045998	-.115131	.000911	-.008557	.044505
19	-.004193	.039257	-.111257	-.004866	-.009214	.032985
20	-.006593	.037724	-.108330	-.007483	-.000987	.026410
21	-.012129	.039137	-.106011	-.005215	.001844	.013062
22	.001206	.040510	-.108669	-.009636	.005517	.000682
23	.003046	.034053	-.107606	-.001882	.003736	-.003692
24	.008782	.031084	-.113510	-.006660	.009484	.005505
25	.014597	.035407	-.118867	-.012602	.024693	.028157
26	.013111	.047529	-.116294	-.017586	.032759	.053323
27	.006295	.045783	-.103006	-.027285	.028471	.063348
28	.001483	.042526	-.080966	-.036952	.023164	.055660
29	.003015	.032104	-.052189	-.032265	.019758	.031723
30	.001537	.015921	-.026167	-.031780	.015125	.005921
31	-.004957	.001519	-.003586	-.009376	-.001093	-.020447
32	-.003983	-.000508	.010690	.022367	-.007760	-.036588
33	-.000444	-.010715	.024862	.027182	.000143	-.045065
34	-.009072	-.025678	.040231	.019433	.004519	.047624
35	-.009109	-.035742	.045714	.010902	.003109	-.035709
36	-.004645	-.041396	.036854	.009097	.001682	-.019634
37	-.009222	-.037213	.026416	.012322	-.003013	-.005368
38	-.008983	-.036333	.016658	-.000466	-.003993	.003676
39	-.005690	-.037017	.005067	-.011559	.001873	.013986
40	-.006551	-.026855	-.007291	-.014775	.001004	.016441
41	-.008136	-.014550	-.009536	-.005592	.000298	.016502
42	-.012484	-.013732	-.012309	-.003077	.008824	.016004
43	-.016880	-.019312	-.009982	.002230	.007521	.001351
44	-.024222	-.012143	-.006581	.005971	.003286	-.007342
45	-.024445	-.004579	-.003362	.007159	-.003052	-.023892
46	-.018416	-.001703	-.004799	.017900	-.011732	-.032124
47	-.008987	.010001	-.011994	.018169	-.014664	-.017725
48	-.007520	.016193	-.015122	.004052	-.008721	-.001477
49	.000874	.011912	-.016411	-.005781	-.001556	.003737
50	.003559	.015736	-.018213	-.002360	-.009065	.011563
51	.005279	.015660	-.015992	.004070	-.021886	.017438
52	.003020	.010706	-.005098	.018208	-.032114	.002334
53	.001766	.007667	.007662	.022964	-.032366	-.012366
54	-.003925	-.004809	.029903	.016423	-.028548	-.026387
55	-.010634	-.016671	.040436	.006948	-.028220	-.036318
56	-.017074	-.022390	.037622	.014277	-.028324	-.044323
57	-.012783	-.024333	.036470	.003943	-.019790	-.050337
58	-.001934	-.029929	.031325	-.024327	-.010504	-.043571
59	.007947	-.015872	.015638	-.034311	-.007791	-.009423
60	.016370	.015332	-.007258	-.030364	-.007594	.028878

RUN NO. 81C 16M 11-02-62 0213-0318 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11026 10E 00	0.70519 10E-01	0.40700 10E-01	0.54387 10E-01	0.31389 10E-01	0.20075 10E-01
1	-.002839	.002006	.036171	-.013334	-.013558	-.057993
2	.001894	.011603	.050534	-.021463	-.024407	-.077667
3	.011999	.030576	.050957	-.030337	-.031532	-.075502
4	.010868	.030193	.054299	-.038008	-.035351	-.059787
5	.002535	.025751	.055617	-.040235	-.032390	-.038539
6	.003976	.028797	.061339	-.047836	-.020047	-.027874
7	.005284	.027375	.062987	-.048462	-.011454	-.027276
8	.006638	.044177	.056418	-.054838	-.006638	-.031705
9	.007437	.051141	.044263	-.058703	.000518	-.034609
10	.003651	.045526	.031705	-.054361	.012547	-.031435
11	.005130	.040530	.030814	-.051182	.022772	-.038175
12	.012847	.047880	.025407	-.038573	.024430	-.030085
13	.015317	.036359	.023760	-.039688	.026638	-.015119
14	.006798	.028143	.024610	-.034990	.020953	-.013785
15	-.007301	.033116	.019384	-.021844	.018260	-.014665
16	-.008750	.031600	.021264	-.009109	.018258	-.010714
17	-.011329	.018571	.026265	.003057	.016202	.002320
18	-.006508	.009789	.035750	.016077	.003020	.008760
19	-.004618	-.000356	.045216	.013954	-.005628	.008637
20	-.003976	-.005810	.052325	-.004878	-.002028	.001077
21	-.005512	-.001762	.055922	-.012775	-.003294	-.006145
22	-.007864	.003976	.046660	-.009372	-.009426	-.020642
23	-.005747	.006251	.034091	.009422	-.013431	-.027508
24	-.001755	.006833	.026685	.024516	-.021486	-.024191
25	.008179	.002895	.022509	.031802	-.028640	-.023685
26	.019333	-.005807	.013370	.030511	-.022013	-.013916
27	.015045	-.010407	.001621	.047952	-.010969	-.001110
28	.012064	-.013855	-.001463	.064950	-.000486	.007412
29	.014921	-.011567	-.003854	.058961	.006901	.004728
30	-.001538	-.016746	-.009921	.037956	.017970	.005271
31	-.019883	-.021639	-.004395	.020115	.019565	.005946
32	-.026072	-.020393	-.001423	.023299	.007522	.002493
33	-.024232	-.029156	-.004109	.027440	-.013130	.008776
34	-.017971	-.031518	-.007729	.025912	-.035759	.012535
35	-.005245	-.022296	-.007260	.030114	-.055063	.003326
36	.000900	-.016244	-.011516	.031740	-.056920	.003997
37	-.003973	-.010641	-.007742	.011442	-.030446	.004309
38	-.007601	-.009902	-.000478	-.014637	.003011	.006418
39	-.012377	-.000608	-.002835	-.032894	.012795	.005900
40	-.022244	-.002077	-.010546	-.048170	.028045	.011398
41	-.024602	-.008673	-.013235	-.050933	.040026	.018617
42	-.022022	-.009777	-.017762	-.039790	.035610	.024069
43	-.027030	-.007697	-.019421	-.025111	.026574	.014658
44	-.029075	-.017067	-.025304	-.025948	.019912	.014880
45	-.028228	-.017749	-.037966	-.020389	.010827	.028718
46	-.020965	-.002969	-.055272	-.019334	.003374	.034849
47	-.013611	.015337	-.065523	-.025413	.010681	.034027
48	-.007464	.015747	-.062398	-.036320	.026393	.038894
49	-.003089	.002761	-.050300	-.020102	.036541	.042483
50	.002843	.001169	-.038696	-.001922	.044477	.046295
51	.003717	.009164	-.029000	-.000697	.040492	.039562
52	.017373	.012842	-.024744	-.012919	.020363	.021895
53	.034673	.020048	-.021377	-.004929	-.014638	.003433
54	.053453	.015798	-.010965	.016679	-.041382	-.018172
55	.063533	.011627	.000031	.012774	-.047738	-.025005
56	.066095	.013345	.005480	.007763	-.048141	-.031628
57	.069107	.008820	.009375	.009765	-.049252	-.032982
58	.060990	.009414	.012885	.015847	-.045004	-.036978
59	.046474	.017741	.012001	.026245	-.043856	-.033619
60	.048394	.017254	.015754	.024048	-.043568	-.031215

RUN NO. 81C 16M 11-02-62 0213-0318 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.14297 10E 00	0.85038 10E-01	0.34783 10E-01	0.11586 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.787346	.698135	.583636	.785243
2	.549921	.365452	.224587	.509086
3	.382652	.189002	.036107	.318434
4	.257446	.079622	-.050059	.174680
5	.159268	.003687	-.082114	.072216
6	.084264	-.038189	-.083324	.002143
7	.016278	-.069622	-.075794	-.044707
8	-.046533	-.074920	-.059465	-.079056
9	-.075780	-.073505	-.072794	-.099134
10	-.087456	-.083431	-.084504	-.105422
11	-.111445	-.105356	-.084103	-.108740
12	-.130694	-.136263	-.075563	-.113614
13	-.141073	-.158801	-.076419	-.128097
14	-.154571	-.166047	-.067580	-.141544
15	-.170128	-.166354	-.049426	-.151141
16	-.176379	-.141908	-.044543	-.153211
17	-.186415	-.106144	-.073135	-.153585
18	-.179338	-.089428	-.073898	-.144070
19	-.171762	-.088700	-.060407	-.134815
20	-.174985	-.084748	-.051561	-.134341
21	-.185632	-.077577	-.023559	-.121530
22	-.190395	-.082083	-.018116	-.112621
23	-.182527	-.097311	-.019379	-.113146
24	-.195232	-.102395	-.032914	-.112951
25	-.197864	-.094295	-.052814	-.124908
26	-.188120	-.069805	-.086361	-.139805
27	-.168213	-.049349	-.121761	-.141904
28	-.131580	-.032542	-.135010	-.130793
29	-.093164	-.024530	-.110658	-.107821
30	-.059572	-.016282	-.057285	-.071177
31	-.031770	.010786	.031268	-.014073
32	-.011157	.028139	.072618	.032681
33	.016530	.022461	.067934	.059963
34	.041087	.018565	.068348	.069181
35	.052163	.023818	.051973	.062643
36	.059120	.027580	.037223	.044007
37	.070547	.025950	.018109	.024515
38	.069993	.023730	.024814	.001947
39	.054918	.021564	.040042	-.027284
40	.031786	.018455	.043524	-.046262
41	.023633	.010948	.011253	-.051384
42	.009779	.004493	.018583	-.051934
43	.003137	.004998	.026949	-.039001
44	.001985	.019433	.004102	-.019573
45	-.013829	.033515	-.015872	.007862
46	-.022526	.025783	-.008369	.017055
47	-.021587	-.000902	-.008671	-.003550
48	-.009747	-.026167	-.015686	-.019955
49	-.005964	-.023769	-.032129	-.020631
50	-.004896	-.014323	-.042309	-.013595
51	-.005184	-.004668	-.052787	-.000069
52	-.004957	.001477	-.023817	.020381
53	.002695	-.004593	.010285	.043576
54	.013215	-.000884	.045892	.065867
55	.014569	.012129	.066080	.081217
56	.002878	.010796	.061910	.087985
57	.008311	.007173	.039332	.086269
58	.009488	.005020	.037290	.072636
59	-.003675	.010213	-.001731	.044536
60	-.012982	.023701	-.055342	.013323

RUN NO. 81C 16M 11-02-62 0213-0318 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-02	10E-02	10E-03	10E-03	10E-03
0	-.001586	-.007609	.011092	-.002135	.004030	-.006024
1	-.005389	-.100495	.174808	.264179	-.159210	-.176198
2	-.049258	-.193037	.269040	.555289	-.314868	-.367267
3	-.105555	-.297992	.342295	.766994	-.371929	-.582769
4	-.108665	-.261822	.268164	.690679	-.320957	-.588330
5	-.111092	-.206761	.164905	.618218	-.307219	-.514138
6	-.106528	-.226015	.155574	.650673	-.304575	-.565814
7-8	-.045109	-.175766	.146440	.351881	-.121182	-.564221
9-11	.002056	-.118667	.083631	.082802	-.003986	-.482056
12-15	-.006913	-.073434	.041814	.054989	-.110058	-.241545
16-20	.023792	-.050981	.025568	-.058150	.009609	-.167971
21-27	.017371	-.019284	.016192	.029493	-.012433	-.103277
28-36	.004738	-.011652	.005092	.054911	.004035	-.063844
37-47	.006752	-.007172	.003777	-.001654	-.009449	-.042713
48-60	.001793	-.004440	.001131	.008595	.001977	-.022188

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-02	10E-03	10E-02	10E-03	10E-03
1	-.212126	.055678	.862305	-.014607	-.035489	-.190809
2	.281289	.097393	.873794	-.055964	.015619	-.254390
3	.198692	.111916	.541619	-.121895	.106515	-.208998
4	.073835	.059543	.278630	-.087712	-.055552	-.187161
5	.391554	.024289	.260098	-.016801	-.212374	-.205616
6	.224910	.012761	.372845	-.020302	-.229522	-.190682
7-8	-.170222	-.009910	.395615	-.008388	-.277415	-.108382
9-11	.111750	.003871	.023385	.010100	-.067988	-.109616
12-15	.070864	.001742	.061436	-.004389	-.005158	-.111914
16-20	-.061730	.002643	.066297	-.006302	.001872	-.071246
21-27	-.089486	-.008253	.040788	.003359	.012006	-.020652
28-36	-.045628	-.001932	.018583	-.001161	-.010504	-.010376
37-47	.037124	.000946	.007320	-.001773	.003514	-.007781
48-60	-.010874	.000155	-.006562	.000810	.000076	-.000138

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.007074	.017804	.005053	.004552
1	.102114	.296462	.075353	.069699
2	.159277	.523919	.136341	.104550
3	.201895	.774381	.202699	.132949
4	.151507	.730705	.179709	.114376
5	.093919	.577940	.153500	.082298
6	.091646	.517220	.194340	.077762
7-8	.078931	.433894	.172170	.069289
9-11	.046758	.322475	.154194	.048884
12-15	.028262	.287143	.121633	.027570
16-20	.020231	.156787	.094007	.017944
21-27	.013951	.131323	.061257	.011318
28-36	.008138	.082266	.044403	.007237
37-47	.005841	.051835	.032742	.004422
48-60	.003775	.026479	.022393	.002223

RUN NO. 81C .16M 11-02-62 0213-0318 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

K	U,V	U,W	U,T	V,W	V,T	W,T
	0.81448 10E-01	0.27693 10E-01	0.21154 10E-01	0.17538 10E-01	0.13396 10E-01	0.72110 10E-02
0	-.062041	-.482467	.630099	.109941	-.092532	-.345879
1	.009498	-.115806	.180440	-.070353	.020612	.000733
2	-.022986	-.112666	.007648	-.013881	-.000385	-.079060
3	-.007206	-.057810	-.007321	-.050270	.038053	-.016283
4	.001180	-.081750	-.023776	.027623	.046055	-.028793
5	-.008204	.022692	-.040471	.025171	-.029336	-.019218
6	-.025939	.018747	.021536	.034933	-.037482	-.002150
7	.061847	.068408	-.000913	.030445	.019331	.070551
8	-.120148	.070465	-.034271	.052063	-.002732	.077639
9	-.035701	.126392	-.102190	-.037332	-.051302	.080177
10	.016273	.115565	-.187543	-.024177	.001644	.091962
11	.01[illegible]87	.142531	-.147438	-.013234	-.024157	.035698
12	-.001463	.099625	-.156793	.079911	.008692	.009569
13	-.007530	.118303	-.071376	.079933	-.004763	.083822
14	-.016581	.110107	.013029	-.041366	-.014343	-.009345
15	.060875	.071959	.023671	-.029467	-.000760	.029450
16	.039463	.020225	-.041670	-.056509	.050724	.043317
17	-.029397	-.000425	-.018227	-.030919	-.012005	-.020921
18	.053270	-.011244	.034914	-.075865	-.011338	.014424
19	.105446	-.084701	.056532	-.071442	.066517	-.083060
20	.095204	-.071316	.050267	-.056793	.054167	-.067349
21	-.016989	-.091902	.087691	.081026	-.002093	-.086864
22	.043448	-.071230	.125180	-.049623	.008029	-.046401
23	-.053233	-.068792	.055021	.014802	-.050440	-.046076
24	-.063561	-.098592	.026309	.082793	-.048391	-.035322
25	.035584	-.057526	-.026466	.010311	.038159	-.006877
26	-.016029	-.043103	.004259	-.037311	.033762	-.000062
27	-.016955	.045445	.003245	-.051545	.022317	.136048
28	-.032123	-.028705	-.009816	.077015	-.078761	-.056035
29	.025997	-.067117	-.013745	-.005709	.035596	.029827
30	-.007559	-.004527	-.001177	-.001806	-.008685	.021918

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-03	10E-02	10E-02	10E-03	10E-03	10E-03
0	-.077426	-.001618	.002470	-.001608	-.005683	-.005087
1	-.750592	-.070523	.044715	.106700	-.045552	-.067689
2	-.413495	-.161042	.102363	.026218	.004919	-.192619
3	.300757	-.196698	.140783	-.200384	.083527	-.287608
4	.236118	-.090863	.079399	-.165716	.042962	-.159978
5	-.200264	-.034514	.031373	.027192	-.050011	-.074680
6	-.087020	-.040345	.034320	-.097800	-.046882	-.046355
7	-.296882	-.036766	.062076	-.174002	-.074141	.016615
8	-.404373	-.030912	.104610	.067234	-.106187	-.009283
9-11	.150921	-.034702	.067927	.211270	-.098785	-.088995
12-14	-.253351	-.035783	.048313	.055992	-.094136	-.070284
15-21	-.004944	-.046618	.052243	.089511	-.005865	-.085341
22-30	-.344125	-.062665	.040831	.262417	-.116848	-.185553

RUN NO. 81C 16M 11-02-62 0213-0318 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
	0.51448 10E-01	0.27693 10E-01	0.21154 10E-01	0.17538 10E-01	0.13396 10E-01	0.72110 10E-02
1	-.025831	.049681	.116427	-.128643	.012092	-.064211
2	-.028602	.092216	.077134	-.025725	-.030090	-.070056
3	-.034922	.058447	.062487	.050595	-.016768	-.027142
4	-.042551	-.020264	-.033931	-.094366	-.009513	.034290
5	-.012326	.008657	-.039136	-.053777	.021681	.017077
6	.084929	-.017823	.005375	.046508	-.084879	-.054170
7	-.081358	-.049585	-.027560	-.030411	.057918	.000434
8	.005026	-.026635	.078133	.049618	-.041666	-.052958
9	.049196	.026113	.073219	.058371	-.043918	.031439
10	-.057959	.043362	.036754	.002224	-.000920	-.039660
11	.053720	.040233	.005354	-.060011	-.075694	-.033217
12	.027175	-.044261	.066928	.054631	-.087076	-.002903
13	-.021752	-.059459	.017713	-.080649	.055739	.023405
14	-.011722	-.052020	.027230	.028158	-.035895	.009652
15	.056387	-.067167	-.022358	.069358	-.027304	.030544
16	.036222	.002853	-.029557	.091913	.011304	.002733
17	.032301	-.002178	.016336	.014918	-.069848	-.040779
18	.024219	.071036	-.029362	.016900	.011704	.007161
19	-.071688	.053137	.026684	-.025176	.055127	.011472
20	-.058096	-.007173	.000122	-.017260	.078507	.041782
21	-.034008	.075169	-.024070	-.020746	.092557	-.017614
22	-.036622	.021249	-.014222	.032757	.040718	-.051947
23	-.078854	.021190	-.038339	-.001255	.058137	-.044874
24	.018188	-.007607	-.020274	-.045013	-.083105	-.075279
25	-.017006	.022391	.034264	-.073349	.068545	-.053405
26	-.027962	-.044863	-.013810	-.027459	.002733	.065993
27	-.017987	-.035672	.018124	.013668	-.021287	.057421
28	-.004668	.024435	.034359	.010907	-.006312	.031983
29	-.014669	-.007253	-.034075	-.063276	-.039143	.064992
30	-.018862	-.028804	-.026058	-.041073	-.002032	.082023

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-04
1	.006511	-.054929	.375944	.088570	-.199430	-.640670
2	-.002998	-.036576	.293399	-.049566	-.190104	-.504178
3	-.501462	.249167	.099485	-.194465	-.000815	-.633851
4	-.432128	.304641	-.058752	-.138142	.082362	-.240238
5	-.091193	.041975	.023248	-.146693	-.038626	-.029077
6	-.405066	.266367	.234822	-.277589	-.023996	-.325678
7	-.431704	.692191	.431585	-.219510	-.039630	-.503533
8	-.087821	.602764	.437245	.060750	-.094972	-.904450
9-11	-.237552	.055576	.372713	-.016149	.028881	-.767009
12-14	.265035	.217727	.065989	-.177865	-.022955	-.671299
15-21	-.257413	-.127548	.036323	-.314363	.086304	.220830
22-30	.096757	.05[illegible]463	.122949	.042655	.032969	-.026877

RUN NO. 81C 16M 11-02-62 0213-0318 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.81239 10E-01	0.32582 10E-01	0.94403 10E-02	0.55081 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.285807	-.016062	.101597	.179916
2	.012026	-.068107	.074440	-.005603
3	-.033868	.040850	.006767	.008894
4	-.041856	.012098	.101721	-.099670
5	-.053183	-.087478	-.080220	-.029928
6	-.000595	.087952	-.030172	.021880
7	.023946	-.027818	.000589	-.022311
8	-.020739	-.069620	-.085496	-.001622
9	-.108039	.084136	-.140182	-.031758
10	-.185302	.055676	-.124973	-.192871
11	-.188008	-.065773	-.135183	-.122356
12	-.225073	-.072710	-.098528	-.117680
13	-.157088	.013872	-.185030	-.089806
14	-.055428	-.112168	-.131042	.011019
15	-.014676	-.006241	-.076056	.005623
16	.020710	.010960	-.031372	-.076389
17	.019770	-.035937	-.011120	.031305
18	.094837	.035804	-.089140	-.018556
19	.060857	.056417	.098884	-.002691
20	.035433	-.001592	.046713	-.004050
21	.053110	.011616	.120641	.014129
22	.114725	-.073088	-.008688	.076263
23	.104093	-.069550	.107310	.042660
24	.057238	-.014173	.092816	.049833
25	.012108	.057893	.083508	-.036773
26	.008294	-.058194	.087032	.084520
27	.017651	.037323	-.067089	.048944
28	.002797	.059499	.127705	-.031545
29	.070208	-.003699	.037531	-.063222
30	-.069880	-.113710	.004343	.052933

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.045352	.037356	.005099	.032605
1	.342697	.152891	.399345	.239644
2	.586245	.113392	.739907	.321158
3	.752826	.107630	.779044	.369780
4	.422581	.085407	.375052	.259838
5	.188428	.081356	.265114	.181356
6	.303712	.125996	.349008	.191294
7	.527384	.139416	.340117	.283579
8	.601249	.101402	.303296	.361744
9-11	.392272	.105044	.342306	.248472
12-14	.300518	.143154	.280881	.202151
15-21	.300004	.184305	.422337	.231205
22-30	.264284	.175587	.504302	.227743

RUN NO. 81C 40M 11-02-62 0213-0318 EST

GROSS STATISTICS

CLEAR	WIND SPEED 6.44 M/SEC		WIND DIRECTION 330 DEG
STABLE	SIGMA A 4.0 DEG		SOLAR RADIATION 0
LAND	SIGMA E 1.2 DEG		NET RADIATION -0.16

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.38243E-00	0.71427E-01	0.59337E-01	0.33330E-01
V	0.20850E-00	0.30960E-01	0.27708E-01	0.81387E-02
W	0.16491E-01	0.16411E-01	0.15113E-01	0.42636E-02
T	0.10486E-00	0.22271E-01	0.19932E-01	0.10760E-01
E	0.30371E-00	0.59406E-01	0.51079E-01	
GUSTINESS RATIOS				
U	0.09603	0.04150	0.03782	0.02835
V	0.07090	0.02732	0.02585	0.01401
W	0.01994	0.01989	0.01909	0.01014
COVARIANCES				
U,V	-0.16743E-00	0.33550E-02	0.38242E-02	0.16805E-02
U,W	0.31204E-02	-0.12507E-01	-0.11433E-01	-0.45535E-02
U,T	0.15395E-00	0.24162E-01	0.20296E-01	0.13282E-01
V,W	-0.13697E-01	-0.16956E-02	-0.16934E-02	-0.82106E-03
V,T	-0.89477E-01	0.82723E-03	0.10878E-02	0.61397E-04
W,T	0.13620E-02	-0.58958E-02	-0.58708E-02	-0.20371E-02
WE	0.78342E-02	0.23191E-02	0.21221E-02	
NORMALIZED COVARIANCES				
U,V	-0.59293	0.07134	0.09431	0.10203
U,W	0.03929	-0.36530	-0.38179	-0.38198
U,T	0.76876	0.60580	0.59014	0.70137
V,W	-0.23358	-0.07523	-0.08275	-0.13938
V,T	-0.60514	0.03150	0.04629	0.00656
W,T	0.03275	-0.30839	-0.33825	-0.30076

RUN NO. 81C 40M 11-02-62 0213-0318 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.40543 10E-01	0.29941 10E-01	0.34394 10E-01	0.20460 10E-01	0.23503 10E-01	0.17357 10E-01
0	.093947	-.381639	.590004	-.082555	.045913	-.338154
1	.091982	-.255264	.497926	-.071585	.046425	-.221485
2	.084408	-.127900	.360889	-.079888	.041439	-.104195
3	.070966	-.061993	.259699	-.054691	.027990	-.064374
4	.039600	-.023170	.184298	-.017873	.004390	-.054252
5	.019739	-.000955	.120365	.006252	-.012461	-.028932
6	.024519	.030628	.050979	-.001155	-.018539	.010220
7	.015366	.035678	-.005362	.002371	-.026099	.037086
8	.001049	.020651	-.040685	.010563	-.017188	.040300
9	-.003623	.016764	-.060094	.003041	-.009889	.048642
10	-.005619	.023424	-.083313	.019755	.003356	.068529
11	.000723	.039779	-.113489	.032225	.019593	.087430
12	.001953	.035942	-.125943	.017962	.030649	.072636
13	.011304	.028019	-.113174	-.000808	.028670	.035943
14	.009965	.041416	-.093666	-.005148	.024871	.027816
15	.005635	.061512	-.086732	-.010693	.027919	.037384
16	-.001962	.064375	-.075794	.003602	.014296	.034384
17	-.016311	.054884	-.079368	.021210	.002946	.029927
18	-.044399	.063556	-.095363	.049007	-.005691	.041123
19	-.062859	.052891	-.107362	.051885	-.008481	.048030
20	-.069339	.045695	-.121654	.043774	-.023798	.056841
21	-.065799	.051909	-.126312	.010724	-.029814	.058691
22	-.056324	.038288	-.122105	-.006871	-.036002	.055601
23	-.049041	.029144	-.113432	.008581	-.037355	.038236
24	-.044175	.005496	-.101846	.036989	-.041929	.016737
25	-.048555	.002210	-.096529	.053527	-.056956	.004480
26	-.059119	.015499	-.097120	.059957	-.069039	-.002450
27	-.052338	.026677	-.103934	.027382	-.063194	.001166
28	-.034135	.034765	-.106303	-.024090	-.049988	.019490
29	-.023981	.039656	-.096132	-.032709	-.044413	.025336
30	-.028846	.030475	-.072117	-.014001	-.035223	.013068
31	-.020764	.021734	-.043816	-.005430	-.020226	-.001649
32	-.020506	.020667	-.018781	.025086	-.010852	-.008941
33	-.015083	.012724	.006556	.062160	.001809	-.014192
34	-.017076	-.006606	.021697	.075097	.011332	-.020752
35	-.026130	-.011681	.029718	.057733	.009223	-.020228
36	-.026308	-.017161	.042151	.007380	.008792	-.034179
37	-.012764	-.024287	.049442	-.028886	.015745	-.042034
38	.000733	-.024437	.046047	-.022848	.019950	-.041338
39	.013314	-.018252	.042158	-.037535	.029242	-.032821
40	.030025	-.016856	.041065	-.037761	.034056	-.029649
41	.042056	-.004690	.025562	-.029567	.025881	-.014268
42	.045505	.004590	.006266	-.031237	.027684	-.001382
43	.047596	.010608	-.008206	-.018225	.031186	.004533
44	.034186	-.004391	-.013068	-.010599	.036989	-.002231
45	.020236	-.026674	-.002973	-.010321	.037864	-.012075
46	.027239	-.036343	.013745	-.019235	.040025	-.010985
47	.038880	-.037007	.026974	-.022019	.041133	-.001889
48	.049255	-.025316	.039322	-.046560	.044440	-.007819
49	.042379	-.028086	.050479	-.052608	.041285	-.019794
50	.031083	-.037998	.057806	-.017523	.023595	-.029098
51	.029885	-.045499	.065207	-.008480	.003812	-.029432
52	.031012	-.052233	.069206	-.014202	-.004797	-.031071
53	.038552	-.041069	.059520	-.037961	-.000048	-.032513
54	.039279	-.032192	.045364	-.024845	.019966	-.020654
55	.029734	-.014899	.027021	-.003995	.029146	.000279
56	.023981	-.012821	.010924	.001702	.020097	.005099
57	.019306	-.010064	.002381	.027823	.009060	.002185
58	-.006303	-.004555	-.004828	.049206	-.014076	-.008645
59	-.021683	-.000851	-.011984	.029846	-.028150	-.005648
60	-.026749	.019459	-.018342	.004867	-.029915	.008533

RUN NO. 81C 40M 11-02-62 0213-0318 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.40543 10E-01	0.29941 10E-01	0.34394 10E-01	0.20460 10E-01	0.23503 10E-01	0.17357 10E-01
1	.001902	-.004102	.042534	-.002694	-.020550	.051826
2	.000041	-.011688	.062737	.006516	-.023616	.076882
3	-.009697	-.022210	.077676	-.008049	-.024566	.091795
4	.000837	-.034398	.091337	-.018824	-.022723	.099986
5	.004928	-.044774	.102222	-.013286	-.026358	.087457
6	.009205	-.057586	.107922	-.012853	-.014328	.074722
7	.007395	-.059039	.103768	-.005933	.000785	.064285
8	.001172	-.049001	.092110	.014549	.008422	.049081
9	-.017387	-.044873	.079138	.031900	.010634	.043152
10	-.043949	-.037098	.078651	.005390	.017229	.042643
11	-.064502	-.018704	.062506	-.024677	.028590	.038385
12	-.046056	.001472	.044766	-.027498	.027527	.036876
13	-.027539	.011900	.037375	-.018297	.026101	.031239
14	-.014069	.013643	.040011	-.023938	.022075	.024248
15	-.008287	.008144	.048994	-.033950	.014822	.007465
16	-.020298	.011953	.049438	-.053424	.022244	-.012741
17	-.030007	.011565	.041735	-.041517	.031353	-.021043
18	-.020882	.007504	.036216	-.033255	.043844	-.026426
19	-.011907	-.001619	.032053	-.025906	.037562	-.027951
20	-.008437	-.004309	.026927	-.033555	.026874	-.028455
21	-.005824	.016517	.013793	-.032053	.020860	-.033499
22	.007379	.035628	.002711	-.016572	.013452	-.028933
23	.011520	.027319	-.001264	-.008592	.011239	-.022530
24	.013486	.009203	.000966	.011498	.012132	-.007607
25	.010178	.013392	-.006688	.015142	.008912	.005487
26	-.002664	.013829	-.020187	.018697	-.004660	.001713
27	-.019316	.016673	-.035007	.017830	-.013506	-.011806
28	-.033069	.020095	-.046170	.015733	-.011896	-.020944
29	-.047888	-.003326	-.051073	-.004635	-.005203	-.018342
30	-.047752	-.021977	-.043854	-.022467	.005784	-.006152
31	-.040383	-.037767	-.033326	-.033302	.011171	.001064
32	-.034389	-.037603	-.026808	-.018614	.005454	-.005994
33	-.013088	-.027867	-.021076	.015128	-.000045	-.009702
34	.006392	-.013202	-.022992	.038832	-.001307	-.012650
35	.032322	-.005898	-.026712	.048804	-.006976	-.005230
36	.048251	-.009561	-.027131	.038580	-.011269	.009455
37	.045141	-.021736	-.024021	.028331	-.018867	.025892
38	.041125	-.014244	-.029235	.034883	-.038296	.018629
39	.036307	-.002827	-.032460	.036921	-.048971	.010871
40	.025643	-.004704	-.029208	.024292	-.057019	.008344
41	.017951	-.017068	-.022501	.018687	-.055061	.005225
42	.010588	-.026783	-.024360	.012033	-.042365	.018251
43	.018773	-.029906	-.027004	.030297	-.022277	.011550
44	.018187	-.038106	-.021722	.028262	-.002577	.003935
45	.016553	-.027359	-.011598	.013548	.008176	.002499
46	.019037	-.006541	-.003038	.005326	.006334	.002669
47	.006441	.007731	.000536	-.015703	.010776	.003157
48	.003953	.034132	.003938	-.022466	.012524	-.009761
49	.003407	.047590	.009546	-.031995	.002559	-.017457
50	-.010384	.046769	.005996	-.028124	-.007405	-.010354
51	.001733	.046284	-.005835	-.015249	-.018910	-.009627
52	.001857	.037564	-.010772	-.027717	-.025406	-.003482
53	-.005012	.023214	-.006014	-.026890	-.016622	-.005035
54	-.007519	.012652	.002303	-.012495	-.002584	.001588
55	-.007486	-.005747	.007430	-.002062	.010340	.011039
56	-.013869	.004845	.010855	-.008677	.025028	.002025
57	-.024132	.021834	.005635	-.022542	.038905	.005220
58	-.024645	.030460	.008923	-.017895	.038565	-.001493
59	-.013177	.024024	.008978	.004326	.035375	-.016886
60	.010868	.014852	.010214	.007036	.019846	-.026821

RUN NO. 81C 40M 11-02-62 0213-0318 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.59330 10E-01	0.27705 10E-01	0.15109 10E-01	0.19938 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.756991	.579603	.496343	.795573
2	.500122	.223935	.168864	.535880
3	.327935	.062496	.059880	.363179
4	.192094	-.014529	.023311	.244250
5	.090290	-.039975	-.002589	.136976
6	.005998	-.037161	-.025334	.033557
7	-.048422	-.025651	-.029995	-.038755
8	-.065269	-.041425	-.013810	-.079592
9	-.071997	-.059182	-.017361	-.108490
10	-.086635	-.076580	-.036470	-.138815
11	-.116683	-.074111	-.067664	-.171083
12	-.137725	-.061570	-.049106	-.180999
13	-.136570	-.068358	-.016596	-.168372
14	-.129088	-.100426	-.065424	-.156583
15	-.122295	-.088474	-.121853	-.148215
16	-.116598	-.076860	-.154019	-.146142
17	-.125009	-.084264	-.125269	-.150002
18	-.144253	-.094367	-.124511	-.160625
19	-.158812	-.103441	-.115291	-.164304
20	-.169834	-.088633	-.091647	-.158426
21	-.172567	-.084333	-.100025	-.157146
22	-.160456	-.085242	-.094218	-.154503
23	-.151052	-.068947	-.080386	-.145259
24	-.150400	-.017026	-.048366	-.134156
25	-.152130	.001370	-.034120	-.130468
26	-.147984	-.026456	-.036782	-.134262
27	-.143665	-.068482	-.063305	-.139153
28	-.125047	-.073519	-.091781	-.140244
29	-.098228	-.049884	-.095040	-.120986
30	-.070935	-.013271	-.055932	-.077983
31	-.030184	.009489	-.006418	-.031266
32	.002816	.001001	.001411	.005903
33	.024773	-.006070	-.004609	.037533
34	.038464	-.021126	.011301	.054081
35	.041942	-.039376	.005630	.061367
36	.051856	-.045955	.027408	.065603
37	.056966	-.034425	.041059	.056806
38	.046371	-.019451	.036327	.042160
39	.038532	.001074	.045183	.033784
40	.034116	.026388	.027689	.037376
41	.022626	.036804	.025602	.021292
42	.006051	.034631	.016457	.000959
43	.003415	.022992	.012094	-.005120
44	.009217	.042126	.043997	.005073
45	.018277	.052969	.065618	.020829
46	.033827	.036722	.083482	.030287
47	.043190	-.010678	.053220	.041581
48	.040602	-.022811	.018202	.056764
49	.036281	-.000984	.028865	.061163
50	.025329	.016579	.051733	.056842
51	.028224	.020543	.058594	.060963
52	.042456	.025770	.027365	.066728
53	.041345	.053020	.016830	.062265
54	.041764	.083256	.009757	.050173
55	.037453	.094791	-.022214	.033696
56	.025273	.082545	-.001834	.019746
57	.023043	.064069	.029185	.008177
58	.015568	.062025	.025186	-.005172
59	.009604	.042410	.021912	-.018605
60	-.019822	.013152	-.000933	-.019193

RUN NO. 81C 40M 11-02-62 0213-0318 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-02	10E-02	10E-03	10E-03	10E-03
0	-.011303	.000034	.009736	.011809	-.016410	.002670
1	.438217	-.031847	.144975	-.083843	.051038	-.087664
2	.959893	-.073958	.242383	-.267132	.270695	-.319544
3	.946517	-.102218	.303539	-.306596	.231202	-.573564
4	.282564	-.086763	.227967	-.163919	-.138873	-.537260
5	.083283	-.071288	.162178	-.155896	-.147751	-.409028
6	.139554	-.061391	.164590	-.138503	.114570	-.390620
7-8	.340173	-.047838	.128326	-.142909	.243155	-.339267
9-11	.190937	-.057127	.056944	-.087910	.142038	-.183824
12-15	.004319	-.035041	.038165	-.007164	.000127	-.118804
16-20	.022838	-.022637	.019450	-.026762	-.013448	-.122105
21-27	-.041156	-.017519	.019601	.027746	-.011927	-.114387
28-36	-.004663	-.012415	.007758	.020600	-.007623	-.077106
37-47	.019828	-.007370	.004411	-.017674	.006844	-.038165
48-60	-.008923	-.004962	.002057	-.017592	-.003847	-.021974

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	-.398470	-.147054	.052544	-.132513	.165486	.091735
2	-.407524	-.088342	.096507	-.212032	.229769	.164886
3	-.171998	-.242780	.112625	-.123472	.078549	.329686
4	-.027574	-.464727	.070954	.087691	-.133339	.406058
5	-.118115	-.354306	.041341	.095279	-.141005	.323999
6	.155219	-.192418	.036617	.081929	-.162396	.229806
7-8	.294575	-.113595	.037567	-.036999	-.087379	.114177
9-11	.024322	.082921	.008373	-.059642	-.095207	.133176
12-15	-.176960	.042676	-.000550	.002351	-.006147	.058595
16-20	.064674	-.000589	.003497	.048491	-.018048	.014120
21-27	-.006643	-.007405	.003982	-.020360	-.006972	.006538
28-36	.029642	.018528	.000392	.008486	-.012247	.008136
37-47	-.008041	-.007194	.000938	-.018814	-.001005	.009171
48-60	-.017030	.001824	.000275	-.000394	-.007848	-.001347

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-02	10E-02
0	.024026	.003390	.000899	.007651
1	.340911	.079310	.037270	.113863
2	.563139	.137590	.078845	.195986
3	.721179	.179004	.107270	.260184
4	.552624	.163578	.082712	.211958
5	.382983	.143375	.060302	.155357
6	.385849	.122753	.052778	.148434
7-8	.357352	.113702	.047252	.120388
9-11	.223638	.112438	.059969	.067604
12-15	.147928	.094212	.042681	.041046
16-20	.073147	.076160	.040328	.025798
21-27	.066865	.046304	.029907	.021578
28-36	.040096	.039253	.025492	.012465
37-47	.030437	.026684	.018703	.006316
48-60	.018135	.017816	.014088	.003910

RUN NO. 81C 40M 11-02-62 0213-0318 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
	0.16462 10E-01	0.11909 10E-01	0.18924 10E-01	0.58868 10E-02	0.93545 10E-02	0.67673 10E-02
0	.102084	-.382352	.701857	-.139475	.006563	-.301023
1	-.045032	.050794	.156791	.051284	-.020222	.106361
2	-.118246	.058615	.012490	.026984	-.033402	.052268
3	-.123293	-.011150	.021483	.040893	-.104298	-.014733
4	.022141	.037369	-.073672	-.076577	.088757	.012651
5	.017894	-.100608	.014434	-.089401	.012995	-.081553
6	-.016571	.048176	-.062674	-.009334	-.013043	.043219
7	.005024	.047260	-.107100	-.029539	.007319	.057516
8	-.011995	.036399	-.043687	.047899	-.017057	-.018943
9	.090966	-.029873	-.010152	-.069950	.071603	-.009171
10	.087052	.060224	-.080287	.062224	.051473	.031701
11	-.046476	.046533	-.057313	.106818	.008235	-.026914
12	.058159	-.011151	-.010459	-.066438	.078414	.001985
13	.014355	-.021235	-.024841	-.073762	-.009824	-.101801
14	-.036094	.088788	-.065569	-.024801	-.056953	.029296
15	.034038	.156721	-.010674	.060685	.074143	.120177
16	.021995	.018043	.105671	.073499	-.019786	.010618
17	.053300	-.001452	.050878	-.007495	.080511	-.015068
18	.014809	-.098262	.089778	.003943	-.031063	-.037381
19	-.019863	-.030660	.053428	.012132	-.049322	-.007330
20	.034735	.059861	-.039553	-.008571	.024646	.077766
21	-.052724	-.068013	.089049	-.022632	-.017185	-.116652
22	-.106868	-.004844	-.131585	.018688	-.087604	-.024625
23	.069781	-.067044	-.151421	-.122563	.032863	.032583
24	-.021692	-.053505	-.008065	.031698	-.037348	-.044577
25	.058395	.061711	-.148703	-.007134	-.011241	.110753
26	.123031	-.061534	-.093142	-.099766	.114072	-.038329
27	-.044952	-.023369	.027378	.124125	-.028059	.017707
28	.074471	-.010640	.021676	.004290	.024251	.003779
29	.018447	-.055604	.083583	-.030718	-.053633	-.056673
30	-.103458	-.043676	.035044	-.025877	-.071385	.018524

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-03
0	-.021399	.030400	.121785	-.017924	.021212	-.000680
1	-.242345	-.012714	.611757	-.056834	.003071	-.005596
2	-.295768	-.183831	.605569	-.036496	-.094389	-.012227
3	-.301429	-.198354	.992858	-.005098	-.130134	-.013574
4	-.147658	-.043373	.995891	.032923	-.056105	-.007191
5	-.045166	-.058328	.577203	.031279	-.015080	-.039121
6	.071351	-.149187	.670024	.064284	.003463	-.043862
7	.203331	-.083279	.738781	.079064	.019985	.025400
8	.079905	.011360	.505771	.003689	-.040733	.034652
9-11	.155909	-.207087	.535758	-.056276	.028615	-.068978
12-14	.388737	-.303576	.577945	-.117740	.117265	-.141017
15-21	.105850	-.196467	.466391	-.031296	-.002843	-.094830
22-30	.073005	-.337864	.549828	-.069473	-.003702	-.207242

RUN NO. 81C 40M 11-02-62 0213-0318 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
	0.16462 10E-01	0.11909 10E-01	0.18924 10E-01	0.58868 10E-02	0.93545 10E-02	0.67673 10E-02
1	-.064274	-.050449	.093072	-.036890	-.006164	.116794
2	-.081805	-.008889	.066383	-.119968	.071647	-.018432
3	-.051923	-.017316	.006176	-.066714	-.026332	-.012974
4	-.010540	-.035834	-.026548	-.016980	-.042493	.001409
5	-.035899	.098647	.026840	-.066684	-.062129	-.035588
6	-.019096	.034300	.042932	-.047353	.022842	-.022375
7	-.013445	.043184	.018659	-.053111	-.041374	-.023563
8	-.016161	.041100	.017300	-.004101	-.064598	.045776
9	-.065538	-.046872	.017035	-.025179	.075642	.041589
10	-.105907	-.064317	-.025780	-.098095	.085052	.058403
11	-.067032	-.000408	.010641	-.000464	.035804	-.001745
12	-.047820	-.044941	.012955	-.021749	-.002736	.052425
13	.081808	-.057285	-.043412	.014114	-.014909	.042894
14	-.010372	.002393	-.031719	-.009461	-.041053	.019703
15	-.003139	-.001116	.034015	-.018491	.003748	-.026928
16	.016146	.064005	-.011665	.029631	.080759	-.027512
17	.100371	.054842	-.041471	.088899	-.076061	.031696
18	.090272	-.000491	-.021900	.068998	.001902	-.046354
19	.021409	-.024076	-.063423	.032572	-.035517	.008347
20	-.074932	.034161	-.034037	-.029879	.009399	-.064824
21	.024152	-.052583	.066625	-.022403	-.009841	-.005125
22	.048077	-.050343	-.026539	.081401	-.134459	.082498
23	.003799	.008245	.033107	-.016481	-.019752	-.070035
24	.058044	.024702	-.023330	.016234	-.029197	-.035231
25	-.053732	-.006756	.029878	.014474	.059974	.020944
26	-.076285	.021078	-.004905	-.011220	.095582	.028887
27	.027254	-.058862	-.029926	-.017848	-.003376	.131310
28	-.054072	-.059637	-.001274	-.078247	.039395	-.004234
29	-.006669	-.113384	.004115	-.015906	.040245	.061347
30	-.036076	-.046968	-.003818	-.048332	-.004684	.009355

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-04
1	-.278841	-.009633	.024700	-.107140	-.014299	.640405
2	-.377847	.017668	.168801	-.148852	.010298	.432714
3	-.283021	.071725	.231985	-.132481	-.061387	-.205406
4	.020274	.128152	.117053	-.050578	-.110706	-.755305
5	.027335	.022947	.076507	-.042967	-.043913	-.288556
6	-.200349	-.198394	.090265	-.076605	.018327	.397635
7	-.315000	-.235711	.044121	-.063575	.128145	.726064
8	-.225190	-.110446	.123834	-.034295	.155759	.684824
9-11	-.029310	-.037274	.210496	-.030077	.001534	.551632
12-14	-.180790	.021317	.243180	-.057469	.108321	.255568
15-21	.025242	-.075644	.041489	.030975	-.056272	.842815
22-30	-.010045	.030975	.044489	.021482	-.080593	.326951

RUN NO. 81C 40M 11-02-62 0213-0318 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.33303 10E-01	0.81373 10E-02	0.42587 10E-02	0.10754 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.260145	.072254	.012576	.104024
2	.041798	-.024203	-.071434	-.022670
3	.067979	.112955	-.038638	-.002979
4	-.058955	-.033150	.132836	-.102244
5	.000038	.105867	.165253	.029320
6	-.027397	.132680	-.109042	-.101595
7	-.099120	-.080356	-.041774	-.112094
8	-.057636	.030098	-.028284	-.004564
9	.028013	-.039523	.021433	-.034377
10	-.082979	.027218	-.210417	-.055270
11	-.115856	.044187	-.158826	-.002838
12	-.018844	-.175355	-.095092	-.106795
13	-.107896	-.091086	-.012660	-.004854
14	-.139848	.001956	-.115571	-.042788
15	-.026316	-.212895	-.273738	-.004248
16	.097304	.116096	-.111086	.109882
17	.051401	-.002493	.079335	.030586
18	.165190	-.095546	.030088	.071185
19	.095187	.089192	-.000853	.069029
20	.020615	-.108256	-.084211	-.127545
21	.049760	-.058914	.156360	.122531
22	-.205959	.128814	.007976	-.182268
23	-.186451	-.044217	.080534	-.140001
24	-.050927	-.027549	.048240	.069709
25	-.106475	.002459	.034076	-.183225
26	-.111014	-.137471	.282442	-.027028
27	-.012265	-.044180	.069268	.007458
28	.004921	.052813	.059932	-.013451
29	.082992	-.105515	.055380	.035634
30	-.006454	-.000419	.100806	.063614

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-03	10E-03	10E-03
0	.050164	.151108	.005678	.068171
1	.227771	.660220	.163886	.374207
2	.198390	.481970	.277851	.369552
3	.260442	.374394	.255008	.574607
4	.216337	.200975	.088259	.619231
5	.116207	.156494	.047450	.423291
6	.179733	.240986	.082932	.473807
7	.208074	.298154	.094937	.563724
8	.121879	.257124	.089678	.432342
9-11	.126176	.323911	.168205	.397973
12-14	.134000	.348952	.289399	.494034
15-21	.128216	.352273	.170564	.400875
22-30	.116278	.449236	.255611	.592151

RUN NO. 81C 16M 11-02-62 0213-0318 EST
RUN NO. 81C 40M 11-02-62 0213-0318 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	.367632	.250950	.381398	.165574
1	.221253	.230596	.189380	.275899
2	.086954	.315353	.195662	.188589
3	.179155	.368528	.204503	.294018
4	.122209	.431017	.135266	.385116
5	.037137	.354143	.229641	.286021
6	.040316	.180745	.244593	.031205
7-8	.085903	.100018	.251376	.069979
9-11	.132327	.068713	.340965	.201277
12-15	.119808	.122852	.149336	.096786
16-20	.121703	.102723	.094721	.138760
21-27	.067727	.114041	.198269	.081562
28-36	.136224	.091133	.131671	.079931
37-47	.128572	.087574	.054607	.127859
48-60	.135927	.153534	.133332	.154971

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	.823509	.855122	.477567	.179342
1	.509673	.692441	.382948	.271009
2	.351574	.207317	.569550	.301903
3	.376953	.277561	.483706	.404165
4	.359104	.333596	.339819	.359084
5	.293635	.231751	.419809	.280243
6	.580648	.311803	.282900	.336887
7	.659431	.225406	.216395	.315733
8	.689605	.048536	.129225	.413663
9-11	.367483	.392807	.421833	.319587
12-14	.327099	.500540	.378547	.356917
15-21	.286874	.441919	.227516	.366904
22-30	.149459	.351802	.372043	.367472

RUN NO. 82A 16M 11-02-62 0356-0511 EST

GROSS STATISTICS

CLEAR	WIND SPEED	3.68 M/SEC	WIND DIRECTION 330 DEG
STABLE	SIGMA A	5.6 DEG	SOLAR RADIATION 0
LAND	SIGMA E	2.5 DEG	NET RADIATION -0.15

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.44896E-00	0.12554E-00	0.10519E-00	0.63812E-01
V	0.12726E-00	0.58029E-01	0.53874E-01	0.18584E-01
W	0.23142E-01	0.23217E-01	0.21883E-01	0.55718E-02
T	0.48350E-01	0.11556E-01	0.97222E-02	0.62653E-02
E	0.29968E-00	0.10340E-00	0.90474E-01	
GUSTINESS RATIOS				
U	0.18208	0.09628	0.08813	0.06864
V	0.09694	0.06546	0.06307	0.03704
W	0.04134	0.04141	0.04020	0.02028
COVARIANCES				
U,V	0.73010E-03	0.18220E-02	0.24823E-02	-0.32016E-03
U,W	-0.10266E-01	-0.19751E-01	-0.17954E-01	-0.85461E-02
U,T	0.56253E-01	0.22318E-01	0.18065E-01	0.13515E-01
V,W	0.12147E-03	-0.29942E-03	-0.22191E-03	0.18059E-03
V,T	-0.31955E-01	0.97784E-03	0.87500E-03	0.11146E-03
W,T	-0.58622E-02	-0.62224E-02	-0.55826E-02	-0.23064E-02
WE	-0.15131E-02	0.40691E-03	0.10115E-03	
NORMALIZED COVARIANCES				
U,V	0.00305	0.02135	0.03297	-0.00930
U,W	-0.10072	-0.36584	-0.37420	-0.45323
U,T	0.38181	0.58595	0.56488	0.67592
V,W	0.00224	-0.00816	-0.00546	0.01775
V,T	-0.40738	0.03776	0.03823	0.01033
W,T	-0.17525	-0.37988	-0.38274	-0.39035

RUN NO. 82A 16M 11-02-62 0356-0511 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.75300 10E-01	0.47984 10E-01	0.31983 10E-01	0.34342 10E-01	0.22890 10E-01	0.14586 10E-01
0	.032935	-.374177	.564782	-.006342	.038468	-.382623
1	.023361	-.292084	.494102	-.003109	.027338	-.277345
2	.008772	-.180045	.374883	.017238	.008571	-.150154
3	-.010836	-.106205	.275072	.037244	-.010921	-.069797
4	-.019910	-.058920	.197543	.045678	-.022711	-.020777
5	-.019209	-.025107	.137427	.028680	-.023840	-.001100
6	-.006059	-.006527	.087169	.016975	-.019504	.011149
7	.014798	.010718	.044825	.005559	-.006766	.020629
8	.031064	.027996	.008799	-.010517	.009309	.030290
9	.029481	.035519	-.025452	-.014717	.017306	.043006
10	.023854	.034536	-.046483	-.015945	.017805	.037380
11	.015994	.038705	-.060793	-.021636	.016290	.029723
12	.012392	.041667	-.077941	-.026772	.022338	.028819
13	.005373	.052633	-.089478	-.021607	.019721	.030264
14	-.006634	.056914	-.096990	-.006277	.016983	.031372
15	-.009312	.058020	-.109305	.006598	.015075	.039507
16	-.015050	.061160	-.123779	.016803	.003376	.048788
17	-.020550	.063346	-.128295	.027224	-.014677	.053458
18	-.016678	.054589	-.122442	.033532	-.026645	.044006
19	-.015094	.034486	-.110721	.020236	-.018645	.020220
20	-.014313	.020001	-.100521	-.002461	-.006015	.002447
21	-.007872	.020749	-.100173	-.028379	-.005018	.001626
22	-.001342	.031930	-.105833	-.031244	-.006439	.012377
23	-.007155	.030436	-.112559	-.028674	-.009106	.025803
24	-.014286	.035250	-.123579	-.012195	-.014431	.041354
25	-.017023	.044368	-.128114	-.003603	-.017993	.047157
26	-.006782	.056143	-.131024	.000508	-.012320	.050411
27	.010839	.057605	-.136770	-.009186	-.000524	.052097
28	.021289	.044835	-.130144	-.014011	.009436	.045358
29	.020855	.023772	-.107320	-.020758	.017756	.027570
30	.014601	.016002	-.079083	-.024920	.014905	.002981
31	.015315	-.000140	-.052087	-.023738	.015725	-.006158
32	.016781	-.002322	-.037000	-.018819	.017424	-.003940
33	.012760	-.000084	-.028629	-.017738	.016104	-.000055
34	.005340	.007502	-.020315	-.019324	.009708	.003185
35	-.004581	.016623	-.013092	-.014623	-.003214	.006129
36	-.014128	.007426	-.004177	-.003370	-.016692	-.005142
37	-.022803	-.000738	.002876	.001364	-.025179	-.004625
38	-.022462	.001315	.004392	.005188	-.023422	.013664
39	-.004601	.001075	.005035	.007228	-.008475	.020005
40	.006403	-.001428	-.001860	.002116	.003766	.023346
41	.013306	-.001621	-.004558	-.010552	.011674	.022964
42	.015310	-.005395	.001563	-.016163	.013367	.014814
43	.005046	-.016625	.007944	-.005088	.007187	.000054
44	-.012560	-.023590	.015626	.014918	-.002521	-.015463
45	-.020309	-.013625	.021993	.027110	-.000509	-.014065
46	-.021817	.007532	.028055	.023612	.001530	-.008535
47	-.023901	.021287	.028449	.015987	-.003993	-.003021
48	-.029526	.031732	.026853	.020057	-.014020	.010728
49	-.028209	.032919	.025516	.031850	-.024768	.008101
50	-.023748	.015130	.030004	.035122	-.025830	-.011146
51	-.024042	-.010830	.038977	.026781	-.028634	-.035093
52	-.017420	-.022004	.040403	.003260	-.031495	-.042466
53	-.006623	-.013976	.034250	-.014432	-.027369	-.042130
54	.006599	.008334	.031515	-.018913	-.017965	-.022599
55	.009493	.013928	.038301	-.003138	-.008032	-.003123
56	.006917	.001533	.044877	.008689	-.001737	.006797
57	.002628	-.014120	.051591	.002207	.000299	.006493
58	-.005380	-.016962	.048303	.005693	-.004801	.010226
59	-.012077	-.013920	.033587	.020745	-.006533	.015631
60	-.005214	-.013113	.020145	.032093	.002714	.014945

RUN NO. 82A 16M 11-02-62 0356-0511 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.75300 10E-01	0.47984 10E-01	0.31983 10E-01	0.34342 10E-01	0.22890 10E-01	0.14586 10E-01
1	-.009755	-.011952	.044523	-.010876	.016129	-.045958
2	-.013826	-.009957	.062659	-.022323	.034457	-.050884
3	-.015495	-.014449	.067583	-.022123	.028282	-.040258
4	-.012394	-.016690	.072402	-.011655	.014409	-.037859
5	-.012126	-.004013	.074757	-.004817	.013275	-.041782
6	-.023569	.008918	.077163	-.005670	.027314	-.051277
7	-.031211	.021844	.074823	-.003557	.044458	-.051242
8	-.032379	.019569	.068388	.004120	.062268	-.047365
9	-.026197	.013529	.064620	.013698	.076680	-.045135
10	-.023535	.011084	.058656	.018269	.070585	-.043751
11	-.024979	.005488	.049986	.009395	.063945	-.035045
12	-.032496	.004191	.038730	-.008963	.064509	-.023462
13	-.046207	-.005704	.031383	-.011970	.057913	-.022300
14	-.042674	-.007299	.027898	.006231	.037401	-.018561
15	-.037962	-.012260	.027577	.011218	.017341	-.011221
16	-.029378	-.018602	.030155	.004586	.014521	-.003320
17	-.015807	-.019645	.024417	-.007509	.013712	.009025
18	-.005935	-.012174	.019542	-.007497	.012728	.009744
19	-.003029	.000968	.015665	-.006731	.009384	.007588
20	-.005519	.007888	.010463	-.008410	.006325	.006390
21	-.004053	.011117	.007037	.000780	-.004891	.005103
22	-.001418	.012336	.009568	.009176	-.014006	.003061
23	.006982	.001272	.012063	.006851	-.020973	.004559
24	.012210	-.008320	.014679	-.003294	-.024392	.010585
25	.008239	-.013208	.014461	-.008900	-.027066	.019839
26	.019598	-.013308	.009511	-.002232	-.027625	.025181
27	.022001	-.016747	.000755	.004331	-.036052	.031553
28	.016509	-.014855	-.008245	.010181	-.031721	.034297
29	.015104	-.013216	-.020887	.006325	-.013544	.034237
30	.008252	-.013509	-.031244	-.003927	-.002578	.033987
31	.009238	-.008982	-.034223	-.010742	.000170	.033073
32	.015819	-.006989	-.035187	-.018219	.004951	.027110
33	.023803	-.006738	-.031749	-.015904	.006017	.016504
34	.021323	-.000364	-.027459	-.006795	.009693	.000775
35	.009163	.008732	-.024838	.002394	.009755	.001208
36	.013623	.005056	-.018538	.008008	.003067	.005589
37	.011634	-.002637	-.011258	-.000785	-.007144	.003776
38	.009943	.006014	-.004887	-.021305	-.023960	-.008169
39	.005037	.009669	-.004689	-.023962	-.031637	-.008467
40	.004145	.008989	-.011442	-.003047	-.032970	-.002753
41	-.008814	.024489	-.023670	-.001743	-.015542	-.014459
42	-.018519	.026464	-.026336	-.014473	.011342	-.022850
43	-.018292	.016997	-.017019	-.007527	.026550	-.020390
44	-.012141	.015053	-.011906	-.006235	.026786	-.018469
45	-.001911	.021858	-.015802	.004166	.013588	-.021884
46	.011935	.033122	-.030981	.022473	-.009492	-.016826
47	.020579	.030219	-.043136	.035244	-.034017	-.012342
48	.016682	.018228	-.040387	.022570	-.034775	-.007091
49	.018986	.002986	-.033973	.002880	-.023797	-.005714
50	.021370	-.003609	-.032245	-.008601	-.016618	-.000915
51	.017569	-.010929	-.020697	.000131	-.013638	.008637
52	.014038	-.019374	-.008576	.008745	-.013293	.017575
53	.012580	-.022428	.000375	.011288	-.009117	.013095
54	.012624	-.017854	.004718	.004449	-.003411	-.002324
55	.009958	-.010947	.017067	.001932	.002475	-.008226
56	-.008847	.000112	.027522	-.002975	.015587	-.014045
57	-.019381	.012581	.032606	-.009952	.026923	-.016483
58	-.021921	.014710	.035623	-.016227	.029666	-.006887
59	-.018321	.005204	.040528	-.012566	.029701	-.002301
60	-.014135	-.002921	.035510	-.001789	.024472	-.008954

RUN NO. 82A 16M 11-02-62 0356-0511 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.10521 10E 00	0.53892 10E-01	0.21884 10E-01	0.97224 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.777662	.668171	.537157	.810164
2	.527470	.311945	.170476	.569488
3	.344060	.122551	.034895	.402844
4	.211013	.040737	-.021580	.283476
5	.113462	-.002924	-.052236	.194234
6	.035233	-.034303	-.060766	.122247
7	-.026376	-.050706	-.056149	.063203
8	-.073777	-.075526	-.062157	.009231
9	-.105729	-.115730	-.061453	-.038863
10	-.117633	-.121165	-.054288	-.072150
11	-.121097	-.123916	-.047192	-.088554
12	-.117119	-.116253	-.036192	-.106304
13	-.117763	-.103181	-.038316	-.125906
14	-.128445	-.087044	-.067094	-.142346
15	-.136616	-.084595	-.078003	-.161260
16	-.154661	-.106496	-.075089	-.186011
17	-.157009	-.130299	-.096776	-.201295
18	-.148200	-.142334	-.082659	-.197926
19	-.143292	-.131863	-.040733	-.179660
20	-.135802	-.117572	-.013753	-.165078
21	-.130527	-.114458	-.032696	-.165537
22	-.132019	-.100505	-.040366	-.174281
23	-.133214	-.082780	-.029968	-.192086
24	-.134690	-.073690	-.046922	-.214002
25	-.138725	-.066774	-.067651	-.226187
26	-.146408	-.049034	-.087601	-.226885
27	-.151541	-.031838	-.115809	-.221346
28	-.136309	-.035493	-.098898	-.214012
29	-.099970	-.047827	-.062899	-.188450
30	-.058622	-.042121	-.017653	-.144087
31	-.016088	-.009111	-.000977	-.097037
32	.010808	.037849	.020819	-.064114
33	.025846	.076409	.013438	-.047592
34	.027906	.078336	-.000249	-.043524
35	.018189	.069489	.010803	-.034625
36	.015409	.052140	.046052	-.013224
37	.017643	.029019	.055584	.003625
38	.015370	.021604	.042092	.012647
39	.013953	.030989	.029307	.017258
40	.009505	.053471	.009377	.024941
41	.006439	.059673	-.013011	.031660
42	-.005533	.054625	-.019562	.037843
43	-.010864	.031851	-.001322	.039517
44	-.008148	.005320	.026093	.042208
45	-.005111	-.012950	.038418	.043935
46	-.006128	.010330	.025148	.049946
47	-.003343	.042819	.002559	.057561
48	-.005318	.035772	-.032774	.064973
49	.000034	.021051	-.040470	.072930
50	.012809	.021543	-.017552	.076648
51	.033687	.012317	.012664	.084032
52	.031759	.010152	.020213	.082184
53	.009891	.017865	.016621	.075623
54	-.006706	.002482	.001928	.076427
55	-.003852	-.018095	-.018404	.074462
56	.008544	-.033957	-.003920	.064808
57	.024374	-.038130	-.006235	.057675
58	.033089	-.035461	-.007127	.046952
59	.030236	-.040423	-.006024	.026220
60	.018164	-.050015	.003265	.006627

RUN NO. 82A 16M 11-02-62 0356-0511 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-02	10E-02	10E-03	10E-03	10E-03
0	.037897	-.009071	.011997	-.008799	.009154	-.024698
1	.259500	-.110980	.183087	.118947	.056547	-.281310
2	.163527	-.155686	.266565	.222237	.029735	-.385972
3	.239753	-.191591	.291579	.134457	.030094	-.453418
4	.215004	-.166382	.202948	.012938	-.005633	-.409583
5	-.196956	-.137480	.142442	.125440	-.085930	-.364828
6	-.430525	-.128170	.128883	.195869	-.098624	-.359323
7-8	-.110686	-.094870	.090304	.113896	.068226	-.318323
9-11	.237605	-.072047	.054838	-.212991	.126367	-.246591
12-15	.333452	-.045263	.029394	-.059039	.062724	-.150161
16-20	.113085	-.034299	.022406	-.095289	.032444	-.144703
21-27	-.014271	-.019647	.010445	-.009920	.006212	-.070309
28-36	.007893	-.011828	.005651	.011188	.003560	-.044575
37-47	.004426	-.006018	.002452	-.001832	.002966	-.027685
48-60	.013979	-.003079	.000920	.008864	.003353	-.014629

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	-.422093	-.083321	.438268	-.052956	.207369	-.027449
2	-.804225	-.073959	.702299	.006663	.340651	-.122358
3	-.985803	.120773	.715982	.020816	.447956	-.257273
4	-.543256	.122887	.483084	-.042190	.363700	-.220745
5	.021790	-.017679	.361848	-.025687	.135556	-.103666
6	.123632	.071231	.365324	-.027767	-.054875	-.094816
7-8	.096788	-.014418	.223376	-.107868	-.065832	-.063310
9-11	-.093796	-.245212	.109501	-.089814	-.066398	-.014669
12-15	.031918	-.047241	.043346	-.055998	.082550	-.028832
16-20	-.102533	.006472	.051724	-.007198	.051196	-.036884
21-27	-.016105	.018949	.036395	-.015649	.004271	-.030181
28-36	.014028	-.026975	.013711	.014013	-.009287	-.010466
37-47	-.012117	-.024334	.009882	.002959	-.005709	-.007023
48-60	-.004072	.000337	-.001595	-.001001	-.004349	.001122

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.005542	.008084	.004233	.004882
1	.069910	.132062	.056930	.085429
2	.102567	.290569	.092034	.130258
3	.127278	.468331	.123108	.141209
4	.103757	.422098	.104107	.092878
5	.075743	.311004	.088812	.065917
6	.072412	.290479	.103891	.063444
7-8	.062396	.280530	.092821	.047206
9-11	.039861	.223291	.091598	.031242
12-15	.021203	.156309	.067246	.018299
16-20	.016611	.138962	.061802	.015025
21-27	.009902	.089915	.043283	.008433
28-36	.006361	.058359	.034691	.005395
37-47	.004339	.031118	.024109	.003096
48-60	.002994	.021591	.015703	.001778

RUN NO. 82A 16M 11-02-62 0356-0511 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
	0.34438 10E-01	0.18852 10E-01	0.20000 10E-01	0.10174 10E-01	0.10794 10E-01	0.59088 10E-02
0	-.009297	-.453335	.675749	.017749	.010326	-.390323
1	-.000464	-.030751	.181190	.003353	.042187	-.027071
2	-.054541	.063537	-.000297	-.031756	.008179	.007204
3	-.019698	.037375	-.047506	-.047720	.010973	.011647
4	-.036802	.105414	-.063019	.004138	.022564	.095501
5	-.061273	.057098	-.025661	.006219	.004571	.017147
6	-.021479	.002110	.006751	.068235	.035487	.032422
7	-.010220	.029618	-.025634	-.033265	.037153	.016420
8	.047121	-.065591	-.026937	-.059840	.028891	-.030415
9	-.038437	-.037718	.034534	-.032751	.015767	-.104210
10	-.045267	.047052	-.120216	.002876	.043315	.035984
11	.002430	.075532	-.152269	.014514	-.027216	.136986
12	-.015440	.071725	-.080242	-.062458	.030020	.056417
13	-.048528	.039951	-.064149	.047955	-.035504	.030020
14	-.082574	.002024	.006019	.010814	-.067532	-.015929
15	-.016016	-.032561	.032963	-.038787	-.041734	.017053
16	-.004200	-.023774	.052756	.017030	.048890	-.012153
17	.014962	-.073811	.109161	.097223	-.006026	-.105217
18	-.023301	.033868	-.010373	.016170	-.053755	.007783
19	.022607	.058428	.030074	-.063619	-.023789	.006401
20	.010697	.042383	.009805	.035684	-.027082	.067983
21	-.011709	.017961	.041373	.045823	-.013159	.038389
22	.052538	.009802	.005646	.030371	-.017201	.044915
23	.051326	-.061006	.033912	.040836	-.018852	.008943
24	.028249	-.000018	-.008776	.007468	-.010147	-.000620
25	.116615	-.059679	.024677	-.038846	.005901	-.066557
26	.021182	.011360	-.047116	.007293	-.046977	.004432
27	.034771	.059547	-.111281	.026198	-.001009	.063477
28	.057592	-.037177	-.055701	-.019994	.023125	.041344
29	.045841	-.022513	-.001319	-.049780	.004049	.026169
30	-.000935	-.006088	.015181	-.007443	-.081781	-.032016

COSPECTRUM

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
0	-.326201	.049130	.012772	-.017628	.046411	.001194
1	-.848259	-.003049	.055639	-.104809	.225808	-.052210
2	-.036535	-.185622	.069352	-.033692	.109198	-.076543
3	.052941	-.276761	.104754	.042889	-.020067	-.098376
4	-.188412	-.285865	.080384	.018743	-.068975	-.091209
5	-.034998	-.248070	.040370	-.034892	-.033069	-.052961
6	.206680	-.353892	.050982	-.056247	.030984	-.102557
7	.344952	-.747009	.094230	-.037636	.070920	-.226137
8	.206723	-.811630	.108351	.008108	.030720	-.202428
9-11	.068463	-.322189	.062960	.110482	.014498	-.049943
12-14	-.150349	-.386120	.063703	.063781	-.025429	-.121926
15-21	.154978	-.412274	.046825	-.011400	.008515	-.085646
22-30	-.129988	-.399135	.043472	-.012017	-.045402	-.124976

RUN NO. 82A 16M 11-02-62 0356-0511 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
	0.34438 10E-01	0.18852 10E-01	0.20000 10E-01	0.10174 10E-01	0.10794 10E-01	0.59088 10E-02
1	-.065084	.017140	.088763	.006558	.079897	-.094870
2	.000147	-.014274	.033586	.010946	.024944	.039162
3	.039516	-.036003	.034304	-.008692	-.014974	.041131
4	-.001341	.033749	-.021661	-.000944	-.000591	-.004737
5	.075954	.005424	-.020555	.061105	-.067888	.003326
6	.055077	.009431	.018163	.037583	-.046456	-.000028
7	.048430	-.029732	-.001329	.048425	-.071208	.010118
8	.047876	-.032439	.003060	.028947	-.049279	.029130
9	.027892	.049967	.019042	-.030421	-.033650	.001073
10	.089497	-.011030	-.019548	.038064	-.113835	.025105
11	.039794	.009041	-.047809	-.013396	-.033868	.027685
12	-.039699	.020513	.007681	-.051949	-.045656	-.009070
13	.068976	.043206	-.011449	.010714	-.073651	-.015047
14	.119148	.000828	-.019799	-.008554	-.154880	.007408
15	.065247	-.014846	-.001566	-.041453	-.039910	-.008721
16	.055020	.055070	.008601	-.036995	-.063830	-.032936
17	.045678	-.064849	.037595	.064200	-.054665	.049928
18	.005379	-.021251	.031230	-.101677	-.051791	-.000576
19	-.004870	-.001954	.019984	-.071417	-.038352	.022179
20	-.062569	-.001165	.021686	-.105210	.061794	.021663
21	-.029044	.037598	-.010403	-.020387	-.032502	.017511
22	.020322	-.011511	.007032	.001356	-.021627	.039849
23	-.018564	.021195	.037825	-.015714	.013386	-.004703
24	-.021335	-.003325	.039580	.009612	.028257	.011159
25	-.002589	.021026	.009915	-.058396	.062326	-.032851
26	.027474	.026245	.013033	.041135	.033576	.011961
27	.001395	-.033027	.031283	.000640	.036573	-.004368
28	.008705	-.009369	.025204	.035841	.008612	-.020238
29	.001881	.035257	.059527	-.039294	.055931	-.124728
30	.027730	.033626	.015878	.013819	.042836	-.072228

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-04
1	.138329	.066593	.040835	-.036233	-.566469	.493602
2	.073695	.019760	-.027047	.124348	-.237207	.212990
3	.006730	-.037248	.088656	.131677	.049376	.204251
4	-.005571	-.082871	.181345	.025501	.078278	.090400
5	.011939	.001105	.111170	.006270	.034827	-.219907
6	-.021217	.088537	.041906	-.049913	.085015	-.084684
7	-.046163	.003101	.118613	-.100964	.140315	.166298
8	-.017582	-.078533	.222034	-.029640	.114157	.095841
9-11	-.019156	-.074578	.226838	.003934	.071197	-.202840
12-14	-.000775	.037907	.097119	.051918	.031045	-.473990
15-21	-.032766	.107760	.068697	-.004553	.078854	-.740034
22-30	.006767	-.046449	.101400	.001485	.005832	-.227974

RUN NO. 82A 16M 11-02-62 0356-0511 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.63809 10E-01	0.18586 10E-01	0.55695 10E-02	0.62689 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.218991	.084868	.021151	.263237
2	.079412	.049803	-.106990	.001246
3	.028148	.152868	-.027436	-.068790
4	-.056246	.146170	-.069113	-.025622
5	.022308	.093254	-.030408	-.006057
6	.025460	.027787	-.064644	.006872
7	.014593	.110208	-.018601	-.001003
8	.043840	.044405	.005770	-.084580
9	.057165	-.021968	.011953	-.030421
10	-.077163	-.039882	-.092409	-.112402
11	-.108028	.095233	-.081435	-.161015
12	-.050174	-.025977	-.120936	-.094554
13	-.062032	-.179513	-.025137	-.112554
14	.047679	-.087593	-.030068	-.013290
15	.038594	-.027609	.018790	.023087
16	.031004	-.082665	.062522	.064861
17	.073494	-.127634	.174109	.119019
18	-.056769	-.044927	-.027019	-.015502
19	-.054264	-.114544	-.044928	.011400
20	-.040682	-.106233	-.039644	-.049347
21	.004343	-.020372	-.024689	.011258
22	-.012410	.008333	-.006288	.007203
23	.020237	-.041809	.011357	-.013070
24	-.012204	-.106995	-.008707	-.075254
25	-.022746	-.007428	.011572	-.032082
26	-.044574	.010149	.026504	-.059559
27	-.152210	-.098397	-.024452	-.105253
28	-.102348	-.029546	.010958	-.037820
29	-.014232	-.144634	-.038700	-.070615
30	-.026658	-.049847	-.062810	-.047190

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.157316	.050489	.012199	.063206
1	.565799	.228832	.101870	.341093
2	.363020	.145553	.152868	.357276
3	.360097	.076637	.235807	.461207
4	.316220	.037007	.223887	.371149
5	.235586	.043021	.136923	.192990
6	.235176	.049058	.164942	.214039
7	.364099	.046989	.308142	.366896
8	.425614	.044117	.310629	.411049
9-11	.239206	.056675	.204640	.320578
12-14	.237292	.055639	.260433	.284752
15-21	.221630	.095290	.275228	.219008
22-30	.274596	.099127	.302780	.211693

RUN NO. 82A 40M 11-02-62 0356-0511 EST

GROSS STATISTICS

CLEAR	WIND SPEED 6.47 M/SEC	WIND DIRECTION 338 DEG	
STABLE	SIGMA A 5.7 DEG	SOLAR RADIATION 0	
LAND	SIGMA E 1.0 DEG	NET RADIATION -0.15	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.34823E-00	0.41494E-01	0.29841E-01	0.21640E-01
V	0.42751E-00	0.18441E-01	0.15349E-01	0.57880E-02
W	0.12058E-01	0.99335E-02	0.93066E-02	0.28051E-02
T	0.91495E-01	0.15290E-01	0.11498E-01	0.81502E-02
E	0.39390E-00	0.34941E-01	0.27248E-01	
GUSTINESS RATIOS				
U	0.09121	0.03148	0.02670	0.02274
V	0.10106	0.02099	0.01915	0.01176
W	0.01697	0.01540	0.01491	0.00819
COVARIANCES				
U,V	0.12494E-00	0.72594E-04	0.13364E-02	-0.85080E-03
U,W	0.41096E-02	-0.42600E-02	-0.46686E-02	-0.14528E-03
U,T	0.12523E-00	0.16236E-01	0.11061E-01	0.94840E-02
V,W	-0.19773E-01	-0.91538E-03	-0.84523E-03	-0.34171E-03
V,T	-0.22556E-01	0.60206E-03	0.87741E-03	0.16467E-03
W,T	0.71920E-02	-0.20411E-02	-0.23941E-02	0.21428E-03
WE	-0.25317E-02	0.10540E-02	0.71156E-03	
NORMALIZED COVARIANCES				
U,V	0.32383	0.00262	0.05245	-0.07602
U,W	0.06346	-0.20983	-0.28015	-0.01865
U,T	0.70156	0.64461	0.59713	0.71413
V,W	-0.27533	-0.06763	-0.07072	-0.08480
V,T	-0.11405	0.03585	0.05605	0.02398
W,T	0.21693	-0.16562	-0.23144	0.04482

RUN NO. 82A 40M 11-02-62 0356-0511 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21397 10E-01	0.16663 10E-01	0.18523 10E-01	0.11950 10E-01	0.13285 10E-01	0.10345 10E-01
0	.062490	-.280003	.597233	-.070684	.066093	-.231631
1	.052544	-.165492	.499513	-.035082	.059374	-.127996
2	.034909	-.038483	.337882	-.025144	.044931	-.021252
3	.005542	.023034	.207116	-.016561	.032714	.029456
4	-.016507	.062673	.115919	-.025114	.030281	.050432
5	-.020571	.078005	.053740	-.009545	.004810	.061205
6	-.009385	.067087	.014478	-.009933	-.021005	.045953
7	-.003457	.063392	-.004255	-.021385	-.017418	.039650
8	-.005462	.070365	-.020122	-.030471	-.011456	.041160
9	-.002153	.065919	-.041850	-.011866	-.015885	.027793
10	-.008493	.031077	-.049779	.011695	-.019146	.001134
11	-.018329	.017794	-.050334	.017760	-.013820	-.012235
12	-.019136	-.001748	-.052172	-.002331	-.004140	-.021407
13	-.019829	-.016530	-.056917	-.025705	-.007695	-.024169
14	-.029488	-.015004	-.069053	-.015463	-.023042	-.015882
15	-.044182	-.005208	-.083806	.029028	-.040171	-.004867
16	-.039876	-.003773	-.102939	.038716	-.037653	.014632
17	-.026203	-.004945	-.121900	.035136	-.014475	.027123
18	-.006250	-.017366	-.129567	.019809	-.001281	.018221
19	.007602	-.030903	-.126235	.001594	-.007204	.001496
20	.011753	-.034206	-.111845	.009543	-.007152	-.019730
21	.003958	-.047577	-.101585	.025461	-.012531	-.034953
22	.001133	-.049430	-.095686	.046645	-.014347	-.026625
23	.008926	-.027372	-.092646	.051527	-.023780	-.010804
24	.004904	-.002728	-.089494	.041672	-.032599	.007456
25	-.006734	.014580	-.076470	.024107	-.040767	.006632
26	-.010083	.011808	-.056342	.020625	-.031930	.005557
27	-.018671	.015033	-.050833	.026097	-.021894	.001566
28	-.020626	.028603	-.064366	.026844	-.015145	.031406
29	-.002238	.032811	-.070044	.015787	.006166	.040386
30	.005948	.039320	-.058169	.004232	.018213	.032084
31	.002860	.031106	-.041189	-.003800	.022316	.023677
32	-.006840	.010970	-.025093	-.006761	.015812	.009076
33	-.000012	-.007820	-.002022	-.005480	.022258	-.012757
34	.022493	-.019574	.019248	-.006454	.020980	-.020626
35	.037813	-.020413	.027846	-.017343	.025937	-.014368
36	.033237	-.016146	.022613	-.023709	.028894	-.002730
37	.010818	-.010230	.016464	-.016040	.020143	.007624
38	.003834	.003123	.018893	.001150	.011463	.012195
39	.012785	.014896	.029431	-.006567	.011945	.014767
40	.022136	-.000041	.043475	-.025462	.023446	.002298
41	.027262	-.027144	.035098	-.016992	.026630	-.013231
42	.030054	-.020988	.018533	-.006325	.025205	-.015139
43	.023957	-.011090	.003887	-.006620	.020334	-.010804
44	.010140	.002140	-.016289	-.001575	.019209	-.005533
45	.007697	.004761	-.024488	.004215	.016637	.002803
46	.008281	-.005717	-.017393	.004397	.014093	-.004017
47	.003225	-.021348	-.019529	.004098	.012393	-.006795
48	-.007248	-.021357	-.038606	.006320	.014215	-.015323
49	-.012533	-.014074	-.039666	.008334	.007704	-.022030
50	-.005667	-.017275	-.025949	-.004274	-.004475	-.031009
51	-.003315	-.022653	-.007730	-.016754	-.017434	-.030153
52	.001367	-.018417	.008119	-.018648	-.021677	-.025780
53	.011800	-.019044	.014648	-.031757	-.021198	-.024774
54	.016048	-.011037	.015137	-.028110	-.008681	-.025115
55	.013839	.001804	.008994	-.005127	-.000858	-.022150
56	.013649	.019354	-.000971	-.000009	.004802	-.019540
57	.017904	.037389	-.018103	-.017737	-.005257	.009736
58	.019335	.040649	-.027222	-.028695	-.013073	.033649
59	.013535	.024413	-.016266	-.017781	-.009997	.043763
60	.004217	.012542	.005444	-.007325	-.005915	.036350

RUN NO. 82A 40M 11-02-62 0356-0511 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21397 10E-01	0.16663 10E-01	0.18523 10E-01	0.11950 10E-01	0.13285 10E-01	0.10345 10E-01
1	.018201	-.029947	.047935	-.046828	.023923	.091433
2	.000784	-.045285	.050923	-.086702	.022741	.152345
3	-.006404	-.052258	.048436	-.086734	.009648	.162847
4	.001749	-.058127	.052293	-.061498	-.003044	.144978
5	.020809	-.055842	.044668	-.038116	-.009328	.128165
6	.009628	-.036728	.032245	-.020180	.001263	.114577
7	-.003336	-.040711	.020955	-.006628	.006307	.112500
8	.005121	-.050009	.008182	.017845	-.010044	.116607
9	.017948	-.051315	.011013	.028541	-.024750	.111296
10	.020038	-.064433	.015701	.024590	-.016973	.106196
11	.021770	-.073359	.014784	.018395	-.011225	.110130
12	.005666	-.083508	.017272	-.002781	-.002842	.109681
13	.002419	-.071780	.017891	-.003064	-.008021	.092633
14	.008932	-.058839	.014108	.001740	-.022196	.065497
15	.014108	-.056812	.012	.006091	-.040823	.049247
16	-.000386	-.045456	.014252	.001356	-.041928	.032684
17	-.014086	-.023102	.013619	-.018390	-.025986	.023011
18	-.012416	-.009893	.013746	-.022738	-.029448	.019746
19	-.000363	-.000749	.008250	-.015015	-.035632	.015501
20	.007546	.007966	.003065	-.001660	-.035339	-.000435
21	.007802	.021456	.004721	.008447	-.026180	-.019430
22	.016684	.021507	.000837	.004480	-.009241	-.030761
23	.025674	.025301	-.000822	.011474	-.001568	-.046863
24	.031005	.015173	.010176	.032437	-.002807	-.061054
25	.028821	.020801	.014472	.047373	-.005715	-.064775
26	.021528	.019697	.017437	.042357	-.001705	-.061788
27	.011621	.013717	.020519	.029825	.001887	-.057664
28	.003725	.005362	.020303	-.003990	.009121	-.048620
29	.006190	-.000177	.018694	-.009451	.000640	-.039180
30	.012982	-.007918	.021025	.003851	-.013735	-.039211
31	.014434	-.013025	.019490	.014734	-.022288	-.036914
32	.016435	-.003345	.013741	.017527	-.012886	-.036451
33	.011740	.010159	-.000881	.007568	.006734	-.030251
34	-.013281	.015880	-.004963	-.004989	.025457	-.027185
35	-.026355	.014583	-.002167	-.002444	.022303	-.011960
36	-.037674	.011838	-.003347	-.022234	.011301	-.007252
37	-.023676	.015038	-.009273	-.020178	.000882	-.012649
38	-.004088	.018474	-.010834	.000405	.006052	-.014305
39	.010357	.003301	-.012809	.010879	.006815	-.008052
40	.008139	.002401	-.016134	.016609	.004472	-.008731
41	.006733	.005510	-.015149	.041935	-.002997	-.008088
42	.000625	.021005	-.015527	.035749	.005237	-.003836
43	-.007513	.021760	-.020626	.016675	.017522	.014790
44	.002247	.014996	-.020132	.019388	.011635	.039245
45	.015458	-.000949	-.012120	.024446	.010693	.044547
46	.006902	-.019980	-.001436	-.001012	.020715	.046272
47	-.011715	-.011624	-.005070	-.020402	.028815	.044905
48	-.024832	-.007827	-.011903	-.029099	.029180	.040189
49	-.032072	-.003904	-.013020	-.045744	.033219	.029848
50	-.052435	.015028	-.017500	-.064352	.042760	.012157
51	-.044651	.021247	-.021111	-.055418	.042391	.000207
52	-.045396	.018153	-.023286	-.031720	.029096	.001019
53	-.040945	.018035	-.034347	-.012522	.009796	.013837
54	-.020312	.013181	-.040733	-.027008	.002694	.030519
55	-.007270	-.004232	-.041072	-.024152	.005534	.030405
56	.008576	-.019297	-.034508	-.007223	-.004085	.023053
57	.004712	-.019015	-.019489	-.002041	-.000460	.008607
58	.009418	-.018292	-.007960	-.006792	-.004992	-.012303
59	.027457	-.006658	-.004594	.012300	-.017107	-.040206
60	.022635	.010831	-.004333	.013862	-.019586	-.057011

RUN NO. 82A 40M 11-02-62 0356-0511 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.29834 10E-01	0.15346 10E-01	0.93062 10E-02	0.11500 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.715035	.563558	.534041	.779963
2	.426111	.206779	.202301	.488308
3	.230697	.051762	.072413	.297219
4	.108668	-.022252	.011236	.182156
5	.036366	-.066298	-.026468	.104108
6	-.002431	-.089050	-.012221	.055488
7	-.034530	-.064675	-.032358	.014992
8	-.058477	-.049226	-.074981	-.024693
9	-.084704	-.050314	-.091084	-.049633
10	-.083496	-.066163	-.066132	-.064281
11	-.072211	-.073936	-.063784	-.072307
12	-.064394	-.051223	-.070176	-.092503
13	-.067834	-.040963	-.063930	-.129531
14	-.081973	-.040316	-.069920	-.159994
15	-.108935	-.048545	-.072940	-.178241
16	-.123634	-.049231	-.083683	-.195103
17	-.124875	-.022481	-.102529	-.209190
18	-.130861	-.025663	-.076601	-.211459
19	-.123033	-.055316	-.056466	-.205345
20	-.117637	-.061929	-.080026	-.192904
21	-.114236	-.047756	-.055669	-.183191
22	-.105784	-.076673	-.048569	-.181496
23	-.093529	-.119349	-.082832	-.185570
24	-.084120	-.136986	-.105337	-.170988
25	-.088063	-.112306	-.080830	-.133669
26	-.093617	-.083146	-.057546	-.097084
27	-.095675	-.075105	-.059984	-.088158
28	-.097078	-.067661	-.069272	-.100851
29	-.088856	-.065058	-.063279	-.101085
30	-.074678	-.040870	-.073005	-.091337
31	-.039169	-.010073	-.051592	-.064151
32	-.011227	.019404	-.013301	-.030197
33	.000665	.041842	.043985	.003431
34	.011477	.040383	.079296	.029724
35	.022835	.011857	.07495	.049328
36	.015734	-.007888	.070512	.056450
37	-.008165	-.015311	.068677	.060155
38	-.026086	-.023110	.046578	.073077
39	-.029725	-.020925	-.003369	.084848
40	-.007980	-.013101	.014385	.097042
41	.004052	.004474	.049948	.104700
42	-.005384	.037581	.050968	.098232
43	-.020451	.080113	.047355	.088376
44	-.028311	.080032	.044233	.061262
45	-.028861	.065237	.005505	.026758
46	-.024997	.054081	-.017978	.016267
47	-.019609	.050953	-.012870	.008221
48	-.017990	.052651	.001201	-.011625
49	-.017799	.036385	.001409	-.029436
50	-.015500	.000677	.014715	-.023672
51	.004575	-.007003	.014289	-.011616
52	.012972	-.022152	-.003087	-.002387
53	.019976	-.012395	-.007663	.002785
54	.017882	-.007083	-.030690	-.000656
55	.012166	-.028233	-.022047	-.021412
56	.002725	-.035475	-.020292	-.047308
57	-.000109	-.024364	-.046408	-.067397
58	.008131	.011068	-.076116	-.072506
59	.021300	.002802	-.066854	-.061351
60	.045070	-.011862	-.043068	-.041006

RUN NO. 82A 40M 11-02-62 0356-0511 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-02	10E-03	10E-03	10E-03
0	-.018369	-.005800	.006477	.003172	-.005163	-.002515
1	-.097358	.012692	.079624	-.049384	-.021821	-.013952
2	.024413	.007156	.116077	-.126046	.073478	-.029160
3	.168840	.002969	.145365	-.160115	.181838	-.022597
4	.160445	-.048200	.113346	-.064461	.126143	-.023809
5	.135423	-.232927	.074519	.025471	.057354	-.077129
6	.154867	-.394323	.068642	.005143	.085358	-.121211
7-8	.024816	-.325571	.058939	-.025792	.092326	-.117696
9-11	.082633	-.309316	.052959	-.011333	.035730	-.180904
12-15	.089777	-.159470	.026357	-.009592	.012553	-.080975
16-20	.051282	-.160226	.018016	-.045238	-.000445	-.085116
21-27	-.011670	-.090255	.008063	.010278	-.001475	-.052402
28-36	-.010343	-.060047	.005119	-.021288	.015756	-.035039
37-47	.003884	-.041366	.001723	-.004933	-.009626	-.021234
48-60	.004459	-.017369	.000900	-.013778	.002615	-.012600

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	.147429	-.234002	.202513	.046123	-.128482	.161388
2	.109525	-.321274	.181964	-.013317	-.127891	.314193
3	.013464	-.383253	.107465	-.069578	-.047831	.506331
4	-.003027	-.296053	.107575	-.065372	.029707	.413690
5	.053982	-.143341	.154446	-.056950	.064640	.219739
6	.092619	.013018	.120539	-.041614	.056463	.126773
7-8	-.044572	.042801	.083752	-.153082	.007151	.114795
9-11	-.014029	-.087579	.117706	-.122441	.019443	.099783
12-15	.008387	-.053312	.056916	-.070143	.024607	.098530
16-20	.008753	-.004473	.013758	-.011084	.007086	.036173
21-27	.019341	-.002079	.025347	-.017242	.030878	.013327
28-36	.035496	-.012510	.023332	.009530	-.000904	.001507
37-47	.002350	.005484	.013614	.004179	.006258	-.004485
48-60	.011195	-.002749	.000669	.000400	-.000778	.000930

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-03	10E-03	10E-02
0	.014632	.025193	.019630	.004597
1	.177693	.420171	.238525	.065972
2	.239127	.731109	.438222	.115528
3	.283227	.909453	.633347	.154951
4	.238825	.679128	.508559	.113274
5	.182185	.597391	.390226	.070889
6	.171918	.716742	.456237	.063715
7-8	.158277	.841726	.405561	.051116
9-11	.132939	.592189	.345836	.047348
12-15	.076593	.538702	.259648	.029853
16-20	.061762	.391024	.248804	.020458
21-27	.034766	.276252	.182778	.012908
28-36	.023961	.234607	.136226	.007630
37-47	.016590	.145200	.109959	.003908
48-60	.012147	.107974	.074124	.002198

RUN NO. 82A 40M 11-02-62 0356-0511 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
	0.11190 10E-01	0.77940 10E-02	0.13281 10E-01	0.40309 10E-02	0.68690 10E-02	0.47844 10E-02
0	-.076034	-.018640	.714077	-.084771	.023973	.044787
1	-.132996	.132823	.358608	-.045365	-.052637	.110986
2	-.100370	.004541	.236279	.008537	-.047469	.038063
3	-.048782	.100185	.218475	-.021149	.017561	.073803
4	-.012462	.091493	.222004	-.050643	.058288	.092535
5	-.017973	.116306	.145264	-.105419	.015636	.073277
6	-.022676	.126247	.181573	-.072443	.014151	.111555
7	-.022352	.127900	.179737	-.010990	.017848	.092054
8	.013753	.095485	.115730	-.009827	.054671	.061677
9	.002733	.035106	.056901	-.017201	.014527	.031031
10	.046276	.058454	.019452	.024209	.061464	.011504
11	.024977	.026923	-.035813	-.026470	.021672	.022954
12	-.003633	-.012133	-.010205	.010821	.004896	-.013813
13	-.025380	.017943	-.043392	-.006946	-.036503	.025792
14	-.031233	.015082	-.049689	.035144	-.066629	.012319
15	.011384	-.001473	-.128687	-.005951	-.012061	-.039853
16	.003674	-.020931	-.138612	-.004706	-.022450	.000112
17	.014555	.024404	-.093363	-.024822	-.061398	.025704
18	-.011442	-.089259	-.089966	-.036415	-.062053	-.032621
19	.026601	-.083199	-.133623	.049647	-.049659	-.076261
20	.022589	-.077490	-.106074	.047842	-.073967	-.034388
21	.017822	-.075898	-.039124	.021809	-.041043	-.073196
22	.035740	-.072662	-.076769	-.004754	-.037898	-.032929
23	.009040	-.096968	-.091486	-.002981	-.044767	-.090342
24	.044570	-.114052	-.070023	.024352	-.016265	-.114516
25	.074382	-.145232	-.088675	.023772	.008873	-.122483
26	.105269	-.075444	-.094474	.018251	.060784	-.080902
27	.084325	-.100693	-.080869	.018177	.042455	-.099477
28	.104152	-.023368	-.096651	.029779	.068594	-.049685
29	.142909	-.092423	-.052845	.017272	.102043	-.134500
30	.079959	-.004721	-.099567	.118143	.070118	.010550

COSPECTRUM

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
0	-.113543	.178311	.070310	-.042152	-.004705	.093244
1	-.452153	.636297	.272274	-.136357	.084500	.333959
2	-.245444	.178824	.144089	-.054050	.034036	.110077
3	-.214450	-.078069	.062426	-.015529	-.108677	-.000783
4	-.199600	-.096761	.022520	.009181	-.109171	-.020881
5	-.106312	-.114445	.024042	.033627	-.039010	-.046209
6	-.035125	-.095128	.029068	.035409	-.013871	-.034318
7	-.027774	-.017670	.029455	.011070	-.006423	-.003263
8	-.090211	.043487	.036038	.000395	-.038969	.021302
9-11	-.042947	.028433	.030973	-.039274	-.022260	.024144
12-14	.041276	.000862	.021556	-.037596	.031686	.000705
15-21	.045276	-.005454	.027203	-.006196	.049996	.002637
22-30	.048783	-.129749	.020133	.000203	.025750	-.042003

RUN NO. 82A 40M 11-02-62 0356-0511 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
	0.11190 10E-01	0.77940 10E-02	0.13281 10E-01	0.40309 10E-02	0.68690 10E-02	0.47844 10E-02
1	.041132	-.118168	.032091	.009219	-.041001	.210588
2	.069981	-.026591	.023769	-.019531	-.093996	.045043
3	.132554	-.035661	.035946	.044845	-.116342	.010962
4	.084004	-.001431	.001558	-.000803	-.062501	.049499
5	.114217	.007169	.009847	-.110326	-.091364	.083503
6	.138674	.011355	.026766	-.115876	-.117375	-.022283
7	.169374	.016223	.054301	-.057088	-.153470	.043012
8	.115826	.010283	.088205	-.121386	-.122329	.111980
9	.164719	-.033705	.028598	-.128315	-.119701	.071620
10	.174063	-.003050	.072983	-.034305	-.133370	.031976
11	.194267	.046970	.073546	-.037786	-.147360	.031897
12	.212958	.051469	.090856	-.091553	-.202459	.057131
13	.182194	.025455	.056891	-.179335	-.182903	.024365
14	.132596	.038541	.087344	-.058493	-.118676	.026849
15	.118116	.004667	.085495	-.030418	-.147015	.076611
16	.138343	.011883	.073109	-.046150	-.184598	-.004891
17	.109564	.036075	.103658	-.065802	-.147343	.013153
18	.062902	.041535	.118692	-.092719	-.121395	-.010012
19	.093944	.030412	.107128	-.032530	-.134470	.010122
20	.045031	.071147	.077907	-.084130	-.112580	-.048954
21	.047970	.025634	.045481	.001839	-.089929	.000340
22	.080283	-.046976	.054466	-.066737	-.063875	.056364
23	.095320	.005470	-.013808	.001939	-.096363	.021412
24	.090520	-.024143	.035439	.027829	-.063339	.020179
25	.045147	-.080512	-.012671	-.003120	-.024507	.050977
26	.040736	-.001443	-.030857	.045945	-.003114	-.035362
27	.072064	-.017784	-.065241	.023546	-.022935	.009673
28	.086046	-.085401	-.053560	.035866	-.023074	.039874
29	.099546	-.028506	-.069981	.033866	-.064033	-.006658
30	.039888	-.018601	-.082666	-.032638	.011469	-.046744

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	.158894	.105983	.856561	-.290643	-.946372	.192853
2	.073528	-.009767	.222343	-.128890	-.361545	.126645
3	.019243	-.084205	-.076176	-.018849	-.061044	.072181
4	-.000961	-.051320	.008388	.015623	-.047239	.026395
5	.005354	-.052605	-.007517	.037262	-.060702	.034325
6	.011870	-.053922	-.016248	.044612	-.052547	.045980
7	.007346	-.057798	.064781	.048088	-.039998	.041711
8	.002529	-.121765	.073493	.054099	-.025527	.072968
9-11	.001804	-.067177	.081125	-.014885	-.048087	.068614
12-14	.000548	-.056413	.000120	-.007584	.002976	.048280
15-21	-.002901	-.060537	-.002405	.002841	.021484	.093566
22-30	.005639	-.052914	.025950	.010909	-.011824	.038147

RUN NO. 82A 40M 11-02-62 0356-0511 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.21636 10E-01	0.57872 10E-02	0.28077 10E-02	0.81529 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.486201	.403083	.011483	.409363
2	.354952	.295419	-.001305	.243600
3	.290150	.277236	.008493	.271948
4	.243039	.265858	.085045	.309250
5	.209094	.232481	-.070560	.191346
6	.239785	.195492	-.098804	.145929
7	.214428	.085548	.092188	.198232
8	.107511	.065657	.007820	.102634
9	.082263	.026692	.024149	-.032609
10	.020276	-.008506	-.077614	-.024969
11	-.038279	-.032972	.039611	-.075489
12	.019158	-.056406	.031817	-.098891
13	-.057115	-.108925	-.039891	-.124787
14	-.036767	-.160630	-.002975	-.108173
15	-.104710	-.113939	-.103445	-.235683
16	-.071996	-.054751	-.005413	-.217955
17	-.060569	-.006163	-.041856	-.154099
18	-.076894	-.180237	-.042764	-.168319
19	-.136797	-.109340	-.065874	-.182612
20	-.126549	-.068223	-.025253	-.169353
21	-.050664	-.074039	-.002872	-.083083
22	-.083439	-.035702	.028366	-.136380
23	-.117977	-.020257	-.040772	-.136885
24	-.112621	-.051463	-.027182	-.094168
25	-.136342	-.037578	-.080062	-.119539
26	-.184921	-.066061	-.159188	-.071443
27	-.164018	-.077800	.012884	-.057523
28	-.172744	-.012306	-.058429	-.087474
29	-.144600	-.041861	-.055967	-.063628
30	-.181498	-.142666	-.067067	-.065195

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-02
0	.163749	.034981	.036274	.039970
1	.587998	.135078	.170624	.192992
2	.294323	.079634	.115613	.123491
3	.153876	.046265	.090911	.059070
4	.082988	.020829	.088786	.020610
5	.061270	.013776	.109644	.017538
6	.064119	.013776	.115322	.019820
7	.073684	.015530	.097160	.019876
8	.085684	.014417	.096976	.023792
9-11	.073503	.017443	.085846	.025693
12-14	.042586	.016909	.092121	.023636
15-21	.054734	.016581	.146062	.027644
22-30	.055137	.018610	.166005	.023260

RUN NO. 82A 16M 11-02-62 0356-0511 EST
RUN NO. 82A 40M 11-02-62 0356-0511 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	.112417	.130264	.073031	.115326
1	.086039	.192373	.070379	.119192
2	.011761	.295034	.193176	.159242
3	.154347	.368476	.283131	.192932
4	.248043	.348932	.301323	.174857
5	.148717	.210662	.218771	.093078
6	.021563	.091095	.133634	.058611
7-8	.064718	.148357	.126093	.098147
9-11	.066177	.094746	.142499	.122548
12-15	.098519	.114563	.166557	.112008
16-20	.098292	.091274	.080921	.086005
21-27	.069200	.097757	.050509	.073389
28-36	.086978	.114054	.118714	.097114
37-47	.107465	.077620	.082273	.110217
48-60	.081192	.122267	.098673	.085919

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	.898005	.786040	.557690	.342114
1	.728596	.688275	.439622	.720426
2	.404162	.479722	.326507	.617386
3	.102966	.322842	.301799	.508255
4	.163676	.206363	.423639	.379573
5	.240824	.394540	.253328	.138553
6	.246526	.227129	.167163	.097071
7	.221085	.137866	.033278	.437103
8	.052399	.039513	.076021	.297171
9-11	.206695	.259355	.120101	.194006
12-14	.218004	.343050	.294031	.139076
15-21	.342385	.379201	.347361	.290365
22-30	.195531	.301056	.350279	.306907

RUN NO. 82C 16M 11-02-62 0642-0743 EST

GROSS STATISTICS

1 CI	WIND SPEED	2.83 M/SEC	WIND DIRECTION 344 DEG
TRANSITIONAL	SIGMA A	7.8 DEG	SOLAR RADIATION 0.14
LAND	SIGMA E	2.1 DEG	NET RADIATION -0.03

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.28005E-00	0.46831E-01	0.30777E-01	0.30096E-01
V	0.13992E-00	0.40289E-01	0.23543E-01	0.26371E-01
W	0.77294E-02	0.70634E-02	0.68765E-02	0.26760E-02
T	0.65085E-01	0.47843E-02	0.34957E-02	0.29931E-02
E	0.21385E-00	0.47104E-01	0.30598E-01	
GUSTINESS RATIOS				
U	0.18699	0.07647	0.06199	0.06130
V	0.13217	0.07093	0.05422	0.05738
W	0.03107	0.02970	0.02930	0.01828
COVARIANCES				
U,V	0.80477E-01	0.61439E-02	0.43795E-02	0.43785E-02
U,W	0.25849E-02	-0.29435E-02	-0.26879E-02	-0.90578E-03
U,T	-0.10134E-00	0.36245E-02	0.25263E-02	0.23966E-02
V,W	0.27191E-02	0.85971E-03	-0.71876E-03	0.18213E-02
V,T	-0.35689E-01	0.21331E-02	0.19829E-02	0.80645E-03
W,T	-0.41882E-02	-0.10033E-02	-0.10344E-02	-0.35034E-03
WE	-0.81753E-03	0.77170E-04	0.10851E-04	
NORMALIZED COVARIANCES				
U,V	0.40656	0.14144	0.16270	0.15542
U,W	0.05556	-0.16184	-0.18476	-0.10093
U,T	-0.75063	0.24214	0.24356	0.25251
V,W	0.08268	0.05096	-0.05649	0.21681
V,T	-0.37399	0.15364	0.21857	0.09077
W,T	-0.18673	-0.17260	-0.21098	-0.12379

RUN NO. 82C 16M 11-02-62 0642-0743 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26921 10E-01	0.14545 10E-01	0.10373 10E-01	0.12724 10E-01	0.90741 10E-02	0.49028 10E-02
0	.162462	-.184822	.243343	-.056556	.218643	-.210861
1	.138552	-.144998	.214399	-.015680	.173488	-.151139
2	.093671	-.071262	.159319	.046385	.100796	-.074560
3	.057688	-.018125	.115273	.085563	.050496	-.038744
4	.039688	-.002269	.092769	.089667	.016110	-.021633
5	.024409	.002115	.067695	.069668	-.015008	-.004400
6	.007556	.005936	.042175	.039527	-.040491	.008165
7	-.006206	.007441	.024851	.019082	-.051166	.019508
8	-.019439	.007237	.009315	.005905	-.053015	.022148
9	-.031354	.025700	.002056	.007216	-.046965	.018875
10	-.045977	.044556	-.001988	.018113	-.035287	.013694
11	-.059515	.062852	-.009263	.036465	-.030416	.013009
12	-.059112	.058124	-.005564	.033567	-.031660	.015097
13	-.049618	.037906	.000056	.022686	-.027015	.014773
14	-.045054	.021438	-.001716	.010203	-.014714	.014781
15	-.037588	.003445	-.007500	-.003415	-.001245	.008541
16	-.027693	-.002526	-.015600	-.011548	.011292	.003166
17	-.025406	-.002474	-.011971	-.015613	.017896	.005792
18	-.021733	-.004219	-.011706	-.003343	.010814	.004474
19	-.010235	-.013116	-.006599	.003746	.001580	-.003208
20	.000434	-.021407	-.005521	-.001944	-.001073	-.006536
21	.010921	-.024615	-.010871	-.006675	-.003912	.010430
22	.018835	-.022907	-.014094	-.015292	-.006505	.023365
23	.016334	-.024259	-.025159	-.026539	-.003395	.029641
24	.009222	-.025724	-.045634	-.033283	.003751	.035201
25	.006340	-.013640	-.060714	-.033431	.013425	.035360
26	.014288	-.011166	-.059235	-.032730	.024179	.029400
27	.016928	-.012085	-.055367	-.030879	.022708	.023959
28	.008343	-.026021	-.047752	-.035644	.013931	.019487
29	.000300	-.042965	-.033883	-.047188	-.001790	.008329
30	.000910	-.054949	-.018267	-.065272	-.002132	-.003441
31	-.000947	-.048486	-.020353	-.075046	.007970	-.004228
32	-.009378	-.039592	-.030112	-.065700	.016378	-.007478
33	-.015921	-.028356	-.037463	-.044550	.024383	-.007114
34	-.014879	-.010243	-.040261	-.021218	.024735	-.005566
35	-.012929	-.001564	-.046096	-.006576	.025197	-.005309
36	-.003543	.013953	-.050377	-.003247	.026597	-.005724
37	.007826	.023457	-.060089	.002355	.017189	-.001597
38	.011781	.040517	-.068396	.008983	.005311	.011422
39	.009088	.056398	-.070992	.008092	-.001589	.026410
40	.005888	.071551	-.075713	.014295	-.001928	.032486
41	.009355	.087006	-.070037	.019295	.004370	.022655
42	.014380	.101965	-.053220	.018427	.011079	.018415
43	.017394	.122136	-.038322	.012868	.012840	.032394
44	.020297	.125686	-.027539	.002300	.006412	.038241
45	.019176	.107333	-.012669	-.011812	-.000213	.030117
46	.009885	.089028	.000126	-.019256	-.005410	.021080
47	-.004603	.072465	.003362	-.015186	-.016807	.021717
48	-.020734	.052817	.006360	-.001706	-.023191	.022839
49	-.024775	.028451	.015868	.006003	-.022320	.015045
50	-.030056	.019339	.020398	.006198	-.023384	.011547
51	-.034126	.016913	.019312	-.005767	-.018906	.003772
52	-.027079	.006754	.014309	-.014987	-.015854	-.005221
53	-.013613	-.018688	.017644	-.018011	-.012652	-.007142
54	-.014382	-.036025	.017336	-.013317	-.019692	-.010012
55	-.022919	-.039483	.019432	-.003715	-.033160	-.011775
56	-.028831	-.024707	.012204	.010250	-.050521	-.004937
57	-.027804	-.022009	.006283	.009139	-.061694	-.002685
58	-.022595	-.032966	.009150	.007044	-.060430	-.004353
59	-.023505	-.043884	.019205	.009540	-.051733	-.008480
60	-.015546	-.038040	.018607	.010806	-.043243	-.010367

RUN NO. 82C 16M 11-02-62 0642-0743 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26921 10E-01	0.14545 10E-01	0.10373 10E-01	0.12724 10E-01	0.90741 10E-02	0.49028 10E-02
1	.006133	-.027742	.032444	-.004251	-.009339	-.000767
2	.002291	-.036173	.051633	-.012532	-.001424	-.008338
3	-.011388	-.031416	.057808	-.023604	.009438	-.010308
4	-.023229	-.041187	.061883	-.030906	.021515	-.011348
5	-.036924	-.049882	.051182	-.041796	.036092	-.013392
6	-.050126	-.049314	.038494	-.049343	.048653	-.005969
7	-.054212	-.038743	.041547	-.049176	.045902	-.006396
8	-.048709	-.020016	.040578	-.042447	.037166	-.009072
9	-.043003	-.012983	.039337	-.034730	.033361	.004740
10	-.035070	.000601	.036685	-.039610	.038139	.023330
11	-.018390	.007567	.035307	-.042766	.039948	.028538
12	.000614	.013968	.023856	-.036655	.034953	.028984
13	.011034	.022254	.009448	-.028336	.027578	.033790
14	.004990	.032178	-.000938	-.025862	.027558	.029614
15	-.004408	.041476	-.000344	-.032826	.034179	.014955
16	-.010624	.037485	.003585	-.037131	.039273	-.004461
17	-.012190	.030586	.002219	-.030563	.041365	-.002834
18	.001224	.017666	.000457	-.015022	.042299	-.003114
19	.010132	.014165	-.006333	-.001380	.039009	-.014080
20	.017304	.010734	-.017680	.011702	.036072	-.018451
21	.017345	.011852	-.020119	.014660	.030518	-.016524
22	.012981	.019119	-.014526	.005222	.023796	-.006078
23	.003501	.037082	-.014187	-.009780	.029350	-.001051
24	.000847	.043668	-.010789	-.019431	.040928	.001481
25	.006657	.033706	-.004256	-.028007	.047224	.012503
26	.010909	.016492	-.000320	-.023918	.049600	.017971
27	.009881	-.000604	-.000067	-.022129	.050096	.019272
28	.012946	.004603	.003304	-.012525	.042438	.013923
29	.021142	.009214	.005768	.011033	.026366	.009757
30	.030752	.017067	.007187	.039275	.004828	.002032
31	.030614	.019509	.013350	.050743	-.010249	.008552
32	.025995	.019085	.022811	.046069	-.013865	-.004723
33	.015275	.021268	.027934	.038385	-.015984	-.014065
34	.008350	.016994	.022571	.032206	-.019165	-.013970
35	.006053	.008603	.015766	.039650	-.025121	-.012453
36	.006949	-.000071	.012003	.049799	-.026509	-.016944
37	.002843	-.000787	.004699	.055481	-.027930	-.026317
38	-.003333	-.004854	-.000030	.052191	-.030667	-.029693
39	-.007265	-.014331	.001979	.034196	-.030068	-.034333
40	-.022579	-.012450	-.001255	.009392	-.022212	-.043869
41	-.032998	-.019924	-.003733	-.012494	-.023250	-.045468
42	-.036592	-.027866	-.007165	-.024435	-.028758	-.026814
43	-.028850	-.028255	-.015869	-.035289	-.028716	-.000281
44	-.024064	-.034937	-.027537	-.038316	-.026075	.026049
45	-.015838	-.045041	-.033209	-.042579	-.026946	.048728
46	-.006435	-.052780	-.030513	-.043522	-.033205	.054599
47	.002788	-.051984	-.024755	-.047168	-.029215	.048121
48	.014438	-.049703	-.016621	-.046654	-.016781	.050463
49	.026982	-.047257	-.010462	-.027448	-.003759	.047870
50	.039321	-.037605	-.015158	.002424	-.001610	.037965
51	.048146	-.030433	-.024978	.027890	-.002183	.035939
52	.048990	-.019897	-.032339	.036207	.003802	.033119
53	.039008	-.014535	-.026670	.028506	.010652	.028020
54	.023909	-.008658	-.015630	.025158	.015104	.022259
55	.014928	.005945	-.014690	.018537	.014751	.018749
56	.022134	.007517	-.011346	.006864	.011596	.011256
57	.026839	.012822	-.008682	-.001466	.012247	-.001556
58	.028006	.021331	.003440	-.022936	.016292	-.012032
59	.022289	.033350	.009723	-.043618	.017723	-.014240
60	.013043	.045960	.011680	-.040003	.006061	-.008545

RUN NO. 82C 16M 11-02-62 0642-0743 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.30773 10E-01	0.23550 10E-01	0.68751 10E-02	0.34963 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.784394	.791629	.692095	.811790
2	.535163	.503538	.376092	.567883
3	.369237	.289629	.209785	.412370
4	.268165	.153545	.111241	.309361
5	.193211	.065414	.064170	.217352
6	.127723	.019076	.024344	.141577
7	.076873	-.011608	-.001395	.084886
8	.019583	-.040018	-.030444	.039692
9	-.038567	-.071168	-.068099	.011215
10	-.080573	-.110179	-.111908	-.018201
11	-.114333	-.144410	-.124189	-.051354
12	-.142707	-.159125	-.123760	-.081548
13	-.164402	-.144340	-.111518	-.108240
14	-.173267	-.115533	-.081963	-.133207
15	-.168736	-.085072	-.083027	-.149640
16	-.157900	-.067717	-.091911	-.159221
17	-.165593	-.051781	-.095889	-.172403
18	-.174958	-.042802	-.093237	-.185599
19	-.176456	-.048381	-.091132	-.180403
20	-.177301	-.067234	-.103602	-.168738
21	-.174349	-.088361	-.124819	-.170884
22	-.160006	-.091636	-.146604	-.182449
23	-.139810	-.094005	-.163492	-.197840
24	-.127757	-.091727	-.145591	-.201013
25	-.126980	-.083039	-.130498	-.193233
26	-.123987	-.069357	-.143203	-.177502
27	-.110681	-.069687	-.163161	-.163400
28	-.105497	-.079483	-.146905	-.144167
29	-.091336	-.097298	-.089759	-.112694
30	-.051863	-.104760	-.036724	-.084224
31	-.012559	-.106840	-.003379	-.058285
32	.003047	-.096900	.019262	-.042074
33	-.005805	-.075701	.040415	-.038908
34	.001873	-.054978	.043796	-.033043
35	.020502	-.028654	.038414	-.022038
36	.029762	.007774	.038677	-.010833
37	.040181	.028600	.036029	-.005668
38	.031054	.018764	.029908	.005185
39	.012516	.005999	.016444	.002954
40	-.004513	-.005875	-.014590	-.000797
41	-.015483	-.008973	-.040485	.009498
42	-.020282	.002023	-.052158	.024068
43	-.030110	.023552	-.054872	.028142
44	-.033850	.031225	-.054070	.011756
45	-.026508	.040435	-.034532	-.007058
46	-.027773	.036976	-.010803	-.018255
47	-.027256	.019913	.012104	-.022424
48	-.033597	-.009824	.015149	-.024345
49	-.034509	-.029130	.015625	-.024472
50	-.036186	-.032141	.046653	-.024381
51	-.035197	-.019027	.070627	-.022790
52	-.027270	.002279	.079730	-.022789
53	-.014222	.013884	.080392	-.028087
54	.005912	.000262	.066473	-.032906
55	.009552	-.016925	.043801	-.039731
56	.001209	-.029352	.026048	-.043514
57	.000195	-.042126	.024371	-.038276
58	.012741	-.045231	.023013	-.023488
59	.030784	-.040701	.013805	-.002612
60	.038962	-.038094	-.010241	.023074

RUN NO. 82C 16M 11-02-62 0642-0743 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	.048790	-.032940	.061239	.026218	.036415	-.066663
1	.225149	-.214468	.458470	.240967	.089179	-.707983
2	.259139	-.037054	.396149	.241396	.048183	-.708676
3	.459352	-.051400	.262914	.128257	.115446	-.724584
4	.595837	-.342529	.203982	-.040055	.164807	-.704647
5	.640337	-.286539	.202703	-.029742	.169292	-.530648
6	.508856	-.183686	.165340	.037284	.186560	-.639800
7-8	.191452	-.192084	.162240	-.048182	.175275	-.747506
9-11	.105538	-.055080	.066967	-.038335	.100929	-.366541
12-15	.091849	-.107391	.032580	-.112035	.062609	-.307038
16-20	.081459	-.089337	.035945	-.075927	.020040	-.203277
21-27	.045778	-.036343	.021437	-.029277	.026748	-.179261
28-36	.013573	-.015009	.007928	-.010563	.014059	-.105388
37-47	.001435	-.001356	-.001702	-.005855	.003244	-.050421
48-60	.002926	-.001412	.002052	-.003601	.001646	-.018155

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-04
1	-.016375	.137408	.077930	-.108862	.207035	.083832
2	-.137607	.079554	.085007	-.187658	.191469	.157030
3	-.312087	-.102597	.103528	-.219802	.084293	.170813
4	-.303657	-.157575	.158927	-.077419	-.005859	-.066009
5	-.140600	-.145322	.142723	-.047888	.034525	.052747
6	-.174690	-.170855	.065007	-.108472	.050298	-.077877
7-8	-.055751	-.104741	.047561	.027226	-.003854	-.401397
9-11	.058072	-.015752	.032850	-.033032	-.002494	.035342
12-15	.097054	-.015635	.032542	.024597	-.020136	.041583
16-20	.009109	.005423	.008429	.013384	-.017702	-.031584
21-27	.000470	-.017907	.001352	-.009189	.003231	.017035
28-36	.014637	-.011771	.004190	.005924	-.006757	-.001571
37-47	-.002868	-.001326	.000367	.000870	-.001831	.021082
48-60	-.001835	.002829	-.000705	-.001654	-.001012	.001090

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.031882	.024970	.020994	.046498
1	.270481	.179693	.363696	.383716
2	.342033	.207811	.557616	.460961
3	.415957	.228442	.677749	.498708
4	.340546	.193593	.533455	.349735
5	.223081	.188292	.363851	.220745
6	.180647	.189931	.395785	.191865
7-8	.136700	.134753	.394862	.160007
9-11	.084592	.078419	.210777	.107167
12-15	.068842	.073685	.193708	.071648
16-20	.048926	.041963	.160495	.046169
21-27	.031377	.023106	.091995	.034306
28-36	.019976	.012691	.067624	.021324
37-47	.010788	.006974	.043895	.010163
48-60	.008085	.004404	.025861	.005905

RUN NO. 82C 16M 11-02-62 0642-0743 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
	0.28176 10E-01	0.89748 10E-02	0.94910 10E-02	0.83982 10E-02	0.88813 10E-02	0.28289 10E-02
0	.155395	-.100925	.252510	.216866	.090803	-.123842
1	.059474	.020763	.130714	.196338	.016008	-.008041
2	.083286	-.001180	.077797	.147667	.018530	.006648
3	.050036	-.032913	.024882	.073307	.017333	.003895
4	.061787	.143724	-.059950	.075894	-.034936	.057966
5	-.004817	.053712	-.052144	.047158	-.085799	.041758
6	-.003108	.030862	-.064857	.010140	-.116805	.006239
7	.005658	-.015067	-.061776	-.025091	-.086757	-.009817
8	-.032138	-.011495	-.104422	-.022929	-.098358	-.016000
9	-.040370	-.012435	-.041242	-.107966	-.046214	-.032725
10	-.076317	-.024753	-.067359	-.121164	-.055825	-.040879
11	-.099564	-.096013	-.044820	-.122250	-.024945	-.021889
12	-.087936	-.076718	-.048993	-.159686	-.020114	-.014845
13	-.092736	-.013487	-.086751	-.181344	-.033399	-.070316
14	-.071783	.018598	-.124781	-.192028	.000844	-.018830
15	-.069269	-.059690	-.096886	-.192343	-.013524	.034598
16	-.097910	.013421	-.080096	-.081359	-.002496	.021782
17	-.069216	-.030416	-.073979	-.062146	.019450	.008719
18	-.052184	-.009693	-.039728	-.046156	.094699	-.044567
19	.012124	.012765	.001003	-.007559	.090680	-.004942
20	.039523	-.020142	.053775	.017351	.121164	.006790
21	.049318	-.014131	.108689	.001680	.109484	-.035431
22	.057590	.024390	.090683	.072260	.093361	.005156
23	.119922	.003442	.131296	.132658	.097078	-.021334
24	.089368	.063486	.169648	.108594	.118536	-.031344
25	.029673	.053414	.110327	.131280	.071552	.062152
26	.045210	.091089	.108502	.089441	.042348	.082272
27	.074966	.026851	.094310	.050897	.068942	.016934
28	-.020570	-.042834	.021315	.100060	.047405	-.013849
29	-.002009	-.041770	.011347	.063726	.004915	.000305
30	.003472	-.018523	.033487	.040325	-.013226	.001327

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-03	10E-03	10E-03	10E-04
0	-.007107	-.011827	-.077340	-.025828	-.073664	-.098906
1	.049736	.045246	-.027132	.339427	-.336622	-.099305
2	.117512	.124508	.370605	.650295	.007461	.144938
3	.096769	.075734	.408127	.521644	.277268	.110776
4	.009200	-.067108	.186938	.078924	.198774	-.085088
5	.005072	-.154424	.277387	.010770	.155477	-.366439
6	.011230	-.183127	.279151	.085033	.144051	-.472261
7	.003501	-.112365	.139924	.103889	.031049	-.286286
8	.014964	-.054385	.077927	.048867	-.043645	-.219150
9-11	-.000908	-.039010	.086738	.056777	-.034984	-.148494
12-14	.004269	.101675	.017691	.009535	.006997	-.069063
15-21	.013254	-.072829	.049117	-.014841	.047045	-.151188
22-30	.018209	-.076985	.054972	.011964	.036284	-.189945

RUN NO. 82C 16M 11-02-62 0642-0743 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
	0.28176 10E-01	0.89748 10E-02	0.94910 10E-02	0.83982 10E-02	0.88813 10E-02	0.28289 10E-02
1	.009335	.035942	.058029	-.071685	.040793	.014347
2	.052196	.091545	.059329	-.052925	.069445	.023332
3	.055625	.035655	.098174	.012336	.043397	.061710
4	.023735	.015221	.098260	-.015015	.002293	.058394
5	.041187	-.001005	.071399	.002159	.000355	.076075
6	.012294	.055863	.083684	-.006338	-.015661	.010106
7	.019405	.071245	.114918	.050085	-.072020	-.035266
8	.012367	.070962	.034333	.068795	-.014270	.041984
9	.036669	.066045	.024270	.008099	.042524	.071715
10	.032938	.067015	.013842	.000016	.015969	.103293
11	.028292	.034893	-.015312	.046341	.008290	.074355
12	-.025278	-.019334	.024686	-.004373	.018354	.062792
13	-.054956	.003528	-.033621	-.004898	.049840	.056182
14	-.078495	-.001559	-.094761	-.001789	.033373	-.014284
15	-.087363	.003680	-.066231	.004308	.035349	-.026633
16	-.102418	-.030757	-.088671	-.019075	.070668	.058663
17	-.095251	-.012586	-.131784	.004238	.046491	.018368
18	-.028759	.021929	-.121761	.003003	.011543	-.037623
19	-.020118	.019717	-.102408	.002270	-.038816	-.044978
20	-.000332	.005138	-.098400	-.022749	-.053033	-.013522
21	.038028	-.011761	-.083146	.014637	-.042141	-.008490
22	-.006521	.026135	-.036265	-.010050	-.026310	-.052888
23	-.040877	.052985	-.024718	-.030808	-.028616	-.017124
24	-.012844	.001736	-.019199	-.042711	.008616	.031395
25	-.005343	-.024660	-.022136	-.035782	.016452	-.001908
26	.007485	.005729	-.067630	.004331	-.013982	-.051590
27	.023532	.023699	-.063131	.021529	-.037383	-.063732
28	.062078	.048252	-.026147	.034638	-.022592	-.026979
29	.053806	.038137	-.023044	.067731	-.063293	-.020603
30	.071368	.006554	-.037848	.029258	-.090976	-.005802

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-04
1	-.262794	.249238	-.027314	.059409	.109109	.935950
2	.392464	.200470	.353865	.054447	.038285	.725536
3	.703592	.162849	.415459	.000523	-.054566	.263725
4	.191977	.045131	.148467	-.060537	.010009	-.071709
5	-.175545	-.041406	.063721	-.100852	.141633	.087431
6	.156871	-.007998	.085548	-.102244	.122449	.322957
7	.419780	.067080	.022094	-.062941	.098743	.384960
8	.157818	.113037	-.006340	-.045925	.137414	.253254
9-11	-.031253	.096382	.035616	-.026579	.022960	-.285411
12-14	.023701	.038839	-.004069	-.083477	.016872	-.064236
15-21	-.087855	-.029691	.029496	-.038462	-.012734	.027606
22-30	.022376	-.037005	.009299	.029559	.003751	.065546

RUN NO. 82C 16M 11-02-62 0642-0743 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.30111 10E-01	0.26366 10E-01	0.26750 10E-02	0.29916 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.534183	.619343	.132302	.504682
2	.356210	.543081	-.052300	.250608
3	.269815	.401007	.002690	.167632
4	.155810	.325418	-.135229	.024277
5	.019757	.202336	.091101	-.092260
6	.004916	.079617	-.007132	-.072275
7	-.078300	.057364	-.058716	-.085593
8	-.063419	-.078370	.042455	-.132158
9	-.079368	-.126604	-.086751	-.099493
10	-.126658	-.227413	-.094805	-.152752
11	-.177250	-.333128	-.040467	-.160444
12	-.163191	-.366818	-.054168	-.129365
13	-.179504	-.419864	-.181635	-.157796
14	-.165268	-.375404	-.115042	-.136920
15	-.154338	-.342801	-.084605	-.035417
16	-.107209	-.351443	-.059204	-.036866
17	-.005367	-.312622	-.090212	-.066986
18	.062798	-.314841	.022017	-.073794
19	.061914	-.227365	-.050650	-.066968
20	.093314	-.207484	.057332	-.007452
21	.038753	-.071087	.140900	.079705
22	.027639	-.006077	.072504	.065871
23	-.051929	.091412	.104720	.062106
24	-.104972	.076093	-.028188	.099381
25	-.089197	.141607	-.028795	-.044319
26	-.008470	.098245	.075081	-.089301
27	-.013749	.150554	.072259	-.025605
28	-.056100	.095700	.030001	-.061650
29	-.120319	.093847	.009823	-.093624
30	-.099509	.077094	.166066	.004839

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.103803	.064841	.008626	.046672
1	.489120	.642850	.105736	.314246
2	.434233	.662240	.158119	.354774
3	.420397	.427881	.152045	.373259
4	.244280	.130162	.071262	.270697
5	.140180	.081700	.081357	.211688
6	.172363	.072849	.122980	.177263
7	.141312	.079463	.120395	.158332
8	.079506	.079594	.126994	.153655
9-11	.063036	.033152	.136977	.084224
12-14	.070163	.041144	.108262	.063126
15-21	.072941	.039335	.106470	.087889
22-30	.061647	.058920	.130814	.054465

RUN NO. 82C 40M 11-02-62 0642-0743 EST

GROSS STATISTICS

1 CI
TRANSITIONAL
LAND

WIND SPEED	4.17 M/SEC	WIND DIRECTION	2 DEG
SIGMA A	4.6 DEG	SOLAR RADIATION	0.14
SIGMA E	1.6 DEG	NET RADIATION	-0.03

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.41259E-00	0.44291E-01	0.30415E-01	0.28098E-01
V	0.10550E-00	0.41048E-01	0.26209E-01	0.26222E-01
W	0.12362E-01	0.11123E-01	0.10817E-01	0.37035E-02
T	0.10633E-00	0.80808E-02	0.56870E-02	0.56216E-02
E	0.26522E-00	0.48247E-01	0.33722E-01	
GUSTINESS RATIOS				
U	0.15404	0.05047	0.04182	0.04020
V	0.07789	0.04859	0.03882	0.03883
W	0.02666	0.02529	0.02494	0.01460
COVARIANCES				
U,V	0.28472E-02	0.14484E-01	0.72375E-02	0.10946E-01
U,W	-0.20194E-02	-0.38635E-02	-0.42211E-02	-0.15982E-02
U,T	-0.13722E-00	0.73410E-02	0.52990E-02	0.52153E-02
V,W	-0.67682E-02	-0.37442E-02	-0.39269E-02	-0.17275E-02
V,T	0.48179E-01	0.82878E-02	0.67210E-02	0.53664E-02
W,T	-0.39924E-02	-0.21340E-02	-0.23966E-02	-0.94315E-03
WE	-0.13186E-03	0.51279E-03	-0.20200E-03	
NORMALIZED COVARIANCES				
U,V	0.01365	0.33970	0.25634	0.40324
U,W	-0.02828	-0.17407	-0.23271	-0.15663
U,T	-0.65511	0.38803	0.40291	0.41496
V,W	-0.18741	-0.17523	-0.23322	-0.17525
V,T	0.45489	0.45506	0.55051	0.44199
W,T	-0.11012	-0.22509	-0.30556	-0.20665

RUN NO. 82C 40M 11-02-62 0642-0743 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.28234 10E-01	0.18137 10E-01	0.13152 10E-01	0.16838 10E-01	0.12210 10E-01	0.78434 10E-02
0	.256346	-.232756	.402558	-.233303	.550634	-.305728
1	.227120	-.182868	.367890	-.161511	.485668	-.244678
2	.162853	-.117346	.302048	-.075562	.373159	-.165112
3	.110072	-.082104	.237247	-.030793	.275683	-.111053
4	.084081	-.064461	.187122	-.014890	.200249	-.081091
5	.066133	-.046981	.143619	-.020612	.149213	-.068491
6	.041258	-.031092	.105944	-.027389	.116190	-.056324
7	.014916	-.015651	.075593	-.037537	.093203	-.050338
8	.003172	.002567	.045219	-.040527	.068986	-.029744
9	-.004194	.017673	.015844	-.041586	.039623	-.003768
10	-.010036	.024333	-.008030	-.030480	.009487	.014256
11	-.021182	.027363	-.022216	-.003623	-.025800	.027645
12	-.030218	.031426	-.034551	.012797	-.049407	.039321
13	-.038997	.047217	-.048587	.018574	-.069609	.048126
14	-.041747	.063370	-.063804	.023102	-.091034	.053682
15	-.038473	.069747	-.074895	.045639	-.112314	.066201
16	-.035990	.072141	-.082022	.060173	-.126464	.077500
17	-.036444	.070888	-.089033	.061265	-.136529	.081372
18	-.039497	.069274	-.085806	.060609	-.137387	.079906
19	-.037847	.064219	-.085600	.052071	-.133268	.071762
20	-.036627	.065994	-.088124	.048521	-.131447	.067663
21	-.036724	.061997	-.090766	.057192	-.135738	.074895
22	-.036495	.056543	-.093154	.065000	-.142766	.078848
23	-.042883	.058043	-.100076	.061670	-.143917	.076754
24	-.055074	.054415	-.105576	.046980	-.137865	.072429
25	-.066551	.045251	-.110926	.038939	-.135165	.055087
26	-.069660	.033735	-.110585	.023647	-.130213	.037742
27	-.067014	.026020	-.107186	.011943	-.117637	.033562
28	-.058248	.031872	-.103957	.011954	-.102726	.037090
29	-.039951	.030273	-.093837	.009120	-.089322	.042623
30	-.020430	.014050	-.076569	.009616	-.078716	.042911
31	-.007138	-.006996	-.055846	.001793	-.063914	.030855
32	-.000897	-.025491	-.042448	-.005190	-.040442	.019140
33	-.004174	-.036005	-.039080	-.014727	-.017389	.004788
34	-.002592	-.038236	-.033997	-.019241	.001435	-.007379
35	-.004112	-.042008	-.027976	-.019397	.019462	-.013269
36	-.006060	-.041722	-.022866	-.017050	.026985	-.019308
37	-.000041	-.039103	-.018784	-.012132	.026384	-.024240
38	.003236	-.027841	-.017650	-.017280	.026482	-.032924
39	.008424	-.018317	-.017083	-.016202	.025801	-.036411
40	.014945	-.015450	-.008883	-.011902	.031000	-.036755
41	.016200	-.014548	.007045	-.015101	.037666	-.039791
42	.009775	-.022201	.012617	-.013871	.037608	-.035299
43	.004706	-.025587	.012846	-.019133	.039118	-.021823
44	.001345	-.025634	.007262	-.015672	.039495	-.013345
45	-.005341	-.026321	-.000911	-.008112	.036031	-.005362
46	-.009191	-.027536	-.000999	.001847	.026702	.005042
47	-.013335	-.028473	.003215	.012039	.018021	.006422
48	-.021820	-.027932	.003779	.016408	.009505	.002620
49	-.026745	-.018920	-.000908	.023245	-.002102	.002325
50	-.029530	-.013201	-.008002	.033665	-.013643	.015770
51	-.023999	-.010953	-.015897	.032585	-.018658	.017370
52	-.023296	-.005487	-.014154	.038390	-.021063	.017552
53	-.022387	-.003943	-.003926	.043861	-.027687	.020318
54	-.023282	-.004969	.005229	.044582	-.039636	.020552
55	-.019665	-.004029	.020118	.034872	-.040726	.012111
56	-.018235	.001691	.031153	.025424	-.027953	.001745
57	-.010154	.004255	.039711	.021110	-.011217	-.003832
58	-.001254	.011077	.045079	.004506	.001402	-.006306
59	.009936	.019961	.050040	-.014272	.005246	.001687
60	.020712	.017345	.048557	-.030714	.003208	.005162

RUN NO. 82C 40M 11-02-62 0642-0743 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.28234 10E-01	0.18137 10E-01	0.13152 10E-01	0.16838 10E-01	0.12210 10E-01	0.78434 10E-02
1	.045749	-.025269	.035484	-.013690	-.006057	.036813
2	.055276	-.032629	.055047	-.036458	-.002618	.065228
3	.057452	-.037251	.071546	-.046382	.005482	.073928
4	.069381	-.043649	.084517	-.060998	.014971	.077774
5	.076799	-.052398	.091198	-.066079	.026404	.082142
6	.073831	-.047385	.096367	-.070944	.040050	.075980
7	.065687	-.052485	.104908	-.075303	.054283	.070839
8	.057653	-.049327	.109043	-.078855	.065137	.060503
9	.053573	-.042518	.105502	-.076123	.067910	.050896
10	.055115	-.034583	.102107	-.073717	.062332	.048368
11	.051775	-.029046	.099129	-.076341	.062001	.043096
12	.045547	-.027106	.095742	-.072934	.061783	.032181
13	.040215	-.017002	.088079	-.063222	.059548	.020277
14	.040026	-.003147	.076168	-.037617	.051221	.006686
15	.043179	-.000678	.067430	-.024270	.045640	-.002900
16	.046986	-.004630	.063873	-.015654	.039416	-.010963
17	.048139	-.000475	.059199	-.002013	.033081	-.018977
18	.040883	.007764	.052048	.007507	.026362	-.024035
19	.029748	.005631	.041711	.005355	.011910	-.018234
20	.019763	-.002240	.028375	.002272	-.005282	-.006264
21	.014637	-.007786	.011931	.000827	-.015298	.006329
22	.009794	-.001476	-.000090	.005409	-.023125	.016550
23	.013262	-.007145	-.006186	.013620	-.032340	.023808
24	.016013	-.005341	-.005970	.011916	-.037869	.025544
25	.015878	-.010123	.000678	.003701	-.030618	.030052
26	.001453	-.013945	.002230	-.013590	-.019565	.033547
27	-.016775	-.013649	-.003032	-.026560	-.017979	.040833
28	-.028932	-.018598	-.014904	-.034271	-.018757	.051180
29	-.035902	-.022877	-.028518	-.035690	-.029251	.055138
30	-.037301	-.021929	-.037144	-.028523	-.041362	.049126
31	-.038871	-.032744	-.040329	-.024823	-.049435	.041408
32	-.033792	-.044172	-.045718	-.022602	-.055124	.042206
33	-.029203	-.033207	-.053033	-.013270	-.056274	.034274
34	-.026267	-.018545	-.050841	.000702	-.050824	.018203
35	-.024148	-.002045	-.042689	.004031	-.039217	-.003181
36	-.021699	.005158	-.028574	.008281	-.032882	-.021746
37	-.023737	.004087	-.012798	.017518	-.030923	-.029984
38	-.022229	.008308	.002485	.027551	-.027807	-.036386
39	-.012378	.024700	.012748	.038434	-.023494	-.034149
40	.000945	.031190	.022519	.036192	-.018965	-.032228
41	.012761	.028460	.026956	.031782	-.016648	-.025670
42	.019134	.026310	.025182	.028713	-.014447	-.017820
43	.018395	.023256	.024977	.022762	-.009279	-.010668
44	.017603	.023148	.025711	.010587	-.002729	-.003175
45	.014503	.014679	.028704	.001987	.008223	-.009189
46	.005112	.005653	.030789	-.009310	.021773	-.020906
47	.000284	.011588	.025009	-.011356	.025620	-.019008
48	.008810	.013408	.018143	-.001680	.025083	-.016566
49	.015873	.013118	.014396	.004267	.029485	-.019880
50	.012521	.008020	.013302	-.001749	.037061	-.019372
51	.012523	-.004957	.012078	-.011345	.037271	-.019003
52	.003119	-.015930	.007304	.001516	.036547	-.023677
53	-.004377	-.011789	.004976	.001146	.034586	-.029133
54	.001979	.006216	.003315	.005901	.028951	-.030979
55	.013266	.013432	-.002661	.009506	.023606	-.028338
56	.014572	.019680	-.007218	.007948	.020298	-.023648
57	.010853	.025562	-.008131	.009819	.019234	-.024680
58	.009543	.023251	-.010073	.018643	.016001	-.024863
59	.009898	.020497	-.014389	.022444	.010682	-.019461
60	.006227	.029117	-.019499	.021754	.010417	-.012263

RUN NO. 82C 40M 11-02-62 0642-0743 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.30413 10E-01	0.26212 10E-01	0.10816 10E-01	0.56875 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.793572	.780622	.620524	.868621
2	.558396	.506461	.319955	.680105
3	.408462	.313754	.188043	.529921
4	.303814	.194233	.110484	.412661
5	.223693	.128604	.073304	.322323
6	.146688	.096850	.050385	.248896
7	.069931	.077908	.029041	.186838
8	.012725	.050530	-.010250	.126385
9	-.017389	.021323	-.039781	.069455
10	-.045259	-.009817	-.073444	.012736
11	-.067946	-.056662	-.104991	-.036540
12	-.093002	-.093577	-.117765	-.074912
13	-.106088	-.111182	-.116025	-.109689
14	-.112014	-.116645	-.116878	-.150747
15	-.132055	-.129749	-.131164	-.190365
16	-.162394	-.155481	-.139227	-.223135
17	-.193961	-.167701	-.145750	-.246357
18	-.213215	-.172716	-.147181	-.259079
19	-.220307	-.173688	-.129336	-.266680
20	-.209928	-.178522	-.102750	-.271745
21	-.203909	-.191740	-.098368	-.277394
22	-.195105	-.203823	-.116606	-.281091
23	-.182090	-.199954	-.133349	-.281471
24	-.164788	-.193138	-.116735	-.285887
25	-.147144	-.194096	-.097388	-.286427
26	-.146355	-.199256	-.074894	-.277907
27	-.152947	-.181611	-.066928	-.259510
28	-.152987	-.152224	-.084024	-.235474
29	-.132689	-.126801	-.096549	-.208657
30	-.096245	-.110279	-.088997	-.179029
31	-.056479	-.081844	-.063141	-.141027
32	-.043664	-.050861	-.032130	-.102442
33	-.032712	-.014739	-.001353	-.067182
34	-.016820	.019066	.023553	-.034240
35	-.000839	.047075	.043643	-.006665
36	.014709	.059328	.043975	.013234
37	.023656	.061406	.040341	.029029
38	.027409	.061721	.056133	.045613
39	.029114	.053803	.039042	.066507
40	.042345	.058620	.020851	.085520
41	.056133	.070664	.026173	.094076
42	.052268	.073530	.043221	.088492
43	.037838	.073577	.048649	.082647
44	.024012	.072147	.030977	.080665
45	.016806	.066220	.026756	.074894
46	.011306	.056072	.017404	.062507
47	.002553	.040161	.023427	.048272
48	-.001256	.024689	.047457	.037734
49	-.001926	.017412	.044281	.023724
50	-.002823	.024706	.038193	.005531
51	-.010360	.032074	.041938	-.004760
52	-.021027	.029577	.029993	-.006473
53	-.019969	.013970	.022337	-.008782
54	-.014706	-.010124	.005135	-.011276
55	-.015703	-.023674	-.003956	-.007349
56	-.016274	-.018049	.004753	.001002
57	-.006194	-.019371	-.004483	.008252
58	.004162	-.026866	-.019959	.012313
59	.025644	-.033202	-.060329	.011549
60	.045186	-.027002	-.075746	.002552

RUN NO. 82C 40M 11-02-62 0642-0743 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-03	10E-03	10E-03	10E-02	10E-03
0	.009744	-.000870	.084796	-.028674	.010192	-.016652
1	.083486	-.157948	.814359	-.270112	.083278	-.199631
2	.099733	-.464790	.977843	-.393653	.108530	-.313929
3	.108719	-.743342	.957112	-.524117	.121280	-.395974
4	.074688	-.549203	.601276	-.335181	.075718	-.266422
5	.049473	-.265255	.385848	-.078330	.040201	-.140737
6	.053596	-.192840	.340779	-.017094	.034632	-.116256
7-8	.039659	-.170494	.228518	-.065221	.025345	-.071455
9-11	.019782	-.130293	.123178	-.143829	.019860	-.064870
12-15	.014832	-.080208	.069322	-.167301	.014589	-.059095
16-20	.008726	-.073434	.049150	-.110679	.008146	-.049925
21-27	.008227	-.050570	.017549	-.065985	.003103	-.021215
28-36	.000940	-.032620	.009603	-.033328	.001793	-.014032
37-47	.000003	-.012497	.002116	-.019247	.000871	-.006147
48-60	-.000089	-.007584	.002393	-.012364	.000354	-.004934

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	.487260	-.241641	.384059	-.338951	.034129	.155491
2	.640591	-.201528	.450124	-.348273	.215114	.120208
3	.713706	-.144771	.522462	-.335365	.317886	.074462
4	.363671	-.199898	.307520	-.320479	.149350	.116772
5	.145652	-.266390	.109756	-.314558	.016234	.189492
6	.241491	-.141122	.105798	-.125635	-.028745	.139282
7-8	.203292	-.051164	.033010	.044212	-.062849	.029637
9-11	.118065	-.006293	.034314	-.007360	-.019354	.025053
12-15	.030586	-.014646	.014355	-.024014	-.021001	.020819
16-20	.015910	-.012955	.008063	.008960	-.003223	.004660
21-27	.045413	-.009821	.003024	.002808	-.005907	.006336
28-36	.030750	-.010814	.005357	.001817	-.000389	-.000041
37-47	.009757	-.000127	.002828	.005135	-.001488	-.002546
48-60	.001233	-.006284	.000980	.005406	.000087	.000611

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-02	10E-02
0	.036370	.024372	.003724	.007839
1	.300262	.213605	.048991	.074314
2	.387736	.308096	.082636	.100313
3	.442337	.358941	.107142	.107121
4	.309839	.224963	.082910	.061346
5	.194390	.131846	.060234	.031936
6	.167551	.136582	.054932	.029357
7-8	.136635	.117535	.040553	.021197
9-11	.100845	.090634	.033697	.014948
12-15	.050717	.075988	.028977	.009281
16-20	.042578	.047862	.025222	.006332
21-27	.032157	.026563	.017014	.003254
28-36	.017398	.015261	.013182	.001911
37-47	.012159	.009147	.009760	.001123
48-60	.006969	.006205	.006625	.000606

RUN NO. 82C 40M 11-02-62 0642-0743 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
	0.27149 10E-01	0.10207 10E-01	0.12575 10E-01	0.98539 10E-02	0.12140 10E-01	0.45642 10E-02
0	.403161	-.156584	.414733	-.175314	.442020	-.206643
1	.272613	-.043855	.203910	-.111532	.208470	-.053934
2	.198625	.047860	.047902	-.021801	.029547	.082661
3	.130193	-.021043	-.024745	-.033816	-.060879	.087910
4	.086853	-.019188	-.054244	.052006	-.140807	.093643
5	.062633	-.022505	-.031030	.024453	-.157736	.046091
6	.047156	.017771	-.013514	-.001537	-.150595	.012837
7	.013714	.016960	-.049785	-.004760	-.164507	.018965
8	-.013544	.058835	-.052485	.009867	-.089163	.010200
9	-.038518	.037181	-.030728	.000601	.011093	-.060071
10	-.031127	.002698	.054340	-.026413	.081186	-.101199
11	-.092286	.060621	.069157	.011175	.075207	-.089086
12	-.169587	.011511	.004735	.025648	.048950	-.051065
13	-.192928	-.003288	-.039014	.034141	-.009688	-.013766
14	-.224670	.016331	-.081846	.068951	-.060042	.046269
15	-.226803	.030433	-.072956	.084033	-.042145	.063982
16	-.181812	-.030029	-.027819	.062204	-.025287	-.010064
17	-.104390	-.051697	.016841	.073917	.013168	-.017485
18	-.096653	.021134	.006531	.021550	.021001	.013756
19	-.053399	.046588	.042304	.008986	.078822	-.017193
20	.004649	.001478	.085409	.003632	.055854	-.044497
21	.024899	.027122	.100820	-.050513	.087023	-.011640
22	.020965	.027938	.079747	-.024775	.045538	-.018308
23	-.009689	.020085	.033384	.006095	.005208	.037532
24	-.027155	.011650	.015410	.004028	-.013381	.021624
25	-.020326	-.023854	.022244	-.000433	.002020	.017111
26	.001115	-.027634	.023661	-.020604	-.010214	.017954
27	-.010128	-.003621	-.006352	.000325	-.012898	.034933
28	.008336	.009342	-.012692	.011030	-.037061	.019979
29	.001975	-.057127	-.039009	-.038664	-.022020	-.044402
30	.027926	-.044967	-.042992	-.088734	.029849	-.065105

COSPECTRUM

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
0	.020850	.016292	.121043	-.005989	-.032511	-.001423
1	.252891	-.048585	.360772	-.195266	-.116119	.026940
2	.270863	-.115425	.344374	-.240464	.100849	.050573
3	.170918	-.148748	.426466	-.146874	.397364	.047571
4	.025281	-.137341	.324732	-.047465	.576714	-.005123
5	.032087	-.042712	.464222	-.160053	.796329	-.099852
6	.085069	.013553	.580726	-.240245	.862957	-.162071
7	.061631	-.025133	.351276	-.151406	.505437	-.110767
8	.024974	-.027581	.164325	-.093750	.163698	-.043410
9-11	.027949	-.085772	.321604	-.086504	.212631	-.086243
12-14	.017950	-.126995	.160003	-.021293	.200052	-.060424
15-21	.011423	-.092478	.106604	-.050851	.123179	-.036428
22-30	.017096	-.016893	.098725	.000679	.095351	-.016027

RUN NO. 82C 40M 11-02-62 0642-0743 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
	0.27149 10E-01	0.10207 10E-01	0.12575 10E-01	0.98539 10E-02	0.12140 10E-01	0.45642 10E-02
1	.078067	-.062088	.100221	-.180063	-.003329	.148123
2	.093930	-.061121	.089859	-.119164	-.059854	.064074
3	.085684	-.114184	.067157	-.167591	-.110526	.094722
4	.081584	-.008123	.025373	-.120182	-.109509	.047604
5	.086428	.006196	-.026987	-.069706	-.105294	-.025783
6	.101146	.032211	-.055900	-.032337	-.121340	-.064837
7	.068975	.054373	-.089223	.006390	-.139033	-.084247
8	.065775	-.030359	-.101950	.010849	-.144416	-.070869
9	.043174	-.015581	-.098360	.051587	-.084055	-.076764
10	.031323	.012347	-.067509	.032359	-.042350	-.052733
11	.031659	-.041111	-.026543	.023956	-.033906	-.023412
12	.060679	-.039889	.015102	-.025814	-.027366	.001789
13	.059054	-.035147	-.009434	-.033637	-.041441	.035231
14	.038699	-.018475	-.010096	.005672	-.021455	.069992
15	-.031248	-.051482	.016944	-.016382	.026233	.049481
16	-.040925	.054979	.003507	.047283	.035152	-.009298
17	-.105448	.080011	-.015611	.029929	.073253	-.021469
18	-.162768	.136939	-.066389	.092036	.099408	-.044210
19	-.119427	.080359	-.043973	.081394	.107107	.000790
20	-.123090	.018539	-.024186	-.003995	.154719	.042977
21	-.132740	-.021763	-.023908	-.056113	.146181	.067710
22	-.090145	-.031175	-.011161	-.098387	.114606	.057952
23	.002685	-.027904	.026727	-.063607	.076277	.015342
24	.038647	-.039643	.019873	-.047592	.049720	.014438
25	.039919	-.040980	.056858	-.049372	.024421	-.018101
26	.048837	-.009808	.067320	.005201	-.002366	-.048617
27	.043306	-.039184	.000175	-.003799	-.035714	.001489
28	.025513	.058139	-.027576	-.000562	-.008558	-.053189
29	.047178	.002028	-.007868	.007653	-.031314	-.055985
30	.014513	.022867	-.032223	.090606	-.053294	-.107259

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	.061463	-.023594	-.355032	-.106003	-.436478	-.037867
2	.123675	-.104370	-.185657	-.186621	-.714364	-.051809
3	.092077	-.083053	-.017200	-.327439	-.501366	-.011418
4	.012178	.024302	.165473	-.314225	-.106291	.073077
5	.044400	-.136625	.397214	-.363747	-.092547	.144408
6	.049957	-.293988	.408285	-.396554	.008420	.169016
7	.002580	-.156111	.225487	-.174398	.098502	.090160
8	-.001849	-.094192	.130974	-.067375	.025669	.034865
9-11	.020533	-.073800	.075910	-.099682	-.041120	.043019
12-14	.010162	.038153	.067031	-.042309	.096285	.016807
15-21	.003069	.017456	.041086	-.086077	.033184	.039310
22-30	.000754	-.086400	.017187	-.076097	-.002605	.033035

RUN NO. 82C 40M 11-02-62 0642-0743 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.28121 10E-01	0.26211 10E-01	0.37045 10E-02	0.56233 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.513398	.621900	.223558	.564330
2	.274275	.421912	.017727	.184577
3	.175246	.311229	-.002623	.001949
4	.131068	.210875	-.135083	-.077673
5	.036773	.085979	-.012117	-.121624
6	.029779	-.015606	-.123194	-.145410
7	-.035290	-.094740	-.065108	-.220128
8	-.073656	-.087972	-.170719	-.159526
9	-.039763	-.105360	-.051368	-.077158
10	.034585	-.134926	.040431	-.000839
11	.016148	-.183631	-.039669	-.001311
12	-.066141	-.202585	.041077	-.069729
13	-.047167	-.288029	-.195892	-.111413
14	-.100570	-.386400	-.137570	-.165209
15	-.095911	-.376007	-.124233	-.152397
16	-.115945	-.370739	-.063283	-.049280
17	-.094185	-.294966	.025505	.036072
18	-.159198	-.228591	-.118075	.043873
19	-.129973	-.133644	.067398	.086499
20	-.062376	-.077290	.123491	.075414
21	-.026048	.009938	.190967	.069865
22	-.020886	.052058	.103480	.026798
23	-.055572	.021739	-.066237	-.019019
24	-.068063	.043041	.001187	-.014123
25	-.050973	.064218	-.104061	.006761
26	-.019635	.078635	.019193	-.020613
27	-.067477	.104399	-.052202	-.071527
28	-.053729	.054961	.009276	-.094962
29	-.110941	.030127	.050056	-.085275
30	-.086708	.066434	-.063010	-.062759

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-03	10E-03
0	.107936	.047074	.006370	.060588
1	.488553	.505346	.123264	.388020
2	.339297	.542639	.211756	.491241
3	.250038	.375465	.258108	.629112
4	.203370	.156150	.189117	.544840
5	.206781	.172597	.225327	.527295
6	.168393	.179062	.282373	.574543
7	.107918	.090222	.183204	.410900
8	.085209	.038047	.116258	.191401
9-11	.094499	.054049	.172155	.241211
12-14	.082678	.060875	.134497	.200576
15-21	.066704	.046869	.135188	.101379
22-30	.057230	.041925	.150907	.075020

RUN NO. 82C 16M 11-02-62 0642-0743 EST
RUN NO. 82C 40M 11-02-62 0642-0743 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	.034695	.107648	.130830	.102683
1	.120789	.250732	.253021	.108882
2	.103711	.201457	.257188	.149077
3	.066754	.151485	.235178	.142326
4	.047689	.045673	.193933	.136093
5	.115387	.109283	.135260	.103435
6	.196511	.207913	.029070	.156363
7-8	.164046	.095246	.102781	.184974
9-11	.147112	.099109	.121921	.182462
12-15	.092811	.092879	.114123	.068356
16-20	.096637	.158434	.147417	.094918
21-27	.077223	.148635	.079550	.141889
28-36	.139437	.094184	.134390	.113737
37-47	.093868	.081273	.085808	.077747
48-60	.130445	.103512	.109040	.174661

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	.789366	.981831	.054908	.310117
1	.643483	.927654	.459750	.255133
2	.519551	.870599	.494179	.159681
3	.452108	.769656	.445254	.099779
4	.318168	.533623	.266571	.178047
5	.312409	.651273	.162194	.220865
6	.370378	.529143	.045346	.193746
7	.184310	.358556	.078129	.215001
8	.255392	.322136	.181550	.230538
9-11	.215171	.210294	.340405	.340076
12-14	.141869	.319198	.277166	.354845
15-21	.184911	.391535	.288062	.373600
22-30	.238423	.305726	.267658	.217929

RUN NO. 820 16M 11-02-62 0800-0915 EST

GROSS STATISTICS

2 CI
TRANSITIONAL
WATER/LAND

WIND SPEED 4.00 M/SEC
SIGMA A 7.0 DEG
SIGMA E 4.0 DEG

WIND DIRECTION 15 DEG
SOLAR RADIATION 0.53
NET RADIATION 0.21

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.32397E-00	0.19120E-00	0.14927E-00	0.12967E-00
V	0.22478E-00	0.15857E-00	0.11269E-00	0.10086E-00
W	0.69506E-01	0.64837E-01	0.62592E-01	0.24056E-01
T	0.55455E-01	0.23580E-01	0.14475E-01	0.17217E-01
N	0.13537E 01	0.55253E 00	0.29572E-00	0.41429E-00
RHO(W)	0.47875E-01	0.19613E-01	0.11387E-01	0.14332E-01
E	0.30913E-00	0.20747E-00	0.16228E-00	
GUSTINESS RATIOS				
U	0.14230	0.10932	0.09659	0.09002
V	0.11853	0.09955	0.08392	0.07940
W	0.06591	0.06366	0.06255	0.03878
COVARIANCES				
U,V	-0.17564E-01	0.85249E-02	0.76971E-02	0.50168E-02
U,W	-0.47709E-01	-0.36906E-01	-0.35431E-01	-0.24074E-01
U,T	-0.72276E-01	-0.34531E-01	-0.25480E-01	-0.26625E-01
V,W	0.96323E-02	-0.11599E-02	-0.19441E-02	-0.21560E-02
V,T	0.30734E-01	-0.14819E-02	-0.27372E-02	-0.13227E-02
W,T	0.25054E-01	0.18613E-01	0.16763E-01	0.10146E-01
U,N	-0.36496E-00	-0.12092E-00	-0.10384E-00	-0.86941E-01
U,RHO(W)	-0.72162E-01	-0.25829E-01	-0.21417E-01	-0.18922E-01
V,N	0.15896E-00	0.19951E-01	-0.68026E-02	0.20455E-01
V,RHO(W)	0.31288E-01	0.29579E-02	-0.15993E-02	0.30550E-02
W,N	0.10577E-00	0.74729E-01	0.67322E-01	0.38595E-01
W,RHO(W)	0.21664E-01	0.15467E-01	0.13938E-01	0.80918E-02
T,N	0.18150E-00	0.74866E-01	0.54035E-01	0.50174E-01
T,RHO(W)	0.39445E-01	0.16400E-01	0.11374E-01	0.11252E-01
N,RHO(W)	0.25179E-00	0.10289E-00	0.57630E-01	0.76057E-01
WE	0.16251E-01	0.12922E-01	0.75508E-02	
NORMALIZED COVARIANCES				
U,V	-0.06509	0.04896	0.05935	0.04387
U,W	-0.31794	-0.33147	-0.36655	-0.43105
U,T	-0.53923	-0.51427	-0.54815	-0.56349
V,W	0.07706	-0.01144	-0.02315	-0.04377
V,T	0.27527	-0.02424	-0.06777	-0.03174
W,T	0.40355	0.47603	0.55691	0.49852
U,N	-0.55110	-0.37205	-0.49427	-0.37511
U,RHO(W)	-0.57943	-0.42178	-0.51947	-0.43892
V,N	0.28817	0.06740	-0.03726	0.10006
V,RHO(W)	0.30161	0.05304	-0.04464	0.08035
W,N	0.34484	0.39482	0.49483	0.38660
W,RHO(W)	0.37556	0.43373	0.52208	0.43579
T,N	0.66244	0.65590	0.82588	0.59408
T,RHO(W)	0.76553	0.76260	0.88589	0.71628
N,RHO(W)	0.98908	0.98843	0.99312	0.98703

RUN NO. 82D 16M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12967 10E 00	0.96637 10E-01	0.46475 10E-01	0.83977 10E-01	0.40386 10E-01	0.30098 10E-01
0	.059193	-.366555	-.547945	-.023146	-.067583	.556894
1	.061062	-.343282	-.511660	-.041266	-.074180	.460087
2	.069024	-.294396	-.449477	-.059103	-.080979	.318687
3	.071047	-.239780	-.387981	-.061376	-.081431	.223995
4	.059023	-.188546	-.333739	-.057232	-.076184	.159546
5	.044375	-.149129	-.276073	-.046501	-.068978	.118968
6	.030671	-.121309	-.217137	-.024817	-.047840	.101829
7	.021075	-.090987	-.156608	-.003517	-.025625	.076253
8	.011232	-.056790	-.098349	.009274	-.012789	.027004
9	-.001455	-.024304	-.044527	.020481	-.003242	-.022430
10	-.012334	.006577	.003775	.027977	.000181	-.062505
11	-.012459	.037340	.049873	.031419	.001255	-.086737
12	-.004959	.066699	.079604	.032363	-.003258	-.104010
13	-.009449	.100079	.101512	.030876	.000682	-.118579
14	-.018351	.126506	.125599	.023093	.014707	-.122011
15	-.030909	.142761	.148625	.011872	.031378	-.119275
16	-.039031	.148253	.171395	.001073	.046903	-.117345
17	-.042837	.152782	.187975	-.011741	.053277	-.117135
18	-.036386	.147990	.201242	-.019141	.049171	-.120557
19	-.028474	.138301	.206785	-.018086	.041378	-.121681
20	-.020866	.136297	.213007	-.016567	.028239	-.130611
21	-.011228	.138509	.215447	-.011537	.021693	-.134212
22	-.003425	.138006	.213413	-.002036	.021765	-.133869
23	.000426	.133960	.207983	.008000	.021907	-.128987
24	.001958	.135756	.211733	.012465	.013970	-.115535
25	.004881	.129327	.209221	.012262	.002805	-.104015
26	.009933	.117906	.201369	.015013	-.006711	-.096956
27	.016717	.104233	.181984	.018220	-.013126	-.095031
28	.023996	.091853	.161624	.019671	-.012882	-.090653
29	.023765	.073447	.143467	.017455	-.006937	-.083360
30	.011672	.046748	.119079	.016472	.003768	-.062264
31	-.003064	.023012	.091518	.023228	.016559	-.039702
32	-.012917	.006024	.060771	.037060	.026407	-.023729
33	-.021777	-.002303	.024678	.043762	.029258	-.013633
34	-.023595	-.015176	-.008153	.038753	.029607	-.001210
35	-.018269	-.032076	-.033600	.035751	.026143	.006910
36	-.021760	-.047459	-.047981	.035469	.030291	.013848
37	-.037604	-.057877	-.054844	.034210	.042846	.034489
38	-.048267	-.057851	-.051926	.029344	.055617	.048288
39	-.047356	-.053299	-.046285	.016831	.056216	.049138
40	-.044292	-.047035	-.043096	.012517	.048634	.053749
41	-.033823	-.040957	-.044369	.007500	.033065	.061976
42	-.023850	-.046321	-.045082	-.000222	.020257	.065269
43	-.025405	-.040665	-.051338	-.007714	.013382	.067365
44	-.033437	-.038283	-.053180	-.007185	.015936	.076174
45	-.035669	-.047870	-.054603	-.007342	.016040	.090472
46	-.031272	-.058584	-.057975	-.022138	.011032	.086636
47	-.028841	-.062304	-.056344	-.037219	.005184	.055534
48	-.026224	-.059966	-.049405	-.038835	-.001900	.032857
49	-.021437	-.051439	-.047448	-.036014	-.008098	.032633
50	-.009399	-.038564	-.041759	-.030165	-.010454	.040625
51	.005967	-.030076	-.034703	-.020058	-.010410	.045700
52	.016725	-.026341	-.024592	-.012178	-.005797	.042638
53	.022487	-.014433	-.014155	-.020098	-.006119	.028003
54	.026300	.006867	-.003421	-.024622	-.010650	.010384
55	.033104	.025095	.008046	-.023843	-.025155	-.006564
56	.040261	.032516	.018537	-.031600	-.044219	-.021537
57	.046744	.036101	.020664	-.045866	-.053974	-.026803
58	.046702	.037372	.017449	-.052738	-.060135	-.021613
59	.029637	.038793	.020341	-.041101	-.055766	-.016696
60	.012280	.035289	.031099	-.021148	-.043406	-.020176

RUN NO. 82D 16M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(M)	V,N	V,RHO(M)	W,N	W,RHO(M)	T,N	T,RHO(M)	N,RHO(M)
	0.21012 10E 00	0.41221 10E-01	0.18259 10E 00	0.35821 10E-01	0.13608 10E 00	0.26696 10E-01	0.65442 10E-01	0.12839 10E-01	0.58044 10E-01
0	-.493896	-.519375	-.036937	-.044558	.494766	.522034	.825760	.885844	.993074
1	-.461860	-.485464	-.039967	-.048487	.400023	.424192	.669906	.721600	.804550
2	-.406898	-.427500	-.038818	-.049172	.264483	.283468	.478231	.519123	.580563
3	-.351783	-.369433	-.031619	-.043303	.177331	.192173	.354650	.386816	.440877
4	-.305134	-.319790	-.023320	-.035383	.121910	.133387	.273132	.297867	.351438
5	-.252818	-.264776	-.016780	-.028479	.092068	.100752	.211600	.230141	.284293
6	-.197441	-.207258	-.005468	-.014726	.080859	.087858	.178293	.192427	.245790
7	-.141218	-.148646	.002498	-.003667	.064816	.068957	.146586	.157042	.209021
8	-.086605	-.091613	-.000010	-.003211	.027938	.028467	.092746	.098655	.146630
9	-.034595	-.037624	.002507	.001047	-.012944	-.015363	.032584	.034446	.076685
10	.008824	.007990	.003422	.002702	-.051540	-.055369	-.025352	-.026751	.007602
11	.051863	.053005	.000676	.000739	-.077640	-.081812	-.074931	-.078885	-.053191
12	.083244	.084747	-.008795	-.007982	-.097002	-.101314	-.111544	-.116927	-.098350
13	.107887	.109525	-.011934	-.009626	-.114729	-.118858	-.144152	-.150486	-.139333
14	.129969	.132818	-.005537	-.001372	-.119031	-.123201	-.173915	-.181367	-.173769
15	.153525	.157078	.005092	.010818	-.112181	-.117318	-.181811	-.191322	-.180078
16	.173128	.177873	.018162	.024862	-.103237	-.109475	-.194802	-.206274	-.190908
17	.189390	.194706	.028748	.034815	-.098166	-.105178	-.215416	-.229018	-.210020
18	.202524	.208571	.027946	.033333	-.102573	-.109269	-.220541	-.235251	-.217960
19	.210384	.216324	.024417	.028976	-.109965	-.115517	-.223498	-.238028	-.230444
20	.214722	.220954	.015765	.019170	-.124559	-.129368	-.227776	-.241145	-.247542
21	.217694	.223805	.011330	.014209	-.135823	-.139562	-.220826	-.232716	-.249799
22	.214980	.221047	.012446	.015306	-.130637	-.135335	-.211466	-.222620	-.239480
23	.208263	.214308	.011763	.014635	-.119742	-.125234	-.208760	-.219386	-.234715
24	.210947	.217284	.003802	.006398	-.104836	-.110312	-.202856	-.213152	-.228645
25	.206310	.212867	-.004724	-.003046	-.092508	-.097595	-.203072	-.213288	-.230188
26	.198413	.204613	-.007431	-.007220	-.084547	-.089445	-.212396	-.221918	-.246482
27	.178293	.183954	-.009090	-.009808	-.083077	-.087878	-.213207	-.221601	-.254195
28	.157473	.162718	-.005804	-.007187	-.076939	-.082007	-.202371	-.209664	-.247846
29	.140357	.144815	.001094	-.000541	-.071916	-.076647	-.172298	-.177910	-.218140
30	.119243	.122455	.007657	.007091	-.054504	-.057773	-.131031	-.134082	-.176722
31	.094857	.096654	.013863	.014931	-.036923	-.038937	-.084444	-.084915	-.128492
32	.067316	.067621	.014533	.017667	-.020889	-.021963	-.049435	-.048128	-.091012
33	.035771	.034255	.012106	.016257	-.012914	-.013072	-.020738	-.018000	-.063105
34	.000572	-.001563	.012540	.016644	-.001661	-.001350	.002396	.004088	-.037339
35	-.030589	-.032476	.009380	.013402	.007832	.008011	.020354	.020239	-.014700
36	-.049498	-.050816	.012060	.016562	.016766	.016861	.029977	.028414	-.000380
37	-.057405	-.058634	.017936	.024022	.032630	.034235	.049209	.048370	.018686
38	-.059508	-.059761	.028118	.034856	.047528	.049213	.064384	.063769	.036593
39	-.064753	-.063020	.031881	.038061	.052440	.053738	.079456	.078119	.057426
40	-.072798	-.069036	.031256	.035747	.061228	.061521	.099110	.096831	.084563
41	-.081075	-.076087	.019451	.022840	.071554	.071664	.106796	.104136	.096465
42	-.087941	-.081837	.006742	.009797	.079471	.078966	.109993	.106583	.104599
43	-.096562	-.090357	-.000884	.001980	.078572	.078787	.107604	.103672	.107491
44	-.102010	-.095167	.004629	.006995	.080853	.082524	.105905	.102781	.107913
45	-.103286	-.096268	.011121	.012317	.093262	.095340	.109724	.106852	.113149
46	-.104008	-.097521	.007033	.008116	.086046	.088557	.110769	.107550	.112117
47	-.100315	-.094235	-.002049	-.000492	.053975	.055456	.090012	.086084	.086768
48	-.089090	-.083578	-.011729	-.009956	.033547	.034132	.067270	.063426	.058328
49	-.082181	-.077354	-.017786	-.016296	.031419	.032568	.071952	.068404	.059406
50	-.074632	-.069988	-.019286	-.018053	.040634	.041828	.077312	.073693	.062444
51	-.064078	-.059811	-.020430	-.019023	.042339	.044309	.069982	.066671	.052038
52	-.049970	-.046034	-.020556	-.018309	.037738	.039716	.057871	.054985	.039838
53	-.038405	-.034396	-.025578	-.022622	.025154	.026416	.042566	.040320	.021694
54	-.024181	-.020598	-.024328	-.022332	.010833	.010890	.026027	.024839	-.001947
55	-.004812	-.002230	-.027258	-.027889	-.004242	-.005048	.023483	.024636	-.011028
56	.014897	.016145	-.035025	-.038509	-.015889	-.017627	.026264	.029268	-.011544
57	.022425	.022740	-.032558	-.038478	-.019134	-.021365	.015351	.019042	-.023267
58	.023293	.022980	-.028438	-.036393	-.018702	-.019559	.002166	.005438	-.034056
59	.029860	.029074	-.017644	-.026413	-.015412	-.015938	-.005897	-.004399	-.035216
60	.047020	.045552	-.002762	-.011401	-.017777	-.018536	-.019819	-.019834	-.044534

RUN NO. 82D 16M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.12967 10E 00	0.96637 10E-01	0.46475 10E-01	0.83977 10E-01	0.40386 10E-01	0.30098 10E-01
1	.003826	-.059559	-.053571	.017269	.005772	.003862
2	.003270	-.107237	-.087213	.019194	.003151	.012033
3	.010003	-.135635	-.105073	.015512	-.001690	.016189
4	.015860	-.134966	-.112709	.010658	-.005084	.017680
5	.027177	-.124427	-.113202	.005797	-.008018	.011208
6	.035193	-.110817	-.112186	-.001751	-.008863	.006673
7	.036167	-.093346	-.112114	.000553	-.001779	.013506
8	.032329	-.094223	-.114828	.001131	.008327	.023714
9	.031669	-.098773	-.111402	.009850	.013694	.034576
10	.032937	-.081813	-.101054	.020810	.014268	.043776
11	.027468	-.054841	-.084956	.026115	.013073	.055872
12	.015639	-.031223	-.071714	.025797	.003448	.065470
13	.004280	-.011111	-.066088	.027236	-.011294	.062135
14	-.003065	-.003199	-.062926	.032770	-.027114	.048338
15	-.005276	-.006135	-.053909	.028191	-.032614	.033415
16	-.003658	-.008822	-.041864	.024244	-.035013	.027300
17	-.002212	.004893	-.026967	.028139	-.036787	.026260
18	-.003365	.010371	-.017702	.026839	-.031334	.017718
19	-.007500	.003859	-.017656	.016816	-.028567	.005304
20	-.013955	.004202	-.020414	-.003429	-.030949	.002666
21	-.019586	.003439	-.020527	-.025022	-.026002	.001421
22	-.016493	.003759	-.017354	-.031067	-.015103	.000081
23	-.003650	.010734	-.015555	-.022729	-.013661	-.007618
24	.009353	.018792	-.012649	-.018988	-.023806	-.004170
25	.016413	.021026	-.002054	-.014883	-.035132	.001596
26	.021105	.017002	.007438	-.011242	-.039733	-.003373
27	.021217	.026094	.011575	-.013842	-.039945	-.007762
28	.022782	.042007	.018622	-.018595	-.029845	-.015349
29	.023836	.047657	.023161	-.022641	-.018014	-.015696
30	.018048	.041136	.024170	-.023295	-.003772	-.016663
31	.017314	.022661	.024447	-.017386	.021523	-.012880
32	.021330	.006705	.026544	-.006216	.047004	-.003062
33	.020950	-.003137	.026557	.005697	.062443	.003064
34	.021521	-.009553	.029218	.015028	.071356	.008114
35	.019084	-.012463	.040011	.011747	.071387	.001462
36	.016692	-.016527	.050428	.011903	.064053	-.012766
37	.018257	-.018619	.051057	.011900	.061012	-.025332
38	.020658	-.018410	.047891	.011995	.061186	-.035152
39	.016948	-.017258	.039865	.006325	.059825	-.031158
40	.008836	-.019559	.032903	-.001718	.052486	-.020017
41	-.002987	-.012609	.037074	-.000698	.048197	-.012823
42	-.010837	.000577	.046909	.012020	.049759	-.008170
43	-.019900	.006018	.049563	.017252	.048828	-.013065
44	-.025342	.005905	.046398	.011555	.049655	-.011035
45	-.026637	.000704	.033852	.002517	.044329	-.010580
46	-.031098	-.007708	.021157	.001715	.033404	-.015113
47	-.033321	-.015987	.012298	.002438	.019270	-.026795
48	-.033364	-.017421	.006083	.000505	.005470	-.025634
49	-.032121	-.020655	.000050	.002876	-.003300	-.022117
50	-.027086	-.018568	-.002916	.002585	-.004034	-.022714
51	-.026108	-.024108	-.010357	-.006752	-.017063	-.018316
52	-.024478	-.030845	-.027603	-.015856	-.036926	-.010595
53	-.025351	-.029138	-.041699	-.016106	-.041471	-.005194
54	-.029016	-.022461	-.046270	-.014289	-.041952	.000572
55	-.035200	-.006455	-.040712	-.015868	-.049334	.001912
56	-.034231	.011153	-.029678	-.017647	-.063824	.003754
57	-.030214	.030978	-.021628	-.025292	-.074624	.010532
58	-.029415	.047226	-.018250	-.033955	-.083633	.025842
59	-.026305	.055131	-.020076	-.033091	-.089175	.032382
60	-.018919	.053380	-.032349	-.018262	-.077705	.037252

RUN NO. 820 16M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.21012 10E 00	0.41221 10E-01	0.18259 10E 00	0.35821 10E-01	0.13608 10E 00	0.26696 10E-01	0.65442 10E-01	0.12839 10E-01	0.58044 10E-01
1	-.035240	-.039984	.010841	.010052	-.004785	-.003120	-.009068	-.007360	.001863
2	-.061367	-.068097	.012154	.010814	.000909	.003020	-.019547	-.016062	.003949
3	-.076356	-.084240	.008025	.006499	.007345	.009336	-.027642	-.022796	.005561
4	-.078487	-.087593	.001970	.000789	.006727	.009243	-.036510	-.030015	.007494
5	-.076959	-.086450	-.004916	-.005713	-.001486	.001271	-.041985	-.034513	.008683
6	-.077606	-.086852	-.008272	-.008478	-.008458	-.005729	-.046111	-.038349	.009238
7	-.078782	-.087714	-.002603	-.002444	-.009239	-.005084	-.049580	-.041332	.009846
8	-.081897	-.090920	.007627	.008050	-.011153	-.004268	-.049563	-.041096	.009979
9	-.080812	-.089244	.010443	.011454	-.005829	.002366	-.048835	-.040542	.009811
10	-.072285	-.080116	.011739	.012872	.006995	.014714	-.043970	-.036555	.008772
11	-.055569	-.063028	.012072	.013011	.024496	.031383	-.037929	-.031840	.007266
12	-.039028	-.046766	.000351	.001262	.037538	.044253	-.038841	-.032418	.007694
13	-.029288	-.037799	-.014437	-.014181	.037852	.044147	-.044977	-.037124	.009344
14	-.023000	-.032199	-.025671	-.026907	.029187	.034077	-.049671	-.040999	.010232
15	-.016550	-.024899	-.028015	-.029890	.023298	.026074	-.043638	-.035836	.009069
16	-.009300	-.016134	-.028795	-.030879	.024669	.025895	-.031085	-.025621	.006451
17	-.002217	-.007218	-.028662	-.031217	.026265	.026915	-.025337	-.021101	.005136
18	.001223	-.002251	-.024821	-.026897	.019075	.019274	-.020616	-.017274	.003988
19	-.002540	-.005398	-.023605	-.025476	.010419	.009524	-.017623	-.014725	.003372
20	-.008538	-.010928	-.021546	-.024489	.014369	.012214	-.014737	-.012339	.002802
21	-.015599	-.016981	-.016900	-.019798	.020585	.017095	-.009125	-.007704	.001715
22	-.016409	-.017174	-.007114	-.009492	.025360	.020945	-.004570	-.003596	.001187
23	-.019817	-.019696	-.000242	-.003598	.019388	.014567	.000729	.000982	.000311
24	-.024260	-.022896	-.003494	-.008309	.014652	.011621	.003856	.003673	-.000314
25	-.021735	-.018915	-.007660	-.013932	.009486	.008600	.003980	.003925	-.000178
26	-.011826	-.008727	-.009109	-.015869	-.001837	-.001996	.004932	.004657	-.000428
27	-.005749	-.002920	-.014070	-.019835	-.009991	-.009581	.007161	.006226	-.001127
28	-.001343	.002279	-.012374	-.016341	-.015726	-.015701	.009057	.007762	-.001487
29	.002351	.006373	-.007880	-.010393	-.014725	-.015091	.010000	.008420	-.001761
30	.004343	.008216	-.000183	-.001157	-.017591	-.017785	.011938	.010026	-.002253
31	.008932	.012132	.021108	.021682	-.015022	-.014775	.013271	.011250	-.002477
32	.016155	.018641	.045365	.046787	-.005274	-.004854	.013081	.011165	-.002373
33	.020861	.022512	.055129	.058036	-.003337	-.002011	.012065	.010220	-.002206
34	.026926	.028068	.059362	.063419	-.001489	.000736	.008559	.007308	-.001510
35	.038772	.039924	.056092	.060766	-.007300	-.005344	.003113	.002970	-.000314
36	.052858	.053711	.046122	.051131	-.022703	-.021125	.000909	.001138	.000174
37	.058110	.058272	.037571	.043643	-.037495	-.036213	.000051	.000207	.000118
38	.057371	.057179	.035287	.041799	-.048721	-.047614	-.004269	-.003495	.000802
39	.051320	.050479	.035300	.041683	-.048771	-.046618	-.009003	-.007260	.001851
40	.046710	.045155	.033728	.039016	-.042699	-.039041	-.008668	-.006856	.002004
41	.052660	.051130	.032509	.037107	-.036056	-.032176	-.007719	-.006246	.001702
42	.063443	.062035	.034874	.039347	-.032455	-.028337	-.009271	-.007530	.002044
43	.067175	.065750	.037904	.041684	-.035545	-.032228	-.010873	-.009201	.001965
44	.064479	.062842	.040201	.043741	-.028192	-.025940	-.015117	-.012665	.002708
45	.053242	.050871	.036197	.039360	-.024900	-.023007	-.020226	-.016857	.003750
46	.041908	.038916	.024746	.027648	-.024252	-.023157	-.019882	-.016413	.003943
47	.034953	.031439	.013537	.015294	-.030089	-.030390	-.019107	-.015754	.003932
48	.031700	.027482	.001382	.002532	-.028263	-.028760	-.020563	-.017021	.004072
49	.025432	.021226	-.009635	-.008327	-.028540	-.028472	-.023227	-.019402	.004334
50	.017259	.013941	-.012108	-.010663	-.033503	-.032559	-.026998	-.022466	.005215
51	.004141	.001754	-.025200	-.024094	-.025648	-.024941	-.023820	-.019843	.004637
52	-.016002	-.018440	-.042214	-.042194	-.014889	-.014663	-.015378	-.013029	.002730
53	-.029469	-.032333	-.044577	-.045106	-.011329	-.010789	-.008423	-.007437	.001223
54	-.037939	-.040305	-.042941	-.043925	-.007181	-.006235	-.003783	-.003727	.000145
55	-.033994	-.035906	-.042197	-.044874	-.006143	-.004967	-.001264	-.001632	-.000402
56	-.026072	-.027026	-.056086	-.059287	-.003568	-.002317	.003760	.002735	-.001225
57	-.023317	-.023207	-.074307	-.076741	.006728	.007489	.010789	.008493	-.002620
58	-.024920	-.023990	-.087893	-.089826	.030145	.030095	.017079	.013815	-.003806
59	-.031432	-.029900	-.095249	-.097121	.042474	.041715	.018832	.015526	-.003898
60	-.043409	-.042407	-.087764	-.088438	.049920	.048746	.021129	.017404	-.004379

RUN NO. 82D 16M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.14922 10E 00	0.11268 10E 00	0.62584 10E-01	0.14475 10E-01	0.29587 10E 00	0.11387 10E-01
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.857790	.828148	.722256	.825957	.810033	.810734
2	.691695	.592523	.405373	.609390	.585870	.584635
3	.561334	.424106	.220664	.461164	.447108	.442382
4	.450151	.308756	.122913	.355215	.358858	.350424
5	.356628	.227909	.073547	.271410	.292559	.281339
6	.268584	.167838	.049637	.221978	.254155	.241825
7	.176227	.115840	.033920	.176962	.217366	.204301
8	.093870	.059377	.000973	.108689	.155132	.140868
9	.031300	-.001272	-.040108	.038027	.085388	.069913
10	-.012107	-.054745	-.077796	-.028223	.015714	.000643
11	-.062850	-.105965	-.115047	-.083582	-.045818	-.060056
12	-.111106	-.139618	-.142544	-.122035	-.091454	-.105113
13	-.145829	-.156869	-.155966	-.153671	-.132905	-.145930
14	-.179813	-.165453	-.163140	-.184837	-.167420	-.180535
15	-.216495	-.176725	-.173809	-.201266	-.173138	-.187777
16	-.250650	-.197751	-.162260	-.222920	-.183253	-.199581
17	-.284411	-.221826	-.143080	-.250999	-.201410	-.219936
18	-.312436	-.238450	-.135314	-.260762	-.209780	-.227760
19	-.323454	-.246719	-.141789	-.262829	-.224267	-.238540
20	-.327731	-.257232	-.153963	-.260795	-.243935	-.253279
21	-.322533	-.259261	-.162146	-.247804	-.248316	-.253467
22	-.317768	-.243728	-.145532	-.236508	-.238261	-.242787
23	-.312793	-.216632	-.137989	-.232020	-.233191	-.238150
24	-.305742	-.196714	-.143346	-.224427	-.226973	-.232122
25	-.282605	-.186307	-.146514	-.224429	-.228865	-.233369
26	-.251365	-.177160	-.120474	-.229766	-.246505	-.248416
27	-.224913	-.158731	-.107001	-.224684	-.255792	-.254623
28	-.200857	-.146935	-.097298	-.208482	-.250474	-.247221
29	-.178102	-.139405	-.090741	-.174765	-.221958	-.216183
30	-.147171	-.128761	-.063943	-.127871	-.182060	-.172960
31	-.111925	-.105145	-.033069	-.074997	-.134963	-.123255
32	-.068901	-.068415	-.027251	-.036467	-.098290	-.084749
33	-.033278	-.042320	-.027560	-.006097	-.071864	-.055324
34	-.012079	-.022246	-.021658	.008907	-.046244	-.029643
35	.000017	.002831	-.007617	.015963	-.023249	-.007691
36	.014824	.015614	.013532	.017597	-.008280	.005784
37	.030118	.012540	.045036	.037933	.010023	.025603
38	.044512	.018525	.072256	.052152	.028167	.043383
39	.063561	.032370	.086831	.061177	.049679	.063519
40	.074250	.042767	.090638	.074622	.077900	.089543
41	.076402	.045522	.080048	.079524	.090295	.100941
42	.085712	.037108	.059701	.077618	.099106	.108362
43	.088381	.009809	.044406	.073167	.103342	.110055
44	.087607	-.012353	.071171	.075403	.104238	.110256
45	.084802	-.011064	.106240	.080735	.109876	.115205
46	.076912	.003798	.104833	.080702	.108582	.114322
47	.074829	.009092	.077360	.060143	.083193	.088875
48	.071756	.010533	.061534	.041173	.054417	.060724
49	.063405	.019611	.063980	.046477	.054517	.062659
50	.053288	.028029	.066089	.049853	.056810	.066335
51	.040942	.040289	.049832	.044789	.045928	.056390
52	.021445	.059857	.022935	.036671	.034204	.043881
53	.007396	.085134	-.002168	.025707	.015798	.026099
54	-.000755	.099434	-.021666	.016790	-.008756	.003427
55	-.012308	.101100	-.027100	.026577	-.019043	-.004191
56	-.028223	.098684	-.049174	.037512	-.020506	-.003549
57	-.036219	.095525	-.063600	.031361	-.031905	-.015370
58	-.028422	.089739	-.048041	.017448	-.041849	-.026944
59	-.021129	.086244	-.027016	.002920	-.041004	-.030131
60	-.018078	.088427	-.006507	-.016198	-.048809	-.041014

RUN NO. 82D 16M 11-02-62 0800-0915 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-02	10E-02	10E-02	10E-03	10E-02
0	.020338	-.020751	-.031661	-.004311	-.074931	.008327
1	.210961	-.370496	-.375261	-.086210	-.845871	.120167
2	.178823	-.695985	-.563178	-.103057	-.844722	.219844
3	.161702	-.890928	-.631532	-.057330	-.712875	.278603
4	.226114	-.561273	-.362507	-.050756	-.709388	.189315
5	.163869	-.254520	-.160134	-.114155	-.493566	.124955
6	.015299	-.171440	-.129850	-.099139	.011325	.105717
7-8	-.002692	-.094097	-.081882	-.031616	.019705	.069142
9-11	.016471	-.060377	-.030115	.039870	-.063260	.035830
12-15	-.031409	-.054623	-.012974	.017717	.149125	.039979
16-20	-.000657	-.024714	-.014983	.016319	.006940	.030858
21-27	-.013940	-.004691	-.008231	.006140	.008807	.012307
28-36	.000723	-.001469	-.003212	.005726	.015580	.009008
37-47	.002969	-.002650	-.001376	.003594	.001612	.004323
48-60	.000746	-.000595	-.001299	.001390	.003289	.001764

QUADRATURE SPECTRUM

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
1	.118751	-.116896	-.102223	.271646	-.096133	.279423
2	.066948	-.169989	-.164439	.430033	-.500484	.442006
3	.036585	-.289648	-.171542	.747154	-.083654	.412975
4	.122809	-.301321	-.111693	.525283	.505694	.208752
5	.132693	-.223901	-.091583	-.225686	.137212	.019337
6	.047559	-.180902	-.070047	-.516598	-.130445	-.138975
7-8	-.013543	-.154793	-.037430	-.050810	.008372	-.134231
9-11	-.015563	-.046486	-.016539	.290357	-.165000	.030021
12-15	-.012042	-.046706	-.011814	.173362	.093445	.078658
16-20	-.008885	-.022938	-.011425	.032148	.024517	-.016887
21-27	.008103	.007812	-.000530	.045231	.009450	-.016605
28-36	-.001616	.001234	-.001435	.022851	.012770	.004090
37-47	.002607	-.001315	-.000660	.012745	.000622	-.003131
48-60	.002236	.000021	.000094	.011917	.001466	-.002852

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-02
0	.014788	.006883	.014162	.015840	.043107	.013624
1	.176209	.105489	.285900	.151466	.364523	.128047
2	.263836	.157647	.554737	.220474	.482336	.181789
3	.299993	.180729	.729665	.255009	.502963	.197289
4	.184387	.126556	.535485	.163158	.282801	.113295
5	.092708	.075854	.394563	.090021	.165103	.064811
6	.069692	.060520	.354651	.072997	.147863	.057555
7-8	.057321	.046388	.265724	.050263	.087126	.034532
9-11	.035154	.032415	.197042	.035763	.061891	.024910
12-15	.017264	.024255	.203132	.027908	.064749	.024799
16-20	.013325	.016564	.137513	.021001	.044163	.017242
21-27	.010070	.009310	.084417	.010086	.024131	.009162
28-36	.005144	.005244	.052557	.007898	.017930	.006872
37-47	.004135	.002940	.030595	.004270	.010048	.003810
48-60	.002516	.001622	.019337	.002578	.006088	.002293

RUN NO. 82D 16M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-03	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.006674	-.016580	-.004503	-.021044	.001101	.003303	.031594	.007996	.075350
1	-.132023	-.281520	-.132689	-.374424	.038992	.084922	.476684	.104615	.675168
2	-.237433	-.486161	-.155586	-.412958	.084778	.177150	.827941	.173920	.929589
3	-.275362	-.560247	-.120019	-.329779	.111210	.230706	.977786	.204473	.990614
4	-.149032	-.307059	-.122059	-.329040	.073389	.153247	.577818	.123159	.562213
5	-.066219	-.136008	-.093112	-.240533	.047348	.099323	.317420	.067733	.324639
6	-.053296	-.109468	.004135	.010472	.040251	.084377	.279303	.058472	.290004
7-8	-.030756	-.064574	-.030727	-.045253	.026448	.055303	.171708	.036906	.172069
9-11	-.011457	-.024110	-.067481	-.119524	.014094	.029273	.128650	.027321	.123375
12-15	-.004992	-.010411	.027318	.071187	.019543	.038800	.118158	.024184	.126162
16-20	-.005713	-.012003	-.006205	-.008425	.012799	.026324	.085021	.017575	.086848
21-27	-.003597	-.007250	.007264	.014084	.005762	.011606	.042612	.008736	.046779
28-36	-.001397	-.002865	.004152	.009540	.003940	.007961	.032589	.006708	.034918
37-47	-.000304	-.000746	.000670	.001496	.001982	.003997	.017647	.003633	.019442
48-60	-.000584	-.001207	.001710	.003215	.000831	.001650	.010271	.002132	.011726

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-02	10E-03	10E-03
1	-.239263	-.057513	.023774	.017800	.046483	.127681	-.102256	-.164616	.190760
2	-.508555	-.112033	-.152850	-.339877	.144240	.313622	-.100936	-.164069	.181879
3	-.445913	-.102839	-.064177	-.115608	.062937	.175168	-.117263	-.191603	.205540
4	-.298292	-.068315	.150579	.339768	-.052949	-.047988	-.071698	-.116848	.126548
5	-.395425	-.080658	.084389	.162365	-.056235	-.086418	-.022095	-.035556	.040994
6	-.319535	-.064385	.008555	-.010194	-.055344	-.114356	-.011570	-.018340	.022150
7-8	-.110745	-.024398	.008585	.014381	-.017473	-.053347	-.007907	-.012723	.013487
9-11	-.023835	-.006954	-.042382	-.097851	.021881	.041350	-.007183	-.010870	.015693
12-15	-.046158	-.009463	.048801	.096829	.023620	.052109	.005194	.008258	-.010964
16-20	-.039334	-.008444	.017653	.032389	-.019266	-.034382	-.002938	-.004561	.005674
21-27	.002494	.000336	.003626	.007647	-.005014	-.011677	.002302	.003503	-.005011
28-36	.001476	-.000057	.004348	.008692	-.004247	-.005447	-.000311	-.000211	.001533
37-47	-.001302	-.000384	-.000293	-.000340	-.000591	-.001514	.000201	.000224	-.000681
48-60	-.000666	-.000112	.000389	.000517	-.000282	-.000677	.000347	.000633	-.000404

RUN NO. 82D 16M 11-02-62 0800-0915 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
	0.11445 10E 00	0.55858 10E-01	0.47267 10E-01	0.49251 10E-01	0.41677 10E-01	0.20341 10E-01
0	.043835	-.430997	-.563285	-.043775	-.031738	.498779
1	-.002983	-.063759	-.241607	.055299	.043645	.107230
2	-.031138	.090946	-.007990	.026773	.071083	-.024398
3	-.053492	.010704	.049572	.058089	.078417	-.002815
4	-.079167	-.033534	.052578	.090453	.126109	.051816
5	-.015023	.016871	.079191	-.016210	.069425	.006610
6	.014295	.075490	.110728	-.028994	.050035	-.057455
7	.002898	.033204	.101921	.034667	.076212	-.086315
8	.029536	-.075703	.051713	.081655	.057312	-.031063
9	-.006375	.008063	.073521	-.042484	.037778	-.022272
10	-.008875	.048617	.056772	-.074780	.047847	-.048525
11	-.060343	-.039465	-.002524	.024893	.034268	-.034282
12	-.090178	.010316	.024297	.117843	.033241	-.049389
13	.007909	-.062460	-.075071	-.042686	-.025288	.048588
14	.115315	-.055530	-.113910	-.087879	-.074241	-.003118
15	.112530	-.056341	-.143290	-.100194	-.088963	.055496
16	.055261	-.078730	-.143601	-.029249	-.041608	.059921
17	.015398	.077070	-.082257	.006987	.003001	-.072619
18	.020517	.108111	-.049937	.066119	-.015378	-.078944
19	.025505	.014400	-.000597	-.017456	-.064180	.028557
20	.053682	-.016886	.087763	-.042555	-.080418	.065072
21	.076147	.079355	.134156	-.055954	-.087513	-.027971
22	.000814	.153416	.184274	-.078228	-.062249	-.167863
23	-.028753	.108954	.193255	-.062724	-.063708	-.099507
24	-.002653	.028013	.133920	-.054486	-.138116	.006976
25	-.035206	.096072	.159889	-.008513	-.109288	.000611
26	-.052957	.083146	.078372	-.019620	-.104517	-.001686
27	-.059660	-.008138	-.040974	-.088302	-.095191	.024088
28	-.040737	-.084291	-.118016	-.069792	-.088373	.089877
29	-.021774	-.108729	-.203389	-.101106	-.098205	.093650
30	.001452	-.060632	-.177322	-.048655	-.075365	.058193

COSPECTRUM

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
0	-.014483	-.025323	-.027727	.015551	.056039	.087199
1	-.204756	-.134809	-.113937	.123499	.258436	.559545
2	-.157326	-.040912	-.050367	.073983	.098831	.503488
3	.033998	-.038233	-.195753	.020441	-.024833	.642532
4	.065829	-.149391	-.372303	-.003778	-.053540	.783319
5	-.062973	-.130726	-.221363	-.011807	-.043210	.527450
6	-.044330	-.074912	-.128374	.013598	-.009849	.303188
7	.127022	-.086195	-.183691	-.010181	-.019708	.286481
8	.296730	-.128587	-.173925	-.072902	-.060218	.343933
9-11	.040376	-.075872	-.121081	-.011607	-.022771	.325503
12-14	.064809	-.149246	-.123044	-.056895	-.019908	.649293
15-21	-.006931	-.132546	-.074568	.011899	-.009943	.416057
22-30	.035888	-.088782	-.054714	-.044745	-.016762	.378936

RUN NO. 82D 16M 11-02-62 0800-0915 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.23186 10E 00	0.43144 10E-01	0.20444 10E 00	0.38041 10E-01	0.99778 10E-01	0.18567 10E-01	0.84433 10E-01	0.15711 10E-01	0.77068 10E-01
0	-.374973	-.438566	.100053	.080308	.386810	.435825	.594248	.716152	.986873
1	-.117048	-.150128	.133273	.124720	.080815	.091865	.318637	.398134	.653494
2	.063335	.053183	.143001	.138774	-.015074	-.018221	.145868	.195446	.368896
3	.054730	.056727	.118132	.118137	.051675	.044790	.125669	.155011	.243287
4	-.025618	-.011399	.130799	.139361	.130882	.123883	.176242	.186352	.201887
5	-.033322	-.012866	.074288	.079248	.104262	.091030	.143153	.135994	.095999
6	.024916	.044113	.065473	.067003	.015881	.002288	.053648	.035884	-.056327
7	.019636	.037275	.065564	.071532	-.015894	-.031157	-.000866	-.031902	-.116467
8	-.008643	.002464	.032522	.039685	.039799	.028164	.007243	-.025039	-.098218
9	.013488	.027133	.002077	.009417	-.011208	-.014456	.012684	-.015316	-.105607
10	.024431	.033656	-.004613	.005566	-.076676	-.076830	.001859	-.022403	-.118188
11	-.025150	-.021497	-.048197	-.034483	-.070386	-.068398	-.017566	-.041186	-.113312
12	.019670	.021581	-.063572	-.048225	-.105074	-.100688	-.083471	-.100590	-.179446
13	-.020509	-.033542	-.086084	-.079708	-.067533	-.047911	-.050212	-.047969	-.147785
14	-.026788	-.046494	-.074199	-.079437	-.100904	-.088451	-.076463	-.068708	-.147484
15	-.036413	-.060961	-.087969	-.094128	-.076458	-.054636	-.059217	-.042817	-.107862
16	-.044143	-.066926	-.054814	-.055877	-.019708	-.004188	-.089772	-.074657	-.098797
17	.012674	-.004808	-.046270	-.039531	-.126475	-.124522	-.169389	-.158811	-.196805
18	.023774	.011821	-.095652	-.086608	-.137019	-.135103	-.189732	-.182170	-.242093
19	.025900	.023687	-.188935	-.177179	.008499	.012436	-.139315	-.136735	-.205408
20	.029567	.043608	-.205554	-.195014	.076666	.079699	-.122334	-.139958	-.185447
21	.054656	.073921	-.156544	-.153227	.025451	.016867	-.139590	-.167452	-.183559
22	.066772	.094838	-.067615	-.071153	-.067986	-.092605	-.194595	-.237763	-.170142
23	.054554	.086261	-.004676	-.016785	-.006473	-.025887	-.178624	-.221740	-.110937
24	.012578	.037541	-.001792	-.028449	.073888	.065965	-.123909	-.155392	-.014251
25	.050844	.076334	.024885	-.000477	.016891	.014911	-.158002	-.180036	-.030613
26	.017805	.031569	.049274	.021941	-.031193	-.027984	-.159573	-.169663	-.033725
27	-.052637	-.054043	.095381	.063799	-.023733	-.014943	-.127084	-.122492	-.010833
28	-.067872	-.082850	.084372	.054952	.024893	.039422	-.087170	-.065577	-.014660
29	-.088343	-.117484	.045662	.019901	-.031415	-.008711	-.068402	-.039853	-.033053
30	-.036649	-.067493	.013518	-.003283	-.043359	-.026747	-.033613	-.003166	-.023583

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-02	10E-02	10E-01	10E-02	10E-02	10E-03	10E-01	10E-02	10E-01
0	-.148043	-.028834	.023368	.048204	.053664	.102470	.020204	.041965	.020620
1	-.599749	-.117879	.168984	.320880	.496110	.902472	.121155	.251335	.149002
2	-.301019	-.058218	.119697	.211680	.508231	.912285	.077082	.166123	.128579
3	-.315006	-.086941	.033260	.049216	.310616	.620150	.037308	.099883	.096935
4	-.543667	-.156450	.003240	-.004469	.012958	.166870	.028067	.085773	.075640
5	-.409226	-.106998	-.002248	-.011371	-.019915	.065971	.023920	.061126	.058498
6	-.266387	-.065951	-.017643	-.030502	.025577	.095822	.016156	.037355	.034897
7	-.395532	-.096983	.008770	.010146	.032335	.103907	.012196	.031127	.029120
8	-.488824	-.111427	.005692	-.002203	.096886	.220824	.013609	.031320	.024799
9-11	-.515646	-.105320	-.008343	-.017602	.107836	.233577	.015248	.032347	.017150
12-14	-.621940	-.122561	-.006293	-.013568	.275605	.562657	.025286	.051723	.025135
15-21	-.311261	-.064105	-.003429	-.007666	.172404	.356082	.010948	.023176	.011229
22-30	-.207981	-.043628	-.003442	-.008635	.146456	.304707	.008838	.018962	.008673

RUN NO. 82D 16M 11-02-62 0800-0915 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
	0.11445 10E 00	0.55858 10E-01	0.47267 10E-01	0.49251 10E-01	0.41677 10E-01	0.20341 10E-01
1	.045547	-.116899	-.121580	.021849	.003830	.030898
2	.039161	-.038273	-.074288	.034351	.002075	.016982
3	.043061	-.074450	-.087673	-.029887	.010440	-.003086
4	.027736	-.072661	-.073520	.032102	.028273	.017632
5	-.016391	-.033924	-.093839	.004357	-.017710	.035537
6	.024857	-.009680	-.098467	.001704	-.073743	.041805
7	.040004	-.036794	-.036410	-.026596	-.053645	-.040302
8	-.010895	-.078045	.000160	.032138	-.083163	-.065579
9	.008480	-.045808	.022788	.073067	-.066846	-.042511
10	-.018186	.063845	.102280	.047287	-.074598	-.052821
11	-.080074	-.002658	.060580	-.059518	-.145234	-.066775
12	-.085897	.010576	.056830	-.058391	-.155097	-.081153
13	-.011407	-.003855	.038565	.088933	-.083743	-.065802
14	.009417	-.032596	.021199	.094088	-.048301	-.067387
15	-.007367	-.011405	.034114	.075728	-.041861	-.075197
16	-.003718	-.018831	-.000335	.047752	-.026293	-.034484
17	.071331	-.063045	-.054121	.125957	.089217	.003560
18	.043543	-.017830	-.042868	.007875	.113348	.038852
19	-.040482	-.007706	-.014329	-.009927	.116631	-.017042
20	-.006431	.051039	-.007466	.002799	.129340	.028539
21	-.025788	.005258	-.062276	-.065122	.091519	.082914
22	-.056334	.011585	-.017432	-.074553	.078728	.074462
23	-.037099	.069543	.054494	-.135389	.068066	.068347
24	.069801	.086533	.078021	-.091670	.098793	.085375
25	.025551	.084372	.061708	-.027536	.060933	.116523
26	-.046636	.065364	.077609	-.018998	-.010695	.036161
27	-.019899	-.019204	.066255	-.031894	-.056578	.018243
28	.031216	.087292	.084201	.023803	-.046246	.082391
29	.059958	.113669	.072921	-.019953	-.002189	.100382
30	.142367	-.047459	.061839	.058006	.003419	-.008667

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	-.050577	-.111809	-.017271	.106589	-.153186	-.538990
2	.018718	-.105085	-.058203	.041519	-.157139	-.296143
3	.115925	-.082620	-.142344	-.046662	.005747	.310689
4	.200024	-.109409	-.201216	.010105	.125620	.408236
5	.131915	-.085475	-.113619	.048426	.034936	.114930
6	-.044937	-.020480	-.022496	-.028320	-.015617	.023597
7	-.030342	-.023845	-.000212	-.019018	.015296	-.013490
8	.111665	-.056503	.003800	.040985	.026998	-.039702
9-11	.093621	-.059864	-.039441	.016637	-.008682	-.058423
12-14	.001594	.018050	-.035771	.003271	-.017405	.159402
15-21	.019586	-.051067	-.023079	.017133	.011499	.027754
22-30	.002629	-.042059	-.029705	-.029074	-.004072	-.007324

RUN NO. 820 16M 11-02-62 0800-0915 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.23186 10E 00	0.43144 10E-01	0.20444 10E 00	0.38041 10E-01	0.99778 10E-01	0.18567 10E-01	0.84433 10E-01	0.15711 10E-01	0.77068 10E-01
1	-.040333	-.058882	.006544	.006683	-.032358	-.022593	-.051532	-.045259	.009804
2	.034889	.015871	.012853	.011459	-.065921	-.053932	-.062636	-.054845	.012292
3	.018014	-.002394	.025920	.025293	-.100031	-.087944	-.038866	-.034001	.007544
4	.053812	.031824	.033373	.035204	-.094764	-.079439	-.037516	-.033198	.006790
5	.006513	-.012868	.001094	-.002309	-.058664	-.044832	-.012047	-.011576	.001383
6	-.061245	-.072817	-.025679	-.037405	-.007339	.001231	.042949	.036402	-.009588
7	-.051399	-.051804	.020343	.006553	-.038651	-.041344	.076476	.066456	-.015533
8	-.085015	-.073287	.042948	.020075	-.078101	-.081060	.098104	.084694	-.020106
9	-.136860	-.114334	.072481	.049349	-.063899	-.064360	.126003	.109286	-.025463
10	-.124368	-.087823	.045762	.025027	-.044015	-.049386	.141924	.123523	-.028481
11	-.166083	-.132806	-.016554	-.043039	-.024704	-.034293	.130704	.114488	-.025754
12	-.124669	-.096590	-.030416	-.057651	-.022863	-.035601	.088934	.077764	-.017548
13	-.088723	-.068772	.000888	-.016646	.028300	.011488	.046305	.040644	-.009201
14	-.063827	-.051274	.017847	.005381	.061037	.039270	.028895	.025307	-.005386
15	.021019	.024821	-.030571	-.034972	.041704	.021547	.011434	.010410	-.001370
16	.015941	.013515	-.074506	-.069561	.059408	.045196	-.010037	-.008329	.002912
17	.011682	-.000406	-.022630	-.001811	.070086	.061904	-.044340	-.038310	.009531
18	.081780	.062970	-.004216	.019246	.054136	.054636	-.099747	-.086814	.020663
19	.139091	.117836	-.002489	.021025	-.005887	-.008038	-.122481	-.106107	.025317
20	.162186	.138838	.030649	.052746	.001153	.007219	-.130458	-.112774	.026854
21	.106362	.079263	.026533	.041873	.042252	.053024	-.138733	-.120152	.028444
22	.059789	.047813	.025050	.037540	.054554	.062734	-.097061	-.083369	.019814
23	.084031	.083610	.032197	.042234	.020579	.031535	-.066052	-.057130	.013109
24	.020798	.033480	.067688	.078943	.073984	.081276	-.004845	-.004203	.000699
25	-.069145	-.047613	.043881	.050021	.127053	.132434	.033579	.029069	-.006935
26	-.064895	-.041586	-.076701	-.068702	.039907	.041407	.033941	.030179	-.006507
27	-.082120	-.059221	-.164403	-.154270	-.014901	-.008295	.021775	.020068	-.003686
28	-.013999	.003740	-.157113	-.145460	.025659	.038778	-.024956	-.020821	.005594
29	.078023	.081456	-.098107	-.085552	.023757	.040292	-.074730	-.064508	.015225
30	.130132	.125100	-.054972	-.046424	-.092814	-.082955	-.098636	-.085235	.020217

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-02	10E-03	10E-03
1	-.943422	-.155640	.148478	-.041174	-.131151	-.311653	.262565	.425141	-.475895
2	-.893506	-.154835	.180396	.003227	-.303677	-.548104	.296671	.476808	-.561607
3	.058860	-.016455	.223460	.373953	-.295374	-.424999	-.020661	-.037878	.011599
4	.910596	.110505	.005000	.241845	-.125344	-.130748	-.337354	-.549155	.606215
5	.425591	.048132	-.163930	-.197739	-.020919	-.014462	-.218057	-.354105	.395628
6	.035503	.001461	.028850	.022237	-.087084	-.137218	-.111164	-.178924	.201885
7	-.042432	-.007049	.115617	.219424	-.166320	-.271306	-.063062	-.100828	.118969
8	-.129945	-.020282	.153412	.300233	-.097438	-.164775	.014222	.023218	-.021654
9-11	-.080506	-.019707	.039232	.042995	.000509	-.008865	-.031095	-.050402	.057512
12-14	-.157019	-.031796	-.123266	-.231083	.071424	.143186	-.007530	-.012862	.010307
15-21	-.031882	-.009175	.035310	.079107	-.012262	-.015660	-.019952	-.032683	.033241
22-30	-.169680	-.033039	-.006591	-.015949	-.003957	-.008449	.008394	.013706	-.015484

RUN NO. 82D 16M 11-02-62 0800-0915 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.12980 10E 00	0.10091 10E 00	0.24038 10E-01	0.17213 10E-01	0.41417 10E 00	0.14341 10E-01
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.396060	.469443	.062519	.606647	.679427	.646925
2	.024986	.185110	-.094002	.343602	.391177	.359475
3	-.001113	.128509	.027737	.228449	.250986	.242484
4	-.028431	.093122	.143182	.169679	.192431	.212054
5	-.049326	.093531	.025250	.061578	.078243	.109942
6	-.086221	.050129	-.101406	-.052624	-.076647	-.042206
7	-.101752	-.075969	-.056685	-.154532	-.133424	-.107933
8	-.036741	-.168438	-.029874	-.154799	-.114589	-.090514
9	-.167318	-.182787	-.061916	-.129194	-.124095	-.095200
10	-.128764	-.170624	-.236888	-.116647	-.136128	-.107552
11	-.041050	-.147539	-.071617	-.126770	-.125940	-.107126
12	-.136970	-.171623	-.058576	-.142877	-.187851	-.175522
13	.002009	-.202310	-.014944	-.025735	-.159594	-.137034
14	.131661	-.228742	-.093482	-.014737	-.152779	-.141282
15	.143643	-.121635	-.015647	.039797	-.111169	-.101643
16	.149080	-.066963	.059520	.014284	-.093798	-.100108
17	.046703	-.034809	-.119812	-.056985	-.187986	-.202449
18	.041653	-.086133	-.161221	-.085836	-.235335	-.246525
19	-.059566	-.115754	.053287	-.076729	-.204834	-.205509
20	-.153043	.041631	.268423	-.167556	-.186177	-.188464
21	-.184530	.074027	-.035884	-.232594	-.180509	-.191873
22	-.159166	.028362	-.228266	-.343627	-.151635	-.194920
23	-.210195	.001246	-.036860	-.332134	-.086756	-.140608
24	-.198244	.041007	.157862	-.238526	.012186	-.043515
25	-.243744	.066576	-.010964	-.213478	.001298	-.062735
26	-.177240	.085001	-.004015	-.154626	-.001475	-.063722
27	-.065067	.067809	.058018	-.060123	.017193	-.034227
28	.095806	.012102	.068432	.050241	.003456	-.026024
29	.265143	.012671	.037991	.096858	-.022186	-.036734
30	.167726	-.072368	.005750	.131644	-.018822	-.021617

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-02
0	.015380	.014449	.006400	.051475	.104893	.040939
1	.092397	.115746	.094946	.305739	.786479	.286289
2	.069558	.134735	.133947	.228281	.709403	.237878
3	.104701	.125926	.149665	.216352	.557384	.174984
4	.137664	.070778	.108187	.219640	.435690	.138130
5	.074892	.042353	.063469	.121968	.334630	.105820
6	.043789	.035961	.044768	.062068	.197758	.063185
7	.073557	.035201	.041143	.063032	.166755	.052639
8	.084931	.035870	.064854	.050209	.138017	.045843
9-11	.058534	.048680	.080470	.042103	.089157	.033562
12-14	.054818	.033476	.125414	.060109	.127266	.049967
15-21	.041713	.026998	.131832	.029820	.057097	.022395
22-30	.030500	.020888	.116732	.025739	.043678	.017484

RUN NO. 82D 40M 11-02-62 0800-0915 EST

GROSS STATISTICS

2 CI	WIND SPEED	5.18	M/SEC	WIND DIRECTION	14 DEG
TRANSITIONAL	SIGMA A	5.2	DEG	SOLAR RADIATION	0.53
WATER/LAND	SIGMA E	4.2	DEG	NET RADIATION	0.21

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.50928E 00	0.19981E-00	0.14206E-00	0.13376E-00
V	0.18449E-00	0.11837E-00	0.92382E-01	0.70745E-01
W	0.11205E-00	0.92472E-01	0.85183E-01	0.40714E-01
T	0.29055E-01	0.11603E-01	0.63938E-02	0.86718E-02
N	0.17246E 01	0.38959E-00	0.18142E-00	0.31883E-00
RHO(W)	0.52679E-01	0.12545E-01	0.59343E-02	0.10190E-01
E	0.40291E-00	0.20544E-00	0.15982E-00	
GUSTINESS RATIOS				
U	0.13777	0.08629	0.07276	0.07061
V	0.08292	0.06642	0.05868	0.05135
W	0.06462	0.05870	0.05634	0.03895
COVARIANCES				
U,V	0.18648E-01	-0.54775E-03	0.74510E-02	0.22216E-02
U,W	-0.73991E-01	-0.39634E-01	-0.31009E-01	-0.28006E-01
U,T	-0.73055E-01	-0.26258E-01	-0.14422E-01	-0.20698E-01
V,W	-0.17367E-02	-0.10653E-01	-0.84706E-02	-0.67210E-02
V,T	0.25149E-01	0.45610E-02	0.19178E-02	0.30191E-02
W,T	0.25772E-01	0.15624E-01	0.11721E-01	0.10691E-01
U,N	-0.53486E 00	-0.65052E-01	-0.27093E-01	-0.56421E-01
U,RHO(W)	-0.99657E-01	-0.15255E-01	-0.69873E-02	-0.12866E-01
V,N	0.68817E-01	0.98288E-02	-0.93835E-02	0.11700E-01
V,RHO(W)	0.15673E-01	0.24161E-02	-0.11650E-02	0.24325E-02
W,N	0.86071E-01	0.63158E-01	0.51642E-01	0.42256E-01
W,RHO(W)	0.18578E-01	0.13017E-01	0.10463E-01	0.87798E-02
T,N	0.11429E-00	0.34104E-01	0.16897E-01	0.27006E-01
T,RHO(W)	0.23727E-01	0.76064E-02	0.38880E-02	0.59346E-02
N,RHO(W)	0.29939E-00	0.69119E-01	0.32367E-01	0.56449E-01
WE	0.65493E-01	0.24254E-01	0.16059E-01	
NORMALIZED COVARIANCES				
U,V	0.06084	-0.00356	0.06504	0.02284
U,W	-0.30974	-0.29157	-0.28188	-0.37949
U,T	-0.60056	-0.54534	-0.47851	-0.60773
V,W	-0.01208	-0.10182	-0.09549	-0.12523
V,T	0.34349	0.12307	0.07891	0.12189
W,T	0.45169	0.47698	0.50226	0.56896
U,N	-0.57072	-0.23315	-0.16876	-0.27321
U,RHO(W)	-0.60843	-0.30469	-0.24065	-0.34849
V,N	0.12200	0.04577	-0.07248	0.07790
V,RHO(W)	0.15898	0.06270	-0.04976	0.09060
W,N	0.19580	0.33275	0.41542	0.37088
W,RHO(W)	0.24182	0.38218	0.46535	0.43106
T,N	0.51057	0.50724	0.49612	0.51360
T,RHO(W)	0.60648	0.63047	0.63119	0.63134
N,RHO(W)	0.99329	0.98869	0.98647	0.99037

RUN NO. 820 40M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11461 10E 00	0.11001 10E 00	0.30147 10E-01	0.88704 10E-01	0.24309 10E-01	0.23332 10E-01
0	.064823	-.282083	-.478419	-.095385	.078881	.502551
1	.063654	-.261719	-.450565	-.078750	.056901	.441941
2	.068806	-.221578	-.396431	-.056875	.022313	.347317
3	.076035	-.181215	-.339621	-.038456	-.010427	.269625
4	.072178	-.155245	-.286116	-.023888	-.023541	.207454
5	.054741	-.125536	-.236228	-.012049	-.021935	.158410
6	.030630	-.094095	-.195046	.000086	-.010213	.121361
7	.004746	-.052581	-.158457	.012309	-.000145	.080464
8	-.015567	-.017587	-.119082	.024969	.010855	.035650
9	-.026364	.008302	-.077861	.038033	.013745	-.009103
10	-.028763	.032581	-.037373	.032840	.002569	-.040513
11	-.024228	.052641	.001192	.021089	-.014790	-.058648
12	-.010353	.075774	.040558	.007197	-.031167	-.077567
13	.006188	.091793	.076784	-.010752	-.042835	-.086733
14	.004816	.091387	.106815	-.019269	-.041945	-.093293
15	-.012562	.082228	.134940	-.006953	-.028105	-.099487
16	-.025573	.077481	.158675	.000156	-.014976	-.102557
17	-.027660	.078116	.176357	.001826	-.018586	-.106639
18	-.032212	.085674	.189857	.005426	-.020692	-.114367
19	-.030541	.087574	.199508	.005133	-.021627	-.123416
20	-.029704	.081807	.202052	.001679	-.019232	-.139415
21	-.036906	.070587	.203036	.004143	-.010330	-.155800
22	-.040876	.064909	.200220	.004021	-.002946	-.171498
23	-.040000	.076979	.204887	.007454	-.004692	-.177399
24	-.040269	.090009	.204453	.015691	-.002391	-.156715
25	-.044190	.092710	.197843	.026675	.007609	-.125363
26	-.046515	.091173	.191280	.038124	.025189	-.106625
27	-.041044	.083930	.188504	.047474	.036873	-.099911
28	-.043414	.078105	.184505	.053509	.041940	-.102282
29	-.039785	.073361	.172270	.053843	.035236	-.103958
30	-.030493	.057976	.151644	.046079	.021903	-.095265
31	-.016015	.039561	.127134	.030138	.008813	-.074548
32	.000717	.030732	.100476	.012450	.000180	-.062402
33	.021423	.022267	.080908	-.002521	-.004570	-.059764
34	.035506	.026322	.065783	-.010633	-.001136	-.050572
35	.040167	.034757	.051335	-.018724	.004159	-.039174
36	.035558	.033873	.035851	-.013896	.014159	-.018458
37	.028630	.023187	.017532	-.002554	.023778	.016298
38	.027560	.008727	-.001958	-.005694	.023566	.037529
39	.033010	.001365	-.024740	-.018011	.019400	.042663
40	.032654	-.005685	-.052337	-.030207	.010679	.041708
41	.027366	-.013405	-.077806	-.038380	.000484	.042651
42	.025596	-.027800	-.092202	-.034915	-.007969	.056140
43	.021611	-.039257	-.105771	-.019767	-.016083	.071908
44	.020621	-.042839	-.124378	-.006029	-.020821	.085535
45	.019788	-.046978	-.134845	-.006370	-.018093	.097469
46	.013105	-.051271	-.128682	-.016191	-.013976	.094685
47	.010654	-.058035	-.120598	-.012694	-.017089	.088141
48	.010706	-.063093	-.109163	.003591	-.018716	.094205
49	.013349	-.062116	-.090314	.013157	-.016299	.096067
50	.016165	-.056310	-.071586	.012240	-.014448	.083647
51	.019302	-.049344	-.059934	-.001602	-.012896	.063850
52	.025176	-.045167	-.052690	-.014011	-.012951	.041464
53	.024571	-.039499	-.048697	-.009832	-.010367	.025844
54	.012460	-.037765	-.050471	-.004085	-.013379	.023159
55	-.007144	-.036115	-.052713	.000696	-.014156	.024587
56	-.021232	-.033314	-.052303	-.002914	-.009350	.026847
57	-.026161	-.025893	-.053252	-.002815	-.002312	.019180
58	-.027306	-.015087	-.051432	.001109	.005759	-.003538
59	-.028718	-.008596	-.041370	.004969	.014688	-.033017
60	-.030569	-.009659	-.031446	.006499	.019398	-.055915

RUN NO. 82D 40M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.16061 10E 00	0.29047 10E-01	0.12950 10E 00	0.23422 10E-01	0.12430 10E 00	0.22481 10E-01	0.34064 10E-01	0.61608 10E-02	0.32822 10E-01
0	-.168850	-.240630	-.072315	-.049675	.415542	.465663	.496216	.631157	.986465
1	-.160701	-.227998	-.064558	-.047160	.361666	.406078	.433361	.548902	.867670
2	-.141110	-.200450	-.051868	-.042310	.278196	.313766	.335869	.425226	.693710
3	-.122271	-.172941	-.041924	-.039325	.219406	.246717	.257359	.326428	.563142
4	-.110523	-.152442	-.032097	-.033054	.171063	.191931	.189746	.243255	.464973
5	-.093805	-.128060	-.022371	-.023969	.127845	.144409	.137451	.178707	.378564
6	-.073006	-.101695	-.014157	-.014500	.083915	.098034	.097070	.129720	.292297
7	-.051083	-.075287	-.002651	-.002315	.037137	.048515	.061439	.088413	.207273
8	-.030395	-.049467	.013011	.013602	-.003378	.003690	.029080	.050700	.133347
9	-.013294	-.026430	.019581	.020185	-.035176	-.032987	.002559	.018573	.081136
10	.002435	-.004836	.015993	.014795	-.059492	-.060423	-.019952	-.009922	.036197
11	.013920	.012512	.007444	.003924	-.074350	-.077177	-.042898	-.040389	-.012042
12	.023705	.028502	-.000690	-.006508	-.087537	-.092395	-.063953	-.068898	-.059092
13	.036373	.046565	-.005337	-.012967	-.094181	-.100242	-.084642	-.096562	-.100036
14	.049395	.063836	-.003245	-.010930	-.101689	-.108410	-.108293	-.126585	-.139626
15	.059383	.078045	.005861	-.000441	-.105239	-.112947	-.129498	-.154149	-.178087
16	.069089	.091232	.015025	.010014	-.104158	-.112531	-.139707	-.168523	-.204580
17	.075708	.100475	.017585	.011577	-.099729	-.109332	-.135312	-.168310	-.214818
18	.083447	.110051	.030265	.022813	-.095897	-.107632	-.124052	-.160876	-.220514
19	.087840	.115920	.046412	.037214	-.096297	-.109931	-.117789	-.158192	-.237346
20	.083919	.112894	.054946	.045253	-.101180	-.117138	-.118677	-.161799	-.258739
21	.077463	.107370	.058592	.049992	-.108607	-.126367	-.121250	-.165961	-.271781
22	.070583	.101069	.056652	.049793	-.118803	-.138311	-.124240	-.169646	-.279736
23	.070847	.102052	.053668	.046852	-.125461	-.145449	-.125614	-.170760	-.286543
24	.068466	.099829	.052082	.046086	-.114294	-.131580	-.121826	-.164497	-.285119
25	.066348	.096857	.048192	.044620	-.091450	-.105698	-.119007	-.157768	-.280228
26	.068935	.097839	.040487	.041110	-.075217	-.087760	-.119992	-.154785	-.270978
27	.071384	.099561	.032853	.036541	-.067496	-.079390	-.119717	-.151960	-.259813
28	.072544	.099969	.024743	.030246	-.064779	-.077337	-.112509	-.142289	-.240746
29	.064701	.090486	.012585	.018120	-.059313	-.072695	-.100707	-.128731	-.218114
30	.050217	.073295	.001218	.005372	-.045626	-.058582	-.076745	-.101621	-.187788
31	.036691	.056541	-.007565	-.004899	-.027744	-.038617	-.045121	-.065731	-.149504
32	.021549	.038094	-.011139	-.009613	-.015219	-.025287	-.019897	-.037857	-.113722
33	.010294	.024279	-.007581	-.007401	-.008909	-.019138	-.002809	-.019684	-.083691
34	.002347	.014423	-.004285	-.003833	.002565	-.007446	.015564	.000465	-.049155
35	-.002696	.007222	-.001807	-.000552	.015739	.006423	.033994	.020800	-.011774
36	-.010111	-.002341	.000563	.003395	.023692	.017410	.049328	.036879	.016495
37	-.020297	-.014969	-.001208	.003382	.037671	.036313	.063752	.055489	.034707
38	-.033659	-.030607	-.008773	-.003517	.045321	.047526	.073064	.069691	.047076
39	-.043989	-.044024	-.016589	-.011236	.050311	.053223	.080453	.080692	.060646
40	-.053183	-.057385	-.021788	-.017275	.048166	.051117	.093240	.095566	.077291
41	-.065368	-.072998	-.028362	-.024729	.044103	.047774	.101135	.105786	.085950
42	-.073737	-.083188	-.033895	-.031007	.044791	.050966	.098918	.107264	.081083
43	-.081157	-.092443	-.037024	-.035292	.049733	.058446	.092535	.105598	.067958
44	-.088231	-.102423	-.039264	-.038437	.056739	.067176	.080553	.097758	.052626
45	-.089142	-.105149	-.040122	-.038927	.064679	.076485	.070161	.090471	.042063
46	-.081624	-.097272	-.039118	-.037440	.062781	.074078	.058189	.079020	.031944
47	-.073642	-.088555	-.035247	-.034587	.056857	.067508	.043886	.064040	.018599
48	-.066741	-.080326	-.021261	-.022380	.056381	.068159	.030627	.048355	.002968
49	-.058319	-.069341	-.008066	-.010083	.060389	.071785	.019766	.035479	-.013830
50	-.049761	-.058311	-.002654	-.005091	.053376	.063291	.006032	.019461	-.030056
51	-.041621	-.048707	-.005978	-.007814	.037213	.045356	-.008791	.002618	-.039159
52	-.032664	-.039173	-.005940	-.007881	.017007	.023222	-.019621	-.009767	-.045247
53	-.024766	-.031080	-.003916	-.005744	.001590	.006480	-.022268	-.012328	-.047877
54	-.021293	-.028396	-.008490	-.010518	-.001064	.003666	-.020475	-.009113	-.047503
55	-.021889	-.029366	-.008779	-.010696	.001026	.005679	-.019284	-.007174	-.043450
56	-.018303	-.025993	-.006933	-.007865	-.002602	.002662	-.020763	-.008929	-.041336
57	-.010790	-.019254	-.004956	-.004845	-.011345	-.006909	-.024069	-.013336	-.042606
58	-.000246	-.009578	.002317	.003196	-.026867	-.025052	-.028939	-.019690	-.044497
59	.014169	.005299	.008462	.010200	-.041032	-.043211	-.038221	-.030093	-.052432
60	.026169	.017864	.005267	.008441	-.060227	-.064353	-.056918	-.050035	-.064788

RUN NO. 82D 40M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11461 10E 00	0.11001 10E 00	0.30147 10E-01	0.88704 10E-01	0.24309 10E-01	0.23332 10E-01
1	-.035230	-.022788	-.029141	-.010702	-.025765	-.022189
2	-.060005	-.047288	-.050708	-.021775	-.047861	-.027113
3	-.071877	-.070946	-.070388	-.038698	-.064326	-.032537
4	-.077433	-.085588	-.089484	-.048437	-.076300	-.038213
5	-.075071	-.104952	-.105719	-.055757	-.091651	-.031778
6	-.062611	-.128466	-.121386	-.067558	-.102439	-.023375
7	-.049464	-.139997	-.134459	-.081788	-.111045	-.014813
8	-.044566	-.147458	-.142468	-.090069	-.115221	-.008467
9	-.040128	-.152879	-.142870	-.089131	-.113980	-.007843
10	-.036809	-.152748	-.141184	-.091235	-.112851	-.004039
11	-.043651	-.147191	-.141097	-.093514	-.120092	-.000613
12	-.055066	-.138798	-.136999	-.087559	-.130802	-.011204
13	-.063913	-.129548	-.137358	-.076658	-.133668	-.027046
14	-.068512	-.114753	-.132988	-.056317	-.128643	-.044986
15	-.066420	-.092560	-.122603	-.040792	-.113207	-.053128
16	-.065255	-.060428	-.109556	-.016651	-.095895	-.050301
17	-.066517	-.038402	-.089848	.007842	-.080593	-.051686
18	-.066882	-.020966	-.065771	.020492	-.065408	-.052299
19	-.071684	-.003836	-.040861	.026870	-.051775	-.045518
20	-.072822	.016545	-.014224	.026202	-.043709	-.030637
21	-.067132	.031514	.004723	.021838	-.038853	-.019205
22	-.059384	.040625	.019880	.012262	-.030236	-.009150
23	-.040190	.059505	.040668	.009776	-.013953	-.001112
24	-.020342	.074454	.055813	.009207	.000377	.012823
25	-.000989	.082920	.057234	.014238	.012352	.032965
26	.009474	.089171	.054149	.025036	.019659	.043419
27	.015828	.087053	.050329	.028809	.029342	.041559
28	.025713	.070290	.041606	.032248	.038227	.029755
29	.037807	.050242	.038066	.036554	.050464	.018012
30	.047444	.039946	.040291	.032891	.064906	.018344
31	.060872	.041181	.039782	.028355	.079898	.019132
32	.073402	.041889	.038454	.022664	.095669	.017575
33	.080017	.038336	.035004	.022382	.108635	.014202
34	.081945	.036552	.029005	.024005	.107763	.013417
35	.082409	.032028	.022401	.028570	.096370	.013173
36	.083204	.023379	.020517	.033812	.092938	.007611
37	.089211	.022466	.022441	.041445	.101348	.003677
38	.097517	.025915	.023578	.053753	.111183	.001353
39	.100872	.037514	.023617	.055527	.121758	-.000974
40	.106170	.042648	.024710	.054499	.125105	-.002394
41	.103947	.035898	.025070	.054862	.125745	.002183
42	.093550	.033173	.030538	.057387	.121783	.008612
43	.081053	.030836	.037789	.051410	.114625	.009184
44	.065312	.019978	.034044	.039935	.101480	.003507
45	.047325	.013646	.032384	.033087	.085643	-.007281
46	.032299	.013353	.025809	.025666	.068009	-.012118
47	.021724	.006701	.005387	.022338	.052313	-.007649
48	.020014	-.002425	-.015805	.012115	.033074	.010756
49	.013229	-.008896	-.029778	-.006911	.008662	.027465
50	.001708	-.015536	-.035080	-.027270	-.019602	.031133
51	-.011711	-.029967	-.041025	-.028275	-.038166	.017280
52	-.019160	-.050977	-.044897	-.020412	-.047285	-.006769
53	-.031246	-.069062	-.047515	-.017789	-.053423	-.023736
54	-.039087	-.080579	-.052072	-.019221	-.057705	-.035245
55	-.045110	-.083080	-.054501	-.019125	-.056517	-.042428
56	-.056506	-.073369	-.048233	-.030242	-.064042	-.033316
57	-.071486	-.067200	-.042453	-.041229	-.076930	-.025843
58	-.088554	-.068674	-.037319	-.054647	-.089244	-.018083
59	-.102204	-.069228	-.029184	-.071251	-.104499	-.012098
60	-.110052	-.055370	-.017071	-.080087	-.115056	-.017208

RUN NO. 820 40M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.16061 10E 00	0.29047 10E-01	0.12950 10E 00	0.23422 10E-01	0.12430 10E 00	0.22481 10E-01	0.34064 10E-01	0.61608 10E-02	0.32822 10E-01
1	-.008329	-.013070	-.018736	-.033196	.016096	.010217	.015590	.013759	-.002889
2	-.019790	-.027326	-.029368	-.035386	.015623	.008975	.010263	.008993	-.001934
3	-.036195	-.045590	-.035783	-.043607	.006791	.000012	.001674	.001314	-.000344
4	-.056074	-.066813	-.037981	-.048655	.003256	-.004100	-.002378	-.002263	.000458
5	-.078483	-.089952	-.034894	-.048633	.009600	.002791	-.001231	-.001182	.000250
6	-.108161	-.119293	-.033334	-.049066	.026166	.019038	.001291	.001200	-.000167
7	-.134296	-.144903	-.040130	-.056696	.042555	.034903	-.000224	.000170	.000127
8	-.150913	-.161424	-.048769	-.065289	.052021	.044538	-.005852	-.004816	.001091
9	-.152503	-.162930	-.055952	-.071734	.045218	.038874	-.010796	-.009240	.001952
10	-.152601	-.162828	-.060014	-.075107	.043197	.037956	-.010220	-.008775	.001741
11	-.151026	-.161454	-.062802	-.078607	.051424	.045940	-.008487	-.007254	.001327
12	-.144819	-.155258	-.062753	-.080451	.054442	.046610	-.006492	-.005532	.000971
13	-.137642	-.148960	-.059113	-.077825	.047431	.037294	-.006508	-.005554	.001214
14	-.125270	-.137095	-.054945	-.073166	.042597	.029595	-.006079	-.005210	.001170
15	-.103796	-.115698	-.052473	-.068166	.038340	.024477	-.005963	-.005121	.001149
16	-.079449	-.091395	-.042009	-.055898	.030594	.018234	-.008384	-.007166	.001612
17	-.053032	-.063950	-.019926	-.033318	.020396	.008545	-.009750	-.008543	.001695
18	-.026933	-.035884	-.000560	-.013064	.010651	-.000570	-.010284	-.009136	.001740
19	.003839	-.003897	.009791	-.001243	.001794	-.007221	-.014390	-.012934	.002582
20	.033804	.027806	.008883	-.000559	.000464	-.005500	-.022194	-.020053	.004045
21	.056093	.051452	.007331	-.001091	.003967	.000096	-.026847	-.024227	.005009
22	.073480	.069720	.011538	.003968	.001731	.000536	-.032109	-.028566	.006299
23	.090864	.088851	.014099	.009441	-.011199	-.009293	-.041467	-.036664	.008214
24	.103264	.102849	.009779	.008309	-.015681	-.010967	-.047713	-.042402	.009198
25	.108562	.107844	.005954	.007373	-.008535	-.001046	-.048422	-.043190	.009047
26	.107713	.106419	.006378	.009063	.004062	.011838	-.044245	-.039601	.008282
27	.098897	.097697	.010331	.014590	.015373	.021459	-.034870	-.031302	.006425
28	.084082	.082861	.016844	.022523	.015975	.019592	-.023205	-.020836	.004144
29	.076306	.075316	.020847	.028713	.009109	.011090	-.008536	-.007779	.001220
30	.073288	.073149	.019610	.030102	.007029	.009358	.002005	.001584	-.000717
31	.068095	.068527	.016040	.029775	.008382	.010600	.006039	.005091	-.001497
32	.063275	.064107	.012000	.029016	.005140	.007124	.009527	.007891	-.002196
33	.056630	.057520	.013143	.032528	.000637	.002361	.018841	.016120	-.003940
34	.042570	.043774	.012664	.032045	.002657	.004137	.034149	.029867	-.006827
35	.025835	.027455	.008178	.026029	.000844	.002926	.045743	.040390	-.008887
36	.014703	.016915	.008850	.025875	-.009161	-.006810	.049170	.043510	-.009293
37	.005846	.009335	.017283	.034757	-.013975	-.011856	.054481	.048164	-.010307
38	-.005266	-.000417	.027280	.045550	-.010533	-.009261	.060729	.053624	-.011583
39	-.017727	-.011429	.041073	.059775	-.009585	-.008757	.060881	.053788	-.011447
40	-.027936	-.020101	.050538	.068769	-.014394	-.013257	.056228	.049725	-.010449
41	-.037651	-.028703	.052058	.070256	-.027050	-.023390	.048466	.043179	-.008699
42	-.044557	-.033906	.053859	.071020	-.037174	-.031080	.042312	.037767	-.007501
43	-.047165	-.034921	.055707	.071098	-.035295	-.029497	.036165	.032175	-.006517
44	-.052245	-.040165	.056150	.069290	-.032353	-.028212	.031858	.028400	-.005735
45	-.054478	-.042562	.051341	.062024	-.033023	-.031036	.029318	.026193	-.005134
46	-.057447	-.046824	.041511	.049935	-.028316	-.027842	.027650	.024693	-.004816
47	-.068410	-.060436	.029762	.036592	-.019049	-.018818	.026917	.024234	-.004618
48	-.081600	-.076178	.015264	.020155	-.003099	-.000921	.021636	.019424	-.003586
49	-.089562	-.085942	.003771	.005191	.007148	.011349	.012493	.010983	-.002264
50	-.091824	-.088977	-.007396	-.010388	.009969	.014524	.003620	.002875	-.000790
51	-.097056	-.094572	-.014300	-.019914	.003542	.006270	.001049	.000501	-.000488
52	-.099593	-.097320	-.015194	-.022329	-.008809	-.009307	.002372	.001522	-.000815
53	-.102217	-.099908	-.020520	-.028425	-.016786	-.019619	-.002139	-.002310	.000287
54	-.109017	-.106864	-.030954	-.038842	-.023365	-.027564	-.008935	-.007998	.001761
55	-.111892	-.109841	-.035843	-.043261	-.027893	-.032869	-.009770	-.008751	.001863
56	-.100283	-.098450	-.039280	-.047986	-.026914	-.030185	-.013342	-.011984	.002343
57	-.082236	-.081344	-.041512	-.052200	-.034042	-.035050	-.022714	-.020147	.004037
58	-.060953	-.061589	-.041646	-.054515	-.034325	-.033711	-.027441	-.024440	.004790
59	-.040789	-.042194	-.040868	-.056738	-.029605	-.028088	-.030650	-.027130	.005475
60	-.020181	-.021501	-.040756	-.058500	-.029099	-.028424	-.030539	-.026810	.005752

RUN NO. 82D 40M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.14214 10E 00	0.92417 10E-01	0.85140 10E-01	0.63941 10E-02	0.18148 10E 00	0.59361 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.858497	.813848	.758207	.861058	.880154	.878270
2	.672382	.579720	.462905	.666330	.705824	.699678
3	.534736	.410903	.271155	.513489	.576120	.564520
4	.421027	.288006	.153223	.390820	.480141	.461495
5	.321829	.201992	.075025	.295340	.394032	.372497
6	.244703	.143212	.015962	.227574	.306050	.286120
7	.179418	.083430	-.043010	.177821	.218787	.202036
8	.115530	.033828	-.100921	.131254	.142884	.128862
9	.046133	-.013172	-.127748	.085760	.090167	.076100
10	-.014834	-.060515	-.131742	.041632	.044824	.030396
11	-.067826	-.113714	-.133070	-.011117	-.004356	-.018432
12	-.124621	-.146417	-.132586	-.062859	-.052611	-.065802
13	-.176186	-.154909	-.130292	-.111439	-.094073	-.107599
14	-.208505	-.163876	-.130263	-.158478	-.133306	-.148719
15	-.232111	-.179184	-.139246	-.203747	-.172096	-.188108
16	-.243900	-.190066	-.128902	-.231821	-.199530	-.214537
17	-.254131	-.213373	-.104490	-.251060	-.211658	-.223860
18	-.275674	-.234136	-.089691	-.263986	-.219991	-.227927
19	-.289916	-.240474	-.081972	-.279576	-.240037	-.242543
20	-.291518	-.247291	-.086078	-.295049	-.263761	-.262335
21	-.282371	-.241723	-.098269	-.305651	-.278177	-.274450
22	-.276296	-.231611	-.117526	-.310637	-.286636	-.282124
23	-.278289	-.231604	-.132373	-.309072	-.293950	-.288463
24	-.283153	-.223565	-.125126	-.293831	-.293032	-.286113
25	-.265398	-.228313	-.104628	-.271532	-.288274	-.280387
26	-.244097	-.227310	-.104327	-.251515	-.277900	-.271406
27	-.226443	-.209076	-.117672	-.238994	-.265782	-.260592
28	-.214102	-.178013	-.114605	-.221910	-.246127	-.241591
29	-.191555	-.140990	-.105228	-.205453	-.223256	-.218864
30	-.163092	-.092822	-.091266	-.174981	-.194427	-.186613
31	-.122428	-.048487	-.062959	-.134517	-.157977	-.145850
32	-.085777	-.017043	-.036445	-.106880	-.123260	-.108584
33	-.059346	-.004948	-.028522	-.091792	-.093316	-.078261
34	-.050423	.005061	-.025345	-.072218	-.053474	-.043655
35	-.052208	.006462	-.015440	-.052319	-.020337	-.006559
36	-.049605	.013454	.002998	-.039155	.008219	.021595
37	-.030188	.025876	.019833	-.008510	.025584	.041351
38	-.006532	.039055	.034516	.022072	.037341	.055205
39	.014869	.042794	.042797	.044876	.050758	.069581
40	.037289	.034082	.041808	.063289	.066748	.087200
41	.050977	.021961	.033257	.080570	.074751	.096865
42	.058776	.011717	.043473	.098776	.069866	.092733
43	.076107	.011706	.058011	.119596	.056499	.080732
44	.093851	.028513	.062867	.134610	.041860	.065560
45	.098325	.054435	.060268	.146086	.032131	.054802
46	.091703	.073181	.050520	.143189	.023421	.043496
47	.079536	.074453	.043817	.131241	.011497	.028759
48	.070790	.074978	.065311	.112211	-.003248	.011823
49	.057696	.092452	.094776	.095477	-.019679	-.005677
50	.044248	.108318	.097610	.075559	-.035002	-.023142
51	.043212	.115422	.075252	.056435	-.041941	-.034546
52	.053434	.119073	.046460	.042563	-.046287	-.042490
53	.078158	.128129	.024959	.042036	-.048558	-.045429
54	.098799	.129682	.009783	.050746	-.048562	-.044462
55	.108130	.129903	.000468	.054405	-.044403	-.040336
56	.112245	.120488	.003751	.051692	-.041706	-.038774
57	.101795	.100463	-.001359	.043831	-.042431	-.040733
58	.082235	.068248	-.027069	.033523	-.043667	-.043526
59	.066523	.042315	-.055201	.021672	-.050757	-.052415
60	.053810	.033172	-.066480	.004112	-.060751	-.067115

RUN NO. 82D 40M 11-02-62 0800-0915 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-02	10E-02	10E-02	10E-03	10E-02
0	.008481	-.005022	-.012829	-.002408	-.018909	.008889
1	.082230	-.345667	-.227795	-.053193	-.085420	.123623
2	.194403	-.609519	-.362628	-.098690	-.026075	.202249
3	.265064	-.666521	-.366100	-.098640	.167143	.222812
4	.122127	-.440254	-.173391	-.026994	.287768	.131484
5	.034834	-.325756	-.085492	-.048138	.161099	.087249
6	.094705	-.242124	-.060287	-.127475	.028522	.073580
7-8	.082132	-.121436	-.029254	-.086190	-.004921	.054976
9-11	.006531	-.019858	-.024960	-.042611	.074072	.021417
12-15	-.059280	-.027834	-.014773	.009825	.183485	.020031
16-20	-.001876	-.014594	-.006616	-.020684	.047522	.013810
21-27	-.000687	-.022177	-.002548	-.004605	.032604	.005347
28-36	.002992	-.002343	-.001885	-.004414	.003538	.003848
37-47	.000964	-.000024	-.000466	-.001389	.007546	.001929
48-60	.000751	-.001550	-.000407	-.001435	.005521	.000779

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	-.142733	-.148650	-.090469	-.033304	-.044003	-.177825
2	-.418052	-.424050	-.140129	-.202808	-.130508	-.290898
3	-.322076	-.625996	-.167285	-.265022	-.122271	-.310503
4	.007876	-.460275	-.105334	-.190235	-.036819	-.076939
5	.000387	-.186222	-.032533	-.132980	-.016102	.137028
6	-.084857	.023148	.013226	-.032827	-.006161	.091100
7-8	-.117730	.027377	.001137	.042524	-.000215	-.178654
9-11	-.066706	.011056	-.006655	.015121	-.006225	-.117002
12-15	-.027853	-.001228	.002254	-.002546	.000241	-.001233
16-20	-.001980	-.003679	-.001890	-.001767	-.000718	-.016871
21-27	-.000525	-.002150	-.000468	.001457	-.000563	-.001635
28-36	-.005043	.004466	-.000677	.002180	-.000353	-.012857
37-47	.000957	-.000490	-.000371	-.000897	.000336	-.009561
48-60	.000601	-.000691	.000029	-.001281	-.000174	.000910

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-02
0	.011419	.003782	.032605	.007429	.037675	.011248
1	.166453	.074390	.437019	.079105	.290330	.087746
2	.247412	.125022	.726196	.113564	.343248	.108537
3	.268065	.147292	.896831	.119557	.345737	.113461
4	.168893	.100292	.717293	.066735	.193589	.064513
5	.098513	.059095	.646911	.035986	.098986	.033673
6	.071848	.049624	.648206	.027694	.095387	.032355
7-8	.050539	.044550	.497904	.022947	.066002	.021750
9-11	.032010	.026656	.303874	.018506	.038305	.013403
12-15	.024604	.019982	.213560	.012773	.023579	.008286
16-20	.013041	.013296	.163343	.006403	.015873	.005387
21-27	.008755	.007979	.102143	.003603	.012671	.003974
28-36	.006410	.004412	.058316	.002446	.005398	.001787
37-47	.003239	.003175	.034736	.001361	.003013	.001030
48-60	.001798	.001680	.021590	.000736	.001600	.000512

RUN NO. 820 40M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-02	10E-02	10E-03	10E-02
0	-.025389	-.006410	.019083	.027133	.030564	.006530	.020258	.046075	.064500
1	-.300264	-.089722	-.021551	-.052681	.401737	.087341	.159960	.401504	.498071
2	-.654203	-.171391	-.189761	-.311735	.751186	.158206	.257878	.622756	.601585
3	-.789891	-.193836	-.256331	-.381587	.978061	.198587	.326075	.744137	.618186
4	-.372951	-.091331	-.098429	-.105059	.678960	.133494	.199575	.443383	.349242
5	-.184878	-.045048	-.002025	.026003	.442228	.087134	.114454	.249708	.180550
6	-.145795	-.034436	-.022174	-.032319	.374327	.073636	.113919	.233960	.174387
7-8	-.047292	-.013128	-.110237	-.180260	.261742	.052128	.065098	.146557	.118305
9-11	-.045537	-.011886	-.031574	-.037474	.092557	.018874	.048808	.112249	.070546
12-15	.000640	-.002531	.012165	.052604	.071930	.015166	.030141	.071650	.043403
16-20	-.014047	-.003466	-.014713	-.015119	.054706	.011335	.017581	.039963	.028838
21-27	-.011492	-.002295	-.004090	-.000518	.036076	.006842	.008785	.020985	.022135
28-36	-.003662	-.000959	-.003320	-.004590	.019111	.003779	.005267	.012940	.009633
37-47	.002325	.000293	-.000429	.001042	.010720	.002081	.003317	.007787	.005475
48-60	-.000742	-.000216	-.000704	.000012	.002297	.000524	.001135	.003186	.002788

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03	10E-04	10E-04
1	-.173792	-.044101	-.093735	-.232359	.158255	.223294	-.188081	-.305839	.318841
2	-.499804	-.105954	-.248982	-.641297	.189015	.253888	-.363903	-.580838	.650633
3	-.993150	-.190756	-.259748	-.642601	.157873	.199653	.021131	.041632	-.031166
4	-.707246	-.133386	-.166053	-.333385	.111146	.164132	.329457	.532361	-.605919
5	-.122306	-.025700	-.099987	-.189798	.067501	.132278	-.027127	-.044630	.035252
6	.147301	.026204	.024106	.025631	-.033336	-.035823	-.185822	-.299125	.355043
7-8	.129186	.021245	.033351	.051866	-.057406	-.124888	.069794	.108394	-.119481
9-11	.038492	.004894	-.032474	-.063816	-.008883	-.034827	.038817	.060664	-.067314
12-15	.033746	.005803	-.016917	-.027115	.001357	.002064	.016285	.024204	-.038649
16-20	-.005831	-.001294	-.015295	-.026261	.022523	.033023	.022442	.036727	-.036713
21-27	-.001104	-.000285	.003286	.004963	.013084	.020925	.041134	.066498	-.073499
28-36	.001529	.000109	-.002095	-.004026	.004931	.005688	.015745	.025066	-.028526
37-47	-.000702	-.000178	-.000908	-.000962	-.000437	-.002518	.007785	.012503	-.012233
48-60	.001241	.000199	-.000335	-.000796	-.000710	-.001121	.002185	.003535	-.004274

RUN NO. 82D 40M 11-02-62 0800-0915 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
	0.97223 10E-01	0.73745 10E-01	0.34042 10E-01	0.53658 10E-01	0.24769 10E-01	0.18788 10E-01
0	.022850	-.379761	-.608030	-.125256	.121888	.569024
1	-.047117	-.062724	-.391674	.006065	.103656	.238989
2	-.042609	-.025200	-.216187	.023609	.115665	.077424
3	-.017401	.032028	-.136168	.054127	.116589	.021375
4	.012434	-.039526	-.168356	-.009269	.099008	.081505
5	-.035631	-.075294	-.167885	.084540	.101667	.077826
6	-.055845	.006678	-.071995	.116946	.142332	-.074594
7	-.064683	.024858	-.003208	.160611	.151830	-.095351
8	-.024568	-.006687	-.002253	.097059	.063803	-.024480
9	.000519	.027804	-.000661	.044032	.021827	-.058732
10	-.027426	-.003602	-.004760	.058210	.051694	-.079833
11	-.009136	-.013652	-.012487	.032871	.027861	-.064635
12	.015301	-.049058	.035995	-.054762	-.052460	-.011822
13	.060289	-.081740	.038107	-.031073	-.165488	.094207
14	.076227	-.057990	.033030	-.113809	-.185360	.056668
15	.008390	-.104200	.047816	-.099422	-.134946	.080617
16	.029369	-.061429	.088786	-.128744	-.106472	.078928
17	.058131	.014644	.094186	-.164841	-.175050	.020945
18	.025354	.105405	.122237	-.072957	-.164979	-.078416
19	.117938	.079347	.141941	-.222029	-.201432	-.075414
20	.019970	.077348	.170808	-.080769	-.114387	-.118312
21	-.054247	.075492	.213002	-.037724	-.045836	-.076509
22	-.008783	.114841	.245340	-.009561	-.037733	-.195494
23	-.013247	.099411	.192556	-.018338	-.065584	-.167948
24	.013289	.029501	.150608	.045097	-.047678	-.126872
25	-.021482	.091914	.140749	.047590	.014687	-.096078
26	-.047823	.113290	.114902	.046447	.028262	-.109730
27	-.015355	.086906	.065198	.013877	.004442	-.072079
28	.021248	-.003354	.019260	.039170	-.008012	.014094
29	-.009481	.014270	.014395	.053688	.001342	.026649
30	.021844	.007144	.034541	-.010213	-.011301	.012906

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-02
0	-.035363	-.090209	-.114495	.020645	.031304	.027477
1	-.232989	-.334597	-.565488	.242513	.238145	.133972
2	-.163566	-.087806	-.323869	.138405	.161701	.078641
3	.017464	-.057276	-.168895	-.144185	.003966	.087803
4	.121157	-.223849	-.160466	-.230044	-.069367	.124376
5	.037992	-.163440	-.117345	-.086173	-.022583	.069782
6	-.012757	-.004054	-.068642	-.031345	.007489	.016805
7	-.037261	-.027151	-.063853	-.007406	.012476	.027469
8	-.059039	-.128502	-.049650	.022876	.006852	.045868
9-11	-.031794	-.134881	-.076642	.001568	.011569	.038435
12-14	.078911	-.157714	-.086441	-.073585	-.022524	.063164
15-21	.041288	-.068094	-.023076	-.032856	.007016	.021012
22-30	.036699	-.156402	-.027325	-.034776	.003223	.031700

RUN NO. 82D 40M 11-02-62 0800-0915 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO'W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.20634 10E 00	0.36932 10E-01	0.15014 10E 00	0.26872 10E-01	0.11388 10E 00	0.20383 10E-01	0.52570 10E-01	0.94090 10E-02	0.57033 10E-01
0	-.273432	-.348364	.077926	.090522	.371046	.430740	.513722	.630741	.989760
1	-.188472	-.235584	.105640	.113171	.094600	.124620	.336253	.411025	.668968
2	-.154676	-.175890	.118705	.126333	.007712	.019512	.240199	.278190	.415182
3	-.150312	-.158305	.080229	.091914	.054478	.052514	.212050	.232189	.268188
4	-.152173	-.165620	.033449	.046819	.057338	.065253	.196015	.212088	.160673
5	-.111680	-.128964	.038230	.050822	.054288	.062432	.110500	.121705	.030702
6	-.008336	-.019563	.082269	.098137	-.053676	-.060870	.026587	.023072	-.061598
7	.022984	.019994	.077836	.095403	-.059882	-.070129	.001712	-.014885	-.077339
8	-.050159	-.045990	.059238	.063938	.096565	.084272	.079382	.056740	.013593
9	-.037568	-.034174	.047566	.046370	-.012666	-.020604	.028110	.011347	-.084594
10	-.037700	-.034848	.033533	.038989	-.067223	-.074591	-.023655	-.038233	-.133116
11	-.048657	-.046041	-.015572	-.009597	-.018767	-.027681	-.099811	-.106948	-.152853
12	-.019790	-.011831	-.019958	-.026405	-.026882	-.026479	-.105938	-.107841	-.156134
13	-.018127	-.009912	-.034788	-.058165	.030032	.042741	-.080632	-.081454	-.156130
14	-.005614	.000428	-.064148	-.089061	-.006868	.003719	-.096636	-.090214	-.187314
15	.038237	.042564	-.085444	-.098977	.016106	.027784	-.124288	-.112200	-.189634
16	.090355	.096304	-.089385	-.098677	.061174	.068686	-.125060	-.111031	-.111237
17	.128081	.131172	-.215977	-.224326	-.016275	-.011064	-.170083	-.154042	-.134910
18	.170382	.174280	-.196067	-.203798	-.138297	-.138967	-.213599	-.204580	-.211732
19	.189073	.193984	-.226019	-.237566	-.074141	-.079230	-.192995	-.199657	-.209132
20	.201426	.210285	-.223832	-.221167	-.12[illegible]93	-.132208	-.156798	-.177421	-.206243
21	.156576	.176953	-.196982	-.185931	-.041926	-.051451	-.093457	-.126717	-.135864
22	.173877	.198042	-.162503	-.152966	-.052237	-.079899	-.088554	-.134857	-.043675
23	.136247	.155036	-.065319	-.069944	.006242	-.022044	-.037293	-.084038	.042677
24	.069869	.087976	.021343	.011091	-.000238	-.020631	-.025539	-.064678	.054562
25	.037659	.057544	.046630	.044613	.010613	-.006100	-.016[illegible]24	-.045745	-.009307
26	.031582	.048015	.058767	.057197	-.069098	-.081456	-.042[illegible]48	-.064302	-.102281
27	-.037745	-.022775	.056281	.051393	-.029204	-.038460	-.067566	-.077339	-.120090
28	-.015709	-.010678	.092145	.082255	-.089359	-.078574	-.120585	-.118902	-.173915
29	.021566	.021916	.119326	.108182	-.130803	-.113939	-.140074	-.129186	-.177033
30	.002235	.007540	.113028	.099910	-.073284	-.063977	-.105248	-.101089	-.117402

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02	10E-01
0	-.045335	-.094122	.007874	.018418	.097311	.020710	.136481	.028801	.017314
1	-.236303	-.484503	.113592	.226594	.523927	.108947	.805597	.163694	.112494
2	-.120738	-.253765	.073332	.147629	.333758	.068093	.576967	.115207	.097380
3	-.024841	-.070697	-.013563	-.021130	.221670	.051483	.286399	.064793	.073251
4	-.047004	-.104876	-.011004	-.030037	.276404	.066954	.144629	.041770	.050715
5	-.059949	-.117983	.017421	.024285	.219406	.047942	.154142	.035146	.044014
6	-.013140	-.033696	.001233	.003419	.043319	.009944	.097227	.020939	.032809
7	.005676	-.002527	.010224	.018754	.127105	.025641	.084859	.019753	.030056
8	.008466	.004605	.016163	.027346	.223385	.044646	.094776	.019921	.025494
9-11	.006142	-.003940	-.001517	-.000313	.066206	.017639	.000009	.004355	.010077
12-14	-.025507	-.056865	-.010206	-.020612	.240644	.050518	.095051	.020753	.011669
15-21	-.005884	-.013615	-.003553	-.004423	.157734	.029376	.044197	.009473	.008321
22-30	-.010235	-.021533	-.000892	-.001117	.174266	.034144	.040765	.008505	.006899

RUN NO. 82D 40M 11-02-62 0800-0915 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
	0.97223 10E-01	0.73745 10E-01	0.34042 10E-01	0.53658 10E-01	0.24769 10E-01	0.18788 10E-01
1	-.018148	-.188990	-.145991	-.123589	-.094482	-.040730
2	-.067930	-.029450	-.113275	-.022001	-.040531	-.084553
3	.007808	-.029254	-.123140	.011801	.020838	-.049995
4	.037394	-.059529	-.109364	.024441	.029692	-.074997
5	-.051490	-.082369	-.144539	-.027641	-.065006	-.036677
6	-.144068	-.129937	-.120466	-.093883	-.155503	-.060021
7	-.137842	.022778	-.037015	-.033538	-.139933	-.011992
8	-.085785	-.022014	-.052209	.041737	-.065788	-.016678
9	-.111648	-.060371	-.053827	-.043172	-.060425	-.014838
10	-.092779	-.014438	-.045584	.033448	-.010223	.013447
11	-.099015	.048913	-.048785	.057433	-.038010	.037618
12	-.123122	.048131	-.037207	.027930	-.054878	.036012
13	-.060523	.046119	-.015825	.063823	-.037850	.052401
14	.011444	-.054031	-.048689	.044252	.034629	-.025558
15	-.028129	.015532	-.009988	.062286	.047712	.013480
16	-.055787	.007412	-.017238	.026841	.052361	.045843
17	.014818	-.105865	-.085012	-.070880	.056103	.054030
18	.088943	-.041230	-.058997	.113588	.141227	-.026111
19	.099015	-.054671	-.044951	.048004	.146270	-.057454
20	.092855	-.055464	-.045346	-.052572	.122070	-.066547
21	.054875	.030350	-.008832	-.030737	.094874	-.032642
22	.100275	.042777	.020242	-.017808	.069498	-.019795
23	.185291	.052288	.074450	.036622	.098582	-.008353
24	.113688	.111109	.143852	-.012401	.014182	.025501
25	.016654	.082829	.165573	-.084301	-.046407	.027883
26	.055124	.063491	.152177	-.026744	-.004974	.056608
27	.149363	.088053	.131627	.008389	.021805	.078420
28	.154287	.038725	.103144	-.009898	.018776	.051369
29	.090322	.062043	.103321	.009477	-.015150	.028506
30	.081954	.103995	.099550	-.026923	-.074527	.054077

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03
1	-.473083	-.160785	-.193698	.562887	-.035087	-.132546
2	-.478039	-.138653	-.143804	-.212775	-.100118	-.207882
3	-.127605	-.151894	-.104095	-.983721	-.067443	-.429113
4	.134500	-.215087	-.118159	-.693139	.015138	-.451514
5	.094585	-.100178	-.077548	-.035581	.014261	-.174158
6	.082500	.018101	-.046733	.221826	.015158	-.121925
7	.058398	-.032221	-.053333	.160234	.031436	-.117996
8	.000765	-.056124	-.024002	-.138568	.016493	-.026394
9-11	-.088359	-.045385	-.013174	-.503292	-.036839	-.082552
12-14	-.116216	-.143448	-.038768	-.957247	-.040783	-.055064
15-21	.048343	-.089289	-.014872	-.352627	-.007694	.013640
22-30	.025761	-.061554	-.019905	-.355291	-.007710	.090694

RUN NO. 82D 40M 11-02-62 0800-0915 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.20634 10E 00	0.36932 10E-01	0.15014 10E 00	0.26872 10E-01	0.11388 10E 00	0.20383 10E-01	0.52570 10E-01	0.94090 10E-02	0.57033 10E-01
1	-.126122	-.138457	-.067481	-.076666	.049292	.037651	-.014565	-.013194	.002155
2	-.081077	-.091647	-.022355	-.026604	.006626	-.007372	-.002580	-.002512	.000425
3	-.107533	-.116899	-.047786	-.039344	-.000975	-.009589	.014329	.012491	-.002746
4	-.140061	-.144815	-.058965	-.047844	-.062083	-.068352	.023124	.020646	-.003980
5	-.154671	-.163952	-.079339	-.081698	-.078553	-.077414	-.009448	-.008566	.001258
6	-.123714	-.132612	-.100732	-.116110	-.087399	-.087866	-.013594	-.011969	.002020
7	-.022858	-.026231	-.068852	-.084774	-.024746	-.024558	.006494	.005864	-.001367
8	-.084557	-.085054	-.041861	-.048268	.001314	-.001492	.030570	.027900	-.005280
9	-.171337	-.164094	-.071029	-.073916	-.010278	-.012013	.055235	.049826	-.009620
10	-.173966	-.164925	-.025527	-.023922	.014681	.015622	.087114	.078664	-.014948
11	-.202263	-.190842	-.025703	-.029546	.081524	.080128	.161360	.145738	-.026751
12	-.200997	-.188024	-.023130	-.030195	.118503	.113077	.185381	.167676	-.030584
13	-.168555	-.154940	-.004322	-.009860	.121872	.119417	.170152	.154217	-.027636
14	-.156218	-.149393	.040491	.041741	.020314	.014493	.159038	.143992	-.025330
15	-.100788	-.092767	.085262	.084857	-.002921	.000108	.135291	.123029	-.021481
16	-.084914	-.079110	.052505	.056062	.027286	.032180	.105380	.095470	-.016850
17	-.108635	-.113576	.009568	.017893	.054770	.058492	.042020	.038426	-.006619
18	-.048559	-.053741	.154694	.163413	.043410	.034994	-.012748	-.011489	.002370
19	-.005780	-.012909	.171899	.179469	.012734	.001289	-.021456	-.019640	.003595
20	-.031669	-.036735	.107595	.117013	.023108	.009579	-.001673	-.001697	.000024
21	.003284	.001517	.093905	.099987	.014142	.007156	-.003416	-.003556	.000269
22	.015200	.017136	.074553	.079012	-.049850	-.048406	-.005447	-.005212	.001024
23	.018833	.029311	.096073	.103264	-.018631	-.018718	.017480	.015757	-.002849
24	.039330	.059697	.054409	.051537	.074055	.070801	.062246	.055891	-.010759
25	.042380	.065389	.004502	-.004276	.095434	.090808	.074586	.066996	-.012875
26	.083975	.101782	-.002142	-.003296	.060302	.063474	.048823	.043431	-.008967
27	.107512	.119124	-.039500	-.031894	-.009992	.003197	.022812	.020017	-.004760
28	.076815	.085960	-.086433	-.075801	-.019088	-.008418	-.003566	-.003348	.000070
29	.121019	.126735	-.087929	-.082581	.026421	.028520	-.014939	-.013750	.002275
30	.137167	.140756	-.106027	-.109269	.014207	.022622	-.070538	-.063975	.011798

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03
1	-.254582	-.447016	-.086909	-.019788	.193132	.290593	.373103	.604298	-.668332
2	-.137426	-.248163	-.573096	-.110017	-.078009	-.161913	.113853	.184294	-.210796
3	-.029872	-.066930	-.470381	-.087622	-.282050	-.533747	-.120834	-.196410	.204508
4	-.005163	-.029588	-.046033	-.004458	-.241521	-.472158	-.144781	-.234708	.257781
5	-.035490	-.071149	-.047883	-.005191	-.006904	-.041159	.032231	.052196	-.051455
6	-.052611	-.093199	-.034806	-.003022	.159856	.237296	.095885	.154453	-.170278
7	-.041489	-.076543	.027420	.010043	.202780	.305644	.021272	.033269	-.043812
8	-.013954	-.026656	.001503	.003245	.109185	.170738	-.013522	-.022370	.020460
9-11	.011751	.016845	-.013880	-.008956	.106711	.158551	-.017074	-.027370	.031990
12-14	-.018442	-.037147	-.069861	-.018596	-.032274	-.060482	-.023262	-.037343	.041194
15-21	-.013912	-.025352	-.065698	-.012039	.040719	.067297	-.000042	-.000014	-.000859
22-30	-.010123	-.019920	-.070077	-.012781	.046712	.089181	-.003203	-.005318	.003540

RUN NO. 82D 40M 11-02-62 0800-0915 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.13362 10E 00	0.70742 10E-01	0.40701 10E-01	0.86726 10E-02	0.31865 10E 00	0.10208 10E-01
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.472493	.433279	.064494	.643674	.678032	.673188
2	.193605	.207368	.001109	.367842	.415422	.421296
3	.128579	.190245	-.081251	.244041	.257648	.281050
4	.093041	.191719	.046184	.209782	.141496	.180664
5	.107805	.173559	.046244	.130366	.013229	.048351
6	.055362	.047089	-.135928	-.008452	-.073609	-.051306
7	-.017299	-.105520	-.185174	-.099701	-.085733	-.072466
8	.033605	-.215475	.046491	-.093485	-.000333	.022436
9	.038481	-.189084	-.126334	-.085850	-.098919	-.074406
10	.044005	-.138481	-.114585	-.100157	-.142342	-.127194
11	.005766	-.154886	-.072607	-.098937	-.150487	-.156199
12	-.053008	-.254321	.004192	-.070830	-.153316	-.159062
13	-.042358	-.197848	.042489	-.052999	-.157780	-.154733
14	-.141059	-.178541	-.013498	-.016366	-.189467	-.184322
15	-.170190	-.093981	.067877	.000174	-.187253	-.189788
16	-.102134	-.048058	.188610	.010390	-.100634	-.118489
17	-.146780	-.108994	.061632	-.003130	-.118250	-.147291
18	-.180583	-.133095	-.115221	-.069316	-.194635	-.225660
19	-.117798	-.094914	.074103	-.154572	-.196430	-.221686
20	-.169525	-.201968	-.039596	-.214510	-.199261	-.215987
21	-.222995	-.085591	-.044036	-.250915	-.132507	-.144461
22	-.203803	-.074857	-.100181	-.329763	-.031861	-.062032
23	-.244396	-.090357	-.085810	-.302951	.053686	.024925
24	-.185770	-.069506	-.119077	-.253397	.065089	.038644
25	-.161456	-.069463	-.083893	-.186626	-.007056	-.016270
26	-.121915	-.060916	-.163191	-.150129	-.104552	-.103864
27	-.060301	-.049678	-.056821	-.096165	-.120186	-.121657
28	-.002375	.043609	.114798	-.057886	-.169853	-.177320
29	.048180	.028998	.066861	-.016794	-.169656	-.181816
30	.046200	.027284	.054823	-.038179	-.110764	-.122674

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-02
0	.044329	.009408	.022520	.037061	.091620	.033261
1	.245128	.099867	.131764	.184545	.605069	.211657
2	.154467	.103065	.124252	.121177	.537504	.178351
3	.081813	.087336	.228697	.102366	.420785	.130211
4	.073100	.055226	.286248	.102107	.297410	.089561
5	.078008	.025085	.165540	.057084	.255202	.077446
6	.079388	.010879	.097278	.029119	.192231	.056777
7	.067156	.014587	.125701	.033109	.176213	.052228
8	.045348	.016241	.151618	.025015	.146720	.044931
9-11	.051922	.026541	.146094	.024046	.062152	.017128
12-14	.052650	.030144	.216202	.029697	.061346	.022675
15-21	.031056	.018429	.139976	.012875	.046401	.015201
22-30	.030729	.018750	.252645	.010596	.038133	.012692

RUN NO. 82D 16M 11-02-62 0800-0915 EST
RUN NO. 82D 40M 11-02-62 0800-0915 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.469345	.200388	.165382	.535685	.586842	.560514
1	.430006	.578393	.438113	.573005	.508905	.509178
2	.353207	.650377	.548609	.573967	.518011	.529724
3	.306115	.584837	.561912	.529508	.517027	.525415
4	.290658	.510745	.527283	.422655	.449521	.458113
5	.217155	.489018	.566079	.303832	.363353	.374674
6	.065871	.367639	.519100	.221367	.336387	.331257
7-8	.113963	.301969	.438022	.195765	.208559	.215608
9-11	.287629	.311972	.213228	.341147	.318282	.321389
12-15	.117157	.198849	.306838	.118785	.178569	.155985
16-20	.140281	.112623	.225742	.117024	.192300	.183596
21-27	.106644	.125909	.111152	.247115	.142462	.139898
28-36	.154595	.112039	.116246	.136255	.140426	.118361
37-47	.178294	.208225	.124630	.160136	.175151	.181086
48-60	.140972	.122566	.123036	.140302	.136720	.142200

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.942507	.853499	.760626	.511204	.297372	.362625
1	.849720	.768160	.912089	.508430	.567901	.565148
2	.726340	.623212	.620949	.492689	.703173	.675678
3	.707004	.632587	.133344	.567039	.666874	.643968
4	.796197	.785933	.222056	.818412	.663198	.674434
5	.539337	.603648	.546311	.880196	.847293	.860518
6	.295786	.205565	.686241	.645534	.555732	.557127
7	.447974	.357439	.422374	.553241	.383437	.385777
8	.659326	.214075	.458672	.538511	.546040	.511024
9-11	.346211	.774051	.483494	.466306	.423124	.398704
12-14	.458639	.702124	.687330	.733945	.652930	.688269
15-21	.347107	.434903	.561844	.471683	.411302	.397723
22-30	.318252	.496806	.521962	.338455	.373371	.376082

RUN NO. 82E 16M 11-02-62 0916-1025 EST

GROSS STATISTICS

2 CI	WIND SPEED	4.48 M/SEC	WIND DIRECTION	17 DEG
UNSTABLE	SIGMA A	9.8 DEG	SOLAR RADIATION	0.78
WATER/LAND	SIGMA E	5.6 DEG	NET RADIATION	0.40

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.62711E 00	0.42733E-00	0.24467E-00	0.31316E-00
V	0.57499E 00	0.41522E-00	0.22110E-00	0.30566E-00
W	0.16427E-00	0.15982E-00	0.12712E-00	0.89012E-01
T	0.19134E-00	0.66468E-01	0.39395E-01	0.49246E-01
N	0.15225E 01	0.46815E-00	0.28775E-00	0.33086E-00
RHO(W)	0.41406E-01	0.23096E-01	0.14661E-01	0.16237E-01
E	0.68319E 00	0.50124E 00	0.29645E-00	
GUSTINESS RATIOS				
U	0.17676	0.14592	0.11041	0.12491
V	0.16926	0.14383	0.10496	0.12341
W	0.09047	0.08924	0.07959	0.06660
COVARIANCES				
U,V	0.12570E-01	0.16007E-01	-0.39670E-03	0.17212E-01
U,W	-0.11413E-00	-0.99221E-01	-0.56180E-01	-0.80737E-01
U,T	-0.21582E-00	-0.74683E-01	-0.36130E-01	-0.63170E-01
V,W	-0.11017E-01	-0.12988E-01	-0.49456E-02	-0.12852E-01
V,T	0.38713E-02	-0.49345E-03	0.47018E-02	-0.33444E-02
W,T	0.78075E-01	0.68363E-01	0.43171E-01	0.49472E-01
U,N	0.21244E-01	-0.18885E-00	-0.10023E-00	-0.15637E-00
U,RHO(W)	-0.35980E-01	-0.44285E-01	-0.22863E-01	-0.36867E-01
V,N	0.15662E-01	-0.53436E-02	-0.12158E-03	-0.64183E-02
V,RHO(W)	0.32112E-02	-0.97304E-03	0.83393E-03	-0.16826E-02
W,N	0.17613E-00	0.15972E-00	0.11118E-00	0.10872E-00
W,RHO(W)	0.42830E-01	0.38407E-01	0.25927E-01	0.26674E-01
T,N	-0.84608E-01	0.14442E-00	0.97464E-01	0.99366E-01
T,RHO(W)	0.21222E-01	0.35565E-01	0.23002E-01	0.25107E-01
N,RHO(W)	0.23143E-00	0.10232E-00	0.64478E-01	0.71821E-01
WE	0.41329E-01	0.49508E-01	0.22908E-01	
NORMALIZED COVARIANCES				
U,V	0.02093	0.03800	-0.00171	0.05563
U,W	-0.35559	-0.37967	-0.31855	-0.48357
U,T	-0.62306	-0.44313	-0.36801	-0.50867
V,W	-0.03585	-0.05042	-0.02950	-0.07792
V,T	0.01167	-0.00297	0.05038	-0.02726
W,T	0.44038	0.66328	0.61005	0.74722
U,N	0.02174	-0.42223	-0.37775	-0.48579
U,RHO(W)	-0.22329	-0.44577	-0.38172	-0.51701
V,N	0.01674	-0.01212	-0.00048	-0.02018
V,RHO(W)	0.02081	-0.00994	0.01465	-0.02388
W,N	0.35219	0.58390	0.58133	0.63354
W,RHO(W)	0.51932	0.63214	0.60056	0.70165
T,N	-0.15676	0.81869	0.91541	0.77845
T,RHO(W)	0.23843	0.90771	0.95713	0.88788
N,RHO(W)	0.92176	0.98404	0.99270	0.97989

RUN NO. 82E 16M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.23259 10E 00	0.17638 10E 00	0.98172 10E-01	0.16766 10E 00	0.93317 10E-01	0.70768 10E-01
0	-.001762	-.318431	-.367857	-.029455	.050738	.610113
1	-.003297	-.308507	-.346559	-.032314	.038343	.538687
2	-.005265	-.279516	-.306871	-.035714	.023658	.434429
3	-.006857	-.239811	-.268402	-.040355	.009525	.351433
4	-.003229	-.196369	-.230178	-.037228	-.001285	.283530
5	.004127	-.157238	-.192808	-.030056	-.008294	.220224
6	.010761	-.122536	-.154282	-.023829	-.010917	.163984
7	.011757	-.092342	-.122961	-.022232	-.015639	.108520
8	.011919	-.068761	-.102186	-.018902	-.020458	.056942
9	.015692	-.041080	-.078923	-.014962	-.026898	.014493
10	.016064	-.012719	-.047823	-.009983	-.029505	-.017267
11	.009460	.011575	-.014870	-.006006	-.033543	-.043260
12	.000269	.036367	.017352	.005034	-.034935	-.070715
13	-.007600	.060451	.051179	.008485	-.032204	-.099873
14	-.014436	.083205	.073806	.004307	-.028215	-.119014
15	-.023511	.097840	.088050	-.003005	-.021056	-.132982
16	-.029930	.104976	.098505	-.009724	-.012825	-.139536
17	-.028441	.109307	.106338	-.016479	-.003554	-.138688
18	-.023389	.111487	.109271	-.019192	.003934	-.136870
19	-.013495	.113452	.115012	-.015198	.008650	-.138117
20	-.003067	.113180	.121999	-.005152	.013360	-.136899
21	.003082	.107009	.129023	-.001933	.013511	-.135373
22	.005144	.097948	.131941	-.001941	.014205	-.134865
23	.003896	.095155	.137135	.001692	.012697	-.132633
24	.003566	.097213	.138831	.007241	.006114	-.131534
25	.000896	.094667	.126759	.023697	-.002213	-.130935
26	-.005645	.089208	.108777	.036444	-.002643	-.133961
27	-.013407	.088804	.094425	.042648	.002418	-.135222
28	-.020272	.090347	.089450	.043208	.009165	-.132636
29	-.020267	.085322	.089023	.043008	.017242	-.120821
30	-.015550	.072777	.082710	.048466	.026575	-.105848
31	-.010923	.059414	.068821	.051836	.035608	-.084491
32	-.005634	.041113	.053942	.046525	.041941	-.065637
33	-.002150	.021684	.038378	.045846	.047055	-.051975
34	-.005070	.009307	.030765	.043486	.055777	-.034819
35	-.009471	-.006653	.022477	.036686	.056694	-.017520
36	-.010702	-.021050	.010324	.032083	.048601	-.006374
37	-.011565	-.032064	-.000685	.030688	.038075	-.002231
38	-.010341	-.040560	-.009947	.034157	.031862	-.001211
39	-.007507	-.044123	-.018112	.032631	.025296	-.001900
40	-.005833	-.044950	-.022350	.026114	.016659	-.000818
41	-.004046	-.046833	-.024378	.017759	.008271	-.000250
42	-.006931	-.045091	-.026199	.013839	.001735	-.002004
43	-.004417	-.042239	-.025746	.010602	.000174	-.004463
44	.001932	-.033885	-.018496	.008198	-.003205	-.006070
45	.009714	-.019319	-.010567	.004237	-.007832	-.008266
46	.013471	-.004449	-.003958	-.000742	-.015645	-.011939
47	.013480	.010219	.000477	-.004751	-.024708	-.019207
48	.013070	.025365	.008492	-.005840	-.028591	-.021033
49	.014599	.031461	.016135	-.007617	-.032202	-.020468
50	.018222	.033694	.023275	-.014101	-.036166	-.019470
51	.027327	.037664	.029194	-.026592	-.042514	-.018643
52	.036978	.038439	.032577	-.038701	-.052328	-.021743
53	.041802	.042893	.038945	-.047913	-.063436	-.026499
54	.049164	.049923	.048787	-.054471	-.079487	-.026329
55	.054035	.052130	.055231	-.066231	-.096652	-.017859
56	.057748	.050207	.055621	-.075370	-.108642	-.005354
57	.061667	.041344	.052484	-.071434	-.110745	.005874
58	.062793	.035727	.050525	-.059928	-.104414	.011440
59	.059588	.038147	.050375	-.041566	-.086476	.020406
60	.050785	.045811	.050034	-.030981	-.068192	.024590

RUN NO. 82E 16M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.26534 10E 00	0.59890 10E-01	0.25222 10E 00	0.56928 10E-01	0.19128 10E 00	0.43172 10E-01	0.10646 10E 00	0.24029 10E-01	0.64946 10E-01
0	-.377701	-.381797	-.000233	.014686	.581371	.600515	.915214	.957046	.992627
1	-.355263	-.359295	-.005383	.007291	.507252	.525895	.785312	.824944	.840058
2	-.315968	-.319185	-.008418	.000860	.405387	.421463	.615070	.650257	.650838
3	-.277361	-.279908	-.014499	-.007647	.324744	.338595	.483653	.514465	.508004
4	-.237456	-.239623	-.020941	-.015418	.260469	.272008	.381118	.407927	.398252
5	-.197451	-.199803	-.027746	-.022325	.201108	.210281	.302900	.325030	.317847
6	-.159448	-.160855	-.029264	-.024118	.150554	.157052	.236981	.254714	.251218
7	-.127100	-.128148	-.030947	-.026726	.097228	.102209	.176241	.190221	.189314
8	-.104577	-.105811	-.031124	-.028227	.045632	.049839	.116572	.127239	.128407
9	-.080653	-.081637	-.035553	-.033151	.005931	.008633	.057266	.064561	.068974
10	-.049841	-.050129	-.036433	-.034532	-.021015	-.020181	.008251	.012331	.019412
11	-.016228	-.015977	-.037548	-.036620	-.045119	-.045261	-.037454	-.035799	-.028885
12	.017160	.017737	-.033771	-.034487	-.070199	-.071557	-.079144	-.079114	-.073421
13	.052219	.052985	-.025083	-.027596	-.099176	-.101323	-.118658	-.119914	-.116479
14	.073978	.075283	-.016632	-.020415	-.118850	-.121084	-.144743	-.147618	-.143486
15	.086891	.088807	-.006683	-.011181	-.131682	-.134345	-.163388	-.167824	-.161334
16	.098011	.099939	.003862	-.001282	-.138682	-.141264	-.176116	-.181798	-.173680
17	.108652	.109886	.015442	.009878	-.139666	-.141800	-.188769	-.195125	-.187483
18	.115746	.115825	.022224	.017024	-.138546	-.140551	-.201764	-.208249	-.203005
19	.124251	.123806	.024223	.019653	-.139131	-.141434	-.210974	-.217720	-.215646
20	.131239	.130928	.028106	.023796	-.138226	-.140273	-.220198	-.226725	-.229087
21	.139625	.139027	.026910	.023028	-.138324	-.139958	-.232510	-.239075	-.244138
22	.145472	.144242	.025826	.022613	-.138442	-.139833	-.244437	-.251638	-.257899
23	.151750	.150343	.021640	.019132	-.136142	-.137398	-.239081	-.247657	-.252106
24	.153328	.151920	.011565	.009954	-.136281	-.137339	-.226289	-.236286	-.238350
25	.140105	.138849	.001396	.000108	-.135074	-.136540	-.220506	-.231944	-.230703
26	.119943	.119040	-.000418	-.001307	-.134854	-.137226	-.219157	-.231791	-.228352
27	.106854	.105232	.005270	.004359	-.133285	-.136299	-.214101	-.227234	-.224440
28	.100315	.098959	.011061	.010595	-.128943	-.132246	-.207596	-.220737	-.218551
29	.097763	.096925	.020400	.019819	-.115874	-.119422	-.193567	-.205789	-.206322
30	.089264	.088909	.031249	.030396	-.099755	-.103421	-.173087	-.184346	-.186216
31	.075631	.074876	.040585	.039788	-.076986	-.080665	-.145258	-.156055	-.155241
32	.059287	.058779	.049936	.048371	-.061121	-.063463	-.123007	-.133414	-.129360
33	.040473	.040542	.058981	.056465	-.051502	-.052588	-.108485	-.118291	-.113485
34	.028177	.029367	.069118	.066296	-.033350	-.034507	-.092462	-.101425	-.096826
35	.014733	.017243	.070581	.067658	-.011065	-.013221	-.077094	-.086245	-.079501
36	-.001342	.001910	.059677	.057473	.004051	.000983	-.066886	-.075917	-.068126
37	-.012666	-.009584	.047620	.045758	.011905	.007798	-.055558	-.064482	-.054700
38	-.021641	-.018777	.043873	.041154	.014183	.009745	-.041725	-.050843	-.037848
39	-.030804	-.027757	.040655	.036890	.013416	.009212	-.032255	-.041442	-.027498
40	-.036370	-.033050	.034036	.029665	.011645	.008223	-.029326	-.038160	-.025891
41	-.036383	-.033679	.025092	.020780	.009726	.006897	-.029190	-.037038	-.028030
42	-.036520	-.034260	.016830	.012924	.006321	.003994	-.026234	-.032720	-.028344
43	-.034851	-.032825	.014644	.010805	.003924	.001625	-.019492	-.025473	-.023406
44	-.025104	-.023712	.009800	.006225	.002660	.000381	-.013126	-.018882	-.018807
45	-.015222	-.014275	.003118	.000072	-.000613	-.002728	-.009786	-.014867	-.018034
46	-.005500	-.005222	-.005764	-.008727	-.009167	-.010168	-.005942	-.009958	-.016139
47	.002811	.002298	-.016884	-.019491	-.018775	-.019222	.001481	-.002128	-.007540
48	.013479	.012337	-.020290	-.022916	-.019559	-.020315	.011199	.007881	.003658
49	.020397	.019606	-.021424	-.024724	-.013873	-.016205	.022150	.019214	.015173
50	.026730	.026370	-.022530	-.026777	-.010037	-.013031	.031070	.028747	.022764
51	.031098	.031329	-.025866	-.031268	-.009046	-.012000	.038189	.036835	.026916
52	.032932	.033639	-.035251	-.040970	-.011551	-.014720	.047474	.046961	.034486
53	.040199	.040714	-.045772	-.051797	-.015637	-.019133	.053777	.053825	.038736
54	.051706	.051985	-.062393	-.068559	-.016481	-.019656	.062070	.062808	.045691
55	.062057	.061280	-.080435	-.086662	-.008379	-.011273	.071495	.072286	.056118
56	.064295	.062934	-.094191	-.100176	.005133	.002097	.077745	.078759	.063829
57	.062256	.060632	-.101288	-.105900	.015874	.013152	.080715	.081982	.067847
58	.064655	.061831	-.101863	-.104443	.020678	.018229	.080607	.082705	.066958
59	.067149	.063388	-.087620	-.088836	.029027	.027052	.081981	.084973	.068766
60	.068396	.064001	-.071368	-.071705	.034091	.031920	.079704	.082732	.066249

RUN NO. 82E 16M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.23259 10E 00	0.17638 10E 00	0.98172 10E-01	0.16765 10E 00	0.93317 10E-01	0.70768 10E-01
1	.001533	-.056428	-.050803	-.018246	-.014983	.026079
2	.002095	-.094732	-.088363	-.032720	-.025888	.043713
3	-.001829	-.111047	-.114310	-.047009	-.034226	.056837
4	-.004925	-.117795	-.131710	-.054465	-.044830	.067727
5	-.006813	-.116354	-.142691	-.058790	-.055813	.080223
6	-.007699	-.105580	-.143522	-.058556	-.063214	.090199
7	-.005657	-.087502	-.137726	-.062637	-.068976	.094438
8	-.004917	-.071588	-.125319	-.067808	-.073419	.095151
9	-.005315	-.061052	-.111765	-.068285	-.072406	.091739
10	-.005464	-.047405	-.100375	-.066007	-.071631	.081813
11	-.009951	-.032920	-.089984	-.063520	-.070906	.073278
12	-.020720	-.019614	-.081392	-.059087	-.063575	.064213
13	-.031840	-.001927	-.070098	-.051423	-.053486	.052062
14	-.036216	.022220	-.056022	-.049554	-.043082	.048233
15	-.030878	.042254	-.040028	-.043672	-.035812	.046344
16	-.020495	.050665	-.025358	-.032548	-.029000	.043641
17	-.012373	.048006	-.017228	-.019032	-.019556	.037083
18	-.014682	.045239	-.012444	-.007049	-.009996	.028987
19	-.016291	.041647	-.004117	.003138	-.002636	.021916
20	-.013156	.036184	.000397	.012056	.004715	.014094
21	-.002227	.028332	.001424	.015697	.014515	.010279
22	.009853	.018936	-.000622	.022569	.024617	.010946
23	.015661	.013233	-.001833	.034858	.035114	.010478
24	.009665	.003829	-.002018	.044567	.040082	.006529
25	.001416	-.001123	-.003585	.047865	.038274	.004776
26	-.007017	.000971	-.001020	.046258	.031394	.002512
27	-.010818	.007755	.006591	.045287	.024444	.001763
28	-.012864	.023010	.019247	.039297	.018573	.001588
29	-.016799	.037816	.029805	.033765	.014400	.000108
30	-.014189	.037007	.032306	.031708	.011179	.000674
31	-.007161	.022783	.026698	.034669	.009511	-.005133
32	-.003884	.000314	.014942	.035877	.003181	-.013985
33	-.003841	-.019488	.001610	.034941	-.002343	-.025056
34	-.000159	-.023866	-.004797	.033121	-.006944	-.032715
35	.001153	-.021646	-.010661	.030257	-.008443	-.032947
36	.004326	-.028961	-.014895	.033524	-.003032	-.033828
37	.008157	-.036387	-.019777	.037004	.006238	-.029201
38	.007781	-.041166	-.022655	.033914	.012209	-.025754
39	.004840	-.045160	-.024117	.026907	.009507	-.023698
40	.004876	-.045534	-.023947	.019228	.005972	-.023873
41	.005865	-.048304	-.021717	.014263	.006945	-.024463
42	.004783	-.050600	-.022030	.009916	.007918	-.022083
43	-.003609	-.050823	-.026490	.002615	.004682	-.014804
44	-.015023	-.046843	-.031186	-.012892	-.000328	-.007864
45	-.022614	-.038412	-.030819	-.035273	-.006581	-.008220
46	-.025573	-.023887	-.027689	-.050821	-.011970	-.010741
47	-.026270	-.004044	-.019461	-.056690	-.011365	-.014669
48	-.027686	.012254	-.008005	-.054011	-.009824	-.017776
49	-.033676	.019131	.000522	-.044759	-.007837	-.021258
50	-.041255	.021110	.004290	-.036522	-.005829	-.026208
51	-.044605	.022254	.010769	-.030000	-.002634	-.031892
52	-.039199	.021972	.015876	-.020502	.005141	-.030120
53	-.027686	.021006	.018818	-.009420	.019800	-.025631
54	-.011806	.019778	.018091	-.000545	.033699	-.025792
55	.000518	.018157	.014464	.014494	.045328	-.030771
56	.013236	.016395	.015450	.029715	.055035	-.028594
57	.026663	.010095	.015746	.037034	.060526	-.019324
58	.042742	.006219	.014819	.041653	.063757	-.012427
59	.053505	-.003598	.017088	.040554	.062625	-.008068
60	.061694	-.010747	.023698	.036492	.061616	-.003126

RUN NO. 82E 16M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.26534 10E 00	0.59890 10E-01	0.25222 10E 00	0.56928 10E-01	0.19128 10E 00	0.43172 10E-01	0.10646 10E 00	0.24029 10E-01	0.64946 10E-01
1	-.034717	-.040256	-.010577	-.012055	.010843	.015617	-.014593	-.010550	.004280
2	-.059438	-.069226	-.022229	-.023811	.021023	.028107	-.024259	-.017589	.007116
3	-.074205	-.087608	-.032265	-.033521	.028557	.037397	-.031124	-.022400	.009320
4	-.084061	-.099907	-.042669	-.044160	.034418	.045098	-.036011	-.025745	.011005
5	-.089778	-.107266	-.054125	-.055629	.045868	.057022	-.039278	-.027926	.012135
6	-.088798	-.106828	-.063563	-.064711	.053229	.065203	-.041448	-.029534	.012673
7	-.085222	-.102561	-.073035	-.073446	.053271	.066413	-.045001	-.032249	.013585
8	-.076171	-.092474	-.084038	-.082600	.053611	.066895	-.046880	-.033582	.014141
9	-.063205	-.079196	-.087297	-.084679	.052915	.065572	-.047614	-.034148	.014270
10	-.049195	-.065809	-.087760	-.084625	.048525	.059491	-.046834	-.033509	.014137
11	-.036163	-.053342	-.085442	-.082667	.044831	.054217	-.047150	-.033746	.014216
12	-.027512	-.044480	-.072709	-.071327	.037131	.045859	-.045111	-.032352	.013607
13	-.016455	-.033041	-.058632	-.057940	.024747	.033306	-.041303	-.029649	.012469
14	-.007982	-.022615	-.046388	-.046001	.019265	.028193	-.037030	-.026597	.011124
15	.001490	-.011079	-.040359	-.039515	.017217	.026125	-.033686	-.024184	.010171
16	.011828	.000753	-.035006	-.033657	.018377	.026231	-.031825	-.022880	.009560
17	.016011	.006179	-.025809	-.024327	.017026	.023358	-.030852	-.022286	.009156
18	.018405	.009235	-.016673	-.014968	.013474	.018412	-.029622	-.021347	.008765
19	.026814	.017960	-.009229	-.007429	.006262	.011132	-.029148	-.020928	.008667
20	.029953	.021491	-.000693	.000938	-.004085	.001356	-.030458	-.021889	.009052
21	.028629	.020734	.010700	.012154	-.009825	-.003884	-.031256	-.022392	.009401
22	.023594	.016448	.023089	.024127	-.009189	-.002957	-.029625	-.021046	.009099
23	.019905	.013451	.037740	.037744	-.006960	-.001604	-.027405	-.019408	.008450
24	.016352	.010909	.045822	.045071	-.008609	-.004045	-.027265	-.019475	.008229
25	.010083	.006079	.044401	.043612	-.006461	-.003024	-.025409	-.018261	.007575
26	.007355	.004997	.036452	.035975	-.006482	-.003535	-.021895	-.015665	.006557
27	.010063	.009239	.029837	.029133	-.005128	-.002989	-.017895	-.012753	.005360
28	.019210	.019741	.025484	.024145	-.000602	.000127	-.012334	-.008808	.003645
29	.025090	.027125	.021587	.019840	.000715	.000687	-.005982	-.004291	.001747
30	.025236	.027828	.018765	.016763	.003602	.003006	-.000222	-.000103	.000122
31	.020719	.022893	.016545	.014663	-.000357	-.001641	.003738	.002787	-.000967
32	.012187	.013219	.008450	.006975	-.006646	-.008914	.005641	.004156	-.001522
33	-.000632	.000107	.002011	.000727	-.015736	-.018884	.006082	.004373	-.001751
34	-.007827	-.006917	-.003925	-.004889	-.024124	-.027231	.006505	.004733	-.001864
35	-.016445	-.014884	-.004117	-.005496	-.026947	-.029476	.007883	.005759	-.002263
36	-.021486	-.019926	.004506	.002304	-.030233	-.031931	.006856	.005062	-.001898
37	-.025314	-.024088	.015943	.013205	-.026913	-.028095	.003487	.002605	-.000883
38	-.026119	-.025378	.020779	.018577	-.029371	-.028780	-.000981	-.000736	.000303
39	-.024451	-.024583	.013074	.012370	-.033500	-.031059	-.004551	-.003302	.001364
40	-.021215	-.022359	.003717	.004610	-.036940	-.033617	-.008251	-.006015	.002406
41	-.015427	-.017583	-.001792	.000785	-.040673	-.036627	-.011573	-.008486	.003324
42	-.011439	-.014739	-.004609	-.001021	-.038184	-.034168	-.013973	-.010141	.004115
43	-.012254	-.016660	-.009162	-.005292	-.031820	-.027479	-.016043	-.011585	.004786
44	-.015173	-.020070	-.015040	-.011074	-.023307	-.019358	-.018088	-.013109	.005312
45	-.014015	-.019104	-.022591	-.018278	-.022921	-.019230	-.019369	-.014106	.005634
46	-.010939	-.015958	-.028719	-.024317	-.021749	-.019395	-.015814	-.011703	.004419
47	-.002937	-.007841	-.028634	-.024115	-.022693	-.021204	-.010345	-.007792	.002723
48	.007683	.003082	-.026140	-.021800	-.020990	-.020783	-.004397	-.003385	.001103
49	.013694	.010096	-.018961	-.016044	-.020222	-.021117	-.000361	-.000368	.000013
50	.013916	.011497	-.012206	-.010526	-.019297	-.021830	.003093	.002187	-.000953
51	.017494	.015939	-.006761	-.005542	-.020924	-.024663	.006422	.004659	-.001873
52	.019094	.018808	.002962	.003719	-.014158	-.019170	.009002	.006500	-.002707
53	.016824	.017944	.017244	.018410	-.003970	-.010273	.012040	.008798	-.003581
54	.008232	.011548	.029714	.031389	.000972	-.006755	.017088	.012358	-.005162
55	-.002551	.002582	.040826	.042770	-.001341	-.009873	.021556	.015647	-.006441
56	-.009303	-.002116	.051953	.053619	.001642	-.006970	.024317	.017771	-.007125
57	-.014886	-.005999	.056614	.058543	.011709	.002962	.025429	.018623	-.007402
58	-.020627	-.010323	.058882	.061152	.020004	.010909	.025468	.018533	-.007511
59	-.019455	-.008929	.058159	.060335	.024637	.015489	.025598	.018645	-.007538
60	-.013778	-.002929	.055797	.058307	.029591	.020571	.025521	.018714	-.007432

RUN NO. 82E 16M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.24469 10E 00	0.22109 10E 00	0.12715 10E 00	0.39388 10E-01	0.28775 10E 00	0.14659 10E-01
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.850083	.858941	.774693	.870700	.841818	.850645
2	.664995	.658474	.521905	.695955	.649461	.662340
3	.537177	.486792	.368692	.557686	.505333	.519111
4	.430486	.361456	.267405	.447697	.395323	.408372
5	.326115	.271359	.189074	.358571	.316000	.325780
6	.240300	.190537	.128864	.282229	.250945	.256712
7	.175575	.115590	.067779	.212635	.190179	.192885
8	.118331	.058215	.005761	.145365	.130288	.130266
9	.058904	.017966	-.051916	.078204	.072239	.068830
10	.010962	-.009033	-.093728	.021097	.023587	.017660
11	-.037331	-.029020	-.114668	-.030254	-.024799	-.031316
12	-.093806	-.042555	-.128698	-.074795	-.069440	-.076273
13	-.138026	-.058419	-.146655	-.116022	-.112762	-.119522
14	-.172099	-.069912	-.155097	-.146052	-.139474	-.147221
15	-.197005	-.083207	-.162336	-.169113	-.156657	-.166007
16	-.214741	-.095332	-.175953	-.184870	-.168431	-.179150
17	-.224078	-.103552	-.183610	-.198795	-.182215	-.193156
18	-.232309	-.108877	-.175126	-.211690	-.198467	-.208180
19	-.233334	-.114830	-.163927	-.221197	-.212241	-.220090
20	-.227336	-.127322	-.153729	-.229159	-.227221	-.232384
21	-.219522	-.144747	-.150400	-.240871	-.243101	-.246864
22	-.215721	-.164705	-.154498	-.253885	-.257155	-.260608
23	-.209478	-.178077	-.148486	-.253135	-.251201	-.255341
24	-.203484	-.185822	-.146538	-.245537	-.237288	-.242135
25	-.193437	-.193178	-.145112	-.244640	-.228931	-.235424
26	-.182685	-.188012	-.150418	-.247366	-.226261	-.233673
27	-.172319	-.181391	-.154589	-.244559	-.223027	-.229421
28	-.160717	-.171749	-.155387	-.238949	-.217686	-.223121
29	-.139674	-.155698	-.141446	-.222447	-.206383	-.209953
30	-.108254	-.132990	-.114032	-.199855	-.186848	-.189138
31	-.072618	-.105734	-.066889	-.171930	-.155274	-.158462
32	-.046430	-.087205	-.034607	-.150030	-.128666	-.132987
33	-.036895	-.076158	-.019850	-.134523	-.112759	-.116965
34	-.035618	-.068347	-.007104	-.116856	-.096250	-.099926
35	-.027087	-.058965	.008352	-.102962	-.078547	-.082933
36	-.016305	-.053290	.016767	-.092882	-.066925	-.071704
37	-.014323	-.052459	.024995	-.081790	-.052940	-.058645
38	-.015553	-.059529	.032473	-.069354	-.035221	-.042480
39	-.015873	-.067085	.030584	-.060982	-.024885	-.032140
40	-.019255	-.070667	.032193	-.056936	-.023722	-.030090
41	-.021759	-.068927	.038825	-.053317	-.026617	-.031377
42	-.025714	-.062662	.033924	-.045982	-.028275	-.030318
43	-.029447	-.058184	.023239	-.038329	-.024447	-.024445
44	-.037127	-.060696	.017650	-.031826	-.020835	-.019070
45	-.038060	-.064615	.006538	-.026194	-.021058	-.017388
46	-.038047	-.068026	.003028	-.019149	-.020006	-.014553
47	-.047478	-.067243	.000939	-.011042	-.011249	-.005945
48	-.060584	-.068987	.009695	-.000958	.000299	.005092
49	-.067396	-.066439	.012285	.010348	.011678	.016816
50	-.064756	-.058177	.007161	.020721	.018592	.025099
51	-.056811	-.046332	-.002785	.030626	.021378	.030525
52	-.045113	-.033651	-.023140	.042380	.028141	.038925
53	-.043035	-.022961	-.041766	.050147	.031483	.044008
54	-.052616	-.016584	-.050594	.060152	.037635	.051735
55	-.060408	-.010489	-.042870	.069434	.048341	.061993
56	-.056801	-.002338	-.018710	.076173	.056509	.069433
57	-.052141	.006000	.001806	.079887	.060819	.073301
58	-.055688	.011100	.007559	.083106	.059770	.072755
59	-.051624	.008140	.020020	.086843	.061499	.074895
60	-.040681	.002470	.020021	.084703	.058873	.072467

RUN NO. 82E 16M 11-02-62 0916-1025 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	-.041248	-.012141	-.098448	-.012036	.006783	.064912
1	-.041455	-.096495	-.735884	-.277363	-.053018	.615124
2	.084268	-.122652	-.839275	-.271139	-.062808	.743955
3	.058412	-.136969	-.836508	-.059556	.053497	.773705
4	.020683	-.082283	-.466569	.035504	.102415	.529269
5	.010966	-.040446	-.202983	-.073778	.057070	.336980
6	-.064482	-.033319	-.141277	-.108070	.079643	.277536
7-8	-.129118	-.011157	-.075063	-.004836	.048724	.157026
9-11	.022030	-.010906	-.047716	.032724	.004155	.093725
12-15	.009413	-.005129	-.046542	-.005760	.017062	.054655
16-20	.009682	-.000705	-.003285	.019777	.009681	.036676
21-27	.008869	.000002	-.011696	.002403	.004256	.024244
28-36	-.004681	.000038	-.004016	-.002045	.002074	.014132
37-47	-.000175	-.000147	-.002762	.000448	.002071	.006913
48-60	.001267	.000138	-.000558	.001618	.001537	.003896

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-02
1	-.202863	-.071115	-.291353	-.026870	-.097152	.155810
2	-.131531	-.064285	-.292018	-.279218	-.158219	.203206
3	-.114288	-.331852	-.379901	-.498445	-.231293	.195389
4	-.023486	-.540803	-.348282	-.323352	-.200727	.129027
5	.014783	-.449555	-.226370	-.124597	-.092963	.093796
6	.071554	-.410783	-.175876	-.039500	-.001387	.068026
7-8	.056392	-.229202	-.098545	-.006869	.004562	.018373
9-11	-.048666	-.081020	-.044227	-.026151	.004417	.004319
12-15	.011195	-.072313	-.011655	-.011189	-.003642	-.002873
16-20	.009940	-.008181	-.002718	-.007652	.001058	.006112
21-27	.007435	-.011345	-.004819	.005129	-.002858	.003164
28-36	-.000194	-.006233	-.002289	-.002777	-.001536	.001082
37-47	-.002172	.000236	.000031	.000298	.000516	.000227
48-60	-.000132	.000956	-.000740	-.001740	.000027	.000169

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	.044960	.051554	.009993	.060427	.041796	.019976
1	.349686	.345288	.105712	.630207	.420324	.214472
2	.392264	.330627	.146670	.734299	.497494	.258389
3	.415046	.298017	.172410	.674987	.471205	.245284
4	.296730	.207112	.128470	.422211	.291651	.152865
5	.170117	.146738	.090912	.266697	.177047	.093684
6	.121409	.141137	.082664	.208824	.145644	.075373
7-8	.085075	.117517	.055811	.141558	.106167	.053978
9-11	.059735	.062726	.036765	.083218	.066628	.033266
12-15	.039131	.037294	.024955	.061792	.054393	.026380
16-20	.021200	.025913	.021789	.038418	.031806	.015719
21-27	.016163	.015066	.012951	.021586	.019633	.009442
28-36	.012519	.006383	.008923	.014063	.012237	.005941
37-47	.006039	.004476	.005473	.007911	.008169	.003764
48-60	.003528	.003041	.003199	.004772	.005079	.002300

RUN NO. 82E 16M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-03	10E-01	10E-02	10E-01	10E-02	10E-01
0	-.026095	-.060341	.006316	.022395	.012576	.032245	.011739	.030076	.008926
1	-.201164	-.460817	-.378482	-.710624	.144628	.346881	.139772	.341842	.093716
2	-.236410	-.537018	-.402108	-.763746	.189087	.442569	.173807	.416056	.112443
3	-.238408	-.539961	-.056555	.009198	.202423	.469617	.166858	.393845	.106892
4	-.126896	-.291221	.096700	.341522	.135878	.316980	.104922	.247148	.066449
5	-.050352	-.118735	.049685	.178995	.083650	.197205	.064573	.153363	.040504
6	-.039907	-.090750	.206229	.473657	.070861	.165669	.050738	.120437	.032898
7-8	-.022403	-.050213	.134023	.302410	.041197	.095598	.035889	.084110	.023787
9-11	-.013047	-.029785	-.026822	-.036137	.024763	.057371	.021827	.050608	.014800
12-15	-.012922	-.029035	.019366	.062771	.014435	.033474	.016971	.038793	.011909
16-20	-.000632	-.001608	.004528	.023995	.010372	.023442	.010272	.023663	.007030
21-27	-.003003	-.007019	-.001274	.006011	.006747	.015379	.005956	.013626	.004277
28-36	-.001281	-.002769	.003413	.009014	.003796	.008746	.003775	.008701	.002676
37-47	-.000896	-.001993	.002494	.007876	.002098	.004649	.002264	.005116	.001740
48-60	-.000251	-.000494	.003454	.008581	.001326	.002863	.001352	.003065	.001069

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W
	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03
1	-.146511	-.077600	-.303532	-.066666	.108717	.463045	-.259703	-.419896	.477605
2	-.240425	-.093019	-.486399	-.107688	.293614	.848577	-.199330	-.322313	.366539
3	-.538546	-.157182	-.727613	-.160501	.300248	.842035	-.149980	-.243018	.275255
4	-.680708	-.174096	-.573260	-.130017	.214133	.581069	-.070229	-.113434	.130710
5	-.497773	-.122029	-.220636	-.053001	.189792	.479449	-.036517	-.058285	.069365
6	-.357631	-.090127	.011014	.001421	.089465	.270380	-.056679	-.091318	.104675
7-8	-.199079	-.050241	.040664	.007285	.007222	.045086	-.014485	-.023276	.027417
9-11	-.080271	-.020943	.053678	.009723	-.004751	-.000457	-.004809	-.008183	.008477
12-15	-.010605	-.003973	-.018413	-.003669	-.006616	-.015636	-.008390	-.013945	.014113
16-20	-.017770	-.003402	.002721	.000594	-.001566	.008179	-.002779	-.005059	.003374
21-27	-.007460	-.002101	.000390	-.000466	.008798	.019785	-.001162	-.001936	.001710
28-36	-.007289	-.001631	-.000882	-.000377	-.000475	.001777	-.001149	-.001720	.002535
37-47	.002025	.000324	.003132	.000610	-.002355	-.003120	-.000305	-.000469	.000493
48-60	-.000998	-.000300	.000158	.000043	.000746	.001236	-.000292	-.000423	.000694

RUN NO. 82E 16M 11-02-62 0916-1025 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
	0.30940 10E 00	0.16693 10E 00	0.12424 10E 00	0.16490 10E 00	0.12273 10E 00	0.66214 10E-01
0	.055630	-.483651	-.508451	-.077938	-.027251	.747143
1	.056532	-.288225	-.340090	-.061753	-.063322	.382237
2	.063834	-.100320	-.147973	-.026488	-.038149	.141156
3	.066736	-.005546	-.027800	.003817	-.015525	.012185
4	.065425	.013950	.039074	.021353	-.006938	-.070236
5	.080071	.118988	.130608	-.019326	-.028493	-.113301
6	.047079	.116921	.146341	-.012880	.001498	-.086760
7	-.041071	.067805	.112560	.044688	.101829	-.072698
8	-.113642	.016332	.097019	.056859	.137518	-.080062
9	-.119868	.076637	.083768	.033132	.086952	-.121702
10	-.140720	.023545	.054618	.068132	.067980	-.039721
11	-.108161	.082754	.078714	.021532	.006448	-.055312
12	-.071319	.081339	.081285	.025260	-.019386	-.064294
13	-.026143	.072796	.090402	-.002197	-.037589	-.061503
14	.026870	.102685	.074907	-.019493	-.075757	-.142513
15	.087250	.032080	.009662	-.045983	-.095292	-.115746
16	.062818	-.042208	-.041218	-.044255	-.093004	.002274
17	.048515	-.068891	-.088846	-.019229	-.040520	.060967
18	.005500	-.040899	-.087875	.005309	.001831	.076235
19	-.030102	.009332	-.041222	.012741	.013736	.012330
20	-.058583	-.023624	-.058800	.043378	.037443	.046170
21	-.045131	-.043666	-.063110	-.001833	-.002631	.007473
22	-.018593	.002967	-.006471	.014374	.032849	-.001124
23	.013903	.070107	.083308	.012963	.024717	-.044734
24	.050653	.064845	.126988	-.030511	-.004932	-.041297
25	.056858	.034725	.108888	-.062474	-.014770	-.026473
26	.039327	-.008652	.034592	-.055658	-.042177	.017752
27	.038846	-.001404	-.002048	-.071574	-.047955	-.017423
28	-.010336	-.036943	-.037320	-.021997	-.032128	-.037447
29	-.029022	-.029284	-.035784	-.007732	-.000479	-.015705
30	-.048069	-.004655	-.039981	.042082	.044121	-.015842

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	.000730	-.004436	-.030353	.005109	.000536	.044157
1	.039976	-.050598	-.350458	-.024302	.056034	.335687
2	.081314	-.075174	-.601192	-.144814	-.023043	.432385
3	.119638	-.104227	-.994590	-.287293	-.286270	.551795
4	.086547	-.088792	-.892122	-.319518	-.446829	.462088
5	-.027765	-.064014	-.589144	-.107803	-.159401	.376683
6	-.102611	-.076949	-.656856	.089538	.182999	.430188
7	-.048345	-.079197	-.586209	-.026566	.179688	.381917
8	.003639	-.049615	-.323636	-.123834	.060965	.230288
9-11	.012867	-.023265	-.169503	-.122589	-.069704	.231673
12-14	.004159	-.020595	-.135641	-.055013	-.032013	.101343
15-21	-.002512	-.017550	-.103908	.022281	.043444	.111273
22-30	-.000236	-.009027	-.042339	-.002318	.038625	.096446

RUN NO. 82E 16M 11-02-62 0916-1025 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.32199 10E 00	0.71302 10E-01	0.31807 10E 00	0.70434 10E-01	0.17161 10E 00	0.38001 10E-01	0.12772 10E 00	0.28282 10E-01	0.73299 10E-01
0	-.485646	-.517051	-.020179	-.023889	.633565	.701942	.778007	.887718	.979845
1	-.310875	-.335786	-.042031	-.051153	.289464	.333901	.373274	.449577	.527836
2	-.114452	-.130924	-.011697	-.021146	.064155	.092146	.101564	.148852	.202659
3	-.007635	-.014354	-.004275	-.008247	-.018298	-.009172	-.024313	-.003725	.033603
4	.029355	.033659	-.004949	-.006068	-.061058	-.066375	-.089833	-.089445	-.062353
5	.106815	.119205	-.054287	-.049131	-.079200	-.093433	-.087184	-.093109	-.092485
6	.110599	.127396	-.055337	-.039775	-.037742	-.055585	-.053899	-.064929	-.067511
7	.052514	.074443	.017829	.045760	-.032434	-.047615	-.091102	-.103457	-.109001
8	.018787	.044917	.049856	.080854	-.049148	-.061971	-.151703	-.168417	-.159208
9	.006505	.032011	.031234	.050998	-.106925	-.117539	-.159069	-.180834	-.156430
10	.000734	.018153	.031004	.044261	-.060149	-.057324	-.103232	-.116243	-.119656
11	.038813	.053484	.015259	.013174	-.083062	-.078526	-.077610	-.090982	-.111384
12	.048956	.061214	.019730	.008001	-.085300	-.083092	-.062694	-.078601	-.112822
13	.078860	.086075	.031194	.010850	-.063472	-.065973	-.063187	-.080466	-.122190
14	.088706	.088805	-.007197	-.029137	-.111855	-.127283	-.109022	-.131640	-.168047
15	.052682	.041984	-.024402	-.047885	-.065055	-.084408	-.026804	-.043408	-.072559
16	.019162	.001555	-.022883	-.046350	.069598	.052140	.081312	.074134	.057173
17	-.014673	-.038891	.034246	.012008	.104172	.095660	.106625	.107961	.092916
18	-.006441	-.032563	.093047	.068459	.077990	.081123	.097020	.106583	.084564
19	.049737	.023370	.118541	.090809	-.002567	.001283	.035430	.041472	.027853
20	.002608	-.016517	.137212	.112195	.013033	.023952	.047942	.053654	.043789
21	-.038000	-.047459	.068604	.049151	-.005875	-.001881	.021150	.015792	.031725
22	-.002506	-.003510	.057224	.052254	.003242	.001904	.032487	.019429	.048260
23	.067379	.075971	.006090	.012796	-.035193	-.040052	-.050251	-.068381	-.051117
24	.102093	.115216	-.055388	-.041978	-.018889	-.027040	-.060047	-.077642	-.078701
25	.087880	.098895	-.094227	-.073504	-.006112	-.012635	-.031303	-.044463	-.054959
26	.019457	.024562	-.115076	-.097627	.033633	.030882	.040578	.034207	.013723
27	-.026108	-.020445	-.112110	-.097678	-.001251	-.005409	.009289	-.001163	-.009339
28	-.066027	-.060707	-.098804	-.082723	-.028799	-.032425	-.016088	-.022880	-.041289
29	-.091719	-.078926	-.075859	-.055853	-.005544	-.008790	-.009688	-.010200	-.035888
30	-.099932	-.086139	-.042696	-.017273	-.019548	-.019456	-.027530	-.021787	-.054773

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-02	10E-01	10E-02	10E-01	10E-02	10E-02
0	-.017712	-.034126	.071074	.011501	.007664	.020459	.005818	.019954	.086262
1	-.144790	-.298923	-.412077	-.057016	.058295	.156096	.043427	.140773	.548493
2	-.154486	-.360577	-.499622	-.085760	.083181	.214376	.072671	.205218	.686595
3	-.169665	-.456678	-.096763	-.068921	.115176	.288174	.116890	.306829	.902593
4	-.154251	-.413134	-.228154	-.119391	.092229	.234571	.103109	.265126	.721938
5	-.149124	-.349394	-.076723	-.041953	.057604	.162355	.065382	.169061	.481069
6	-.176873	-.406058	.498386	.114006	.071940	.194733	.065115	.169832	.508904
7	-.154383	-.356231	.137649	.055597	.090041	.215232	.067697	.170830	.503384
8	-.095944	-.213794	-.162080	-.014280	.067291	.150825	.052265	.126056	.362504
9-11	-.045661	-.105438	-.215449	-.047831	.058169	.136565	.057913	.138879	.347767
12-14	-.041857	-.092706	-.072562	-.017674	.027859	.063938	.024991	.058392	.169276
15-21	-.028859	-.065484	.072377	.019810	.029187	.067586	.023728	.055515	.150455
22-30	-.010837	-.025288	.082384	.020144	.022357	.053881	.019252	.046544	.117978

RUN NO. 82E 16M 11-02-62 0916-1025 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
	0.30940 10E 00	0.16693 10E 00	0.12424 10E 00	0.16490 10E 00	0.12273 10E 00	0.66214 10E-01
1	-.003095	-.076652	-.124466	-.020283	-.014678	.103345
2	-.000108	-.023090	-.108797	.042718	.056931	.033870
3	.018892	-.095358	-.126657	.064837	.066510	.027372
4	.014686	-.105117	-.105970	.048055	.064707	-.018654
5	.028376	-.052960	-.074113	.003394	.068839	-.022246
6	.071543	-.055863	-.042357	.040972	.078867	-.022235
7	.041241	-.034829	-.016789	-.027969	-.002556	.013118
8	.001706	-.050155	-.044814	-.074517	-.073155	-.001683
9	-.056278	-.065864	-.053813	-.083156	-.115677	-.003221
10	-.095188	-.023435	-.045349	-.089113	-.111215	-.007910
11	-.134399	-.069402	-.098002	-.075133	-.084376	.017227
12	-.137715	-.065266	-.057211	-.004642	-.040998	.004613
13	-.119865	-.026965	-.021214	.000775	-.031871	-.004016
14	-.081849	-.029661	-.001820	.012075	-.020674	-.031764
15	-.038492	.036392	.073093	.047516	.013160	-.073490
16	.041681	.052352	.095417	.073061	.054384	-.007332
17	.052135	.053310	.070434	.066849	.060647	.018172
18	.031648	.071296	.064425	-.022817	-.012657	.047097
19	.064904	.055401	.054509	-.002996	-.021772	.053133
20	.085456	.062131	.033338	.013462	-.014749	.030928
21	.081039	.054958	.049381	.038855	.042627	.022200
22	.114842	.018363	.026655	.083226	.095359	-.003218
23	.092804	.055288	.029864	.082255	.099004	.030870
24	.098591	.024547	.021984	.064032	.088921	-.005662
25	.089492	-.018511	-.012339	.003506	.044337	-.008923
26	.062726	.067187	-.019883	.005718	.023318	.001175
27	.046890	.011698	-.032717	.002653	.007757	.024483
28	.054260	.006527	-.008945	.024575	.026810	-.024683
29	.028877	-.013162	-.020865	-.008649	-.012590	-.004645
30	-.016457	-.057850	-.011900	-.068935	-.085130	-.037143

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	-.063139	-.421459	-.301320	-.081407	-.132145	-.000620
2	-.049382	-.591604	-.484454	-.194886	-.096297	-.012491
3	.069240	-.409001	-.422729	.045342	.211947	.026849
4	.106377	-.081736	-.141877	.380239	.425188	.041434
5	.010197	-.147240	-.175653	.439287	.367495	.002514
6	-.057579	-.264618	-.349825	.203638	.115348	.038262
7	-.053875	-.165509	-.331626	-.125344	-.162347	.106577
8	-.009940	-.023931	-.139483	-.109434	-.139365	.079783
9-11	.007282	.002120	-.054256	-.025774	-.043759	.071186
12-14	.003016	.045179	-.040115	-.050898	.013462	.034236
15-21	-.005034	-.096778	-.052650	-.080587	-.065024	.037462
22-30	.002173	-.097254	-.056273	-.039964	-.030013	.038423

RUN NO. 82E 16M 11-02-62 0916-1025 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.32199 10E 00	0.71302 10E-01	0.31807 10E 00	0.70434 10E-01	0.17161 10E 00	0.38001 10E-01	0.12772 10E 00	0.28282 10E-01	0.73299 10E-01
1	-.039267	-.068651	-.030944	-.027389	.023359	.049930	-.091148	-.066492	.029362
2	.013069	-.025385	.036479	.045014	-.076873	-.045155	-.131021	-.095601	.042199
3	-.007246	-.045876	.048719	.056848	-.085944	-.053938	-.135910	-.099241	.043806
4	.009397	-.026904	.037343	.047251	-.130669	-.101321	-.127162	-.092852	.040929
5	.015461	-.012238	.043365	.053103	-.103500	-.083218	-.097431	-.071881	.030781
6	.008547	-.007431	.056967	.066145	-.071181	-.059184	-.063097	-.046612	.020112
7	.023687	.011603	-.012722	-.010453	-.039030	-.024371	-.042005	-.031064	.013631
8	.018446	-.001227	-.080374	-.082055	-.080271	-.059715	-.055776	-.041144	.018157
9	.018765	-.003796	-.126799	-.130102	-.078758	-.058980	-.057775	-.042275	.018873
10	.020858	.000666	-.114504	-.119351	-.077771	-.059002	-.051419	-.037116	.017201
11	-.044225	-.063186	-.076879	-.083370	-.035777	-.020669	-.049441	-.036369	.015683
12	-.021994	-.034059	-.006656	-.018702	-.027422	-.018709	-.028347	-.021023	.008736
13	-.019672	-.020955	.022502	.005866	.003452	.001176	.002559	.001724	-.000999
14	-.035225	-.026664	.036497	.020411	.015183	.001300	.033742	.024846	-.010598
15	.004047	.025899	.050022	.041037	.004433	-.019769	.061005	.045166	-.019077
16	.003802	.032594	.075135	.072916	.085503	.060738	.067693	.050101	-.021020
17	-.014705	.011049	.059379	.063205	.080225	.064763	.041916	.030926	-.013050
18	.018639	.033958	-.028394	-.024415	.050330	.051994	-.001027	-.000725	.000510
19	.047484	.052258	-.042000	-.037433	.009069	.023596	-.042578	-.031322	.013596
20	.055620	.051961	-.041610	-.034966	-.038250	-.018345	-.062855	-.046131	.019885
21	.094117	.085419	.009130	.020323	-.075039	-.048131	-.083386	-.061222	.026212
22	.068549	.059180	.054581	.070612	-.097557	-.072273	-.086180	-.062891	.027318
23	.051069	.046953	.067841	.081359	-.023277	-.007719	-.069696	-.051012	.021856
24	.017095	.019600	.073744	.082434	-.009930	-.008723	-.039886	-.029175	.012338
25	-.029383	-.025409	.036100	.040482	.017626	.010194	-.010975	-.008296	.002999
26	-.060489	-.050703	.029346	.028737	.054775	.040672	.024556	.018274	-.007604
27	-.094465	-.079517	.041895	.032903	.085477	.070688	.045171	.033285	-.014189
28	-.072470	-.055980	.082051	.068973	.029197	.013364	.048208	.035267	-.015280
29	-.063761	-.053158	.060003	.040038	.037022	.024783	.041073	.029844	-.013336
30	-.043015	-.035463	-.015333	-.037919	-.008339	-.017996	.036462	.026703	-.011551

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-02	10E-03	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	.159048	-.301550	-.026803	-.068566	-.604686	-.097931	-.482681	-.782511	.896424
2	-.030326	-.941707	-.033245	-.072884	-.623016	-.103312	-.436598	-.709179	.807839
3	.221692	-.416016	.008871	.052129	-.632281	-.097738	-.543999	-.883750	.998863
4	.219453	.092128	.073003	.196108	-.242855	-.031673	-.346900	-.562018	.638566
5	-.256441	-.740862	.102898	.234038	.009973	.002451	-.128314	-.205629	.237651
6	-.199735	-.956988	.036781	.080401	-.198617	-.025000	-.283138	-.456997	.516969
7	-.098033	-.761278	-.054401	-.117770	-.143522	-.003643	-.306846	-.494971	.566642
8	-.051866	-.347845	-.049653	-.105045	.041148	.021498	-.126868	-.201289	.245122
9-11	-.038972	-.167410	-.007089	-.019029	.123012	.032897	-.038494	-.062249	.072955
12-14	-.077090	-.198270	-.002306	-.001292	.098158	.022214	-.012763	-.020610	.022659
15-21	-.077225	-.221423	-.018683	-.042498	.058734	.016276	-.018285	-.029236	.034087
22-30	-.157721	-.358521	-.006735	-.016321	.105892	.024000	-.001505	-.003345	.001031

RUN NO. 82E 16M 11-02-62 0916-1025 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(M)
	0.31322 10E 00	0.30564 10E 00	0.88967 10E-01	0.49280 10E-01	0.33100 10E 00	0.16231 10E-01
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.580315	.629442	.319639	.552974	.558097	.529950
2	.282494	.368365	.059201	.233070	.232324	.196025
3	.119476	.162472	-.040921	.043034	.056278	.023637
4	-.066506	-.044220	-.099882	-.076418	-.046733	-.073591
5	-.180951	-.158950	-.132916	-.093753	-.088743	-.096997
6	-.188013	-.215277	-.099936	-.078709	-.067756	-.070771
7	-.172512	-.242516	-.083305	-.113538	-.107855	-.113686
8	-.114832	-.230245	-.039574	-.179441	-.150589	-.170730
9	-.158501	-.209248	-.104863	-.200084	-.143471	-.172862
10	-.193407	-.156926	-.019539	-.126249	-.118112	-.124999
11	-.177020	-.138282	-.018662	-.106649	-.118305	-.110632
12	-.179305	-.147571	-.047405	-.102557	-.126747	-.107686
13	-.184358	-.162083	-.022109	-.107755	-.139393	-.115062
14	-.132445	-.120644	-.148390	-.163262	-.182235	-.164826
15	-.080735	-.094360	-.126365	-.075412	-.087505	-.066794
16	.027962	-.062929	.007644	.044864	.042370	.065751
17	.050287	.019677	.028284	.093479	.080143	.102648
18	.107718	.022179	.038608	.112532	.073295	.095763
19	.044642	.023029	-.040914	.051717	.023237	.032974
20	.073852	.101809	.019381	.060590	.039526	.048613
21	.158538	.102540	.017568	.000340	.033392	.028711
22	.084623	.104096	-.010875	-.013679	.051340	.041762
23	-.053789	.089694	-.019659	-.099539	-.048406	-.058925
24	-.053751	.030062	-.000053	-.105172	-.081477	-.082354
25	-.122988	.038088	-.015210	-.068263	-.062001	-.054040
26	-.134252	-.009101	.022633	.012145	-.000120	.021796
27	-.084331	-.041110	.035597	-.026621	-.017691	-.006561
28	-.037193	-.049439	-.021569	-.035654	-.049808	-.037210
29	.056115	-.055092	.031211	-.011213	-.045430	-.029031
30	.104297	-.045738	-.058977	-.006318	-.063228	-.046710

POWER SPECTRUM

K	U	V	W	T	N	RHO(M)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-02
0	.021716	.024971	.042080	.057689	.046835	.017580
1	.219689	.239367	.394800	.384178	.288567	.114246
2	.340633	.378147	.520932	.476725	.341259	.148957
3	.469588	.496617	.641572	.640158	.424115	.202694
4	.360144	.398179	.605867	.533848	.328146	.165816
5	.242999	.310995	.609778	.344650	.222517	.109041
6	.262044	.263641	.673483	.354153	.240732	.113401
7	.238209	.181619	.600394	.336561	.234697	.112621
8	.174030	.114034	.420798	.227306	.165190	.081642
9-11	.084408	.076099	.419349	.246966	.149382	.081699
12-14	.055852	.048899	.268341	.097339	.075977	.038203
15-21	.067415	.048549	.285523	.093913	.066236	.034474
22-30	.047588	.044619	.297595	.084144	.051147	.027610

RUN NO. 82E 40M 11-02-62 0916-1025 EST

GROSS STATISTICS

2 CI		WIND SPEED	5.57 M/SEC	WIND DIRECTION	18 DEG
UNSTABLE		SIGMA A	7.6 DEG	SOLAR RADIATION	0.78
WATER/LAND		SIGMA E	7.4 DEG	NET RADIATION	0.40

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.11529E 01	0.71183E 00	0.40566E-00	0.51924E 00
V	0.50693E 00	0.33901E-00	0.22432E-00	0.21871E-00
W	0.40676E-00	0.36369E-00	0.27879E-00	0.21361E-00
T	0.15326E-00	0.39682E-01	0.23759E-01	0.29985E-01
N	0.42429E-00	0.20137E-00	0.10853E-00	0.15226E-00
RHO(W)	0.22004E-01	0.10214E-01	0.58149E-02	0.77026E-02
E	0.10333E 01	0.70731E 00	0.45439E-00	
GUSTINESS RATIOS				
U	0.19277	0.15147	0.11435	0.12937
V	0.12783	0.10453	0.08503	0.08396
W	0.11450	0.10827	0.09479	0.08298
COVARIANCES				
U,V	-0.39471E-01	-0.44702E-02	-0.12485E-01	0.28566E-02
U,W	-0.24753E-00	-0.20454E-00	-0.11590E-00	-0.17031E-00
U,T	-0.30739E-00	-0.95264E-01	-0.49753E-01	-0.80364E-01
V,W	-0.48209E-01	-0.39745E-01	-0.17857E-01	-0.30525E-01
V,T	0.26229E-01	0.17967E-02	0.60047E-02	-0.25794E-02
W,T	0.88095E-01	0.72439E-01	0.45170E-01	0.53202E-01
U,N	-0.21972E-00	-0.11156E-00	-0.50684E-01	-0.97170E-01
U,RHO(W)	-0.91315E-01	-0.35341E-01	-0.17230E-01	-0.30308E-01
V,N	0.78184E-02	-0.31540E-01	-0.21360E-01	-0.24671E-01
V,RHO(W)	0.60102E-02	-0.48013E-02	-0.23703E-02	-0.44946E-02
W,N	0.19525E-00	0.13680E-00	0.87226E-01	0.97043E-01
W,RHO(W)	0.47636E-01	0.35329E-01	0.22339E-01	0.25393E-01
T,N	0.98946E-01	0.61404E-01	0.37019E-01	0.46082E-01
T,RHO(W)	0.43814E-01	0.17152E-01	0.10311E-01	0.12909E-01
N,RHO(W)	0.86734E-01	0.43796E-01	0.24318E-01	0.33063E-01
WE	0.16442E-00	0.16190E-00	0.60137E-01	
NORMALIZED COVARIANCES				
U,V	-0.05163	-0.00910	-0.04139	0.00848
U,W	-0.36146	-0.40201	-0.34465	-0.51138
U,T	-0.73128	-0.56682	-0.50679	-0.64406
V,W	-0.10616	-0.11319	-0.07140	-0.14123
V,T	0.09410	0.01549	0.08225	-0.03185
W,T	0.35283	0.60299	0.55501	0.66477
U,N	-0.31415	-0.29466	-0.24156	-0.34559
U,RHO(W)	-0.57331	-0.41447	-0.35476	-0.47924
V,N	0.01686	-0.12071	-0.13690	-0.13520
V,RHO(W)	0.05691	-0.08159	-0.06563	-0.10951
W,N	0.47000	0.50548	0.50146	0.53810
W,RHO(W)	0.50351	0.57966	0.55483	0.62601
T,N	0.38802	0.68691	0.72903	0.68201
T,RHO(W)	0.75447	0.85198	0.87725	0.84942
N,RHO(W)	0.89763	0.96568	0.96802	0.96546

RUN NO. 82E 40M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.30171 10E 00	0.33633 10E 00	0.98203 10E-01	0.25008 10E 00	0.73020 10E-01	0.81400 10E-01
0	-.041511	-.344407	-.506710	-.071548	.082080	.555086
1	-.032353	-.337197	-.475793	-.070237	.063749	.510144
2	-.022483	-.306374	-.427825	-.062543	.034442	.427078
3	-.018115	-.269296	-.380149	-.048463	.016891	.343617
4	-.011945	-.233743	-.332243	-.030521	.006260	.267342
5	-.008934	-.197438	-.283964	-.016309	-.008186	.202289
6	-.011447	-.163388	-.234732	-.005868	-.022713	.150469
7	-.018824	-.133718	-.190076	.006508	-.031678	.107579
8	-.021457	-.109416	-.145293	.019884	-.031684	.073002
9	-.020042	-.079179	-.097474	.031019	-.028321	.045274
10	-.022365	-.045515	-.049631	.045536	-.017992	.021172
11	-.031535	-.011307	-.006758	.055159	-.000639	-.009736
12	-.038271	.024876	.031648	.058168	.016732	-.046982
13	-.037559	.055784	.068691	.056686	.025216	-.083738
14	-.038712	.086622	.105740	.048762	.026132	-.114594
15	-.038150	.107693	.135173	.041546	.025113	-.142260
16	-.039389	.123128	.157328	.035929	.027665	-.162880
17	-.038655	.135932	.174932	.029461	.029242	-.177724
18	-.036609	.142025	.189813	.020849	.030702	-.184378
19	-.038650	.145804	.197855	.016561	.032124	-.182993
20	-.031911	.150893	.201823	.015498	.034268	-.173833
21	-.016650	.151054	.210156	.014079	.036527	-.159227
22	-.003611	.148897	.215899	.011936	.034241	-.148089
23	.005040	.146713	.216273	.010745	.033053	-.144420
24	.012884	.138219	.208375	.009521	.028848	-.143006
25	.016506	.125905	.193173	.006294	.022334	-.146605
26	.020510	.107132	.176276	-.003963	.015424	-.148153
27	.021257	.089262	.157013	-.007881	.011222	-.142551
28	.026046	.076428	.136239	-.005709	.011479	-.127861
29	.036031	.064155	.119936	-.006138	.012505	-.108764
30	.046552	.054967	.104933	-.010003	.010921	-.089342
31	.051784	.045958	.088568	-.014861	.007220	-.072891
32	.052647	.032862	.069411	-.019090	-.004268	-.052363
33	.052617	.016972	.046349	-.021635	-.016971	-.031326
34	.051034	.003180	.030202	-.023294	-.027778	-.018218
35	.052100	-.001889	.019875	-.024746	-.042397	-.008238
36	.045623	-.003951	.006948	-.025340	-.057956	-.003796
37	.045821	-.003589	-.001011	-.025741	-.070536	-.003162
38	.047077	-.007090	-.005089	-.025054	-.082252	-.000672
39	.044421	-.009444	-.007506	-.026227	-.086976	.000354
40	.043682	-.008809	-.009642	-.028317	-.088571	-.002506
41	.040011	-.004848	-.013094	-.028580	-.083643	-.007906
42	.035037	.004133	-.011084	-.028649	-.074742	-.009169
43	.031035	.007234	-.006303	-.021513	-.060165	-.004010
44	.026578	.007452	-.004941	-.016610	-.046100	.001985
45	.018680	.008274	-.006073	-.017691	-.039611	.005285
46	.010492	.001183	-.007577	-.018639	-.035350	.007486
47	.009004	-.004177	-.005998	-.021670	-.029507	.008124
48	.011775	-.006588	-.003541	-.025210	-.022559	.011273
49	.012183	-.014454	.000804	-.022248	-.018639	.017290
50	.009698	-.020971	.004248	-.019432	-.020382	.025373
51	.001115	-.021189	.005199	-.016205	-.019861	.027937
52	-.005241	-.011684	.010035	-.013782	-.018892	.028810
53	-.007394	-.000840	.015513	-.013557	-.018666	.029907
54	-.009277	.008503	.016558	-.017124	-.015226	.028619
55	-.011706	.012266	.012556	-.019647	-.011090	.027608
56	-.014645	.015113	.013944	-.019357	-.009463	.026466
57	-.010466	.017904	.016591	-.012496	-.009021	.026379
58	.000240	.024235	.020157	-.005159	-.008583	.024827
59	.011766	.028992	.016728	-.009425	-.009141	.023003
60	.017615	.032242	.019728	-.014740	-.011230	.023342

RUN NO. 82E 40M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

N	U,N	-U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.20983 10E 00	0.48579 10E-01	0.15602 10E 00	0.36121 10E-01	0.17393 10E 00	0.40267 10E-01	0.50784 10E-01	0.11757 10E-01	0.25122 10E-01
0	-.241355	-.354621	-.136994	-.065637	.501514	.554905	.729046	.877279	.967938
1	-.230169	-.335370	-.134119	-.070356	.458656	.508389	.664620	.792367	.860252
2	-.209522	-.303293	-.127040	-.076349	.375094	.419440	.551723	.658130	.684517
3	-.185232	-.268716	-.111250	-.071773	.288611	.328068	.438078	.528817	.526907
4	-.159960	-.233515	-.091536	-.061970	.206783	.242781	.332474	.410542	.400245
5	-.133445	-.197259	-.076614	-.056914	.138691	.171326	.239908	.306248	.298988
6	-.109898	-.162665	-.067718	-.055977	.090501	.118526	.166004	.220807	.216812
7	-.092324	-.134141	-.058088	-.052487	.056403	.078841	.112359	.156296	.145530
8	-.072121	-.103659	-.042987	-.041846	.027088	.045502	.069983	.102700	.083471
9	-.042095	-.065155	-.022323	-.026090	-.000745	.015990	.028604	.051827	.028520
10	-.008382	-.024095	-.001611	-.007707	-.030506	-.013558	-.014302	.002239	-.019658
11	.020451	.011745	.017514	.012141	-.059764	-.045470	-.054867	-.044380	-.065098
12	.045359	.043278	.032204	.028810	-.091682	-.081534	-.094047	-.089628	-.112147
13	.068084	.072547	.042222	.038922	-.117900	-.113425	-.127697	-.130509	-.155953
14	.088200	.100255	.047352	.042858	-.133656	-.135730	-.150514	-.161542	-.186448
15	.100352	.119623	.049702	.044233	-.146163	-.154505	-.166259	-.185990	-.202298
16	.106955	.132417	.051020	.046178	-.154400	-.167761	-.180311	-.206556	-.216028
17	.115398	.144611	.049814	.045998	-.159464	-.176702	-.201773	-.232053	-.240093
18	.128526	.159278	.050637	.047225	-.161759	-.180940	-.223067	-.256922	-.266528
19	.134593	.166507	.056557	.051778	-.159373	-.178845	-.231928	-.270075	-.278273
20	.130688	.165295	.067011	.059686	-.149531	-.168634	-.229082	-.270260	-.280326
21	.123270	.163091	.073897	.065141	-.133760	-.152290	-.224239	-.267787	-.278380
22	.114621	.159282	.076603	.066042	-.117988	-.137012	-.216007	-.260950	-.268611
23	.104928	.152627	.074479	.064114	-.109209	-.129363	-.211178	-.256678	-.260088
24	.094602	.142552	.068686	.058515	-.106664	-.126922	-.205184	-.251683	-.251246
25	.081825	.128091	.062624	.051726	-.108259	-.129435	-.198293	-.245519	-.241503
26	.067430	.111733	.054499	.043633	-.108378	-.130235	-.191747	-.239144	-.233855
27	.047732	.090889	.049542	.038780	-.103731	-.124800	-.181924	-.228335	-.225104
28	.028649	.069903	.049984	.039256	-.089744	-.109695	-.161960	-.205358	-.206732
29	.011190	.051802	.048404	.038598	-.069038	-.088266	-.133816	-.174176	-.176351
30	.001031	.039389	.044512	.035232	-.047344	-.065806	-.102523	-.139334	-.137411
31	-.002964	.030743	.038085	.029385	-.029056	-.047024	-.071931	-.105906	-.093498
32	-.007742	.020394	.026394	.016897	-.008698	-.025324	-.042141	-.072823	-.052268
33	-.017403	.005052	.014909	.004119	.009892	-.004670	-.020861	-.048491	-.023019
34	-.023927	-.005605	.003229	-.007877	.021535	.008258	-.008728	-.034540	-.006175
35	-.027097	-.011572	-.013018	-.024585	.028034	.016613	-.004823	-.029443	.000253
36	-.027586	-.016475	-.030730	-.042901	.032715	.021455	-.005444	-.029761	.002291
37	-.025179	-.017646	-.043255	-.056140	.033613	.022466	-.009583	-.034113	.003197
38	-.018785	-.014635	-.051950	-.066411	.031917	.022153	-.013733	-.036760	.002995
39	-.017215	-.014325	-.054622	-.070253	.027830	.019715	-.019146	-.039915	-.001150
40	-.018017	-.015630	-.057527	-.072940	.024374	.016302	-.019853	-.038849	-.000375
41	-.019628	-.018156	-.057560	-.071196	.023342	.013560	-.013705	-.031196	.007470
42	-.012894	-.012827	-.054934	-.066069	.024418	.013850	-.006567	-.021316	.015736
43	-.000524	-.002749	-.045859	-.054510	.023784	.015291	-.003106	-.013392	.017616
44	.005933	.002344	-.036479	-.042796	.019765	.014698	-.001301	-.007445	.015639
45	.008479	.003632	-.031418	-.036795	.015791	.013039	.000729	-.003160	.013022
46	.008645	.003381	-.026265	-.031480	.012866	.011798	.006853	.004317	.015781
47	.011646	.005916	-.022141	-.026576	.014761	.013357	.015350	.014743	.025273
48	.017361	.010791	-.019837	-.022608	.021769	.019532	.027457	.029083	.037204
49	.021036	.014950	-.016284	-.018576	.026796	.025187	.037263	.040723	.044126
50	.025272	.019070	-.014014	-.017597	.025696	.027492	.043151	.046730	.049814
51	.026265	.020084	-.010328	-.014712	.020072	.024557	.047333	.051228	.055285
52	.026324	.021884	-.009580	-.013854	.016385	.022290	.050937	.054784	.057887
53	.027391	.024651	-.007767	-.012403	.018011	.023676	.049156	.052409	.052027
54	.030857	.027456	-.003956	-.008254	.017612	.022833	.043382	.047879	.040870
55	.034158	.028364	-.000354	-.004343	.012807	.019220	.036422	.044449	.027784
56	.035954	.030179	.001663	-.002280	.008007	.015426	.030899	.040628	.018240
57	.031442	.027917	.004858	.000240	.010129	.016741	.034988	.044647	.022417
58	.025022	.024768	.003793	-.000273	.013825	.018721	.046976	.055642	.039863
59	.014189	.015865	.000455	-.002769	.017156	.020360	.065078	.073423	.062470
60	.006633	.011605	-.002249	-.005349	.020062	.022579	.079892	.087917	.082255

RUN NO. 82E 40M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.30171 10E 00	0.33633 10E 00	0.98203 10E-01	0.25008 10E 00	0.73020 10E-01	0.81400 10E-01
1	.001604	-.018069	-.023344	-.015885	-.014614	-.003301
2	.006246	-.028529	-.043336	-.023038	-.019629	.006784
3	.010317	-.036279	-.063710	-.021576	-.015590	.011593
4	.011373	-.042336	-.075434	-.017940	-.010274	.008659
5	.009345	-.047702	-.082431	-.012912	-.003789	.008983
6	.009094	-.049907	-.085766	-.013516	.000765	.015124
7	.009480	-.045244	-.083502	-.011285	.008181	.020479
8	.007590	-.040591	-.081068	-.010020	.017753	.022400
9	.011949	-.032328	-.078340	-.009864	.025472	.025232
10	.014293	-.027893	-.074806	-.004969	.030013	.025277
11	.014712	-.024359	-.073836	-.002026	.033117	.021943
12	.013715	-.020040	-.068775	-.003577	.037619	.016636
13	.014071	-.026218	-.061401	-.003906	.040137	.010176
14	.016343	-.030205	-.052919	-.001247	.042644	.004374
15	.013199	-.029519	-.046269	.002769	.045061	.001679
16	.000372	-.023147	-.039347	.010529	.043667	-.000243
17	-.007743	-.014407	-.030297	.019596	.041007	-.001526
18	-.013337	-.007894	-.022632	.022803	.035103	-.003399
19	-.024032	.000069	-.012876	.020723	.027684	-.005348
20	-.029047	.003165	-.002601	.018106	.021269	-.004648
21	-.029658	.006071	.008176	.018431	.010938	.001305
22	-.024813	.009967	.018250	.020561	-.001109	.006448
23	-.019212	.012781	.022458	.022287	-.011383	.009361
24	-.013436	.011077	.022075	.025175	-.020092	.013717
25	-.006935	.010654	.020734	.016617	-.029534	.017696
26	-.009708	.017118	.025093	.001702	-.038872	.020230
27	-.017082	.023951	.030575	-.003378	-.041530	.023039
28	-.024078	.026235	.034535	-.006436	-.040861	.025393
29	-.035257	.026496	.031281	-.010974	-.041887	.027607
30	-.043679	.025347	.025652	-.017620	-.044396	.028260
31	-.046976	.024320	.018896	-.023114	-.047894	.027751
32	-.048630	.021036	.017138	-.024018	-.049968	.028304
33	-.054567	.014706	.014359	-.016765	-.049151	.027652
34	-.056165	.002616	.007740	-.012107	-.043996	.023651
35	-.051335	-.008056	.002503	-.015215	-.039712	.020068
36	-.042709	-.013047	-.003805	-.021117	-.033417	.018924
37	-.026290	-.013073	-.010028	-.023901	-.025125	.019606
38	-.005811	-.008940	-.013689	-.023365	-.014092	.018380
39	.011391	-.012507	-.014548	-.023352	-.006018	.017523
40	.027108	-.020542	-.011886	-.025272	.000415	.016097
41	.042352	-.026514	-.013207	-.024525	.006931	.015418
42	.055892	-.026434	-.015921	-.026130	.010166	.013453
43	.064611	-.028173	-.016806	-.029807	.011835	.011232
44	.073200	-.031768	-.012531	-.027740	.015626	.009085
45	.074051	-.029294	-.006961	-.016470	.020594	.004810
46	.068209	-.021880	-.003913	-.006058	.024764	-.001497
47	.062498	-.007956	-.001566	-.000634	.024252	-.007473
48	.053341	.007867	-.000674	.003213	.019836	-.017844
49	.045910	.024426	.000665	.006274	.017537	-.027916
50	.038056	.037630	.004240	.003220	.013852	-.035305
51	.034239	.037788	.016870	.004081	.012933	-.040750
52	.027848	.033442	.033577	.008229	.012418	-.043510
53	.016619	.030631	.048394	.012711	.010212	-.043095
54	.006668	.029654	.060947	.011793	.009486	-.039549
55	-.004033	.026035	.065020	.018015	.012494	-.035230
56	-.003919	.017421	.063751	.024673	.018592	-.032556
57	.003481	.011932	.062170	.027505	.023124	-.033221
58	.009415	.008798	.055693	.033478	.026941	-.033686
59	.006392	-.003644	.042210	.039575	.028915	-.034285
60	.001502	-.017988	.032219	.039053	.027289	-.035960

RUN NO. 82E 40M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(M)	V,N	V,RHO(M)	W,N	W,RHO(M)	T,N	T,RHO(M)	N,RHO(M)
	0.20983 10E 00	0.48579 10E-01	0.15602 10E 00	0.36121 10E-01	0.17393 10E 00	0.40267 10E-01	0.50784 10E-01	0.11757 10E-01	0.25122 10E-01
1	-.015422	-.019529	-.018472	-.018357	.018534	.011829	.030587	.021429	-.011019
2	-.029323	-.036622	-.026905	-.026089	.028170	.022544	.032098	.022656	-.011511
3	-.041263	-.052382	-.023933	-.022565	.029281	.025155	.027381	.019456	-.009844
4	-.055682	-.066927	-.015522	-.014763	.024930	.021038	.025015	.017687	-.009104
5	-.071658	-.080836	-.007442	-.006866	.024583	.020958	.022540	.016061	-.008115
6	-.083274	-.090149	.000111	.000102	.030088	.027063	.020666	.014828	-.007205
7	-.090870	-.094543	.010471	.010168	.034355	.031988	.021540	.015448	-.007462
8	-.098255	-.098689	.023777	.023058	.032851	.031637	.022773	.016264	-.007918
9	-.104693	-.102166	.032632	.032194	.028719	.029587	.023064	.016446	-.008013
10	-.100924	-.098124	.036504	.036614	.025182	.026931	.024612	.017525	-.008606
11	-.095325	-.093857	.040038	.040031	.023790	.024876	.027501	.019557	-.009601
12	-.092034	-.089859	.048525	.047674	.020362	.020722	.030844	.022030	-.010818
13	-.088606	-.084732	.060727	.057037	.012702	.012896	.030401	.021685	-.010586
14	-.084213	-.078481	.073224	.066679	.004678	.004919	.027197	.019368	-.009487
15	-.076012	-.070302	.079587	.072013	-.001318	-.000276	.026417	.018760	-.009379
16	-.060824	-.057228	.083224	.074123	-.004640	-.003337	.025890	.018286	-.009361
17	-.044022	-.042025	.084003	.073809	-.004552	-.003678	.024869	.017500	-.009070
18	-.030643	-.029852	.079300	.068365	-.005672	-.005104	.023443	.016556	-.008438
19	-.019225	-.018095	.071714	.060246	-.004081	-.004495	.020240	.014444	-.007183
20	-.011971	-.009301	.060494	.049983	.002446	.000254	.016451	.011696	-.005846
21	-.004346	.000136	.046235	.036232	.014264	.010593	.011120	.007814	-.004084
22	.004810	.010186	.027518	.018802	.025860	.020512	.007598	.005216	-.002971
23	.013349	.017742	.013929	.005556	.037584	.029742	.007221	.004974	-.002912
24	.015828	.019209	.008311	-.001461	.045783	.037186	.006264	.004361	-.002686
25	.013877	.017435	.002702	-.008849	.044790	.037936	.002942	.002039	-.001443
26	.018513	.022210	-.006251	-.018557	.037990	.034044	-.004001	-.002906	.001127
27	.028487	.031195	-.014142	-.025064	.030905	.030118	-.015836	-.011284	.005354
28	.039408	.040282	-.018504	-.027788	.025413	.026956	-.026894	-.019089	.009394
29	.044671	.042746	-.022972	-.031137	.019805	.023865	-.034113	-.024017	.012058
30	.046655	.041999	-.031083	-.037825	.010552	.017638	-.038074	-.026762	.013513
31	.045926	.039092	-.035166	-.042173	.002576	.011821	-.040041	-.028211	.014239
32	.040981	.034870	-.032901	-.041307	-.001428	.009258	-.038331	-.026946	.013720
33	.034178	.029041	-.029860	-.038777	-.003972	.007331	-.033878	-.023725	.012183
34	.025351	.020526	-.027560	-.035239	-.007286	.003591	-.024440	-.017081	.008768
35	.021510	.015826	-.031170	-.036161	-.009913	.000293	-.017221	-.011964	.006204
36	.013050	.007580	-.033329	-.035537	-.008191	.001029	-.010523	-.007287	.003857
37	-.000872	-.004491	-.030065	-.030174	-.008218	.001354	-.006407	-.004383	.002420
38	-.012080	-.013515	-.019873	-.019226	-.012150	-.001818	-.003734	-.002609	.001465
39	-.020937	-.020083	-.006700	-.007176	-.016786	-.005496	-.004386	-.003188	.001606
40	-.026010	-.022702	-.000074	-.000295	-.017215	-.006224	-.007247	-.005189	.002734
41	-.031272	-.026896	-.000539	.001786	-.017399	-.006485	-.008341	-.005806	.003270
42	-.036190	-.031399	-.005044	-.000034	-.020660	-.009484	-.006513	-.004444	.002618
43	-.037460	-.032495	-.004827	.000553	-.023170	-.011935	-.002412	-.001638	.001118
44	-.035582	-.029432	.004372	.008380	-.023938	-.013295	.002893	.002003	-.000736
45	-.032890	-.025497	.014712	.017545	-.022983	-.014250	.008158	.005763	-.002635
46	-.029242	-.021650	.019447	.022367	-.018655	-.013604	.011380	.007893	-.003908
47	-.026262	-.018635	.014062	.018400	-.013729	-.012431	.015249	.010622	-.005418
48	-.025190	-.017755	.005485	.010819	-.013398	-.016069	.019758	.013840	-.006947
49	-.024063	-.016533	.002675	.008182	-.013649	-.019936	.021509	.015116	-.007592
50	-.022199	-.013948	.002444	.006783	-.015057	-.023493	.022938	.016003	-.008149
51	-.016524	-.005390	.001574	.005843	-.013301	-.024130	.023199	.016184	-.008278
52	-.005350	.008644	.000619	.005027	-.009165	-.022191	.022470	.015676	-.008070
53	.010601	.025239	.001419	.005106	-.005592	-.019468	.019091	.013409	-.006862
54	.028813	.042495	.005588	.007975	-.002296	-.015856	.013902	.009766	-.005056
55	.037477	.050057	.017336	.017323	.002657	-.010963	.012327	.008597	-.004552
56	.038357	.050234	.028925	.027601	.006296	-.007539	.010156	.007066	-.003749
57	.038422	.049581	.033471	.032414	.004206	-.009243	.005862	.003989	-.002344
58	.036375	.045801	.035810	.035327	.004153	-.009486	.001048	.000548	-.000670
59	.027355	.034661	.044114	.041651	.004819	-.009379	-.000668	-.000848	-.000115
60	.020947	.026554	.049349	.044558	.002919	-.011522	-.000516	-.000721	-.000133

RUN NO. 82E 40M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.40576 10E 00	0.22434 10E 00	0.27878 10E 00	0.23767 10E-01	0.10851 10E 00	0.58160 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.858830	.836147	.839435	.890693	.879871	.893375
2	.701044	.637150	.618813	.739986	.688095	.721080
3	.565530	.477100	.437730	.605060	.522840	.563052
4	.450105	.343635	.300665	.484812	.397431	.430816
5	.355191	.231747	.197776	.377503	.301382	.321572
6	.272737	.132867	.123899	.285728	.222818	.232649
7	.205398	.053750	.069858	.212304	.149223	.159020
8	.140696	-.000910	.025226	.147161	.082845	.095864
9	.075101	-.046102	-.009541	.087103	.026022	.038780
10	.013092	-.090597	-.037054	.033287	-.020520	-.012960
11	-.045255	-.123354	-.068375	-.016588	-.064203	-.061840
12	-.095189	-.138263	-.105648	-.065241	-.110842	-.111373
13	-.143127	-.149689	-.143317	-.112537	-.155722	-.157056
14	-.181130	-.160797	-.177058	-.153608	-.187397	-.189754
15	-.213312	-.164323	-.208410	-.190142	-.201885	-.209777
16	-.236669	-.159503	-.233046	-.219274	-.214278	-.226884
17	-.250078	-.154867	-.241697	-.247587	-.237322	-.253159
18	-.263366	-.161039	-.243825	-.274876	-.263982	-.280738
19	-.269967	-.163019	-.238633	-.293912	-.275980	-.293834
20	-.271849	-.160025	-.223194	-.299691	-.280349	-.295396
21	-.283081	-.158812	-.201510	-.302045	-.280115	-.293146
22	-.288472	-.161694	-.189179	-.298866	-.270451	-.283836
23	-.284112	-.164107	-.183984	-.296472	-.260771	-.276320
24	-.270812	-.160796	-.178425	-.294261	-.251172	-.268349
25	-.249381	-.154517	-.173579	-.290436	-.240793	-.259327
26	-.225679	-.149743	-.170328	-.285395	-.233295	-.251658
27	-.197646	-.140300	-.163414	-.274619	-.226056	-.241517
28	-.171441	-.128670	-.149868	-.250146	-.210167	-.220271
29	-.156049	-.114238	-.126855	-.218862	-.181491	-.187578
30	-.135144	-.096904	-.094592	-.183826	-.142258	-.147510
31	-.109047	-.076570	-.057409	-.150878	-.095801	-.104407
32	-.086326	-.067067	-.023699	-.117654	-.052554	-.063371
33	-.054212	-.053818	-.002051	-.092134	-.021963	-.033930
34	-.032076	-.040030	.017226	-.077254	-.004213	-.017046
35	-.014651	-.034737	.028671	-.070885	.002768	-.010584
36	.000027	-.034374	.035959	-.070157	.006230	-.009445
37	.012347	-.038810	.042731	-.074137	.009534	-.010322
38	.022889	-.040235	.046030	-.073839	.011290	-.011324
39	.029506	-.034419	.042523	-.071757	.008274	-.015454
40	.031999	-.022067	.042260	-.067454	.009811	-.014558
41	.038271	-.002498	.040005	-.058459	.017897	-.006301
42	.038929	.005600	.036474	-.045203	.026008	.003105
43	.034234	.009178	.034220	-.030247	.026652	.007449
44	.029757	.011650	.032685	-.017597	.022854	.008271
45	.029165	.011147	.038436	-.010178	.018141	.008016
46	.025068	.009431	.033251	-.001324	.018943	.012639
47	.016614	.012420	.025987	.010759	.027849	.023225
48	.003752	.016787	.017621	.026791	.038453	.036870
49	-.008379	.009367	.008335	.039982	.043166	.045987
50	-.020745	.006333	.004682	.044947	.048120	.052235
51	-.028123	.003585	-.001652	.048776	.053813	.057739
52	-.029297	.007050	-.008952	.051689	.055694	.060830
53	-.029341	.008025	-.010708	.048768	.048375	.055776
54	-.027538	.010994	-.016040	.047094	.035324	.046421
55	-.026619	.016909	-.030307	.051061	.020461	.035914
56	-.027343	.025095	-.041489	.051449	.009924	.027686
57	-.032106	.030940	-.040701	.054673	.013932	.031988
58	-.035974	.034518	-.040961	.061842	.032658	.048186
59	-.030150	.039715	-.042557	.075307	.055370	.070632
60	-.026372	.044598	-.039313	.086050	.075535	.090030

RUN NO. 82E 40M 11-02-62 0916-1025 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-01	10E-02	10E-02	10E-02
0	-.108038	-.028005	-.010043	.023444	.018266	.058420
1	-.766869	-.232486	-.097523	.160516	.126129	.649984
2	-.405548	-.285979	-.122011	-.096590	.011186	.860885
3	.194596	-.303448	-.124063	-.434090	-.081658	.916663
4	.314040	-.184358	-.070207	-.466794	.018221	.599657
5	.030834	-.065775	-.026376	-.359871	.084048	.317016
6	-.106133	-.023190	-.014611	-.274151	.054999	.211920
7-8	-.105231	-.017922	-.010276	-.121708	.078461	.142677
9-11	-.037648	-.014283	-.005043	.011669	.041724	.137641
12-15	-.038527	-.011874	-.003709	-.030728	.002357	.058923
16-20	-.028684	-.001233	-.001973	-.006829	.011307	.024264
21-27	.004245	-.001162	-.000916	.005857	.007807	.015973
28-36	-.016352	-.000161	-.000859	.006693	.005979	.007024
37-47	-.005937	.000480	-.000395	-.001314	.001285	.003537
48-60	-.002501	.000704	-.000259	.000754	.000259	.001562

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-02
1	-.278663	-.215894	-.160470	-.026652	-.001654	.109703
2	-.038961	-.307125	-.215214	.085541	.079495	.034238
3	.365386	-.531581	-.296257	-.034897	.120776	.002899
4	.152079	-.457108	-.243267	-.226605	.008458	.047164
5	-.058074	-.123451	-.098022	-.161427	-.079988	.049423
6	.118335	-.113715	-.042777	-.046323	-.056177	.020422
7-8	-.103858	-.137275	-.038706	-.003792	-.022643	-.015586
9-11	.069916	-.096574	-.023305	-.053446	-.013656	-.008332
12-15	-.005935	.026962	-.004730	-.032407	-.008577	.002143
16-20	.004194	-.015928	.002914	-.029616	-.004282	.001853
21-27	-.007512	-.010450	.000183	-.002854	-.004042	-.002081
28-36	-.004691	-.004874	.000398	-.001759	-.000503	-.005296
37-47	-.000756	-.001374	-.001132	-.003302	-.000674	-.001714
48-60	.000001	-.000830	-.000715	.002595	.000529	-.000301

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	.065834	.027309	.025732	.030528	.011227	.005667
1	.566041	.240103	.254426	.375638	.128940	.073719
2	.711869	.294168	.364635	.470181	.179463	.102041
3	.770531	.319834	.442304	.453743	.198125	.110085
4	.495802	.250038	.320052	.279121	.130351	.072359
5	.260201	.190465	.195048	.149518	.072124	.039531
6	.189913	.158562	.157437	.105474	.057052	.029782
7-8	.138496	.117032	.119342	.091569	.046429	.024909
9-11	.086751	.062898	.103750	.057230	.029529	.015601
12-15	.063410	.038708	.057163	.030145	.018812	.009205
16-20	.035120	.022499	.033387	.016043	.010478	.004429
21-27	.020425	.015218	.019591	.009947	.006410	.002681
28-36	.015024	.009818	.011456	.006955	.002971	.001452
37-47	.010294	.006688	.006425	.003852	.001608	.000751
48-60	.008294	.004332	.004436	.002691	.000886	.000439

RUN NO. 82E 40M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.006532	-.028728	-.031156	-.001723	.005806	.019994	.029131	.010251	.023488
1	-.075436	-.299067	-.300630	-.025725	.083145	.252584	.466485	.143814	.293696
2	-.112143	-.402828	-.542014	-.085899	.135871	.376424	.668985	.193805	.412392
3	-.145124	-.459553	-.661154	-.122215	.172763	.446437	.732044	.200979	.454070
4	-.101349	-.291117	-.319849	-.048731	.127414	.315432	.491647	.130304	.300532
5	-.032926	-.101157	-.118086	-.004033	.073671	.177062	.265641	.070196	.165192
6	-.006167	-.036488	-.135251	-.011836	.053422	.125124	.191121	.050170	.127327
7-8	-.006222	-.028816	-.033046	.009171	.034780	.082333	.163372	.043180	.105062
9-11	-.003712	-.015256	.008806	.009015	.027416	.069469	.100555	.026741	.066170
12-15	-.005421	-.015548	-.036107	-.005312	.015188	.035358	.055374	.014446	.040571
16-20	-.001332	-.005763	-.005416	.001176	.005175	.012763	.019607	.006076	.020531
21-27	.000066	-.001569	.008913	.002870	.002301	.006675	.011387	.003634	.012466
28-36	-.001037	-.003265	.001980	.001422	.001553	.003746	.007712	.002491	.006194
37-47	-.000073	-.000813	-.000781	.000109	.000647	.001668	.003493	.001254	.003230
48-60	-.000194	-.000804	-.000796	-.000104	.000233	.000693	.001965	.000802	.001792

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03	10E-03	10E-03
1	-.483688	-.107796	.314265	.504582	.218736	.557061	.284558	.047193	-.050868
2	-.596311	-.135924	.351034	.711745	.183316	.363475	.590440	.097025	-.104370
3	-.792330	-.182500	.255245	.629982	.063814	.113185	.719759	.118235	-.125121
4	-.504260	-.126312	-.075908	-.108974	.046395	.163578	.206602	.034550	-.034217
5	-.099295	-.034128	-.245778	-.542467	.161374	.353430	-.077634	-.012337	.013717
6	-.035241	-.013531	-.171726	-.380831	.171325	.317597	.086262	.013930	-.016376
7-8	.023886	-.003288	-.050173	-.123175	.014039	-.003283	.155037	.025293	-.028144
9-11	.001447	-.004142	-.027256	-.069543	.006447	-.004139	.123018	.019993	-.022551
12-15	.016867	.001936	-.035969	-.073513	.017093	.031996	.093722	.015255	-.016598
16-20	-.010410	-.001121	-.006054	-.017407	.018664	.033296	.053492	.010250	-.011149
21-27	.002743	.000416	-.012541	-.027846	.012883	.017126	.051981	.008469	-.009056
28-36	-.004148	-.000649	.000929	.000477	-.002186	-.013321	.037255	.005898	-.006879
37-47	.001605	.000065	-.000249	-.001580	.001053	-.001773	.016742	.002661	-.002998
48-60	.000106	-.000100	-.000327	.000292	.000509	.000222	.004229	.000731	-.000742

RUN NO. 82E 40M 11-02-62 0916-1025 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
	0.33693 10E-00	0.33284 10E 00	0.12470 10E 00	0.21612 10E 00	0.80971 10E-01	0.79989 10E-01
0	.008478	-.511683	-.644438	-.141245	-.031856	.665119
1	.029284	-.301764	-.388408	-.087361	-.091372	.347599
2	.044978	-.088292	-.155672	-.082000	-.058144	.101456
3	.086824	-.037352	-.072820	-.117440	-.088646	.066433
4	.101927	.032085	-.011251	-.061726	-.107805	.002731
5	.044988	.085845	.029369	-.036487	-.036216	.003602
6	.002572	.132356	.064633	.022518	.019983	-.007591
7	-.061549	.113028	.056159	.103012	.101640	-.046694
8	-.123582	.069105	.064619	.131749	.134829	-.087265
9	-.145873	.056552	.103888	.125194	.107580	-.090097
10	-.143094	.037016	.110858	.125643	.101821	-.029022
11	-.131397	.067547	.150260	.125194	.092301	-.070471
12	-.100571	.041871	.120125	.063062	.062412	-.100112
13	-.064880	-.001768	.078100	.002593	.034297	-.062577
14	-.035385	.008711	.085614	.017841	.046169	-.101255
15	.042934	.005294	.086472	.013524	.000479	-.108558
16	.064978	-.002547	.054236	-.030536	.004146	-.071167
17	.053615	.008544	.028309	-.014326	.022020	.002051
18	.093077	-.023285	-.007426	.009586	-.011408	-.003395
19	.099121	-.050445	-.039511	.002466	-.030468	.004105
20	.048259	-.041167	-.009795	-.037394	-.036589	-.004844
21	.040216	-.012388	.016273	-.035942	-.046158	-.037601
22	.047355	-.025490	.001313	-.048905	-.072280	-.006385
23	.033213	-.014055	.022445	-.015573	-.053943	-.028896
24	-.004881	.038249	.046931	-.001648	.019327	-.031846
25	.015389	.075319	.040891	-.029438	-.040157	.004232
26	.098428	.056780	.034368	-.069281	-.088784	-.025637
27	.089007	.067987	.018106	-.080650	-.082231	-.044208
28	.024483	.121261	.044290	-.055432	-.071811	-.093150
29	.024715	.072433	-.000947	-.021241	-.054383	-.069425
30	-.024656	-.003304	-.078185	.025483	-.014027	.007677

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	-.013397	-.018326	-.009733	.004669	.026352	.086035
1	-.025612	-.107223	-.085959	-.021843	-.039865	.584129
2	.084202	-.136892	-.102108	-.078552	-.266608	.593421
3	.170394	-.211344	-.110417	-.114710	-.374697	.580060
4	.078957	-.209234	-.077820	-.077910	-.206540	.412195
5	-.061283	-.173429	-.051096	-.015590	-.018650	.319152
6	-.091018	-.151392	-.051683	.027652	.103466	.333829
7	-.059189	-.110603	-.049377	.034104	.161809	.292628
8	-.040661	-.084189	-.042320	.015235	.124156	.207515
9-11	-.010622	-.048581	-.030400	.000457	.026312	.253479
12-14	.030993	-.064012	-.023978	-.008860	-.039974	.185035
15-21	.005430	-.038866	-.015680	-.008060	.001313	.132312
22-30	-.006794	-.015648	-.009248	-.005249	.055160	.077638

RUN NO. 82E 40M 11-02-62 0916-1025 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.28108 10E 00	0.63234 10E-01	0.18251 10E 00	0.41058 10E-01	0.18029 10E 00	0.40560 10E-01	0.67549 10E-01	0.15196 10E-01	0.34252 10E-01
0	-.345703	-.479297	-.135177	-.109469	.538252	.626050	.682190	.849462	.965269
1	-.219928	-.297286	-.091492	-.099136	.257532	.310265	.349265	.442633	.559166
2	-.121316	-.143213	-.003370	-.023823	.107321	.114006	.168296	.197933	.324465
3	-.130377	-.120047	-.003493	-.034566	.135975	.121872	.153606	.145602	.279502
4	-.090627	-.069567	.013929	-.028038	.086557	.063542	.099240	.070714	.191155
5	-.064246	-.035906	.038203	.014718	.085477	.063245	.121621	.101334	.168671
6	-.039643	-.005653	.076378	.062124	.050449	.034013	.102975	.089130	.104444
7	-.045882	-.012797	.103346	.110971	-.000982	-.017767	.036196	.024836	.008492
8	.010648	.030989	.088747	.112245	-.074153	-.084670	-.068804	-.079091	-.119469
9	.082937	.096823	.058282	.080728	-.111042	-.112251	-.133845	-.149254	-.175639
10	.092228	.106121	.059543	.079758	-.048272	-.045436	-.076189	-.092850	-.104143
11	.113942	.135908	.051528	.070693	-.084403	-.085995	-.117746	-.146406	-.145648
12	.111571	.123351	.021103	.038026	-.125234	-.126232	-.150356	-.176591	-.198974
13	.078715	.084436	.033837	.036618	-.070079	-.073112	-.111032	-.135486	-.158297
14	.082156	.089849	.058577	.058877	-.099150	-.108359	-.155776	.176713	-.225063
15	.071180	.082604	.046353	.033103	-.102627	-.113095	-.149492	-.167151	-.216119
16	.056644	.060082	.039957	.030410	-.082793	-.085170	-.119990	-.127209	-.174367
17	.083264	.070064	.030894	.030251	-.049913	-.035291	-.120226	-.108189	-.186962
18	.054155	.036503	.003573	-.001302	-.087374	-.064332	-.112644	-.094056	-.180627
19	.017863	-.000897	-.016470	-.022425	-.082050	-.057785	-.087525	-.067016	-.133247
20	.042441	.027214	-.038684	-.041201	-.062030	-.046570	-.090724	-.077834	-.101797
21	.054922	.044921	-.057022	-.057998	-.055768	-.053360	-.099524	-.100020	-.086880
22	.012548	.009609	-.113999	-.108050	.007307	.002520	-.055067	-.067993	-.013142
23	-.011069	.000402	-.120419	-.106480	.016771	.001599	-.053889	-.075858	-.005982
24	-.040112	-.012303	-.028800	-.013852	.018639	.002162	.001387	-.014766	.010899
25	-.030712	-.007454	-.045625	-.047073	.035779	.027468	.019581	.010955	.001309
26	-.042520	-.018346	-.045994	-.064888	.022566	.007432	.037460	.024820	.025012
27	-.038173	-.021071	-.050370	-.065658	.014370	-.005525	.027978	.016910	.015691
28	.010511	.022955	-.054292	-.065119	-.021367	-.048154	-.043294	-.058954	-.066744
29	-.005432	-.004510	-.013325	-.029475	-.015569	-.036077	-.040297	-.041789	-.085499
30	-.030305	-.049584	-.000633	-.005671	.017856	.015506	-.008383	.017587	-.079726

COSPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-02	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.031847	-.069280	.179244	.033849	.022016	.051346	.109578	.026318	.102688
1	-.212819	-.501041	.335806	.046964	.156720	.360594	.834619	.204585	.665136
2	-.202752	-.513979	-.342243	-.104393	.149544	.350678	.763146	.194060	.592837
3	-.149942	-.443291	-.590589	-.164419	.112819	.288464	.523687	.146615	.425468
4	-.061106	-.240117	-.380095	-.099567	.059999	.172051	.251289	.078894	.218090
5	-.018581	-.122696	-.383633	-.065826	.037555	.118708	.147621	.049057	.153098
6	-.008462	-.107192	-.280248	-.026760	.021187	.094912	.111992	.047569	.105844
7	-.028891	-.135974	-.040196	.022615	.021973	.088697	.135358	.054617	.076847
8	-.044739	-.148932	-.011723	.020091	.028164	.083143	.160203	.053894	.086459
9-11	-.031098	-.105461	-.094108	-.010500	.040518	.111766	.223627	.063388	.127003
12-14	-.016864	-.070866	-.152101	-.031733	.031814	.085184	.123933	.034931	.080327
15-21	-.024995	-.068824	-.066968	-.010592	.028659	.070354	.112632	.029440	.069030
22-30	-.010349	-.033519	.029683	.014740	.019665	.045968	.093497	.024914	.056642

RUN NO. 82E 40M 11-02-62 0916-1025 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
	0.33693 10E 00	0.33284 10E 00	0.12470 10E 00	0.21612 10E 00	0.80971 10E-01	0.79989 10E-01
1	.031902	-.067651	-.065946	-.002862	.015698	.025677
2	.043064	-.083432	-.051096	.065558	.044974	-.007955
3	.031196	-.091464	-.038613	.004853	-.025169	.002271
4	.081372	-.134494	-.068076	.025839	.013109	-.050211
5	.114405	-.113261	-.038127	.057658	.030099	-.101809
6	.058904	-.121975	-.041278	.043110	.002817	-.098367
7	.045312	-.158790	-.107513	.028756	.006849	-.094920
8	.005980	-.070763	-.089656	-.020374	-.018144	-.005799
9	-.017185	-.041256	-.089461	-.026344	-.029744	.029619
10	.014348	-.075731	-.113072	-.017181	.048377	.015564
11	.029455	-.070745	-.122337	.032992	.093116	.004049
12	.012018	.022565	-.089669	.056449	.065450	.010213
13	-.014988	.004914	-.058366	.042170	.000461	.000112
14	-.049373	.022120	-.028364	.053073	-.057069	-.002496
15	-.066133	.040952	-.002479	.083733	-.029310	-.002944
16	-.066220	.046335	.006625	.037917	-.029180	.025565
17	-.091185	.057255	.025618	.016648	.000909	.022005
18	-.065677	.056558	.061358	-.002785	.010922	.002677
19	-.014551	.054006	.062538	-.005349	.003887	.030616
20	.000715	.105462	.103756	-.016403	-.006606	.048249
21	-.020498	.114230	.115751	-.055381	-.015715	.033693
22	-.012703	.071317	.116433	-.080519	-.049460	-.002809
23	.040700	-.000677	.100182	-.006815	-.013023	-.059552
24	.039397	-.067645	.031127	-.023254	.005166	-.056216
25	.035050	-.056440	.014775	-.063241	-.018111	-.032766
26	.067731	-.057296	-.007967	-.006552	.005346	-.000029
27	.112201	-.036250	-.022149	.001264	.057201	.035533
28	.109749	-.010143	.006071	-.014058	.076344	.011091
29	.067687	-.024893	-.007382	-.041360	.025823	-.021188
30	.027657	-.001225	-.009590	-.066421	-.024967	-.015137

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	.013909	-.112900	-.563858	.465400	.057529	-.092286
2	.072389	-.172041	-.587727	.278221	.066543	-.140636
3	.104897	-.159697	-.207028	.001210	.024365	-.170708
4	.043754	-.060728	.128003	.133155	-.032210	-.099668
5	.018787	-.031529	.005793	.372730	-.012611	-.041668
6	.031544	-.011445	-.069745	.171243	.059711	.044793
7	.011591	-.001327	-.115776	-.091150	.108118	.147885
8	-.029623	-.012645	-.118436	-.157370	.012358	.135329
9-11	-.017330	-.004972	-.054969	.011257	-.030028	.031642
12-14	.017647	-.016978	-.025924	.117013	.062801	-.032280
15-21	.008119	-.009033	-.064384	-.072846	.005181	.014206
22-30	-.005038	.004775	.011899	-.111556	-.043230	.024994

RUN NO. 82E 40M 11-02-62 0916-1025 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	0.28108 10E 00	0.63234 10E-01	0.18251 10E 00	0.41058 10E-01	0.18029 10E 00	0.40560 10E-01	0.67549 10E-01	0.15196 10E-01	0.34252 10E-01
1	-.102048	-.097016	.064365	.052156	.016246	.020700	.000604	.000200	-.000275
2	-.114986	-.101038	.170313	.139130	-.026063	-.021465	-.000574	-.000412	.000386
3	-.105814	-.090159	.104650	.066635	-.037448	-.026311	-.048585	-.035353	.017163
4	-.158770	-.139051	.136194	.102710	-.087311	-.080586	-.039044	-.027756	.014485
5	-.135668	-.112051	.124607	.100726	-.112544	-.117191	-.047673	-.033813	.017590
6	-.105539	-.091241	.091548	.067238	-.100053	-.107388	-.067805	-.048589	.024431
7	-.124160	-.128524	.052647	.040368	-.116675	-.118173	-.052439	-.037220	.019090
8	-.066604	-.080377	.008558	-.000598	-.114516	-.084781	-.085689	-.061561	.030888
9	-.040635	-.061237	.005277	-.007423	-.095025	-.057976	-.060604	-.043548	.022055
10	-.072632	-.092765	.060037	.060254	-.068917	-.043858	-.006924	-.004588	.002928
11	-.101813	-.117206	.089275	.097383	-.028476	-.018837	.021033	.015203	-.007350
12	-.080233	-.090159	.066275	.071039	.001321	.004845	.032803	.023939	-.011392
13	-.057268	-.062312	.048365	.034832	.020637	.014706	.026623	.019148	-.009332
14	-.047945	-.044743	-.000731	-.020864	.072354	.051374	.031651	.022581	-.011439
15	-.014657	-.011455	.029841	.011415	.061598	.043683	.049482	.035902	-.017342
16	.013847	.012350	.007885	-.004687	.043956	.041008	.034564	.024851	-.012274
17	.074295	.063071	-.002637	-.001417	.011754	.016483	-.001880	-.001348	.000838
18	.119031	.107981	-.023285	-.012433	-.023879	-.016321	-.015333	-.011186	.005140
19	.116603	.106619	-.045369	-.030653	.014052	.021061	-.018951	-.013744	.006742
20	.132985	.133135	-.057204	-.043498	.025011	.035353	-.001610	-.001428	.000583
21	.154438	.153287	-.045330	-.037873	-.003609	.009162	-.029046	-.021449	.010219
22	.141833	.144360	-.055939	-.058136	-.020546	-.015847	-.042955	-.031395	.015245
23	.083009	.096310	-.015346	-.015815	.002161	-.020056	-.028655	-.020954	.010129
24	.015661	.022620	-.005443	-.002062	.001242	-.019686	-.023983	-.017506	.008326
25	.010980	.012931	-.038102	-.033782	.002554	-.009726	-.034989	-.024795	.012585
26	-.007903	-.008814	-.015369	-.009085	.012698	.008877	-.024079	-.017074	.008359
27	-.050269	-.044317	-.018395	.006799	.037999	.040259	-.001829	-.001075	.000570
28	-.026423	-.017407	.005067	.030688	.003409	.006192	-.000443	-.000420	-.000316
29	-.022132	-.019006	-.004175	.006143	-.053473	-.046010	-.005221	-.003841	.001491
30	-.023280	-.020606	-.018776	-.022527	-.047051	-.039121	.001430	.001099	-.000810

QUADRATURE SPECTRUM

K	U,N	U,RHO(W)	V,N	V,RHO(W)	W,N	W,RHO(W)	T,N	T,RHO(W)	N,RHO(W)
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02	10E-02	10E-03	10E-03
1	-.132693	-.318037	.809358	.141608	-.613078	-.115897	-.099666	-.159762	.187707
2	-.176685	-.394081	.788567	.139665	-.707232	-.140049	-.116842	-.187281	.217298
3	-.112043	-.219873	.580484	.098559	-.685376	-.142155	-.166512	-.268788	.304371
4	-.034359	-.032647	.412631	.061602	-.224043	-.054369	-.081774	-.132676	.148406
5	-.069274	-.111414	.514096	.081494	.216674	.027756	.047669	.076899	-.086640
6	-.058371	-.107045	.469377	.087015	.242159	.047503	.069005	.110750	-.125566
7	-.016076	-.046516	.280028	.064973	.063993	.037269	.028631	.045365	-.052597
8	-.002819	-.025395	.098017	.018027	.011145	.026320	-.005141	-.009143	.008682
9-11	-.006512	-.020385	-.013430	-.007506	.078397	.018169	-.005810	-.010196	.008989
12-14	-.015814	-.030280	.141602	.034557	.056862	.003438	.032817	.053421	-.059191
15-21	-.015263	-.036448	-.032443	-.004437	.004645	.003309	.006312	.010504	-.010494
22-30	.005344	.010781	-.136996	-.030017	.050610	.012557	-.019448	-.032426	.033353

RUN NO. 82E 40M 11-02-62 0916-1025 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.51890 10E 00	0.21877 10E 00	0.21349 10E 00	0.29969 10E-01	0.15225 10E 00	0.77058 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.602098	.472090	.383029	.533503	.601939	.561646
2	.285527	.223914	.051369	.213146	.365914	.305159
3	.155784	.117264	.058879	.097312	.311468	.253609
4	.045401	-.046962	-.029446	-.002764	.215962	.163131
5	-.088152	-.072872	-.082796	.037936	.173236	.158078
6	-.170108	-.126349	-.108099	.040943	.093690	.107313
7	-.198080	-.175383	-.073764	-.002957	-.005722	.014699
8	-.157350	-.211595	-.085143	-.082423	-.131489	-.114467
9	-.204301	-.157431	-.117128	-.147673	-.177149	-.180028
10	-.247383	-.167880	-.068350	-.105692	-.106336	-.108498
11	-.264211	-.134774	-.049040	-.171816	-.143324	-.157542
12	-.211766	-.121278	-.086225	-.189935	-.200941	-.206943
13	-.157926	-.114965	-.048038	-.154888	-.164448	-.162615
14	-.137413	-.086751	-.086473	-.179799	-.234875	-.225510
15	-.091182	-.118613	-.087709	-.165850	-.225739	-.215545
16	-.041529	-.046394	-.043472	-.114921	-.182480	-.170987
17	-.000035	.005398	.000873	-.060301	-.199344	-.173644
18	.051156	.005980	-.013328	-.035534	-.194387	-.164048
19	.079056	.010050	-.045222	-.009991	-.140755	-.120493
20	.066993	-.006997	-.032884	-.034196	-.096150	-.101322
21	.079831	-.005852	-.040670	-.080029	-.071659	-.098009
22	.112009	.030465	.035613	-.078458	.009301	-.033986
23	.095693	.060597	.041988	-.102303	.018573	-.031659
24	.008667	.060469	.038581	-.044293	.014056	.002795
25	-.007352	.015359	.032965	-.008297	-.007863	.004776
26	-.026080	.045345	-.027596	-.005596	.016483	.026646
27	-.046468	.062400	-.016325	-.009090	.008151	.017226
28	-.076042	.054657	-.062973	-.078698	-.071295	-.068957
29	-.038941	.081058	-.073663	-.036317	-.098835	-.076372
30	.026791	.100727	.028771	.066797	-.105902	-.051552

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
0	.040273	.011352	.018277	.047054	.051053	.021432
1	.432087	.151464	.140461	.381124	.316600	.145046
2	.678808	.230313	.164829	.387140	.279975	.131417
3	.857145	.281023	.183551	.339798	.203575	.095658
4	.598990	.228310	.161357	.210138	.106234	.049721
5	.370532	.170695	.146358	.138700	.077823	.033738
6	.323951	.135642	.130136	.162440	.052765	.025777
7	.283644	.109292	.115937	.180147	.032254	.022367
8	.238571	.081916	.096063	.153861	.035305	.023823
9-11	.138002	.078170	.088330	.149665	.053293	.032093
12-14	.149457	.058551	.074013	.081796	.035626	.019375
15-21	.106034	.053763	.077387	.061784	.030054	.016508
22-30	.065168	.051297	.050449	.053650	.024409	.013727

RUN NO. 82E 16M 11-02-62 0916-1025 EST
RUN NO. 82E 40M 11-02-62 0916-1025 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.750786	.527723	.736339	.787491	.414700	.582044
1	.543872	.630699	.698522	.719573	.450702	.567550
2	.396519	.524144	.639588	.645976	.485746	.559691
3	.303629	.472141	.620000	.579920	.530361	.566370
4	.182652	.481266	.642802	.521807	.547084	.559597
5	.070500	.459933	.596298	.397571	.422610	.432237
6	.026654	.433292	.498485	.252000	.238894	.247422
7-8	.140741	.480687	.355646	.198592	.156048	.169754
9-11	.124487	.316384	.230626	.144493	.148843	.152739
12-15	.081456	.119215	.201766	.135321	.108443	.128784
16-20	.104264	.141016	.173201	.161459	.108997	.117499
21-27	.135114	.108510	.106187	.125146	.103916	.113166
28-36	.143016	.114738	.136254	.125683	.117599	.126416
37-47	.139343	.110220	.125920	.121991	.107735	.125275
48-60	.148138	.161039	.095790	.091959	.087013	.073548

301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

COHERENCE WITH QUADRATURE

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E 00	10E 00	10E 00	10E 00
0	.965338	.788590	.933408	.835096	.752363	.829052
1	.747385	.800467	.845504	.808081	.680229	.742209
2	.792720	.758866	.785404	.785839	.599762	.687920
3	.861035	.750351	.770802	.817193	.652412	.730534
4	.862123	.795258	.776680	.851023	.674532	.769290
5	.776184	.811797	.779006	.771340	.509483	.619307
6	.834651	.689757	.801484	.778943	.244933	.473189
7	.770430	.658184	.758504	.808635	.356792	.580543
8	.594839	.688887	.600217	.780026	.510086	.634145
9-11	.369912	.533347	.739821	.728983	.582632	.659137
12-14	.327763	.510834	.603585	.488794	.432748	.447635
15-21	.310243	.488399	.659113	.565414	.599703	.610151
22-30	.191254	.350174	.551286	.342019	.423441	.410680

RUN NO. 84A 16M 11-06-62 1246-1401 EST

GROSS STATISTICS

10 AS SC	WIND SPEED 5.48 M/SEC	WIND DIRECTION 331 DEG	
NEAR NEUTRAL	SIGMA A 13.4 DEG	SOLAR RADIATION 0.14	
LAND	SIGMA E 5.6 DEG	NET RADIATION 0.06	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.14351E 01	0.10271E 01	0.56006E 00	0.79107E 00
V	0.17750E 01	0.97041E 00	0.59175E 00	0.70705E 00
W	0.27003E-00	0.25799E-00	0.22334E-00	0.11072E-00
T	0.57278E-01	0.53675E-02	0.23945E-02	0.42277E-02
E	0.17401E 01	0.11278E 01	0.68759E 00	
GUSTINESS RATIOS				
U	0.21861	0.18494	0.13656	0.16230
V	0.24312	0.17976	0.14037	0.15344
W	0.09483	0.09269	0.08624	0.06072
COVARIANCES				
U,V	-0.13338E-01	0.20826E-01	-0.25361E-01	0.26070E-01
U,W	-0.23691E-00	-0.19826E-00	-0.12639E-00	-0.14504E-00
U,T	-0.96683E-01	-0.49019E-01	-0.18135E-01	-0.42525E-01
V,W	0.76224E-01	0.47427E-01	0.26595E-01	0.42877E-01
V,T	0.97586E-01	0.44748E-03	0.21604E-02	0.23700E-03
W,T	0.10887E-01	0.12756E-01	0.76616E-02	0.89212E-02
WE	0.19721E-02	0.19374E-01	0.12262E-01	
NORMALIZED COVARIANCES				
U,V	-0.00836	0.02086	-0.04405	0.03486
U,W	-0.38057	-0.38513	-0.35736	-0.49010
U,T	-0.33722	-0.66019	-0.49521	-0.73533
V,W	0.11010	0.09479	0.07315	0.15325
V,T	0.30605	0.00620	0.05739	0.00433
W,T	0.08754	0.34280	0.33131	0.41235

RUN NO. 84A 16M 11-06-62 1246-1401 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.57556 10E 00	0.35362 10E 00	0.36618 10E-01	0.36345 10E 00	0.37636 10E-01	0.23124 10E-01
0	-.044064	-.357488	-.495174	.073494	.057402	.331123
1	-.044533	-.324457	-.454372	.065947	.056966	.296786
2	-.042071	-.256365	-.386423	.052380	.054570	.224097
3	-.036950	-.189896	-.315951	.041993	.051444	.149958
4	-.029368	-.135971	-.254224	.036747	.048883	.092371
5	-.021595	-.090504	-.203774	.033651	.037521	.053295
6	-.013310	-.059083	-.157016	.027623	.021929	.025224
7	-.006122	-.029404	-.114734	.015120	.013217	.006278
8	.000578	-.005990	-.074893	.003323	.009993	-.005447
9	.009914	.012909	-.039555	-.009047	.006479	-.018151
10	.017823	.026454	-.009270	-.018246	-.001552	-.030045
11	.020530	.039272	.013685	-.017394	-.008377	-.039849
12	.020023	.059001	.039741	-.013118	-.008621	-.046302
13	.023354	.073850	.062642	-.014268	-.009948	-.053010
14	.026127	.078863	.080624	-.019429	-.012132	-.059301
15	.031674	.079581	.101537	-.021076	-.021862	-.067736
16	.033850	.074730	.117354	-.019182	-.033489	-.065277
17	.031156	.075282	.128418	-.011725	-.043207	-.058816
18	.023684	.076761	.136795	-.001189	-.047341	-.054456
19	.013490	.076087	.137998	.005179	-.049134	-.054870
20	.008696	.078695	.135943	.007681	-.049352	-.055405
21	.004128	.081668	.132357	.005603	-.047247	-.053976
22	.002973	.084520	.131709	.004275	-.041834	-.044214
23	.004570	.088869	.130061	.006241	-.034520	-.043464
24	.005501	.087807	.128132	.008589	-.027927	-.049257
25	.009022	.083228	.119808	.006162	-.017965	-.048168
26	.009826	.077559	.104812	.006550	-.008175	-.045874
27	.008123	.065705	.088929	.002109	.003271	-.041970
28	.003828	.060366	.075644	-.006784	.012220	-.040179
29	.000113	.056171	.060195	-.020214	.012064	-.039042
30	.002962	.044559	.041043	-.030266	.006410	-.032250
31	.009613	.032562	.019717	-.032149	.003911	-.020991
32	.017115	.020292	.007213	-.026039	.005938	-.011215
33	.023182	.008302	-.002980	-.016786	.014344	-.008454
34	.025294	.001614	-.012259	-.012179	.025565	-.011508
35	.025573	-.006172	-.018325	-.009056	.031625	-.006411
36	.026655	-.015985	-.016447	-.011115	.027357	.006200
37	.032237	-.025006	-.014746	-.018159	.017549	.014731
38	.033329	-.033353	-.016173	-.028355	.010248	.017919
39	.031248	-.041818	-.012900	-.034895	.005546	.015111
40	.028480	-.048333	-.008492	-.034943	-.000840	.008822
41	.024248	-.046960	-.001620	-.031771	-.005658	.005648
42	.021356	-.037077	.002047	-.027486	-.009719	.008650
43	.015290	-.025967	.000605	-.024324	-.016561	.008364
44	.014372	-.020322	.001975	-.019414	-.022330	.003892
45	.016915	-.019203	.004516	-.020706	-.020739	.005872
46	.019197	-.015299	.011373	-.034936	-.017474	.011233
47	.015618	-.007787	.022704	-.048723	-.014351	.015899
48	.012116	-.004642	.030500	-.051573	-.016752	.010791
49	.011580	-.003819	.033625	-.046792	-.016463	.003238
50	.013236	-.008473	.037556	-.035256	-.016750	-.007034
51	.013588	-.011767	.038874	-.026371	-.023603	-.010608
52	.011637	-.008744	.041638	-.024096	-.035217	-.011863
53	.002927	.002757	.047894	-.024337	-.043967	-.012479
54	-.007995	.016630	.051665	-.017448	-.046311	-.010912
55	-.019560	.029806	.050624	-.003254	-.045127	-.013664
56	-.027438	.038648	.047271	.014759	-.040220	-.016331
57	-.037649	.039826	.035994	.030779	-.030611	-.018509
58	-.048743	.036231	.023263	.042840	-.015125	-.020755
59	-.060998	.034743	.013259	.049096	-.002610	-.014482
60	-.073382	.033469	.009966	.051006	.005508	-.006468

RUN NO. 84A 16M 11-06-62 1246-1401 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.57556 10E 00	0.35362 10E 00	0.36618 10E-01	0.36345 10E 00	0.37636 10E-01	0.23124 10E-01
1	-.001906	-.068609	-.052783	.012573	-.003494	.002118
2	.003750	-.099975	-.087236	.019837	-.006368	.010918
3	.008959	-.102663	-.107309	.027956	-.007595	.019693
4	.016602	-.101963	-.113065	.028193	-.005384	.020598
5	.020493	-.103520	-.114833	.026782	-.003581	.018228
6	.024697	-.109301	-.116870	.029250	-.005608	.011039
7	.029996	-.107981	-.119138	.034754	-.008393	.001788
8	.037913	-.106687	-.122783	.035386	-.010798	-.004645
9	.044967	-.103163	-.122580	.026008	-.013760	-.010218
10	.043289	-.095119	-.115052	.016461	-.019660	-.009283
11	.034552	-.083553	-.100324	.005678	-.018924	-.004511
12	.023282	-.069574	-.087344	.001750	-.014182	.002187
13	.013644	-.054191	-.079748	.003356	-.009689	.013715
14	.008206	-.040716	-.071891	-.000347	-.010391	.021901
15	.007472	-.030072	-.061136	-.003532	-.012014	.021808
16	.007409	-.025085	-.048317	-.005626	-.009354	.021035
17	.002323	-.016510	-.040512	-.002909	-.006813	.024162
18	-.011086	-.007022	-.032139	-.001496	-.007591	.022105
19	-.022225	.003144	-.020782	-.006033	-.009632	.019291
20	-.031049	.007906	-.007065	-.009485	-.010307	.012456
21	-.036977	.014995	.002783	-.003878	-.012477	.011231
22	-.039267	.024594	.007764	.000399	-.011844	.011018
23	-.039379	.029638	.014705	.001399	-.009257	.008703
24	-.041838	.029591	.015897	-.001079	-.007027	.009979
25	-.042690	.028697	.016619	-.002578	-.000368	.015189
26	-.042030	.026006	.018449	-.005455	.006186	.020843
27	-.040644	.023690	.023947	-.007050	.009282	.018955
28	-.039245	.028383	.027185	-.006935	.016265	.015636
29	-.038746	.031254	.026299	-.003320	.025445	.008245
30	-.033412	.036513	.022729	.009785	.033661	.004753
31	-.022867	.041636	.018463	.019766	.041508	.000762
32	-.014208	.045856	.014530	.022457	.043275	-.002368
33	-.007308	.046984	.009966	.021101	.040536	-.004966
34	-.005252	.046985	.005678	.017122	.040579	-.004700
35	-.006100	.052232	.003205	.011940	.042551	-.003102
36	-.006736	.056072	.001408	.008987	.040331	-.002959
37	-.006803	.047546	-.000133	.002988	.031626	-.002527
38	-.006652	.024305	.000115	-.001703	.019439	-.004894
39	-.005976	-.003899	-.003311	-.014484	.008281	-.004899
40	-.003468	-.022941	-.008613	-.028352	-.001999	-.005410
41	-.002730	-.027028	-.015458	-.027847	-.009353	-.008749
42	.004773	-.019100	-.021017	-.023087	-.006803	-.012653
43	.017095	-.011737	-.025213	-.013467	.003199	-.007611
44	.026509	-.012882	-.026897	-.005549	.009508	.003551
45	.029396	-.012961	-.027074	-.004547	.012945	.012057
46	.031891	-.017060	-.023567	-.005334	.011961	.012824
47	.039250	-.023725	-.022770	-.004675	.011804	.010820
48	.048467	-.025791	-.022350	-.006711	.011361	.010841
49	.053948	-.023985	-.019569	-.005830	.010869	.011065
50	.053466	-.017140	-.019949	-.004473	.010412	.013341
51	.050055	-.015524	-.024870	-.010191	.009848	.013997
52	.047198	-.014561	-.028954	-.021773	.004971	.018709
53	.042392	-.014080	-.029771	-.029947	-.000243	.030735
54	.036146	-.016944	-.024292	-.029217	-.006916	.033126
55	.030405	-.016033	-.016668	-.018877	-.014781	.020107
56	.024925	-.012228	-.008877	-.012514	-.025947	.004906
57	.011976	-.007136	.001676	-.010333	-.043166	-.004306
58	-.002828	-.000797	.017408	-.008643	-.055742	-.009118
59	-.018571	.008856	.030976	-.003575	-.061430	-.015056
60	-.031694	.015423	.041335	.002802	-.063191	-.018986

RUN NO. 84A 16M 11-06-62 1246-1401 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.55999 10E 00	0.59156 10E 00	0.22330 10E 00	0.23945 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.860647	.860110	.702079	.846998
2	.679610	.670069	.385339	.645615
3	.530484	.520914	.190862	.488133
4	.414499	.403519	.091340	.364988
5	.323335	.311937	.047188	.263191
6	.241744	.232031	.008686	.184330
7	.163838	.160631	-.022831	.120676
8	.092800	.103473	-.047624	.074060
9	.025654	.051296	-.062399	.038271
10	-.035678	.001617	-.073033	.005385
11	-.086727	-.043117	-.096900	-.021006
12	-.130321	-.083523	-.121504	-.045131
13	-.166761	-.119380	-.121685	-.070482
14	-.194210	-.149929	-.118121	-.097852
15	-.221251	-.177676	-.114890	-.131799
16	-.239759	-.201805	-.117142	-.159068
17	-.247921	-.217889	-.111539	-.184178
18	-.252747	-.231041	-.101607	-.202828
19	-.253301	-.240671	-.106151	-.210469
20	-.252114	-.251444	-.110859	-.210454
21	-.249193	-.263068	-.116340	-.205817
22	-.248459	-.272184	-.108720	-.202349
23	-.235444	-.277063	-.099737	-.204876
24	-.216763	-.279301	-.095579	-.204941
25	-.199479	-.281775	-.079693	-.198395
26	-.183662	-.277014	-.063296	-.191671
27	-.170610	-.262868	-.073266	-.180278
28	-.152364	-.238501	-.086703	-.158360
29	-.127229	-.199923	-.085106	-.130668
30	-.088250	-.153770	-.079284	-.097481
31	-.048875	-.102496	-.062306	-.066211
32	-.017993	-.054689	-.049111	-.045262
33	.008879	-.019036	-.040826	-.033638
34	.030200	.004893	-.028429	-.025443
35	.047943	.025984	-.001596	-.025554
36	.065588	.044777	.023227	-.031682
37	.081685	.056568	.032829	-.032113
38	.098027	.062588	.034334	-.030779
39	.103155	.061366	.022836	-.032977
40	.093710	.055897	.017610	-.026706
41	.077820	.045463	.016018	-.021002
42	.063847	.034953	.019763	-.016136
43	.053889	.025876	.017168	-.009893
44	.039592	.020111	.030612	-.009250
45	.026917	.010637	.042395	.000386
46	.010818	.005450	.052683	.010098
47	-.003760	.000232	.044587	.010874
48	-.013468	-.009472	.018119	.011155
49	-.022346	-.019214	.006183	.012536
50	-.035909	-.021551	.015306	.011995
51	-.045216	-.024375	.031077	.002769
52	-.058757	-.025239	.043637	-.009592
53	-.071003	-.032997	.029557	-.018215
54	-.081362	-.040295	.014597	-.016923
55	-.089447	-.039289	-.000526	-.013159
56	-.096618	-.040237	-.024403	-.005841
57	-.102490	-.042261	-.029612	-.001051
58	-.101545	-.036536	-.032834	.005751
59	-.097215	-.029014	-.026477	.013114
60	-.086625	-.024083	-.011682	.019060

RUN NO. 84A 16M 11-06-62 1246-1401 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-02
0	.146120	-.013306	-.049315	.038224	.010040	.008540
1	-.263973	-.125850	-.302544	.545476	.286278	.070630
2	-.552864	-.186848	-.326714	.402079	.458954	.092872
3	-.491928	-.227475	-.361948	.261999	.739886	.111502
4	-.635393	-.155465	-.249586	.381808	.589927	.088393
5	-.591647	-.099880	-.121097	.414854	.091516	.066638
6	-.244643	-.094783	-.083589	.316420	-.067257	.058585
7-8	-.027687	-.064315	-.067704	.045000	.071085	.041117
9-11	-.019449	-.034619	-.039078	.024103	.062959	.029262
12-15	.024706	-.025481	-.019444	.001439	-.038551	.018284
16-20	-.027064	-.009240	-.012798	.055284	-.012647	.008525
21-27	.018907	-.006017	-.005947	.014040	.007619	.003328
28-36	.001198	-.002185	-.002570	.003415	.003623	.000858
37-47	.001072	-.000601	-.001544	.004729	-.005365	.000382
48-60	.002066	-.000110	-.001232	-.000001	.001493	.000173

QUADRATURE SPECTRUM

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
1	-.464503	-.035401	-.105903	.131534	.103124	.210450
2	.092941	-.086975	-.118123	.161110	-.257894	.134942
3	.923631	-.137204	-.152432	.174141	-.311133	.040345
4	.799345	-.105020	-.120725	.290490	.020739	-.055424
5	.266001	-.065036	-.065894	.320172	.114681	-.017531
6	-.078395	-.054434	-.038965	.161269	-.084010	.027152
7-8	-.102330	-.022167	-.024573	.130482	.002490	.057424
9-11	-.099894	-.016146	-.014281	-.005118	.018236	.100180
12-15	-.025316	-.014360	-.010253	-.007609	-.032849	-.009480
16-20	.006365	-.010263	-.007353	.043282	-.012047	-.014388
21-27	-.028808	-.006253	-.000582	-.010679	-.004186	-.010743
28-36	-.003769	-.002072	-.000776	.002470	.008612	-.003603
37-47	-.004667	-.000702	-.000517	.004626	-.000596	-.002237
48-60	-.006739	.000458	-.000287	.004987	-.000020	.000978

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.009829	.008300	.008536	.046486
1	.066738	.076219	.110323	.326310
2	.085120	.099010	.171039	.360404
3	.103650	.107668	.210905	.367524
4	.072070	.064855	.171745	.249820
5	.038825	.031935	.143606	.148741
6	.031089	.031964	.134509	.117642
7-8	.020838	.025531	.105165	.111993
9-11	.012966	.014938	.084216	.077465
12-15	.008904	.009842	.068895	.039511
16-20	.005933	.006099	.047739	.026102
21-27	.003334	.003812	.033897	.016096
28-36	.001920	.002093	.017780	.009969
37-47	.001266	.001361	.012589	.005973
48-60	.000842	.000743	.008617	.003637

RUN NO. 84A 16M 11-06-62 1246-1401 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
	0.74800 10E 00	0.29605 10E 00	0.57813 10E-01	0.27995 10E 00	0.54668 10E-01	0.21637 10E-01
0	.034853	-.489922	-.735552	.153162	.004335	.412308
1	.079348	-.236359	-.531947	.060873	-.029245	.209974
2	.068379	-.116384	-.357202	.039471	-.049265	.140266
3	.029380	-.047674	-.253531	.020434	-.033537	.072892
4	.010181	-.054389	-.126710	-.012933	-.023350	.042840
5	-.044389	.020590	.016013	.000806	-.013747	-.020344
6	-.110426	.077441	.099271	.052714	.030266	-.052177
7	-.103313	.069099	.165018	.051134	.067495	-.065280
8	-.071156	.126164	.237086	-.039660	.075266	-.095054
9	-.046572	.090051	.232703	-.065442	.086410	-.095886
10	-.027011	.102294	.269042	-.027091	.063426	-.131499
11	.023071	.163715	.298070	-.045945	.031452	-.185553
12	.039010	.101888	.246833	-.023830	.010445	-.136622
13	.044340	.074099	.158213	-.044058	-.042580	-.061598
14	.056062	-.002831	.090246	-.052654	-.083136	-.014458
15	.028982	.007847	.088294	-.038573	-.049450	-.047456
16	-.003692	-.053339	.034441	-.042937	-.017178	.021940
17	.013386	-.020827	.020660	-.019914	-.026938	.001900
18	-.010096	.008234	.005368	-.004439	-.010565	-.019097
19	-.006418	.027792	-.010005	.017266	.005879	-.003579
20	-.025517	.002651	-.050742	.041705	.010756	.028140
21	-.019459	.034379	-.077577	.037492	.015313	.037965
22	.004635	.040480	-.075968	.016279	-.000317	.015781
23	.038203	.042881	-.083917	-.025727	-.005415	.026833
24	.040717	.019572	-.060729	-.030278	.002988	.026428
25	.061673	.024216	-.052085	-.004315	-.013725	.004815
26	.083854	.027943	-.034584	-.013359	-.026579	.019837
27	.101671	-.040656	-.072827	-.007355	-.039824	.068854
28	.093562	-.063875	-.086884	-.000126	-.025297	.050260
29	.051259	-.049961	-.053275	-.052907	-.023112	.059609
30	.032311	-.036045	-.018612	-.052996	-.048125	.038024

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	-.005620	-.005982	-.051960	.035985	.006545	.002187
1	-.036546	-.114460	-.537894	.496245	.023612	.072227
2	.033335	-.165844	-.804693	.651488	-.024937	.128730
3	.142060	-.212591	-.945159	.580469	-.109862	.158906
4	.252006	-.176813	-.616348	.133596	-.141920	.105996
5	.225984	-.082165	-.294883	-.006348	-.043863	.045099
6	.059563	-.043265	-.150537	.152298	.072649	.023852
7	-.036158	-.066185	-.126608	.133423	.080724	.036294
8	-.062253	-.070429	-.144209	.231411	.030194	.049081
9-11	-.044853	-.038414	-.062747	.375393	.010958	.017617
12-14	.001092	-.057437	-.080345	-.093129	.001392	.026884
15-21	-.023329	-.034053	-.061412	.144680	.019415	.017331
22-30	-.017587	-.032323	-.031896	.127756	.002212	.022472

RUN NO. 84A 16M 11-06-62 1246-1401 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
	0.74800 10E 00	0.29605 10E 00	0.57813 10E-01	0.27995 10E 00	0.54668 10E-01	0.21637 10E-01
1	.028712	-.064141	-.090783	.054280	.011855	.039880
2	.011753	.053073	-.074717	-.015944	.003915	.116326
3	.025741	.084608	-.083598	.014602	.038602	.129558
4	.081843	.089231	-.088831	.047014	.051941	.146043
5	.125957	.115236	-.077400	.040753	.047737	.169108
6	.097979	.119984	-.035945	.057197	.034227	.127456
7	.088549	.081350	-.040434	.070985	.037349	.116786
8	.119475	.089181	-.039843	.075911	.108402	.100560
9	.111723	.073116	-.024005	.058347	.133036	.086846
10	.035449	.044733	-.026281	.024345	.078827	.054956
11	-.024530	-.007776	-.031577	.022280	.042024	.048043
12	-.068739	.000361	-.006797	-.025777	-.032971	-.005270
13	-.094471	-.006838	-.014510	-.007942	-.064115	-.023095
14	-.083702	-.081172	-.059347	-.018904	-.048148	-.090997
15	-.067178	-.077962	-.065307	-.019041	-.053014	-.065981
16	-.071216	-.080756	-.063312	-.016619	-.093901	-.083460
17	-.056948	-.103540	-.076468	.015991	-.132569	-.072778
18	-.052778	-.045288	-.059058	-.046319	-.131163	-.055441
19	-.064895	.005539	-.011016	-.060377	-.120959	-.084143
20	-.058408	.015587	.041197	-.069715	-.088232	-.066173
21	-.029108	.030887	.023332	-.020009	-.049937	-.001296
22	-.015722	.023971	.031344	-.002833	-.022201	.004388
23	.021377	.025738	.066103	.006081	.003358	.010012
24	.056250	-.028436	.064976	.006758	.023844	-.065806
25	.053458	-.011858	.054692	-.008034	.041332	-.046327
26	.035367	-.028029	.048593	-.020831	.018435	-.023814
27	-.015587	-.018549	.035891	-.020368	-.017972	-.018762
28	-.053231	-.048646	.017958	-.074386	-.051509	.033485
29	-.042894	-.019724	.011353	-.046981	-.042741	.010445
30	-.020800	-.017702	-.024791	-.032836	-.006730	.015538

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	.066647	.061465	-.233970	.423314	.011675	.070569
2	.264832	.108629	-.151066	.657590	.183677	.121721
3	.347394	.130239	-.080443	.552811	.175445	.129392
4	.115349	.050143	-.124620	.094851	-.040690	.059813
5	-.082240	-.022203	-.128989	-.130424	-.087047	.013783
6	-.123436	-.008839	-.046230	-.217706	-.017130	.015601
7	-.069514	-.003629	-.036881	-.189197	.013061	.015610
8	.027940	-.026911	-.059961	.085804	.054968	.006195
9-11	-.019843	-.017623	-.018117	.059879	-.014914	-.004392
12-14	.008617	-.021674	-.020338	.039354	-.015160	.000081
15-21	.029377	-.024194	-.026140	.183547	.007314	-.003292
22-30	.007916	-.011780	-.013599	.112537	.012111	-.002314

RUN NO. 84A 16M 11-06-62 1246-1401 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.79104 10E 00	0.70730 10E 00	0.11080 10E 00	0.42253 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.588528	.578417	.203439	.702201
2	.338054	.261067	.120410	.478645
3	.221213	.146576	-.019633	.330351
4	.097272	.065998	.004401	.166831
5	-.093986	-.038774	.000464	.036990
6	-.182864	-.084962	-.054747	-.070943
7	-.202654	-.090552	-.076096	-.192963
8	-.246187	-.134905	-.142683	-.277839
9	-.224839	-.193024	-.171355	-.299361
10	-.241875	-.215111	-.126444	-.318007
11	-.268391	-.226055	-.201339	-.357182
12	-.210488	-.175179	-.101839	-.349577
13	-.116936	-.173203	-.077078	-.293989
14	-.021743	-.219120	.002162	-.236060
15	-.044224	-.163749	-.068412	-.197457
16	.023076	-.085313	.041069	-.096381
17	.024012	-.092389	.033210	-.065233
18	.012012	-.048446	-.053842	-.047428
19	-.024885	-.007130	-.024558	-.008206
20	.031248	.054466	-.013478	.064311
21	.025335	.100817	.009900	.159815
22	-.038589	.043654	.018977	.172261
23	-.029168	.009740	-.018320	.167585
24	-.020083	.036022	-.024757	.138167
25	-.039705	.060977	-.003914	.126746
26	-.050431	.044078	.064932	.138424
27	-.007485	.045331	.086922	.180088
28	.052773	.109337	.021382	.148096
29	.038117	.066845	.031957	.092223
30	.015652	.001335	-.023598	.014682

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.008359	.007122	.002275	.057492
1	.077466	.074979	.051066	.578035
2	.104476	.100020	.080674	.845854
3	.133317	.102965	.101303	.900278
4	.108838	.063890	.082111	.499318
5	.061303	.044259	.047241	.254122
6	.037090	.041828	.030672	.171834
7	.033261	.035234	.039649	.138111
8	.030521	.031394	.050909	.130380
9-11	.014495	.026041	.047521	.086834
12-14	.020610	.017568	.041295	.076577
15-21	.017546	.016244	.032494	.054715
22-30	.011805	.009597	.054941	.045186

RUN NO. 84A 40M 11-06-62 1246-1401 EST

GROSS STATISTICS

10 AS SC	WIND SPEED	5.89 M/SEC	WIND DIRECTION 334 DEG
NEAR NEUTRAL	SIGMA A	11.3 DEG	SOLAR RADIATION 0.14
LAND	SIGMA E	6.9 DEG	NET RADIATION 0.06

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.17932E 01	0.11593E 01	0.52862E 00	0.90827E 00
V	0.13750E 01	0.72478E 00	0.43415E-00	0.49611E-00
W	0.42859E-00	0.39752E-00	0.33620E-00	0.20452E-00
T	0.54719E-01	0.62205E-02	0.25713E-02	0.51981E-02
E	0.17984E 01	0.11408E 01	0.64950E 00	
GUSTINESS RATIOS				
U	0.22735	0.18280	0.12344	0.16181
V	0.19909	0.14454	0.11187	0.11958
W	0.11115	0.10704	0.09844	0.07678
COVARIANCES				
U,V	-0.25076E-01	0.90105E-01	0.82977E-02	0.85257E-01
U,W	-0.38478E-00	-0.27787E-00	-0.14704E-00	-0.22906E-00
U,T	-0.11635E-00	-0.58360E-01	-0.18050E-01	-0.52098E-01
V,W	-0.11087E-01	-0.50771E-01	-0.25406E-01	-0.38436E-01
V,T	0.91114E-01	-0.38741E-02	-0.42479E-03	-0.40080E-02
W,T	0.18750E-01	0.19956E-01	0.11433E-01	0.15023E-01
WE	0.10108E-00	0.79493E-01	0.39518E-01	
NORMALIZED COVARIANCES				
U,V	-0.01597	0.09830	0.01732	0.12701
U,W	-0.43891	-0.40933	-0.34879	-0.53146
U,T	-0.37142	-0.68724	-0.48960	-0.75821
V,W	-0.01444	-0.09459	-0.06650	-0.12066
V,T	0.33217	-0.05770	-0.01271	-0.07893
W,T	0.12244	0.40130	0.38884	0.46075

RUN NO. 84A 40M 11-06-62 1246-1401 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.47920 10E 00	0.42166 10E 00	0.36873 10E-01	0.38203 10E 00	0.33407 10E-01	0.29396 10E-01
0	.017183	-.348901	-.489507	-.066620	-.012480	.388737
1	.017856	-.336038	-.457109	-.056674	-.014604	.350883
2	.016612	-.298298	-.394380	-.037262	-.015573	.285053
3	.012917	-.249730	-.328759	-.019292	-.015044	.221460
4	.015212	-.195496	-.266939	-.007257	-.017783	.167365
5	.010974	-.146005	-.211245	-.004059	-.021511	.122830
6	.007361	-.098288	-.161067	-.009117	-.023284	.082409
7	.000162	-.050297	-.116369	-.015164	-.023303	.042030
8	-.003015	-.005254	-.079553	-.015150	-.021702	.006369
9	-.002947	.034923	-.042422	-.012320	-.021890	-.024287
10	.004295	.060589	-.006657	-.006106	-.021573	-.048471
11	.010135	.074611	.018029	.002392	-.019472	-.068826
12	.016474	.088606	.035705	.011835	-.016374	-.085629
13	.017064	.099336	.053336	.014216	-.020188	-.100146
14	.013914	.109778	.071253	.006620	-.024931	-.105815
15	.012233	.122570	.090445	.000123	-.023653	-.110339
16	.018977	.129291	.104542	-.004092	-.022453	-.113083
17	.022638	.132737	.111001	-.005074	-.023644	-.117907
18	.018899	.132089	.118985	-.000900	-.018707	-.122921
19	.016609	.128156	.130055	.010425	-.010418	-.127045
20	.010024	.128458	.143304	.024350	-.005159	-.129363
21	.003635	.131014	.150631	.030799	.003869	-.125742
22	-.001041	.122772	.154671	.034153	.009720	-.118232
23	-.007722	.114740	.162408	.023609	.014044	-.111639
24	-.015631	.105387	.162169	.004682	.021035	-.106292
25	-.021666	.099596	.153718	-.002729	.036670	-.097985
26	-.024325	.084097	.144472	-.001246	.049040	-.088308
27	-.025452	.059185	.130034	.000049	.054885	-.076254
28	-.025525	.040513	.118608	-.002772	.057074	-.064479
29	-.025204	.025892	.105753	.003127	.057740	-.050841
30	-.027870	.001190	.087857	.012103	.059682	-.030023
31	-.030890	-.023203	.067109	.013271	.056521	-.005426
32	-.033404	-.044823	.047693	.020392	.049204	.022534
33	-.031625	-.061532	.031815	.023309	.038874	.044756
34	-.026969	-.072735	.017768	.017065	.029337	.055850
35	-.021951	-.080381	-.001326	.011597	.022278	.065904
36	-.016529	-.082206	-.017919	.011552	.017537	.074001
37	-.011801	-.080290	-.029028	.015773	.014764	.080652
38	-.006204	-.072285	-.030310	.017428	.018720	.081878
39	-.003600	-.066499	-.026556	.010949	.023023	.079064
40	-.001986	-.060434	-.022605	.004012	.024132	.075233
41	.000892	-.052053	-.022945	-.006052	.021742	.070568
42	.005510	-.044083	-.025926	-.006243	.023765	.066167
43	.009479	-.025952	-.027472	-.004234	.024750	.056512
44	.021708	-.007904	-.028095	.000138	.021278	.039365
45	.030603	.006971	-.025879	.006894	.011356	.023110
46	.029955	.022205	-.024060	.008979	-.001343	.013292
47	.028475	.025421	-.022142	.006972	-.013091	.008815
48	.025741	.028024	-.018979	.010421	-.018892	.007488
49	.024855	.031885	-.011176	.011185	-.023785	.005071
50	.029543	.032394	-.008932	.011594	-.026269	.000546
51	.031788	.029665	-.010443	.009232	-.029949	-.006292
52	.037590	.026036	-.011578	.003509	-.033349	-.008811
53	.043554	.022687	-.014566	.001047	-.043215	-.003553
54	.048830	.016581	-.015260	-.003665	-.055943	.002683
55	.043759	.004769	-.014086	-.010733	-.061545	.007278
56	.036657	-.001018	-.011557	-.014198	-.061560	.009165
57	.027309	.002915	-.003651	-.019215	-.061122	.007383
58	.020809	.010612	.006773	-.024395	-.054384	-.002670
59	.016752	.014459	.009654	-.026945	-.041115	-.012054
60	.013563	.014056	.006070	-.028945	-.028200	-.021505

RUN NO. 84A 40M 11-06-62 1246-1401 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.47920 10E 00	0.42166 10E 00	0.36873 10E-01	0.38203 10E 00	0.33407 10E-01	0.29396 10E-01
1	.019404	-.023129	-.032548	-.001656	.005943	.006685
2	.026394	-.037609	-.049598	.004265	.017484	.016043
3	.034051	-.046401	-.059831	.017979	.029758	.021453
4	.044537	-.053178	-.067376	.037223	.042925	.020189
5	.050328	-.054691	-.070543	.052195	.051713	.017562
6	.054676	-.051723	-.071877	.058078	.059112	.018513
7	.056461	-.050843	-.072729	.059625	.062125	.019729
8	.055902	-.053718	-.075285	.058030	.057825	.015708
9	.056878	-.054478	-.077606	.054123	.052986	.007451
10	.059346	-.057834	-.083700	.048558	.052025	-.003921
11	.067770	-.060386	-.084696	.045087	.046971	-.009080
12	.077671	-.051457	-.085072	.046577	.043116	-.009995
13	.078432	-.041481	-.083104	.048515	.039702	-.005967
14	.077133	-.041582	-.077100	.046938	.042071	-.005212
15	.075945	-.040420	-.072036	.044454	.046480	-.009325
16	.072767	-.047086	-.070163	.043718	.050281	-.018651
17	.063511	-.049059	-.070627	.039341	.048588	-.028283
18	.054057	-.045287	-.068892	.033075	.045833	-.037424
19	.043175	-.039201	-.058690	.024332	.047790	-.039974
20	.037395	-.027705	-.047378	.012349	.052297	-.036059
21	.027343	-.014000	-.040977	-.002329	.053210	-.027162
22	.018819	.001307	-.031959	-.011021	.046944	-.023858
23	.006591	.014387	-.022168	-.010621	.038006	-.014480
24	-.000950	.023735	-.012394	-.006291	.030646	-.001035
25	-.008405	.027606	-.001122	-.003521	.023708	.006152
26	-.015147	.026476	.007057	-.006729	.014063	.006096
27	-.027625	.022780	.012436	-.015139	.004047	.006985
28	-.039380	.019918	.019552	-.020529	-.005784	.001426
29	-.047128	.020310	.024413	-.024812	-.016593	-.007226
30	-.056104	.022668	.028076	-.025499	-.024401	-.012925
31	-.060639	.019399	.030892	-.021899	-.026461	-.017571
32	-.061350	.008918	.029194	-.030716	-.027725	-.017234
33	-.060869	-.003795	.026280	-.039858	-.032922	-.013485
34	-.059275	-.012519	.022236	-.043492	-.040724	-.007806
35	-.051873	-.017204	.017940	-.045704	-.051785	-.003701
36	-.042388	-.021398	.017206	-.042849	-.057104	.000715
37	-.031281	-.020969	.019791	-.043473	-.058170	.000741
38	-.017311	-.021170	.020361	-.046182	-.053901	-.001856
39	-.005534	-.028677	.018307	-.046218	-.048629	-.005626
40	.003915	-.034507	.019901	-.048243	-.048844	-.004982
41	.005110	-.032616	.021991	-.045638	-.045668	.001064
42	.006374	-.026344	.021741	-.037222	-.036866	.008706
43	.005769	-.017375	.020039	-.028367	-.026570	.012605
44	.001665	-.014804	.018633	-.020351	-.014616	.011829
45	-.001123	-.010692	.020102	-.012952	-.003821	.010507
46	-.003139	-.005562	.020220	-.005546	-.002103	.013320
47	-.001038	-.002744	.019812	.004386	.000331	.019195
48	-.004358	.001831	.016900	.013746	.005086	.024573
49	-.013549	.007516	.014783	.019182	.008387	.024222
50	-.022626	.010151	.013264	.018590	.006981	.022445
51	-.031074	.015872	.011508	.013852	.005491	.024174
52	-.036020	.024933	.013159	.005978	.006368	.022992
53	-.033834	.031788	.015284	.004728	.009764	.022508
54	-.029610	.039360	.011671	.007819	.006272	.018122
55	-.024269	.047703	.008869	.008945	-.001167	.015514
56	-.017112	.054149	.006523	.011461	-.004633	.013854
57	-.010271	.059778	.007058	.022097	-.006028	.011200
58	-.003348	.063350	.003030	.026618	-.008864	.015595
59	.000780	.064770	.001218	.031878	-.010671	.021961
60	.003196	.062909	-.001954	.038956	-.008717	.022938

RUN NO. 84A 40M 11-06-62 1246-1401 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	
	0.52891 10E 00	0.43416 10E 00	0.33616 10E 00	0.25706 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.845065	.827685	.792745	.877436
2	.658135	.608213	.546233	.713338
3	.503553	.440177	.376414	.569239
4	.380908	.304619	.262566	.447814
5	.292360	.194946	.177145	.344007
6	.206470	.125295	.102957	.262926
7	.128086	.084402	.030824	.194205
8	.060022	.055653	-.035856	.137034
9	.001877	.027479	-.084388	.084184
10	-.046374	-.000808	-.113662	.030778
11	-.084710	-.031812	-.137552	-.017866
12	-.116847	-.063967	-.160720	-.054419
13	-.148509	-.093488	-.188035	-.084748
14	-.170604	-.119707	-.207517	-.115252
15	-.191130	-.136299	-.215103	-.146142
16	-.206479	-.147664	-.211272	-.173115
17	-.214184	-.162371	-.190991	-.200249
18	-.221147	-.176567	-.178269	-.226591
19	-.228504	-.194797	-.174677	-.249067
20	-.227660	-.210783	-.164762	-.267501
21	-.228057	-.216114	-.151694	-.276683
22	-.223946	-.221062	-.150025	-.281336
23	-.222488	-.218670	-.152755	-.288370
24	-.210933	-.217484	-.149378	-.294463
25	-.185907	-.219219	-.138044	-.296696
26	-.166610	-.217430	-.128192	-.291838
27	-.143949	-.216975	-.111608	-.279342
28	-.117278	-.213187	-.098934	-.264559
29	-.096481	-.202766	-.088168	-.246407
30	-.073270	-.189949	-.071339	-.216388
31	-.041616	-.158482	-.039969	-.175152
32	-.015786	-.111804	-.011806	-.130882
33	.011061	-.067300	.000136	-.089783
34	.036953	-.033890	.003939	-.055619
35	.053159	-.017649	.015721	-.021234
36	.058485	-.011744	.017739	.008636
37	.053317	-.003738	.023334	.031429
38	.044052	.005425	.033436	.038080
39	.034105	.021697	.055248	.035672
40	.031179	.033093	.070820	.038061
41	.027683	.046006	.069871	.042051
42	.014237	.061710	.058561	.043003
43	-.003767	.082603	.036532	.046752
44	-.025787	.101974	.013132	.055487
45	-.044325	.110785	.001070	.062046
46	-.054885	.107587	-.009153	.062763
47	-.059282	.102105	-.012287	.062896
48	-.057358	.103744	-.004805	.065658
49	-.051590	.095623	-.003749	.067418
50	-.039901	.082721	-.011657	.068307
51	-.032941	.067484	-.015578	.067748
52	-.022438	.051311	-.013045	.067201
53	-.010743	.032126	-.001768	.065363
54	.003766	.016018	.009107	.059992
55	.021720	.006091	.010569	.056598
56	.031195	.002805	.010441	.050809
57	.025984	-.002479	.011761	.041584
58	.016234	-.011803	.015804	.025331
59	.018738	-.021666	.004179	.012401
60	.024337	-.029427	-.008634	.005129

RUN NO. 84A 40M 11-06-62 1246-1401 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-02
0	.062671	-.015450	-.043646	-.023799	-.015024	.008884
1	.390153	-.132500	-.306212	-.340952	-.519599	.084179
2	.388413	-.235953	-.365102	-.366423	-.517127	.167032
3	.002762	-.366215	-.378968	-.291776	-.026881	.248264
4	-.300319	-.280421	-.220508	-.192351	.313726	.174086
5	.009586	-.126023	-.110068	-.141275	.146788	.085172
6	.211880	-.099646	-.099667	-.076987	-.080908	.077532
7-8	.151043	-.075986	-.076648	-.103581	-.028253	.054944
9-11	.008315	-.024325	-.033032	-.053374	.033510	.026072
12-15	-.031275	-.005044	-.018070	-.165910	.002362	.015507
16-20	-.001968	-.006769	-.010712	-.037944	-.002891	.009012
21-27	.011416	-.000661	-.003684	-.009541	-.005114	.005380
28-36	-.000924	.000144	-.002116	-.006279	.005609	.001859
37-47	-.008646	-.000061	-.001127	-.001982	.005969	.001253
48-60	.002014	.000461	-.000467	-.000738	.000205	.000655

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	.078510	-.822793	-.108932	.271695	.653847	-.236125
2	.137221	-.764745	-.130037	.801666	.916349	-.126716
3	.146010	-.929797	-.114994	.863334	.678320	.076734
4	.048320	-.698696	-.051122	.344469	.067294	.179973
5	-.021964	-.084098	-.011128	.163126	.071863	.231542
6	-.001693	.030152	-.007879	.077383	.242614	.202390
7-8	.007093	-.224543	-.017317	.001415	.135393	.006583
9-11	.012745	-.066570	-.008728	.013330	-.026628	.071755
12-15	.000155	-.083655	-.007788	-.102887	-.037646	-.028513
16-20	-.000195	.005217	-.001135	-.042485	-.007972	.027690
21-27	.002079	-.012400	-.001907	-.014520	-.004008	-.008899
28-36	.001818	-.009661	-.001416	.004744	-.008344	-.007098
37-47	.001168	-.001487	-.000538	-.001701	-.000359	-.000906
48-60	-.000195	.002559	-.000035	-.000840	-.003172	.000245

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.087580	.050513	.017284	.047087
1	.622689	.472102	.228260	.387518
2	.752023	.638875	.359669	.482049
3	.891739	.654751	.470038	.477090
4	.661553	.378565	.382947	.258885
5	.364376	.257551	.272398	.138703
6	.291959	.254643	.231001	.138351
7-8	.231858	.206440	.155527	.107332
9-11	.134380	.153254	.099761	.064938
12-15	.085143	.097695	.070952	.037537
16-20	.057986	.045419	.049729	.021639
21-27	.035379	.030130	.034349	.012339
28-36	.018973	.022136	.019498	.007642
37-47	.014795	.012782	.011903	.005056
48-60	.010240	.007533	.008014	.003405

RUN NO. 84A 40M 11-06-62 1246-1401 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
	0.67171 10E 00	0.43130 10E 00	0.68750 10E-01	0.31861 10E 00	0.50787 10E-01	0.32610 10E-01
0	.126924	-.531085	-.757779	-.120637	-.078918	.460688
1	.108384	-.299414	-.603230	-.060477	-.070724	.261750
2	.096276	-.176140	-.435924	-.060232	-.061751	.150099
3	.059777	-.157019	-.322590	-.021689	-.019034	.127485
4	.045381	-.118663	-.208650	-.019393	-.033457	.116302
5	.028510	-.002507	-.071371	-.018306	-.044886	.017446
6	-.014900	.047156	.058643	-.028364	-.030162	-.062610
7	-.070503	.104450	.175601	.005672	-.000336	-.100622
8	-.088993	.145079	.280286	-.000411	.030203	-.147891
9	-.076872	.174957	.340268	.031380	.025787	-.166375
10	-.081966	.196342	.379309	.093199	.066300	-.160825
11	-.081556	.189206	.370071	.090010	.095216	-.129895
12	-.056754	.148920	.318190	.037811	.103230	-.109694
13	-.054067	.096983	.240153	-.005665	.080223	-.068498
14	-.039173	.097269	.190652	.026710	.069563	-.087657
15	-.001345	.072937	.136296	-.006382	.028594	-.061606
16	-.020024	.007390	.101119	.051299	.028270	-.041590
17	-.002142	-.007874	.062477	.034720	.027676	-.031914
18	.023475	-.021846	.011092	.035803	.013756	-.036803
19	.070251	-.084696	-.064412	-.025703	-.037919	.044483
20	.072726	-.063074	-.122597	-.027763	-.042422	.070480
21	.059833	-.002771	-.123075	-.016415	-.040312	.035617
22	.042017	.013509	-.135967	-.006953	-.034405	.001378
23	.000796	.035096	-.135314	.008330	-.025087	-.027929
24	-.000297	-.024395	-.144461	-.024573	-.029786	.038141
25	-.022911	-.058426	-.151826	.037962	-.013487	.076350
26	-.042001	-.047317	-.133845	.012486	-.031195	.098934
27	-.036830	-.048381	-.116986	.014608	-.020848	.099271
28	-.020518	-.006128	-.071938	-.013224	-.005922	.070077
29	-.013105	.017995	-.019808	.026523	.000828	.039391
30	.008422	.001731	.015667	.028637	-.025081	.059027

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	.005844	-.019946	-.006542	-.037130	.004001	.010295
1	.101873	-.244895	-.077343	-.576661	-.076671	.157852
2	.217206	-.376370	-.123593	-.778215	-.160083	.251335
3	.308172	-.452486	-.138281	-.748062	-.149802	.288740
4	.168191	-.284359	-.074444	-.302060	-.010106	.187184
5	.035863	-.097969	-.026821	-.006467	.045686	.089456
6	.012647	-.052932	-.009266	.076021	.011912	.039215
7	-.028834	-.053612	-.005337	.021352	-.017510	.009464
8	-.022494	-.038449	-.010616	-.327699	-.033036	.008904
9-11	.012380	-.053364	-.009658	-.167677	-.015135	.039449
12-14	.023362	-.061384	-.007814	-.071364	-.017752	.046240
15-21	-.005735	-.062255	-.005019	-.035670	.011884	.038133
22-30	.007537	-.035721	-.002502	-.131115	-.004879	.024388

RUN NO. 84A 40M 11-06-62 1246-1401 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
	0.67171 10E 00	0.43130 10E 00	0.68750 10E-01	0.31861 10E 00	0.50787 10E-01	0.32610 10E-01
1	.038070	-.077270	-.077452	.050564	.042048	-.007425
2	.036373	-.081746	-.088374	.002440	.043842	-.024990
3	-.005667	-.050804	-.081152	.000167	.024251	.002780
4	.011557	-.060735	-.093891	-.009887	.002026	.012679
5	.010276	-.014940	-.086414	.069501	.030849	.039846
6	.032851	.005861	-.082794	.107347	.020562	.029996
7	.048869	-.012014	-.085284	.087047	.040152	.026562
8	.053259	-.029303	-.057030	.094334	.056247	.004765
9	.088398	-.011230	-.018158	.101092	.095203	-.017776
10	.051384	.007782	-.012675	.058971	.056196	-.003394
11	.011927	.010950	-.002958	.035821	.030863	.022438
12	-.026213	.037856	-.005186	.005868	.010253	.052428
13	-.066200	.059977	-.002749	.003624	-.010540	.058788
14	-.067117	.064345	.000029	-.017428	-.038605	.048680
15	-.078266	.028132	.005181	-.061254	-.075109	.013297
16	-.084789	.006250	-.029875	-.030114	-.087024	.016017
17	-.098510	-.001494	-.015024	-.046674	-.130939	.016786
18	-.121436	.034365	.007153	-.097699	-.162400	.011647
19	-.132990	.079902	.011445	-.106100	-.175006	.035654
20	-.084974	.066947	.019508	-.062403	-.110737	.014693
21	-.034963	.021568	.023860	-.057486	-.080510	-.011301
22	.008500	-.013858	.019096	-.035267	-.026309	-.029704
23	.047137	-.045421	-.002635	-.040554	-.009239	-.038216
24	.046310	-.052097	.009746	-.002417	-.025346	-.066726
25	.020984	-.050832	.010685	-.033005	-.041854	-.070635
26	.006437	-.063769	.001810	-.012746	-.020022	-.027144
27	.018140	-.070739	-.007482	.013009	.007536	-.042980
28	.008956	-.064935	-.018161	-.040985	.002548	-.039418
29	.009944	-.073732	-.050308	-.053250	.030839	-.016308
30	.039573	-.077774	-.061697	-.030815	.061407	-.015080

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-03
1	-.075638	.290534	-.212913	.058470	-.039311	.602066
2	.139965	-.426994	-.213213	.113248	.148466	.275039
3	.175298	-.955815	-.207509	.079115	.120077	-.105010
4	-.045828	-.617484	-.165654	-.018795	-.061366	.010208
5	-.095736	-.458485	-.110195	-.042754	-.045836	.117669
6	-.012754	-.340573	-.037060	-.032997	.033726	.015605
7	.014551	-.388498	-.011187	-.024984	.026595	-.161555
8	.071517	-.777829	-.030370	-.000307	.041051	-.421237
9-11	.032171	-.254525	-.040170	.016866	.027953	-.077747
12-14	.031920	-.056481	-.021948	.026562	.015434	-.017677
15-21	.013635	-.188111	-.020035	.005737	.003487	.019841
22-30	-.013315	.070930	.003724	.015446	.008201	.068327

RUN NO. 84A 40M 11-06-62 1246-1401 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.90930 10E 00	0.49621 10E 00	0.20458 10E 00	0.51981 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.695389	.602620	.243750	.738336
2	.475987	.365895	.042363	.499728
3	.354338	.192610	.005836	.323284
4	.202506	.119489	.008695	.204833
5	.043686	.048706	-.042050	.057660
6	-.065255	-.079203	-.060072	-.098337
7	-.196104	-.129840	-.063821	-.233419
8	-.303155	-.167235	-.122856	-.348546
9	-.344424	-.184151	-.133490	-.389588
10	-.405214	-.217798	-.158792	-.378434
11	-.449253	-.238355	-.146040	-.344642
12	-.379057	-.227121	-.105668	-.335338
13	-.277663	-.209714	-.076783	-.276294
14	-.214657	-.251947	-.080546	-.224516
15	-.154206	-.193983	-.027120	-.147782
16	-.093969	-.140359	.040042	-.109730
17	-.044802	-.087768	-.016747	-.032537
18	.009583	-.038934	-.053672	.004153
19	.103126	-.020949	.030166	.034301
20	.125898	.036754	.049421	.094105
21	.132122	.060877	.067360	.112669
22	.154618	-.030037	-.048256	.155297
23	.120298	-.032106	-.063318	.160913
24	.110612	-.019775	.046943	.173729
25	.112902	-.007314	.083095	.174195
26	.088716	.021815	.037066	.158980
27	.056371	.057721	.013072	.148191
28	.006834	.097188	.024650	.114383
29	-.015440	.058641	-.025592	.032049
30	-.047512	.063318	.075169	-.038256

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.010727	.065184	.004767	.006506
1	.118941	.667056	.088758	.067997
2	.184470	.813893	.145096	.105472
3	.209638	.790687	.182930	.119610
4	.115403	.470820	.141333	.071112
5	.042985	.289079	.088390	.033468
6	.024617	.276020	.073963	.017001
7	.022979	.217542	.084826	.011308
8	.027243	.152787	.093631	.010818
9-11	.017857	.151429	.088229	.013095
12-14	.017767	.134626	.077756	.009694
15-21	.013973	.071721	.078191	.005329
22-30	.009151	.088977	.078106	.004430

RUN NO. 84A 16M 11-06-62 1246-1401 EST
RUN NO. 84A 40M 11-06-62 1246-1401 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	.687771	.453274	.634111	.653993
1	.525885	.708080	.571184	.548277
2	.370828	.640014	.520078	.513005
3	.362450	.571203	.481616	.510648
4	.318818	.461650	.439497	.430456
5	.165221	.300969	.364008	.284948
6	.168501	.333541	.347246	.248513
7-8	.166783	.353611	.348372	.208657
9-11	.061735	.292938	.289304	.131655
12-15	.061544	.204544	.302520	.226530
16-20	.061733	.161020	.076907	.077796
21-27	.102163	.078205	.123878	.150198
28-36	.126426	.124194	.108343	.133677
37-47	.105923	.107279	.144208	.124993
48-60	.101775	.106695	.124476	.119598

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	.939414	.834356	.807306	.960857
1	.923257	.808867	.795396	.961241
2	.916492	.874250	.793020	.961320
3	.887766	.906095	.788135	.939293
4	.831637	.861491	.733526	.878718
5	.751549	.763497	.646761	.796204
6	.692941	.737539	.660328	.708295
7	.771215	.715832	.589733	.502713
8	.751131	.687394	.551042	.498756
9-11	.306842	.689258	.584394	.475326
12-14	.509874	.539866	.515179	.641775
15-21	.401349	.439500	.392889	.404003
22-30	.226810	.307557	.390974	.393587

RUN NO. 84B 16M 11-06-62 1401-1513 EST

GROSS STATISTICS

10 AS SC	WIND SPEED 5.02 M/SEC	WIND DIRECTION 328 DEG	
NEAR NEUTRAL	SIGMA A 13.7 DEG	SOLAR RADIATION 0.07	
LAND	SIGMA E 5.7 DEG	NET RADIATION 0.02	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.13206E 01	0.77916E 00	0.41090E-00	0.60386E 00
V	0.15486E 01	0.71616E 00	0.47439E-00	0.49910E-00
W	0.23373E-00	0.22206E-00	0.19045E-00	0.10956E-00
T	0.11080E-01	0.13828E-02	0.73929E-03	0.10661E-02
E	0.15514E 01	0.85869E 00	0.53788E 00	
GUSTINESS RATIOS				
U	0.22892	0.17584	0.12769	0.15480
V	0.24789	0.16858	0.13720	0.14073
W	0.09631	0.09387	0.08693	0.06594
COVARIANCES				
U,V	0.83240E-02	-0.19260E-01	-0.76757E-02	-0.25580E-01
U,W	-0.21662E-00	-0.16576E-00	-0.10099E-00	-0.13004E-00
U,T	-0.82608E-01	-0.20772E-01	-0.83265E-02	-0.18046E-01
V,W	0.21608E-01	0.67992E-02	-0.41015E-02	0.50158E-02
V,T	-0.14648E-01	0.48937E-03	0.23707E-03	0.99253E-03
W,T	0.91879E-02	0.44025E-02	0.21250E-02	0.38525E-02
WE	-0.25326E-01	0.11150E-01	0.76845E-02	
NORMALIZED COVARIANCES				
U,V	0.00582	-0.02578	-0.01739	-0.04660
U,W	-0.38991	-0.39850	-0.36102	-0.50558
U,T	-0.68294	-0.63282	-0.47774	-0.71125
V,W	0.03592	0.01705	-0.01365	0.02145
V,T	-0.11183	0.01555	0.01266	0.04303
W,T	0.18055	0.25124	0.17917	0.35646

RUN NO. 848 16M 11-06-62 1401-1513 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.44142 10E 00	0.27974 10E 00	0.17428 10E-01	0.30054 10E 00	0.18724 10E-01	0.11866 10E-01
0	-.017398	-.361248	-.477953	-.013553	.012576	.179069
1	-.019292	-.332998	-.434606	-.016672	.022439	.173787
2	-.022553	-.276287	-.368531	-.017457	.034256	.150241
3	-.029127	-.213003	-.307003	-.012037	.038933	.116911
4	-.027788	-.147037	-.253509	-.009505	.040344	.073784
5	-.022306	-.086297	-.204939	-.007385	.042707	.039588
6	-.016741	-.038857	-.160945	.000606	.043484	.012528
7	-.012709	-.006921	-.130020	.004851	.040780	-.006002
8	-.008765	.018556	-.101176	.004162	.038454	-.013249
9	-.008858	.032741	-.076435	.005810	.037168	-.019469
10	-.013868	.040033	-.045088	.017350	.039755	-.024643
11	-.015705	.051395	-.017823	.025484	.044146	-.032092
12	-.016134	.060422	.006734	.028621	.040284	-.033567
13	-.015095	.065409	.024273	.033012	.029765	-.031929
14	-.010171	.063621	.039685	.028138	.016854	-.029023
15	-.007569	.058054	.055694	.018888	.009244	-.026504
16	-.006024	.053824	.070892	.014504	.005915	-.022362
17	-.009881	.047370	.088776	.015179	.006992	-.018687
18	-.012742	.044736	.101928	.026626	.001773	-.014822
19	-.011540	.052591	.111059	.036329	-.008236	-.016891
20	-.007770	.057921	.115499	.041849	-.016810	-.016621
21	-.003432	.061905	.119322	.044604	-.027951	-.019282
22	.003953	.062432	.121253	.044843	-.036232	-.023397
23	.012222	.060010	.126039	.047568	-.039172	-.022837
24	.017160	.062857	.126741	.046414	-.047084	-.024830
25	.023064	.072843	.129752	.043188	-.050810	-.029808
26	.026416	.083896	.135860	.037377	-.048842	-.038929
27	.028119	.087084	.141212	.025212	-.049228	-.039332
28	.031634	.081626	.136068	.010822	-.050616	-.033856
29	.034038	.066489	.127290	-.001905	-.047308	-.029462
30	.033056	.052709	.115167	-.009629	-.041403	-.027976
31	.031910	.042626	.104453	-.020019	-.036695	-.018305
32	.030407	.031569	.095580	-.031019	-.034235	-.008976
33	.026949	.025175	.081607	-.041105	-.029921	-.002603
34	.022781	.023336	.070555	-.048152	-.031715	.000336
35	.015678	.024571	.055239	-.054534	-.030354	.005259
36	.004776	.021332	.039248	-.049574	-.028913	.006614
37	-.002886	.012653	.032389	-.040659	-.032835	.008309
38	-.005378	.003829	.030789	-.037149	-.035490	.010656
39	-.001730	-.005685	.023846	-.045363	-.037418	.014877
40	.008057	-.007531	.018465	-.056181	-.039734	.014616
41	.017853	-.003009	.014421	-.058102	-.037711	.006506
42	.027943	.005225	.012791	-.057394	-.034612	-.005410
43	.032306	.007067	.021433	-.058470	-.031252	-.015196
44	.034041	.006248	.031180	-.061493	-.029210	-.025134
45	.030330	.005691	.033860	-.061807	-.021828	-.031318
46	.023110	-.004590	.031850	-.063377	-.014970	-.027537
47	.021267	-.021900	.022933	-.064485	-.012894	-.018823
48	.021912	-.033694	.012068	-.064843	-.005428	-.011071
49	.016389	-.047098	.001565	-.059459	.006654	-.009940
50	.009629	-.051891	-.006035	-.043339	.016408	-.010306
51	.003257	-.052861	-.008907	-.021425	.019800	-.009715
52	-.000959	-.052333	-.005727	-.007824	.024912	-.003847
53	-.007394	-.045622	.000925	.003676	.029461	-.000835
54	-.010876	-.032021	.005772	.019222	.029663	-.005956
55	-.013189	-.016767	.016711	.032052	.031262	-.016723
56	-.015065	-.000468	.025700	.038957	.029156	-.018949
57	-.014983	.007883	.026793	.040564	.024503	-.015768
58	-.013762	.010398	.019152	.033761	.018972	-.010397
59	-.009138	.011714	.008315	.024702	.014494	-.002234
60	-.000972	.014249	-.000682	.014893	.009402	.009060

RUN NO. 848 16M 11-06-62 1401-1513 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.44142 10E 00	0.27974 10E 00	0.17428 10E-01	0.30054 10E 00	0.18724 10E-01	0.11866 10E-01
1	-.006514	-.058906	-.034930	.007388	.000586	-.017312
2	-.010156	-.091387	-.058736	.009027	.009227	-.012691
3	-.007067	-.108335	-.075063	.013591	.022011	-.007528
4	-.003722	-.112599	-.081949	.020872	.028635	-.001950
5	-.005292	-.106860	-.083409	.025237	.023138	-.003869
6	-.009520	-.097503	-.084021	.023365	.018291	-.009450
7	-.009636	-.086774	-.087933	.018453	.019037	-.012487
8	-.002840	-.074881	-.091355	.018218	.022085	-.012654
9	.002801	-.066254	-.092013	.019595	.027607	-.012980
10	.003017	-.061758	-.088531	.011019	.029604	-.014476
11	-.000692	-.052790	-.084729	.002776	.030682	-.013446
12	-.003002	-.044926	-.077018	-.003244	.026384	-.015373
13	-.008296	-.039530	-.064855	-.006812	.026748	-.010887
14	-.012839	-.023553	-.061200	-.010934	.029888	-.005452
15	-.014174	-.004689	-.060523	-.012477	.033132	.007264
16	-.012183	.006766	-.061216	-.017480	.035402	.013906
17	-.006570	.007001	-.063223	-.023844	.037748	.027604
18	.003423	.002470	-.063150	-.029451	.041615	.044077
19	.008545	-.000841	-.061672	-.032699	.038520	.051337
20	.003980	-.000908	-.054595	-.028905	.036955	.053628
21	.000712	.007281	-.044178	-.021133	.035446	.059420
22	.003606	.014935	-.035698	-.016341	.033707	.057521
23	.006243	.017846	-.026536	-.010986	.029302	.051987
24	.008593	.023307	-.014196	-.010863	.026973	.050283
25	.013825	.021124	-.002829	-.013751	.028432	.045457
26	.016284	.020871	.011134	-.019237	.024203	.036632
27	.014079	.024047	.026267	-.021417	.019947	.029393
28	.007800	.029561	.034419	-.028076	.014669	.023406
29	-.000696	.037684	.042452	-.037570	.007888	.020685
30	-.009310	.041852	.046712	-.043297	.000089	.015221
31	-.018583	.041265	.044765	-.036982	-.015095	.007253
32	-.027062	.038280	.040600	-.027883	-.036518	.002103
33	-.029703	.028974	.039031	-.022376	-.048483	-.008580
34	-.028763	.025424	.035611	-.020345	-.051996	-.019860
35	-.028977	.028193	.028974	-.021990	-.050915	-.019322
36	-.028766	.031922	.021215	-.018365	-.045814	-.017245
37	-.029264	.029068	.015718	-.012833	-.044209	-.014656
38	-.028618	.015025	.014596	-.007109	-.042735	-.022017
39	-.024584	-.001643	.008484	.000311	-.038623	-.033199
40	-.017940	-.011862	.001731	.007160	-.032530	-.033516
41	-.012708	-.015481	-.001825	.016764	-.030655	-.028152
42	-.006123	-.018997	-.001635	.030375	-.028601	-.022584
43	.001317	-.018736	-.005462	.041859	-.021513	-.021288
44	.007002	-.012175	-.002699	.051950	-.014317	-.021326
45	.013583	-.009319	.007078	.051560	-.009297	-.030312
46	.018064	-.007063	.013601	.047694	-.005099	-.029280
47	.017631	-.006866	.015267	.042406	-.004353	-.018566
48	.017518	-.008971	.010972	.040341	-.007304	-.008550
49	.014953	-.003989	.002903	.042898	-.009414	.002910
50	.010840	-.001552	-.004800	.046429	-.010678	.010738
51	.007734	-.001206	-.010981	.040733	-.011457	.013203
52	.007787	-.005894	-.013962	.033003	-.011379	.015459
53	.015605	-.011209	-.017244	.030591	-.004040	.020494
54	.020736	-.013504	-.017739	.027872	.005681	.022359
55	.023917	-.005000	-.013336	.015854	.010796	.019569
56	.023369	.010310	-.009013	.001044	.011300	.021200
57	.021894	.020628	-.004840	-.005935	.010351	.024610
58	.022124	.030509	-.003670	-.010754	.015665	.022463
59	.017804	.030886	-.003192	-.011766	.021571	.016192
60	.010699	.025232	.001448	-.019061	.028194	.002503

RUN NO. 84B 16M 11-06-62 1401-1513 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.41086 10E 00	0.47425 10E 00	0.19046 10E 00	0.73925 10E-03
0	1.000000	1.000000	1.000000	.000000
1	.851714	.863701	.755352	.835510
2	.664045	.673319	.477380	.652372
3	.513572	.518777	.281027	.511567
4	.389243	.398186	.146868	.394629
5	.298161	.295740	.056014	.298111
6	.225814	.211089	-.010117	.222939
7	.161122	.144153	-.063755	.164824
8	.101116	.093917	-.101526	.101407
9	.046202	.054463	-.120814	.052983
10	-.002827	.020992	-.123162	.006348
11	-.045736	-.015236	-.130605	-.039340
12	-.079101	-.048060	-.126555	-.075011
13	-.107531	-.082416	-.117011	-.096952
14	-.133705	-.117394	-.103751	-.113865
15	-.151185	-.147151	-.094131	-.128354
16	-.162852	-.168722	-.067455	-.141713
17	-.171882	-.190094	-.057468	-.163353
18	-.181045	-.217153	-.064827	-.177544
19	-.193785	-.246541	-.073179	-.189496
20	-.204338	-.275064	-.088040	-.201796
21	-.212269	-.297572	-.101378	-.203907
22	-.218819	-.319791	-.095576	-.200054
23	-.229294	-.333569	-.096760	-.202451
24	-.230022	-.333935	-.102245	-.194022
25	-.225494	-.325584	-.114117	-.192483
26	-.227273	-.305019	-.120456	-.206215
27	-.230930	-.273151	-.117171	-.212351
28	-.225292	-.238986	-.108247	-.204390
29	-.210025	-.201600	-.087932	-.195498
30	-.185660	-.159182	-.057598	-.179569
31	-.149539	-.113654	-.031726	-.155771
32	-.109402	-.074207	-.020018	-.132233
33	-.075512	-.042349	-.009188	-.113011
34	-.046319	-.020576	.002712	-.089370
35	-.025195	-.006818	.005354	-.061596
36	-.001762	.007652	-.005952	-.035722
37	.015917	.020224	-.006609	-.009914
38	.020542	.036110	-.004522	.000792
39	.022152	.051820	-.004204	.004221
40	.023219	.064363	-.006616	.009328
41	.023821	.071857	-.006575	.015495
42	.022128	.073891	-.015093	.009664
43	.012682	.077813	-.032137	-.000463
44	.010138	.076647	-.037439	-.014533
45	.009727	.070470	-.043448	-.020316
46	.013028	.066657	-.030400	-.026779
47	.021070	.065614	-.000992	-.025828
48	.025622	.065244	.011732	-.021287
49	.029047	.062412	.030328	-.012009
50	.029198	.055945	.047279	-.004467
51	.028048	.039548	.043666	-.004336
52	.023583	.018088	.036632	-.012501
53	.014825	-.003380	.022683	-.023245
54	.003465	-.021726	.014437	-.032264
55	-.016822	-.035465	.001520	-.045982
56	-.033429	-.047874	-.007647	-.061330
57	-.039171	-.064661	-.002253	-.064217
58	-.042640	-.079120	-.008274	-.051986
59	-.041078	-.081295	-.015415	-.034696
60	-.043570	-.075304	-.010081	-.021391

RUN NO. 84B 16M 11-06-62 1401-1513 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	-.054741	-.011300	-.022685	.072854	.024817	.038356
1	-.626486	-.115441	-.172622	.446785	.447477	.269297
2	-.484481	-.151127	-.177397	-.081806	.424029	.290820
3	-.113224	-.157160	-.151505	-.528368	.145666	.323619
4	.118659	-.115642	-.083415	-.187658	-.085011	.264108
5	.068903	-.097155	-.047878	.073883	-.132213	.212647
6	-.154765	-.093563	-.042031	-.008329	-.086716	.238121
7-8	-.040557	-.066970	-.027374	-.122136	-.004389	.159108
9-11	.009187	-.030289	-.018466	.059530	-.021744	.071311
12-15	.042929	-.015814	-.010199	-.027315	-.017597	.033424
16-20	.028268	-.002481	-.005027	.023895	-.015884	-.002448
21-27	.005161	-.002319	-.002923	-.004170	-.010127	-.003087
28-36	-.007241	-.001602	-.001897	.008429	-.007028	-.002268
37-47	-.001621	-.000439	-.000876	.005046	-.002657	.001414
48-60	.004134	-.000349	-.000717	-.001613	-.001922	-.002456

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	-.197465	-.143902	-.485707	-.337554	.249778	.158816
2	.000894	-.481016	-.602585	-.119117	.350352	.099365
3	-.020623	-.825968	-.604690	.263321	.195155	-.078745
4	-.230871	-.702586	-.286876	.223069	-.070076	-.180626
5	-.041860	-.489128	-.078211	.124021	-.019597	-.067384
6	.162415	-.473580	-.128111	.208286	.088673	.032689
7-8	-.071152	-.300112	-.145435	.036845	.012873	.044573
9-11	-.059069	-.159107	-.018884	-.001257	.022577	-.016503
12-15	.023152	-.131670	-.041351	-.014512	.010025	-.007165
16-20	-.033725	-.022427	-.014629	.004489	-.009321	-.013225
21-27	-.027252	-.017396	-.002496	-.005463	-.017877	-.011770
28-36	.009244	-.010058	-.001979	.012305	-.002274	-.003413
37-47	.001589	-.008706	-.001589	.002672	.000911	-.005047
48-60	.000511	-.002986	-.000879	.001284	-.000679	-.001319

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.072226	.063333	.011333	.013875
1	.569580	.610659	.118364	.108179
2	.672850	.826860	.155442	.119831
3	.674198	.866219	.181327	.115234
4	.413401	.466652	.158406	.072631
5	.259581	.220404	.138290	.048143
6	.249235	.233593	.143752	.044262
7-8	.171480	.241662	.125326	.029037
9-11	.103846	.129012	.070494	.019113
12-15	.072371	.082838	.049650	.012411
16-20	.043982	.042884	.031329	.007594
21-27	.024136	.030177	.021547	.004694
28-36	.015314	.017240	.012503	.003353
37-47	.011291	.009240	.008530	.002282
48-60	.006467	.005955	.005829	.001651

RUN NO. 84B 16M 11-06-62 1401-1513 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
	0.54922 10E 00	0.25742 10E 00	0.25368 10E-01	0.23406 10E 00	0.23066 10E-01	0.10811 10E-01
0	-.046576	-.505173	-.711389	.021429	.043030	.356349
1	-.038626	-.242233	-.505059	.041887	.047253	.211679
2	-.034798	-.180573	-.345776	.032139	.008759	.170181
3	-.004772	-.105472	-.204212	-.061847	-.023998	.125401
4	.001503	-.053809	-.102996	-.102045	-.034149	.069128
5	-.006462	-.043296	-.012322	-.060326	-.008522	.016676
6	-.002583	.025374	.053867	.014011	-.009377	-.007718
7	-.035964	.039683	.101061	.078614	.016950	-.039392
8	-.011780	.072979	.135887	.102884	-.029903	-.074179
9	.026531	.102800	.167867	.069352	-.065249	-.117713
10	.035634	.122543	.188232	.022247	-.084267	-.102965
11	.080705	.141087	.213701	-.024487	-.107548	-.094964
12	.104523	.125989	.191898	-.060578	-.086312	-.069043
13	.068569	.143499	.160258	-.083634	-.083562	-.060459
14	.017256	.136784	.159469	-.063744	-.016326	-.083346
15	.025505	.112549	.102337	-.029251	.019569	-.070070
16	.033210	.099942	.057362	.009188	.046972	-.105201
17	-.034158	.054564	-.016821	.088877	.090835	-.056708
18	-.059428	-.004865	-.046830	.089230	.109915	-.046055
19	-.100553	-.040536	-.054873	.097297	.162248	-.011302
20	-.110558	-.019306	-.022518	.044551	.174417	.001933
21	-.068061	-.043840	.000185	-.030065	.128535	.025020
22	-.017600	-.001085	.056175	-.078195	.101257	.018907
23	.022002	-.007359	.131713	-.111932	.046034	.004943
24	.017641	-.008888	.145203	-.049625	.009064	.020321
25	.019226	-.033579	.151087	-.022357	-.000637	.011552
26	-.014287	.014385	.120522	.021493	.017102	-.016975
27	-.065999	-.024879	.082794	.072618	.045587	-.022875
28	-.057842	-.040112	.018761	.056026	.005214	.036891
29	.000912	-.052138	.001165	.016371	.001400	.050446
30	.029533	-.016895	.032513	-.035036	-.029862	.000384

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	-.000547	-.012132	-.036819	.019790	-.048922	.065121
1	-.008345	-.160057	-.292380	.010929	-.536799	.628600
2	-.081394	-.214552	-.320942	-.046665	.116189	.744144
3	-.123582	-.205363	-.345974	-.040672	.800579	.689310
4	.007377	-.097418	-.225770	-.238531	.162010	.396900
5	.076512	-.048343	-.096723	-.287972	-.364260	.246719
6	-.020216	-.060618	-.097817	.524932	.027254	.145100
7	-.057200	-.051452	-.090180	.955398	.258563	.036835
8	-.043835	-.035307	-.054940	.476052	.289597	.063508
9-11	-.004580	-.038195	-.041307	.065661	.143581	.098844
12-14	-.000584	-.029908	-.028625	-.183177	-.020326	.030834
15-21	.007356	-.024226	-.019093	-.104497	-.022392	.075032
22-30	-.008096	-.040505	-.020590	.007506	-.024807	.083289

RUN NO. 848 16M 11-06-62 1401-1513 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
	0.54922 10E 00	0.25742 10E 00	0.25368 10E-01	0.23406 10E 00	0.23066 10E-01	0.10811 10E-01
1	-.021089	-.065544	-.092461	-.008442	.013120	.004865
2	-.017919	-.006060	-.113278	-.038056	.021019	.065730
3	-.016176	-.038065	-.085340	-.033246	-.024646	.026133
4	-.037971	-.049927	-.092791	.004165	-.055739	-.036822
5	-.004827	-.078634	-.093867	.054619	-.046678	-.025623
6	-.024740	-.046889	-.071210	-.004551	-.054548	-.045724
7	-.010261	-.093027	-.080989	.014554	-.053163	-.032513
8	-.044864	-.063986	-.041025	.001422	-.088894	-.013185
9	-.017738	.030869	-.069950	-.034798	-.034388	.077928
10	.034487	.055290	-.058822	-.058358	.045623	.049196
11	.097288	.096538	-.043313	.015995	.122935	.117238
12	.083239	.058306	-.010335	.014280	.080230	.092053
13	.033027	.052140	.011331	-.021211	.026982	.031966
14	.025252	.048016	.004462	-.003175	.009861	.032991
15	.027908	.016657	.008232	.058982	.004461	.027234
16	-.008455	.024827	.014372	.056214	-.015811	.027790
17	.010496	.046162	.010140	.055383	-.000889	.027225
18	.046639	.053870	-.021811	.049601	.053508	.080339
19	.057935	.031273	.009112	.017328	.093023	.011966
20	.073359	-.008067	.014822	.053716	.099623	-.020227
21	.062023	-.021288	.055070	.028693	.043014	-.046546
22	.007294	-.056790	.055212	.002292	.007931	-.088923
23	-.029673	-.072145	.073183	-.007644	-.001120	-.140839
24	-.006580	-.107267	.053003	.031944	.003782	-.108739
25	.001332	-.128728	.035362	.053787	-.028427	-.118491
26	-.017281	-.073314	.010596	.034599	-.044597	-.091936
27	-.038778	-.008601	-.012341	.009033	-.019223	-.015609
28	.014064	.042612	.014443	-.034649	.033605	.004447
29	.000191	.044249	.015342	-.083106	.026429	.048476
30	-.042692	.063053	.027185	-.102686	-.039074	.094387

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	.918301	.140983	-.881552	.197405	.159286	.254172
2	-.231758	-.247414	-.973171	-.135461	-.305403	.112650
3	-.869047	-.831169	-.802444	-.107816	-.504148	-.174844
4	-.665698	-.593911	-.521627	.138826	-.325365	-.137929
5	-.313719	-.152946	-.315635	.078759	-.101719	.008762
6	.369147	.142783	-.197205	-.180602	.365563	.105421
7	.525892	.390913	-.337066	-.254519	.542601	.255975
8	-.324087	.130449	-.293486	-.203950	.062381	.173898
9-11	-.276368	-.190414	-.116631	-.120065	-.048441	.018647
12-14	.187049	-.002456	-.182617	.019667	.208139	.014728
15-21	-.134470	-.177832	-.063968	.070582	-.052592	-.058135
22-30	.091727	-.108577	.018325	.047418	-.007147	-.000121

RUN NO. 848 16M 11-06-62 1401-1513 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.60403 10E 00	0.49938 10E 00	0.10971 10E 00	0.10654 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.620530	.573545	.233595	.640875
2	.396164	.225796	.129875	.434728
3	.210431	.085571	.008921	.244954
4	.081472	.017367	-.091275	.117942
5	-.029720	-.074949	-.091588	.003635
6	-.143202	-.155487	-.100531	-.069835
7	-.182802	-.068303	-.043206	-.100351
8	-.223872	-.044719	-.085698	-.142099
9	-.227570	-.095690	-.047071	-.136640
10	-.231949	-.106678	-.089404	-.190084
11	-.267427	-.168009	-.070073	-.257834
12	-.249897	-.206378	-.112925	-.227294
13	-.202619	-.192479	-.164562	-.167640
14	-.191480	-.142090	-.130801	-.181908
15	-.105086	-.064360	-.097863	-.118272
16	-.032169	-.082505	-.063807	-.102065
17	.079719	-.071239	.028263	-.035871
18	.105620	.004156	.097182	-.011624
19	.086724	.039276	.017040	-.015934
20	.032228	-.000515	-.031427	-.058600
21	.003782	-.012979	-.015231	-.060486
22	-.076887	.022625	-.037583	-.079595
23	-.122227	.060221	-.017471	-.158257
24	-.136960	.030557	.008274	-.151984
25	-.088252	.009715	.099302	-.160459
26	-.066485	-.004986	.026885	-.122402
27	-.015594	.013245	.076203	-.101276
28	.024048	-.033489	.134517	-.049909
29	.054084	-.120711	.126085	-.074941
30	.029814	-.150543	.000537	-.088992

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-02	10E-03
0	.006876	.068488	.023085	.023084
1	.068907	.506159	.509328	.173110
2	.089572	.593700	.786074	.172382
3	.107814	.620223	.894924	.168360
4	.076604	.429366	.672957	.116817
5	.036257	.338436	.553716	.064673
6	.034635	.369477	.705991	.059443
7	.033619	.373017	.751063	.056946
8	.018359	.290509	.477565	.041327
9-11	.014567	.144800	.394579	.022871
12-14	.013358	.158140	.288009	.021634
15-21	.008668	.106382	.361209	.014373
22-30	.010328	.071312	.495161	.017055

RUN NO. 848 40M 11-06-62 1401-1513 EST

GROSS STATISTICS

10 AS SC	WIND SPEED 5.56 M/SEC		WIND DIRECTION 332 DEG
NEAR NEUTRAL	SIGMA A 11.6 DEG		SOLAR RADIATION 0.07
LAND	SIGMA E 6.4 DEG		NET RADIATION 0.02

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.15454E 01	0.90745E 00	0.48181E-00	0.69564E 00
V	0.13192E 01	0.57493E 00	0.38628E 00	0.39941E-00
W	0.33047E-00	0.30333E-00	0.[illegible]031E-00	0.16196E-00
T	0.99064E-02	0.16021E-02	0.[illegible]75079E-03	0.13259E-02
E	0.15975E 01	0.89290E 00	0.56421E 00	
GUSTINESS RATIOS				
U	0.22359	0.17133	0.12484	0.15001
V	0.20657	0.13637	0.11178	0.11367
W	0.10339	0.09906	0.09176	0.07238
COVARIANCES				
U,V	0.10426E-00	-0.99570E-02	0.27064E-01	-0.22449E-01
U,W	-0.29215E-00	-0.21559E-00	-0.11199E-00	-0.18392E-00
U,T	-0.85627E-01	-0.24541E-01	-0.95952E-02	-0.22128E-01
V,W	-0.15339E-01	-0.39606E-01	-0.38256E-01	-0.28374E-01
V,T	-0.79338E-02	0.24478E-02	-0.47504E-03	0.28342E-02
W,T	0.13095E-01	0.79819E-02	0.44190E-02	0.66071E-02
WE	0.25180E-01	0.63317E-01	0.45229E-0[illegible]	
NORMALIZED COVARIANCES				
U,V	0.07302	-0.01379	0.06273	-0.04259
U,W	-0.40880	-0.41092	-0.31623	-0.54794
U,T	-0.69204	-0.64363	-0.50449	-0.72863
V,W	-0.02323	-0.09484	-0.12064	-0.11156
V,T	-0.06940	0.08065	-0.02789	0.12316
W,T	0.22887	0.36207	0.31610	0.45088

RUN NO. 84B 40M 11-06-62 1401-1513 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.43131 10E 00	0.35410 10E 00	0.19013 10E-01	0.31710 10E 00	0.17027 10E-01	0.13979 10E-01
0	.062804	-.316314	-.504240	-.120435	-.027868	.315998
1	.051945	-.301797	-.476020	-.109424	-.016262	.300191
2	.036327	-.264057	-.428317	-.095379	.000858	.260385
3	.023337	-.221721	-.375674	-.082713	.015883	.214277
4	.014897	-.184997	-.321986	-.070812	.018792	.170527
5	.012073	-.145349	-.268672	-.056671	.015159	.130283
6	.012067	-.105478	-.221206	-.044505	.008432	.094272
7	.011318	-.073283	-.177103	-.033216	.006865	.059781
8	.011424	-.043715	-.136747	-.019759	.007242	.037718
9	.012084	-.013431	-.095173	-.004887	.007813	.021628
10	.012014	.012383	-.053826	.010281	.008979	.008989
11	.009562	.028873	-.012480	.018955	.007414	-.002099
12	.000228	.039059	.021324	.019142	.007114	-.015358
13	-.007811	.043352	.048296	.018247	.005158	-.029794
14	-.011429	.042435	.075423	.017745	-.000169	-.042211
15	-.015021	.042203	.095418	.021892	-.006934	-.051565
16	-.017798	.042696	.111314	.025645	-.007235	-.055036
17	-.024739	.043079	.124318	.023289	-.002767	-.058488
18	-.028761	.051727	.138416	.028211	.008713	-.064237
19	-.033145	.063880	.147442	.031420	.023367	-.068536
20	-.036229	.067109	.148076	.035525	.028509	-.065847
21	-.039505	.078430	.146694	.042903	.029693	-.062963
22	-.041998	.088514	.145037	.047150	.028900	-.068207
23	-.042285	.096683	.143710	.047266	.028230	-.076981
24	-.042125	.098761	.141277	.048241	.030002	-.083804
25	-.047581	.099894	.134732	.051129	.033881	-.082992
26	-.051233	.094270	.132796	.058473	.037923	-.081447
27	-.045260	.089113	.128134	.065487	.038432	-.078964
28	-.035603	.081532	.123453	.060378	.031754	-.075697
29	-.028679	.075463	.116400	.047726	.024686	-.072372
30	-.021778	.071072	.108912	.037395	.015945	-.070384
31	-.016000	.063774	.101314	.031691	.011074	-.070193
32	-.016360	.057113	.086535	.025422	.009773	-.066037
33	-.021089	.052719	.070506	.020403	.012072	-.061356
34	-.022141	.045105	.058033	.015829	.015863	-.057835
35	-.017767	.032755	.050311	.009699	.010392	-.053893
36	-.012808	.020958	.046533	.001925	-.003020	-.040610
37	-.001629	.009603	.039716	.000274	-.018152	-.032677
38	.008594	.005612	.030437	.000374	-.027927	-.032705
39	.013634	.003912	.023434	-.001298	-.030755	-.027695
40	.017573	.004448	.020255	-.000890	-.028676	-.021651
41	.021013	.004624	.021891	.000878	-.023746	-.018074
42	.027215	.007616	.024906	.007116	-.020347	-.018808
43	.033228	.011859	.026905	.014146	-.019746	-.021220
44	.040178	.015741	.034753	.016759	-.018255	-.025686
45	.054349	.020217	.032118	.015361	-.018718	-.024032
46	.068844	.028199	.027389	.009874	-.020183	-.017800
47	.071790	.033311	.022826	.003779	-.019611	-.008034
48	.066418	.034029	.026354	-.005961	-.017846	.001292
49	.061419	.031915	.027456	-.015417	-.022912	.002785
50	.056950	.026195	.026995	-.023058	-.032218	.003299
51	.056998	.013921	.021647	-.031837	-.038754	.007246
52	.060082	.002338	.022625	-.037305	-.041698	.011584
53	.064211	-.005403	.018157	-.042811	-.048824	.019288
54	.060335	-.010381	.013353	-.050813	-.055792	.024680
55	.051675	-.017206	.009471	-.056021	-.060500	.020304
56	.043561	-.021916	.008307	-.061599	-.063177	.012493
57	.035428	-.022215	.006666	-.062317	-.060472	.004247
58	.025574	-.025296	-.000240	-.058926	-.050595	.003597
59	.016797	-.034255	-.007989	-.052360	-.039851	-.002221
60	.009561	-.041109	-.013384	-.040319	-.032552	-.004267

RUN NO. 84B 40M 11-06-62 1401-1513 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.43131 10E 00	0.35410 10E 00	0.19013 10E-01	0.31710 10E 00	0.17027 10E-01	0.13979 10E-01
1	.014231	-.010041	-.020700	-.003929	-.002743	.006175
2	.030774	-.013491	-.035363	-.007489	-.001789	.015990
3	.043220	-.007898	-.046664	-.006722	-.005043	.027330
4	.042719	-.003950	-.057958	-.002129	-.007587	.031720
5	.041934	-.004524	-.068193	-.000860	-.013428	.027824
6	.038992	-.011700	-.071699	-.008699	-.018653	.024432
7	.037559	-.023246	-.073692	-.016363	-.019377	.025595
8	.032415	-.033716	-.074538	-.014178	-.014198	.032595
9	.029037	-.043160	-.077239	-.002859	-.009383	.034806
10	.031991	-.043374	-.080390	.004753	-.008257	.036876
11	.039968	-.040171	-.088544	.009267	-.002604	.039023
12	.044778	-.040738	-.094221	.013202	.005550	.044306
13	.046024	-.040995	-.101498	.017022	.010014	.044810
14	.052640	-.039543	-.103451	.022615	.012031	.039930
15	.060332	-.038422	-.098273	.030021	.014667	.038508
16	.066322	-.032644	-.095529	.036492	.015460	.033729
17	.063628	-.035437	-.093906	.030996	.014756	.018696
18	.052976	-.040695	-.087516	.024785	.010683	.009647
19	.035796	-.044564	-.079250	.028721	.000462	.009656
20	.023118	-.043680	-.069977	.028844	-.007988	.012420
21	.013610	-.029314	-.062582	.032382	-.012475	.016529
22	.007771	-.015015	-.055840	.034041	-.014405	.017400
23	.002797	-.007085	-.053308	.035620	-.011210	.021667
24	-.002718	-.012068	-.054113	.034011	-.006204	.026981
25	-.006153	-.021203	-.051443	.030383	-.001768	.029322
26	-.012523	-.029824	-.046168	.025226	.006243	.021534
27	-.016380	-.030328	-.037401	.019582	.013901	.012802
28	-.018292	-.022600	-.030498	.013409	.022666	.008498
29	-.016932	-.011645	-.023895	.011034	.024242	.011678
30	-.017366	-.002868	-.017396	.005357	.026615	.013839
31	-.020782	-.000915	-.012729	-.002171	.028681	.019217
32	-.025172	.005218	-.007261	-.012653	.031194	.018726
33	-.026246	.009729	-.001897	-.020528	.034122	.015804
34	-.024887	.011696	.003898	-.025615	.029073	.004644
35	-.029870	.010148	.013690	-.027795	.020134	-.009443
36	-.032563	.008245	.023873	-.027952	.015277	-.020674
37	-.032975	.000316	.028606	-.028390	.010130	-.029808
38	-.034117	-.005224	.029188	-.025897	.005828	-.035204
39	-.037371	-.001737	.029591	-.018704	-.001298	-.035434
40	-.042342	.008909	.033923	-.014646	-.011457	-.035020
41	-.041658	.015856	.042665	-.013349	-.023117	-.036508
42	-.035662	.016822	.050869	-.013513	-.031703	-.039585
43	-.025829	.019021	.060352	-.014695	-.030076	-.042139
44	-.021743	.019572	.065634	-.017198	-.024649	-.043407
45	-.026452	.025373	.067547	-.030389	-.022561	-.040479
46	-.031133	.032969	.064751	-.041710	-.022228	-.036613
47	-.031599	.043304	.059790	-.039238	-.021084	-.024951
48	-.025085	.050605	.055202	-.031406	-.012536	-.013452
49	-.016793	.060838	.051696	-.022764	-.008413	-.008054
50	-.005061	.061102	.044797	-.017929	-.006936	-.005156
51	.005254	.057274	.036409	-.017241	-.004422	.000021
52	.011102	.050452	.030382	-.015741	-.003822	.003602
53	.016165	.048320	.027743	-.011191	-.001455	.003852
54	.020268	.050204	.026513	-.008691	.002423	.008335
55	.020088	.050085	.025627	-.005403	.003911	.018418
56	.019380	.041964	.023020	-.000005	-.000753	.022484
57	.017178	.029871	.019004	.007607	-.009668	.023618
58	.017759	.018929	.017065	.020655	-.020286	.018813
59	.016034	.010105	.012975	.029920	-.029542	.011697
60	.013531	.003639	.004801	.029712	-.032962	.007965

RUN NO. 84B 40M 11-06-62 1401-1513 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.48162 10E 00	0.38625 10E 00	0.26034 10E 00	0.75060 10E-03
0	1.000000	1.000000	1.000000	1.000000
1	.844852	.848599	.792734	.875395
2	.668800	.649306	.543322	.727880
3	.525644	.494502	.366451	.594876
4	.411626	.385976	.244287	.484716
5	.325820	.296256	.145643	.393692
6	.257596	.215208	.073349	.308919
7	.195161	.141650	.026276	.224661
8	.140303	.075365	-.011286	.147895
9	.089860	.018873	-.037510	.078586
10	.042068	-.030514	-.054636	.022300
11	-.001882	-.070103	-.067450	-.024784
12	-.041812	-.101019	-.085945	-.070335
13	-.071142	-.127180	-.115391	-.110663
14	-.104004	-.150761	-.141870	-.147451
15	-.129951	-.162873	-.151337	-.167500
16	-.160532	-.168023	-.155798	-.182472
17	-.182763	-.174055	-.151930	-.197087
18	-.199330	-.186232	-.149707	-.216089
19	-.216474	-.209333	-.148807	-.228832
20	-.231945	-.233467	-.144376	-.230648
21	-.238859	-.252414	-.150579	-.228315
22	-.242192	-.263133	-.154056	-.225582
23	-.244169	-.269224	-.155339	-.226316
24	-.245156	-.281037	-.166563	-.222686
25	-.245851	-.298034	-.179343	-.219545
26	-.239629	-.310045	-.183926	-.218032
27	-.223974	-.302401	-.179649	-.214312
28	-.204905	-.281775	-.183145	-.208583
29	-.184701	-.248805	-.173490	-.199760
30	-.164674	-.203004	-.146174	-.181644
31	-.135680	-.149646	-.099387	-.156259
32	-.104293	-.100347	-.071344	-.133944
33	-.086580	-.057074	-.049404	-.115953
34	-.075505	-.023980	-.029952	-.099589
35	-.061503	.008722	-.013119	-.082393
36	-.050979	.043441	.003909	-.061924
37	-.038787	.072821	.018967	-.043317
38	-.026020	.095871	.030891	-.031539
39	-.023269	.103511	.029931	-.022798
40	-.036698	.100194	.024259	-.018984
41	-.050640	.092971	.017058	-.017014
42	-.047394	.091356	.013016	-.013239
43	-.042787	.095507	.007644	-.012614
44	-.043263	.096401	-.006160	-.014366
45	-.050058	.087773	-.017190	-.013359
46	-.058027	.081149	-.019794	-.009628
47	-.054102	.070709	.001654	-.006394
48	-.049902	.054371	.022186	-.009779
49	-.037969	.041446	.032308	-.010244
50	-.025835	.035873	.031524	-.012971
51	-.019133	.031619	.041628	-.015986
52	-.013726	.025123	.051947	-.019243
53	-.001525	.015511	.058457	-.018604
54	.004236	.005622	.062549	-.021171
55	.007959	.002638	.047533	-.024101
56	.016184	-.002789	.031469	-.030430
57	.029488	-.011855	.013818	-.037308
58	.042067	-.028335	.010199	-.034700
59	.055966	-.043912	.000977	-.031950
60	.064789	-.054201	-.004923	-.031608

RUN NO. 848 40M 11-06-62 1401-1513 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	-.080752	-.024362	-.030782	-.004325	.070508	.095655
1	.056083	-.213650	-.217903	-.601613	.156017	.851380
2	.703627	-.233636	-.221660	-.904182	-.078020	.909175
3	.694165	-.214396	-.201779	-.826133	-.097860	.783964
4	.086432	-.131868	-.123119	-.423478	.056693	.498458
5	-.001620	-.085522	-.064556	-.227180	.065525	.357343
6	.008136	-.086265	-.041412	-.284435	-.030889	.292231
7-8	.107370	-.056371	-.021209	-.185225	-.064790	.187273
9-11	.100243	-.010928	-.013411	-.013665	-.022995	.108375
12-15	.095248	-.009422	-.007694	-.022356	-.036849	.041352
16-20	.035420	-.005121	-.002843	-.037442	-.027610	.013343
21-27	.027027	-.002091	-.001513	-.001170	-.012598	.011510
28-36	.007644	-.001472	-.001205	-.013175	-.002261	.001716
37-47	.007655	.000862	-.000644	-.003436	-.001416	.000932
48-60	.003341	-.000034	-.000427	-.005399	-.002493	-.000875

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	.521485	-.709203	-.933422	.327968	.070407	.231406
2	.957075	-.648693	-.854863	.338550	-.000841	.244043
3	.830222	-.304530	-.465561	-.001265	-.083775	.129978
4	.231695	-.066787	-.131939	-.285844	-.022029	.054259
5	-.012823	.036505	-.076351	-.189364	-.000297	.088436
6	-.062548	.056302	-.014229	-.037406	-.114933	.019320
7-8	.155072	.075317	-.025567	-.041796	-.045540	-.019389
9-11	.203825	.026628	-.057351	.040329	.038473	.022939
12-15	.008399	-.048729	-.001688	.002024	.004920	.009764
16-20	.001669	-.048741	.002905	-.023613	.001943	.003183
21-27	.003194	-.002262	-.005384	-.009166	-.005753	-.010574
28-36	-.015386	-.003793	-.004940	.008200	.001835	-.001266
37-47	-.004395	.002108	-.000120	.001662	-.002918	.000304
48-60	.005751	.000922	-.000764	.000153	-.001817	-.000166

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-03
0	.093093	.043925	.017289	.017061
1	.769887	.448336	.224439	.128221
2	.840525	.639574	.311521	.138839
3	.790549	.684710	.336929	.132364
4	.489227	.371603	.233815	.084991
5	.266656	.215114	.170889	.053381
6	.225158	.257514	.174185	.041371
7-8	.187801	.181387	.129028	.025221
9-11	.120973	.088993	.095466	.015276
12-15	.079055	.066288	.059961	.009221
16-20	.050539	.043546	.035861	.006061
21-27	.030070	.028248	.024436	.003771
28-36	.017940	.015354	.016226	.002158
37-47	.014503	.008626	.008655	.001672
48-60	.009849	.006172	.006283	.001273

RUN NO. 848 40M 11-06-62 1401-1513 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
	0.52706 10E 00	0.33591 10E 00	0.30386 10E-01	0.25421 10E 00	0.22995 10E-01	0.14656 10E-01
0	-.042593	-.547515	-.728230	-.111618	.123250	.450817
1	-.066681	-.339972	-.525391	-.021489	.132155	.255138
2	-.088182	-.188527	-.332517	.037763	.121517	.126013
3	-.058685	-.089192	-.183878	.059410	.071306	.041000
4	-.023270	-.044450	-.066143	.051846	.006339	.021578
5	.012563	.013634	.028348	.029845	-.034387	.013147
6	-.020232	.025072	.074408	.006227	-.063747	-.018511
7	-.043568	.050521	.103695	.042988	-.052801	.003352
8	.008754	.075390	.120513	.049320	-.076779	-.025002
9	.045911	.108076	.108563	.038642	-.104788	-.070232
10	.093064	.078758	.133770	-.058082	-.153084	-.084588
11	.117938	.095541	.179930	-.068941	-.142744	-.070829
12	.130498	.086138	.204783	-.032627	-.116921	-.031538
13	.126742	.123770	.209411	-.045553	-.093904	-.064088
14	.133889	.135074	.169349	-.058756	-.092745	-.084460
15	.116184	.136201	.098668	-.042971	-.060652	-.063091
16	.032464	.095075	.063495	-.015742	.034534	-.088788
17	-.004996	.092840	.036040	-.034819	.083157	-.097219
18	-.044883	.074550	-.010283	-.005342	.086350	-.119757
19	-.047326	.050875	-.006277	-.016968	.078525	-.089942
20	-.067323	.036484	.007194	-.001705	.116221	-.037411
21	-.110371	.087239	.052840	.039668	.143576	-.070371
22	-.160096	.043742	.049947	.050769	.160646	-.027266
23	-.116826	-.089261	-.007196	-.005528	.135316	.032393
24	-.050583	-.108104	-.029887	-.020017	.117946	.066710
25	-.085826	-.076693	.000791	.041211	.095957	.046518
26	-.144630	-.063562	.007799	.079988	.078183	.023219
27	-.095144	-.091893	-.012469	.030479	.034462	.090205
28	-.033589	-.058494	.002140	-.007053	-.002778	.063591
29	.000429	-.041316	.012595	.043262	-.020218	.070416
30	.007896	-.024461	.020064	.013868	-.026792	.035620

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	.012973	-.020010	-.040907	.007132	-.007500	.087552
1	-.033532	-.250529	-.334796	.268214	-.016530	.922453
2	-.206421	-.301767	-.385021	.369329	.087863	.968789
3	-.206914	-.252740	-.387341	.077626	.152594	.708216
4	.034361	-.159307	-.251771	-.409175	.062418	.489528
5	.076328	-.140488	-.153112	-.450888	.006362	.490536
6	-.017662	-.115551	-.151362	-.260237	.015326	.339323
7	-.052144	-.097321	-.152245	-.124527	.022784	.303902
8	-.034754	-.067628	-.089742	-.084666	.015735	.370938
9-11	.009429	-.067208	-.040716	-.322521	-.003702	.303045
12-14	.048773	-.034395	-.038804	-.169482	-.013027	.139328
15-21	.004100	-.032269	-.026102	-.083755	-.002471	.122077
22-30	.002998	-.025400	-.017994	-.091926	-.000149	.120989

RUN NO. 848 40M 11-06-62 1401-1513 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
	0.52706 10E 00	0.33591 10E 00	0.30386 10E-01	0.25421 10E 00	0.22995 10E-01	0.14656 10E-01
1	.012050	-.045772	-.084498	-.018316	-.008433	.042519
2	.012952	-.049875	-.122305	.019850	-.017768	.045255
3	-.035962	-.026225	-.108430	-.017182	-.023765	.038744
4	-.080033	-.006765	-.064686	-.046006	-.069943	-.005668
5	-.075639	.042092	-.047670	-.043970	-.079169	.000186
6	-.055584	-.000152	-.039918	.001443	-.083336	-.000381
7	-.026303	-.032058	-.035123	.015332	-.048996	-.012661
8	-.030425	-.017534	-.035901	-.003642	-.021727	.005480
9	.014586	.011172	-.048007	.024420	.016499	.018579
10	.048994	.021401	-.044778	-.002028	.047304	.013208
11	.073859	.045821	-.011307	-.000738	.059573	.030076
12	.088070	.058303	.007449	-.017267	.056255	.031917
13	.044023	.015155	.029854	.009221	.002782	-.013814
14	.019209	-.042368	.019125	.041688	-.038295	-.003169
15	-.002040	-.017694	.006414	.048164	-.039096	-.001574
16	-.000471	.019306	-.012787	.032577	-.019934	.037239
17	-.013891	.030161	-.014622	-.014651	-.023742	.041668
18	.042295	.007628	-.016956	.026900	.001218	.025151
19	.108162	.028879	-.003185	.061030	.104037	.005052
20	.115208	-.031970	.006822	.118058	.110059	-.036432
21	.089971	-.021115	.007666	.132911	.094800	-.018284
22	.047986	-.051442	.026782	.060119	.063635	-.049258
23	.008774	-.011870	.062653	.019357	.044952	-.025394
24	-.044445	.019034	.070895	-.054869	-.008782	-.034934
25	-.069884	.032332	.045919	-.073133	-.032969	-.004640
26	-.055192	.041360	.021149	-.055457	-.014089	.018583
27	-.009672	.014139	.014875	-.050527	.056685	.031756
28	.001442	.029426	-.016636	-.046749	.078458	.066603
29	-.035283	.021503	-.042942	-.043311	.026040	.062823
30	-.093262	.008538	-.005928	-.063797	-.029931	.050436

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-03	10E-02	10E-03	10E-03
1	.069279	.161408	-.696466	.293437	-.065148	.144100
2	-.059799	.024412	-.778761	-.198029	-.383728	.091773
3	-.118061	-.207070	-.754558	-.231738	-.398021	.008290
4	-.095475	-.302432	-.678440	-.022880	-.419734	.044134
5	-.074770	-.187318	-.435023	-.191832	-.445552	.098311
6	.042614	-.122418	-.304369	-.074417	.127213	.070039
7	.101115	.007625	-.535097	-.009549	.473057	.158533
8	.019695	-.177717	-.558660	-.040251	.155115	.178857
9-11	.029835	-.426221	-.211923	.167126	.011140	.049213
12-14	.024468	-.030370	-.118137	.055117	-.018438	.040548
15-21	-.007767	-.021448	.013379	-.113483	-.022929	-.009772
22-30	-.003106	.050453	-.010321	-.057009	.036226	.033656

RUN NO. 848 40M 11-06-62 1401-1513 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.69646 10E 00	0.39886 10E 00	0.16202 10E 00	0.13257 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.664209	.539374	.303044	.679708
2	.363480	.248469	.066158	.449538
3	.179712	.119738	-.023366	.245685
4	.038211	.107256	-.011008	.105123
5	-.066490	.009467	-.021512	.001165
6	-.085833	-.079774	-.045577	-.084336
7	-.123302	-.109789	.001307	-.111754
8	-.146045	-.131166	-.065252	-.151923
9	-.143411	-.172784	-.160750	-.186848
10	-.164337	-.211990	-.119989	-.235387
11	-.240532	-.288983	-.088726	-.268906
12	-.239742	-.316178	-.040417	-.282671
13	-.244997	-.252259	-.112555	-.260643
14	-.223146	-.181776	-.092503	-.193504
15	-.160558	-.147207	-.130958	-.110617
16	-.111600	-.057825	-.054227	-.075275
17	-.095615	-.020467	-.069433	-.052565
18	-.029494	-.006810	-.126809	-.005865
19	.027730	.013461	-.079147	-.020129
20	.027453	.049258	.001517	-.032157
21	-.043921	.039921	-.089537	-.065100
22	-.047609	.113846	-.027362	-.065190
23	.016932	.142530	.053413	-.011987
24	.055123	.131030	.106983	.012165
25	.046959	.086985	.113326	.005229
26	.066609	.010667	.058739	.003481
27	.096341	.000952	.099019	.018313
28	.070426	-.011440	.051546	-.004369
29	.025486	.002502	.056707	.010956
30	-.017889	.001977	-.014868	-.009733

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.008517	.032696	.006339	.024328
1	.087482	.386797	.105160	.201015
2	.109415	.575389	.135671	.229107
3	.108753	.614396	.123251	.229607
4	.069851	.331934	.093443	.149163
5	.048781	.176493	.087683	.080795
6	.050239	.183378	.072493	.070144
7	.047670	.221917	.074173	.078700
8	.032076	.201829	.080648	.058840
9-11	.019307	.122000	.085288	.028700
12-14	.014668	.147147	.050395	.022850
15-21	.010977	.081984	.054193	.015976
22-30	.006691	.072421	.056893	.017580

RUN NO. 84B 16M 11-06-62 1401-1513 EST
RUN NO. 84B 40M 11-06-62 1401-1513 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	.686023	.515622	.598919	.624534
1	.594850	.614170	.501396	.602799
2	.446791	.622022	.490542	.472289
3	.314112	.640454	.494665	.421382
4	.232981	.566889	.513908	.363793
5	.124334	.273099	.504005	.304359
6	.060482	.255707	.418745	.159617
7-8	.053901	.355798	.375877	.130203
9-11	.108464	.203710	.266588	.075351
12-15	.090254	.242732	.159476	.167585
16-20	.083003	.130577	.113585	.139043
21-27	.106256	.061957	.151725	.145327
28-36	.062684	.101809	.132446	.106738
37-47	.113488	.114116	.116430	.108240
48-60	.070389	.111637	.085940	.158314

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	.901448	.890027	.836600	.933290
1	.888130	.903279	.837261	.930653
2	.813832	.880338	.850066	.886606
3	.723051	.842366	.848361	.817836
4	.684799	.721349	.809741	.790353
5	.712350	.610685	.750483	.753138
6	.714413	.659883	.515926	.639133
7	.683840	.675978	.327931	.711109
8	.658958	.658649	.396197	.722662
9-11	.494966	.556341	.482002	.406636
12-14	.362359	.672848	.519317	.514269
15-21	.260712	.461126	.491210	.337127
22-30	.238201	.185759	.592445	.326829

RUN NO. 85A 16M 11-16-62 1116-1231 EST

GROSS STATISTICS

CLEAR	WIND SPEED	6.99 M/SEC	WIND DIRECTION 305 DEG
UNSTABLE	SIGMA A	14.5 DEG	SOLAR RADIATION 0.80
LAND	SIGMA E	5.5 DEG	NET RADIATION 0.44

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.19752E 01	0.13530E 01	0.88334E 00	0.92404E 00
V	0.32504E 01	0.16162E 01	0.94338E 00	0.11123E 01
W	0.41325E-00	0.40754E-00	0.35494E-00	0.15639E-00
T	0.37336E-00	0.65089E-01	0.29523E-01	0.50658E-01
E	0.28195E 01	0.16885E 01	0.10908E 01	
GUSTINESS RATIOS				
U	0.20106	0.16641	0.13446	0.13752
V	0.25793	0.18187	0.13895	0.15088
W	0.09197	0.09133	0.08523	0.05657
COVARIANCES				
U,V	-0.36480E-00	0.31049E-01	-0.10946E-01	0.31815E-01
U,W	-0.30631E-00	-0.26006E-00	-0.19051E-00	-0.16165E-00
U,T	0.28693E-02	-0.14224E-00	-0.66063E-01	-0.11596E-00
V,W	-0.24090E-01	-0.22692E-01	-0.98762E-02	-0.19737E-01
V,T	-0.73655E 00	-0.18365E-00	-0.79710E-01	-0.14824E-00
W,T	0.74384E-01	0.58044E-01	0.32599E-01	0.40961E-01
WE	0.73136E-01	0.10658E-00	0.79309E-01	
NORMALIZED COVARIANCES				
U,V	-0.14397	0.02100	-0.01199	0.03138
U,W	-0.33904	-0.35022	-0.34023	-0.42523
U,T	0.00334	-0.47932	-0.40908	-0.53595
V,W	-0.02079	-0.02796	-0.01707	-0.04732
V,T	-0.66860	-0.56623	-0.47763	-0.62449
W,T	0.18937	0.35639	0.31845	0.46020

RUN NO. 85A 16M 11-16-62 1116-1231 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.91308 10E 00	0.56002 10E 00	0.16153 10E 00	0.57871 10E 00	0.16692 10E 00	0.10238 10E 00
0	-.012039	-.340085	-.408970	-.017034	-.477575	.318269
1	-.013178	-.292258	-.375589	-.023721	-.401002	.283804
2	-.011594	-.225121	-.322782	-.029818	-.311438	.222737
3	-.005498	-.159251	-.273309	-.025970	-.251063	.166877
4	-.000240	-.107077	-.226731	-.013347	-.200408	.114964
5	-.000895	-.075414	-.185859	-.002110	-.158163	.073618
6	.004202	-.050775	-.149254	.005536	-.121485	.045276
7	.007978	-.031885	-.123054	.018184	-.091169	.022228
8	.011445	-.019175	-.100778	.018100	-.068217	.009889
9	.013220	-.006012	-.075251	.010244	-.043995	.007191
10	.015164	.004532	-.050382	.000659	-.026843	.005449
11	.016148	.023591	-.025933	-.005991	-.009559	-.000829
12	.011828	.036219	.000808	-.002061	.009016	-.013112
13	.009391	.044634	.023573	-.010010	.023037	-.012743
14	.009690	.043211	.040467	-.013223	.035664	-.014196
15	.008898	.041480	.052137	-.008893	.054182	-.014957
16	.008955	.045363	.063471	-.004575	.071490	-.014605
17	.007325	.053097	.075435	-.002094	.085984	-.024514
18	.000715	.068359	.087402	.006579	.107415	-.043408
19	-.004544	.075129	.094341	.012261	.125514	-.058236
20	-.004201	.082162	.097512	.005010	.136263	-.068263
21	-.007929	.089730	.107432	-.000225	.142093	-.072938
22	-.013604	.099032	.119955	-.003327	.140613	-.071159
23	-.018789	.100649	.130991	.002424	.135642	-.069226
24	-.021616	.089983	.131871	.009987	.128291	-.062154
25	-.021721	.072210	.124693	.018519	.114427	-.054967
26	-.020630	.057017	.112729	.017340	.103879	-.055844
27	-.016544	.048317	.100330	.012649	.097538	-.053974
28	-.009225	.043510	.088885	-.003957	.094940	-.047351
29	-.003593	.036437	.078118	-.008773	.085692	-.043558
30	.004414	.021636	.067675	-.013381	.067203	-.035271
31	.016197	.004865	.055860	-.026065	.052630	-.017867
32	.021325	-.007093	.044920	-.035533	.044137	-.008329
33	.016865	-.012856	.038210	-.035368	.031986	-.005549
34	.010459	-.007286	.034504	-.034787	.022145	-.003010
35	.007326	-.004403	.033691	-.022656	.029130	-.001786
36	.008122	-.002040	.032346	-.001733	.033212	-.005749
37	.016302	.000160	.027549	.018529	.035812	-.020736
38	.018771	.005648	.024949	.033472	.041324	-.030171
39	.018803	.008066	.019762	.047416	.045609	-.033776
40	.015665	.000403	.016539	.054746	.046820	-.030004
41	.015461	-.001277	.014925	.052035	.042370	-.023511
42	.012728	-.001186	.012875	.046402	.041160	-.023217
43	.002969	.006642	.019736	.041993	.043666	-.025594
44	-.005206	.005514	.027794	.036731	.041345	-.024262
45	-.009368	.004800	.033964	.033349	.033534	-.025472
46	-.017543	.002952	.044865	.038428	.026376	-.035182
47	-.028769	-.000695	.060506	.040853	.017504	-.045113
48	-.030040	-.000032	.068621	.040524	.005956	-.052315
49	-.022872	.007617	.073245	.034816	-.004966	-.051338
50	-.012113	.012070	.071808	.020085	-.015872	-.043681
51	-.006179	.015938	.072475	.008344	-.023337	-.040254
52	-.003341	.013960	.068441	-.001222	-.025766	-.038854
53	.000037	.012293	.055197	-.010769	-.033182	-.027856
54	.003355	.010723	.039558	-.021015	-.039745	-.019351
55	-.000458	.008507	.032761	-.019604	-.040389	-.019939
56	-.009330	.008620	.024794	-.017898	-.040428	-.014604
57	-.015597	.007984	.019204	-.011723	-.036770	-.004713
58	-.012615	.008065	.015986	-.012124	-.034440	.004413
59	-.013357	.009133	.013059	-.017542	-.031942	.007126
60	-.016149	.005743	.010545	-.016174	-.028360	-.001222

RUN NO. 85A 16M 11-16-62 1116-1231 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.91308 10E 00	0.56002 10E 00	0.16153 10E 00	0.57871 10E 00	0.16692 10E 00	0.10238 10E 00
1	.020838	-.059099	-.053013	-.005584	-.028136	.011205
2	.033419	-.092613	-.087059	-.004300	-.032528	.019622
3	.043998	-.101095	-.111154	.001889	-.027921	.028015
4	.052934	-.094781	-.127216	.009643	-.018055	.033756
5	.062036	-.085321	-.137242	.016814	-.006962	.039080
6	.069415	-.068013	-.141533	.028893	.004179	.042891
7	.073761	-.057005	-.138528	.037066	.009423	.042829
8	.072828	-.053631	-.130929	.040240	.008446	.045305
9	.073101	-.041411	-.123599	.036260	.006735	.051801
10	.066646	-.026324	-.110894	.020687	.001232	.047455
11	.057267	-.010287	-.095125	.009493	-.009852	.042954
12	.052649	.006987	-.082609	-.004277	-.019622	.038032
13	.049178	.017814	-.074958	-.014748	-.024843	.037519
14	.047672	.022125	-.070790	-.013918	-.026520	.038762
15	.048922	.008521	-.066009	-.008301	-.024139	.035668
16	.049398	-.000236	-.057984	-.000320	-.017374	.022971
17	.046246	-.003457	-.050257	.004859	-.009200	.015373
18	.043143	-.005613	-.044938	.009002	.000325	.012256
19	.036698	.000880	-.040419	.010536	.002280	.009166
20	.028712	.008531	-.032575	.010877	.002280	.001814
21	.014629	.010406	-.020901	.001578	.000533	-.010418
22	.002789	.007976	-.013007	-.012925	-.005101	-.022020
23	-.002050	.011898	-.003842	-.011943	-.004976	-.027018
24	-.005235	.011756	.009395	-.003531	-.006469	-.032455
25	-.015102	.008103	.025882	-.000027	-.002665	-.041353
26	-.022857	-.000926	.038977	-.006500	.004757	-.055309
27	-.024084	-.001925	.046711	-.007853	.012335	-.061347
28	-.024504	-.002872	.052385	-.005380	.016555	-.056500
29	-.026985	.000294	.054250	-.008690	.015076	-.048414
30	-.026284	-.005555	.049402	-.009102	.011528	-.036580
31	-.020039	-.006625	.039626	-.010240	.003261	-.024959
32	-.011211	-.014476	.022910	-.007792	.007770	-.006832
33	.001053	-.013011	.005265	-.000012	.010133	.010724
34	.005333	-.002188	-.001674	.008634	.009695	.025250
35	.007654	-.000518	-.005895	.013830	.002790	.033905
36	.008846	-.005396	-.010204	.006901	.000041	.032372
37	.012964	-.011279	-.019459	.006028	-.000431	.028721
38	.017331	-.011694	-.026877	.011291	-.002931	.024466
39	.020902	-.010103	-.031379	.012764	-.007598	.018188
40	.016230	-.012197	-.033203	.014247	-.002725	.012090
41	.010517	-.014077	-.030561	.022865	-.002572	.011840
42	.001025	-.016274	-.027327	.029830	-.002589	.013961
43	-.009352	-.017267	-.029423	.031287	-.007811	.015789
44	-.019066	-.015931	-.034515	.014961	-.016952	.009593
45	-.031646	-.019599	-.036091	-.004075	-.022972	.003823
46	-.037841	-.021936	-.032402	-.019070	-.022031	-.002226
47	-.036871	-.021336	-.025942	-.031395	-.016031	-.011897
48	-.034970	-.017784	-.018045	-.033648	-.008654	-.011595
49	-.030785	-.011526	-.007331	-.033703	-.003699	-.011213
50	-.028492	-.004155	.004744	-.024873	.001252	-.015617
51	-.028365	-.000390	.011790	-.013438	.003512	-.019717
52	-.023240	.003677	.014625	-.007160	-.001677	-.024581
53	-.016840	.003724	.012484	-.006102	-.009782	-.024839
54	-.014755	.001572	.010141	-.010515	-.015713	-.023005
55	-.013754	.002967	.005828	-.011560	-.015204	-.019483
56	-.016638	.001391	.002817	-.015641	-.011856	-.016986
57	-.016164	-.004055	.000700	-.023515	-.011620	-.021985
58	-.010203	-.009079	-.002871	-.024975	-.008686	-.024802
59	.000286	-.010585	-.007567	-.023102	-.006722	-.025409
60	.009483	-.003711	-.004491	-.024610	-.002134	-.025757

RUN NO. 85A 16M 11-16-62 1116-1231 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.88358 10E 00	0.94357 10E 00	0.35494 10E 00	0.29529 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.840148	.800466	.681453	.848111
2	.654593	.578863	.362334	.663062
3	.511460	.428668	.174160	.522257
4	.396569	.317561	.066770	.408932
5	.298671	.230042	.010027	.317128
6	.213681	.165366	-.037562	.240676
7	.151287	.116473	-.057622	.179615
8	.097795	.075604	-.063419	.133310
9	.040342	.036182	-.064681	.093932
10	-.017072	.009591	-.068459	.054918
11	-.064427	-.011003	-.083967	.017792
12	-.102211	-.043877	-.073095	-.018256
13	-.122966	-.078228	-.070595	-.044217
14	-.145837	-.110087	-.068323	-.065820
15	-.169220	-.145740	-.053628	-.088364
16	-.192389	-.172171	-.053551	-.111713
17	-.205366	-.180078	-.067308	-.135550
18	-.218120	-.190841	-.088842	-.169978
19	-.218881	-.202738	-.098722	-.196247
20	-.223645	-.212848	-.112264	-.214042
21	-.231578	-.220656	-.130652	-.226209
22	-.234167	-.220967	-.139142	-.227262
23	-.234481	-.216062	-.130168	-.221262
24	-.223566	-.206968	-.119168	-.218425
25	-.213583	-.198784	-.110818	-.212939
26	-.193724	-.182982	-.115614	-.204811
27	-.174819	-.170501	-.104594	-.192108
28	-.156807	-.164321	-.092186	-.177684
29	-.136466	-.154310	-.071112	-.156199
30	-.104081	-.132554	-.040498	-.126674
31	-.069068	-.114860	.010498	-.096963
32	-.046332	-.109038	.036971	-.079925
33	-.037300	-.090222	.044653	-.068232
34	-.031839	-.069505	.038843	-.065105
35	-.021875	-.064226	.019486	-.078234
36	-.005961	-.064844	.004147	-.088288
37	.004909	-.061536	-.001794	-.087122
38	.005879	-.057820	.009509	-.083748
39	.011572	-.050373	.019260	-.077396
40	.010403	-.044118	.008949	-.069069
41	.004271	-.033567	.000494	-.063773
42	-.005313	-.024484	.004824	-.064129
43	-.019497	-.021319	.022030	-.071015
44	-.030935	-.011896	.023128	-.075008
45	-.032602	.006560	.021921	-.078228
46	-.032782	.018396	.022261	-.085785
47	-.038455	.027187	.028492	-.091957
48	-.038734	.043769	.020878	-.088523
49	-.043530	.057505	.001639	-.079174
50	-.053642	.062478	-.011133	-.063763
51	-.064731	.065502	-.034277	-.053350
52	-.059870	.061862	-.027135	-.045673
53	-.050826	.062104	-.005108	-.034844
54	-.042005	.063076	.014663	-.027647
55	-.031602	.060387	.012000	-.026128
56	-.015414	.065205	.010931	-.024026
57	-.004590	.067750	.009909	-.020719
58	-.000298	.064681	.008826	-.013910
59	-.002694	.056593	-.005397	-.002792
60	-.000473	.054163	-.022601	.002682

RUN NO. 85A 16M 11-16-62 1116-1231 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-01	10E-02	10E-01	10E-02
0	.050695	-.026157	-.021540	-.019453	-.014088	.074084
1	.110701	-.218029	-.145937	-.363682	-.128084	.512223
2	.073828	-.269711	-.140072	-.124991	-.142460	.484994
3	.138099	-.305333	-.126061	-.071735	-.131820	.458924
4	-.293113	-.214214	-.074077	-.329286	-.082386	.327221
5	-.720403	-.111086	-.032774	-.003483	-.039161	.188384
6	-.320463	-.091188	-.026683	.029842	-.026154	.182155
7-8	.013956	-.110577	-.022984	-.400825	-.034035	.212987
9-11	-.092976	-.055075	-.011338	-.142372	-.021504	.119178
12-15	.019259	-.046137	-.009048	.099492	-.012094	.060440
16-20	-.032308	-.018526	-.003039	.076648	-.007695	.017579
21-27	.004603	-.010923	-.002000	.004257	-.005637	.017508
28-36	.031351	-.004197	-.001525	.031579	-.004048	.006663
37-47	.000676	-.003932	-.000661	-.003329	-.002382	.005479
48-60	.000109	-.003206	-.000382	.009490	-.001306	.000581

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-02
1	.185097	-.473065	-.526918	.171531	-.469417	.046035
2	.211447	-.384816	-.567407	.168978	-.594321	.101018
3	.221709	-.722701	-.734011	.310232	-.867138	.203328
4	.161567	-.987636	-.565127	.407219	-.260304	.188902
5	.045335	-.975933	-.239709	.193201	.317472	.021125
6	.007400	-.920250	-.193347	.195066	.116658	-.045684
7-8	.049985	-.755265	-.216102	.149388	-.176614	.035680
9-11	.001261	-.366425	-.046453	-.224345	-.880193	-.003874
12-15	-.001937	-.210157	-.018511	-.101351	-.454253	.002721
16-20	.005620	-.151256	-.020533	.006070	-.239757	.003349
21-27	.002941	-.028905	-.008495	-.014894	-.105092	-.000890
28-36	.000567	-.029841	-.003634	-.011841	-.089645	.000264
37-47	.001277	.011492	-.003743	.000635	-.033255	.000567
48-60	.000579	-.008996	-.000991	-.004918	-.017090	.000611

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.014133	.011022	.017442	.072217
1	.116346	.114158	.171686	.509980
2	.136600	.139914	.247953	.497400
3	.146878	.135852	.309652	.447259
4	.101986	.088928	.241018	.290719
5	.057791	.056500	.173874	.161698
6	.046320	.042648	.189699	.129695
7-8	.036840	.039292	.215783	.130614
9-11	.021584	.030420	.143306	.079159
12-15	.014948	.018882	.109576	.049421
16-20	.009283	.012254	.072276	.027311
21-27	.005573	.007995	.052663	.019984
28-36	.004022	.005798	.033089	.012348
37-47	.002453	.003432	.022769	.007892
48-60	.001775	.002286	.015830	.005003

RUN NO. 85A 16M 11-16-62 1116-1231 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
	0.10140 10E 01	0.38014 10E 00	0.21636 10E 00	0.41703 10E 00	0.23735 10E 00	0.88982 10E-01
0	.031376	-.425232	-.535940	-.047328	-.624547	.460330
1	.053190	-.190406	-.365933	-.032481	-.454644	.293111
2	.029990	-.037024	-.173076	.007502	-.271610	.125298
3	.026587	-.033314	-.058017	-.022206	-.189901	.045216
4	.022309	.060008	.040082	.030894	-.088230	-.065439
5	-.020960	.077445	.134020	.009803	-.034042	-.118735
6	-.040526	.072404	.131448	-.054191	.014942	-.097254
7	-.034990	.061184	.109623	-.034232	.095366	-.066071
8	-.040278	.078122	.121930	-.014357	.130606	-.071389
9	-.080915	.026183	.115333	.026132	.169427	-.070575
10	-.126403	.026538	.091764	.044756	.252576	-.056383
11	-.084206	.018713	.069422	.052457	.261140	-.057994
12	-.033020	.012542	.041144	.053845	.273969	-.082856
13	.007178	-.024110	.014469	.045981	.259253	-.054610
14	.036307	-.034938	.027954	.010176	.207970	-.033409
15	.034196	.028274	.069756	.028868	.157328	-.056296
16	.041543	.054172	.043443	.074145	.114823	-.099967
17	.058310	.029864	.026836	.009301	.048101	-.036839
18	.049290	.068555	.043119	-.050740	-.016113	.000406
19	.069160	.054641	-.019235	-.046857	-.030847	.033299
20	.087494	.025301	-.101204	-.046941	-.067788	.062363
21	.086307	-.032779	-.118307	-.054291	-.105214	.066275
22	.074683	-.004475	-.099948	-.024621	-.085273	.017460
23	.085743	.000649	-.079917	-.018767	-.078049	.006911
24	.027791	.001164	-.015038	-.027829	-.076441	.015427
25	-.027921	.012197	.044298	.012401	-.022791	.003695
26	-.067680	-.028107	.098239	-.047461	.004573	.038589
27	-.041009	-.002861	.094379	-.055303	-.042887	.048848
28	.005686	.022809	.034693	-.038222	-.089750	.070547
29	.031450	-.037029	-.027867	-.050913	-.114561	.096848
30	-.004264	-.095041	-.088609	-.021350	-.063607	.074525

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	-.011416	-.005184	-.008273	.030725	-.008788	.008420
1	-.131150	-.087005	-.076253	-.063705	-.199598	.253936
2	.072156	-.112563	-.128093	-.519054	-.317524	.455862
3	.340996	-.134152	-.180146	-.521265	-.326548	.565875
4	.217477	-.163419	-.154588	.228967	-.145686	.456123
5	-.002609	-.177587	-.141375	.368275	-.052800	.432209
6	-.074118	-.125764	-.115910	-.080310	-.066945	.435343
7	-.059393	-.078353	-.061603	-.241664	-.071938	.311843
8	.054966	-.085618	-.058843	-.374852	-.062673	.232403
9-11	-.004275	-.059888	-.038221	-.262563	-.039032	.129331
12-14	-.012578	-.052682	-.016290	.097010	-.030066	.064204
15-21	.006824	-.054882	-.020339	-.159687	-.020720	.086182
22-30	-.027539	-.026886	-.006934	.094395	-.007570	.032825

RUN NC. 85A 16M 11-16-62 1116-1231 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
	0.10140 10E 01	0.38014 10E 00	0.21636 10E 00	0.41703 10E 00	0.23735 10E 00	0.88982 10E-01
1	.094228	-.095414	-.143076	.019543	-.013692	.027794
2	.083775	-.064966	-.165351	-.028320	-.031835	-.009125
3	.072884	-.115389	-.175545	-.030836	-.041376	-.023971
4	.079629	-.117156	-.193288	-.021996	-.048776	-.007635
5	.029847	-.083859	-.157142	-.054244	-.043546	-.036008
6	.056883	-.044476	-.121244	-.048456	-.027947	-.027212
7	.069292	-.001451	-.081569	-.006790	.003918	.007933
8	.044405	.033371	-.071896	.011520	.032797	.019776
9	.048399	.017037	-.064299	.028411	.043043	.029050
10	.066818	.018682	-.020090	.067685	.059560	.030881
11	.068839	.045403	-.017391	.056775	.080418	.050352
12	.049357	.011011	-.003352	.093463	.081448	.073153
13	.031168	.032025	.047410	.093055	.073458	.027778
14	-.018743	.061969	.057778	.067828	.054231	.019625
15	-.034587	-.016662	.033923	.029003	.024747	.013840
16	-.060886	-.035910	.044339	-.029499	-.002552	-.033072
17	-.088027	.036844	.042418	-.088149	-.054556	-.047455
18	-.020646	-.014153	.003587	-.039155	-.066658	-.013997
19	-.001862	-.033396	.018159	-.054749	-.087937	-.028012
20	-.017779	.027731	.046826	-.071278	-.077650	-.031667
21	-.020103	.022644	.027582	-.028875	-.057710	.004384
22	-.031710	.028204	.022011	-.026399	-.035335	-.008762
23	.004760	-.000564	-.004112	-.027892	.007263	-.045609
24	.078979	.012780	-.052165	-.005254	.018239	-.023891
25	.088997	.004338	-.079776	-.034613	.032094	-.022972
26	.042496	-.013319	-.036647	-.031783	.036387	-.030294
27	-.001700	-.040295	.022675	.005171	.016556	-.016522
28	-.049344	.006351	.059536	.021085	-.016308	.007772
29	-.025184	.013526	.035944	.023834	.007616	.021718
30	-.017173	-.055520	.023821	.068269	.003462	.028368

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	.289610	-.018598	-.081480	.041619	.277552	.066154
2	.328159	-.054442	-.111644	.030160	.215617	.057486
3	.282738	-.102918	-.134266	-.067538	-.353595	-.061654
4	.058590	-.126515	-.095267	-.120079	-.764944	-.142635
5	.041423	-.104363	-.058812	-.028568	-.264690	-.063222
6	.156890	-.057523	-.042194	.046504	.084929	.047556
7	.167096	-.037448	-.037147	.023886	-.021954	.058163
8	.086086	-.023029	-.031658	-.003430	.004894	.013835
9-11	.071087	.008477	-.008694	.014091	.046601	.032183
12-14	.043465	-.011420	-.008718	-.003355	-.014133	.002475
15-21	.045477	-.022917	-.011309	.019593	.006115	.039478
22-30	-.007707	-.013085	-.001292	-.000704	.007204	-.004602

RUN NO. 85A 16M 11-16-62 1116-1231 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.92431 10E 00	0.11124 10E 01	0.15634 10E 00	0.50644 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.512576	.612091	.256242	.717556
2	.187483	.328095	.060487	.409892
3	.048768	.197128	.042077	.225473
4	-.069806	.081140	-.099664	.027884
5	-.199950	.040523	-.102841	-.103730
6	-.163173	-.018415	-.159449	-.148072
7	-.151821	-.133358	-.138728	-.182675
8	-.152081	-.175326	-.079937	-.202607
9	-.138268	-.192231	-.048925	-.223230
10	-.090896	-.258732	-.113416	-.247257
11	-.074237	-.269689	-.094131	-.258826
12	-.062908	-.273681	-.116110	-.278110
13	-.095660	-.258604	-.085246	-.253192
14	-.076618	-.196739	-.009198	-.225424
15	-.091018	-.154933	-.036287	-.212433
16	-.025492	-.145770	-.045185	-.150987
17	.000501	-.117217	.020123	-.058070
18	-.017510	-.063398	.091395	-.001629
19	-.003576	-.082238	.008089	.072860
20	.032928	-.053561	.044192	.142609
21	.070063	-.051361	.094804	.180108
22	.039173	-.042477	-.064394	.137229
23	.009702	-.020813	.024728	.087102
24	-.037551	.038058	.009748	.054571
25	-.072779	.024529	.017364	-.014124
26	-.077833	-.014935	.059306	-.052597
27	-.093265	.080406	-.023281	.003487
28	-.080900	.141710	-.039604	.071370
29	.008780	.193645	.089302	.124328
30	.139899	.185014	.092639	.100937

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.005058	.008257	.002145	.040273
1	.056547	.145375	.047418	.544711
2	.080028	.186598	.092082	.845753
3	.105350	.175355	.135069	.956006
4	.096844	.106618	.119597	.579054
5	.085981	.060516	.096316	.400697
6	.078853	.048820	.097491	.412437
7	.059445	.052515	.092073	.297709
8	.045027	.048931	.071449	.212841
9-11	.034290	.037921	.046708	.126474
12-14	.021564	.030616	.059674	.078046
15-21	.025023	.019467	.057702	.071232
22-30	.015153	.014621	.059375	.031996

RUN NO. 85A 40M 11-16-62 1116-1231 EST

GROSS STATISTICS

CLEAR	WIND SPEED 7.51 M/SEC	WIND DIRECTION 310 DEG	
UNSTABLE	SIGMA A 13.4 DEG	SOLAR RADIATION 0.80	
LAND	SIGMA E 7.2 DEG	NET RADIATION 0.44	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.27498E 01	0.17418E 01	0.10107E 01	0.12397E 01
V	0.29777E 01	0.14914E 01	0.88557E 00	0.98151E 00
W	0.70258E 00	0.67300E 00	0.54778E 00	0.32332E-00
T	0.25019E-00	0.36066E-01	0.16359E-01	0.28909E-01
E	0.32151E 01	0.19534E 01	0.12221E 01	
GUSTINESS RATIOS				
U	0.22081	0.17574	0.13387	0.14826
V	0.22978	0.16261	0.12531	0.13192
W	0.11161	0.10924	0.09855	0.07571
COVARIANCES				
U,V	-0.50330E 00	0.41757E-01	0.33712E-01	0.13026E-01
U,W	-0.57544E 00	-0.45573E-00	-0.25249E-00	-0.35904E-00
U,T	0.76545E-01	-0.14712E-00	-0.57447E-01	-0.12922E-00
V,W	-0.99697E-01	-0.69570E-01	-0.31487E-01	-0.37576E-01
V,T	-0.50934E 00	-0.82619E-01	-0.39221E-01	-0.59291E-01
W,T	0.84260E-01	0.74229E-01	0.38572E-01	0.57275E-01
WE	0.39115E-00	0.28186E-00	0.12171E-00	
NORMALIZED COVARIANCES				
U,V	-0.17588	0.02591	0.03563	0.01181
U,W	-0.41400	-0.42092	-0.33934	-0.56712
U,T	0.09228	-0.58697	-0.44676	-0.68261
V,W	-0.06893	-0.06944	-0.04521	-0.06670
V,T	-0.59011	-0.35624	-0.32586	-0.35198
W,T	0.20098	0.47645	0.40746	0.59242

RUN NO. 85A 40M 11-16-62 1116-1231 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.94618 10E 00	0.74423 10E 00	0.12860 10E 00	0.69651 10E 00	0.12036 10E 00	0.94668 10E-01
0	.035600	-.339334	-.446765	-.045114	-.325938	.407500
1	.028745	-.317592	-.420795	-.033230	-.270482	.361019
2	.015073	-.265579	-.369398	-.022709	-.192318	.285077
3	.000618	-.210434	-.318683	-.013304	-.128878	.221757
4	-.007486	-.160418	-.271120	.003790	-.081945	.167165
5	-.009221	-.124333	-.222611	.017320	-.045627	.123565
6	-.008665	-.089782	-.177396	.018090	-.014638	.091763
7	-.008476	-.055069	-.136422	.016974	-.000439	.062932
8	.006589	-.031164	-.109132	.011894	-.004614	.045869
9	.023340	-.024025	-.087115	.004128	-.010954	.031937
10	.027324	-.025789	-.066782	.006771	-.011099	.018727
11	.030884	-.022323	-.051320	.009736	-.008255	.009801
12	.034200	-.013324	-.037314	.007596	-.007386	-.002868
13	.029947	.007472	-.014496	-.000279	-.005504	-.016632
14	.012958	.035258	.013311	-.004763	.000653	-.029995
15	-.001140	.058834	.039701	-.009447	.014464	-.033476
16	-.006297	.070998	.063537	-.015631	.026607	-.039718
17	-.004928	.082860	.086027	-.022841	.039202	-.051154
18	-.004462	.091099	.104652	-.033974	.052112	-.063597
19	-.004460	.097393	.121737	-.028395	.059952	-.080624
20	-.010461	.099107	.136011	-.020758	.062657	-.099527
21	-.014456	.100231	.139560	-.010188	.063498	-.119708
22	-.015496	.097826	.140034	.003307	.059766	-.129407
23	-.022195	.088727	.142904	.013171	.055928	-.129827
24	-.027422	.081997	.145533	.013824	.050499	-.120651
25	-.023135	.080575	.138592	.009705	.050148	-.105337
26	-.016383	.081020	.125689	.007481	.050531	-.097506
27	-.013325	.082643	.111204	.003793	.058650	-.091399
28	-.015806	.080747	.097276	.000015	.069201	-.081161
29	-.019897	.075328	.086614	-.004449	.077079	-.067307
30	-.025730	.061690	.080254	-.008805	.071073	-.051806
31	-.031481	.046705	.076990	-.014025	.058451	-.034550
32	-.032055	.038122	.074439	-.022789	.049811	-.024659
33	-.036547	.033168	.073694	-.024276	.039679	-.021665
34	-.038035	.029282	.069090	-.018098	.031015	-.026494
35	-.027532	.014690	.060657	-.011280	.025177	-.030145
36	-.013406	.000267	.050638	-.000306	.018197	-.023357
37	-.003860	-.008275	.042300	.011606	.011981	-.012556
38	-.000385	-.010123	.043494	.015487	.007112	-.006272
39	-.000589	-.006140	.045912	.014981	.005219	-.011278
40	.003109	-.002657	.047495	.014275	.008548	-.020533
41	.003245	.003724	.047960	.012846	.018541	-.021294
42	.003521	.008915	.048718	.016327	.025391	-.018677
43	.003332	.005990	.047672	.026037	.030304	-.018771
44	.007108	.001130	.043737	.039218	.031266	-.027340
45	.007229	.001287	.048874	.050335	.031008	-.031181
46	.008834	.008612	.054610	.052720	.026678	-.028239
47	.007283	.017118	.056493	.055327	.016066	-.028308
48	.008158	.027715	.059233	.057484	.007318	-.033189
49	.014164	.036498	.057244	.050518	-.000581	-.033697
50	.021001	.045995	.050123	.035322	-.009779	-.031217
51	.024414	.049632	.042875	.017790	-.023216	-.028881
52	.019597	.041749	.040021	.007525	-.034059	-.027942
53	.011581	.029241	.042129	.000626	-.034083	-.021565
54	.005393	.015584	.041198	-.003138	-.028393	-.014207
55	.007688	.001902	.035493	-.011181	-.029110	-.009224
56	.012744	-.009328	.032291	-.016520	-.028696	-.006399
57	.011172	-.021274	.030892	-.018414	-.028290	-.004654
58	.003752	-.023519	.021945	-.015214	-.024959	-.002149
59	-.003316	-.015711	.016715	-.011341	-.019226	.003287
60	-.006229	-.013357	.008645	-.013204	-.013741	.017883

RUN NO. 85A 40M 11-16-62 1116-1231 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.94618 10E 00	0.74423 10E 00	0.12860 10E 00	0.69651 10E 00	0.12036 10E 00	0.94668 10E-01
1	.014989	-.010352	-.024054	.008680	-.018313	.013069
2	.034182	-.020913	-.044916	.017016	-.027499	.026734
3	.047514	-.030592	-.060981	.020191	-.031523	.034637
4	.053007	-.035017	-.073682	.014382	-.029694	.037946
5	.054935	-.039124	-.079326	.012685	-.027680	.041829
6	.050532	-.035903	-.081539	.011910	-.027924	.050433
7	.044997	-.025350	-.081319	.010392	-.026778	.061959
8	.039104	-.023918	-.077910	.014465	-.021916	.070232
9	.034909	-.026799	-.076647	.017859	-.015913	.074475
10	.037201	-.019428	-.076684	.016106	-.011863	.069754
11	.044854	-.007721	-.076998	.012381	-.005911	.061704
12	.052622	.004915	-.080179	.009784	-.001076	.054000
13	.059528	.011249	-.085029	.002334	.001630	.048339
14	.051592	.020899	-.079744	-.006714	.001377	.042836
15	.038115	.021270	-.070517	-.008613	-.002008	.034916
16	.023256	.012823	-.065636	-.008565	-.001048	.028212
17	.016729	.003472	-.062826	-.005216	.002837	.025868
18	.013884	-.002007	-.059105	-.006449	.006880	.025696
19	.009322	-.015200	-.060144	-.005197	.009688	.027412
20	.007644	-.030793	-.059395	-.003803	.010618	.021966
21	.011211	-.038056	-.053876	-.008731	.012234	.017158
22	.016509	-.036698	-.046254	-.015665	.014904	.018520
23	.022127	-.026645	-.037319	-.008377	.017691	.018260
24	.024460	-.023509	-.029520	-.004150	.016992	.017011
25	.026525	-.024240	-.025387	-.005456	.019568	.012254
26	.023422	-.023531	-.020494	-.008760	.023374	.009178
27	.016053	-.020309	-.010560	-.006407	.026433	.008695
28	.011292	-.008476	-.001198	-.006695	.022947	.007670
29	.010584	-.001364	.005411	-.008035	.012918	.002504
30	.008260	.001919	.007550	-.012979	.003561	-.005806
31	-.000124	-.007159	.013071	-.015039	.000470	-.016775
32	-.007248	-.015787	.020027	-.020181	.000759	-.030417
33	-.005301	-.017328	.024024	-.028532	.003191	-.043870
34	.000182	-.016790	.022434	-.024562	.004376	-.052334
35	.000958	-.015139	.017077	-.009339	.008939	-.053894
36	-.001461	-.007286	.022257	.002767	.014339	-.053636
37	-.000064	-.000720	.024799	.007723	.012714	-.047428
38	-.001716	.001721	.022676	.009203	.009164	-.036780
39	.000917	-.000507	.014974	.013541	.005289	-.027819
40	.003394	.003919	.009524	.020428	.000449	-.016434
41	-.002278	.005045	.008630	.024255	-.002888	-.005794
42	-.009431	.005512	.011797	.029843	-.001046	-.000100
43	-.008366	.006236	.014729	.041168	.002326	.004744
44	-.000686	.005517	.014574	.040752	.002467	.002090
45	.001132	.004968	.016687	.035297	.005057	-.000543
46	-.000430	.008734	.013962	.029108	.008027	-.005274
47	-.007627	.017014	.014856	.022168	.004943	-.007436
48	-.018262	.016896	.015578	.010484	-.002501	-.008051
49	-.022172	.010817	.015819	-.000315	-.010552	-.006714
50	-.026255	.010177	.014319	-.013596	-.020728	-.008123
51	-.030462	.020181	.012137	-.029236	-.032776	-.011934
52	-.033671	.027739	.012327	-.043813	-.039427	-.014398
53	-.031525	.035002	.011923	-.046939	-.034070	-.013628
54	-.027714	.050258	.011875	-.043504	-.027106	-.003060
55	-.022569	.060347	.012925	-.038439	-.023019	.010779
56	-.016794	.063882	.010409	-.023566	-.017534	.024428
57	-.008013	.054185	.003210	-.012621	-.010517	.035838
58	-.004320	.044081	-.004346	.001531	-.001880	.047031
59	-.001920	.035605	-.006457	.005948	.000755	.051662
60	-.002598	.026707	-.005355	.002104	-.001353	.046348

RUN NO. 85A 40M 11-16-62 1116-1231 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.10110 10E 01	0.88551 10E 00	0.54785 10E 00	0.16358 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.835087	.803997	.755368	.864107
2	.637366	.565426	.470704	.686479
3	.480476	.394872	.288526	.539668
4	.358576	.267127	.161731	.424090
5	.263311	.171975	.075114	.336870
6	.191018	.094749	.016505	.259206
7	.129571	.046557	-.019671	.196654
8	.070885	.021383	-.044753	.152887
9	.030325	.001398	-.063692	.116629
10	.002479	-.020397	-.074862	.078777
11	-.014183	-.043108	-.082504	.047596
12	-.032623	-.064450	-.083934	.018788
13	-.057999	-.085757	-.095263	-.012914
14	-.093494	-.101717	-.099103	-.049868
15	-.127095	-.115610	-.091154	-.092582
16	-.154556	-.131364	-.091813	-.128362
17	-.171502	-.165520	-.091658	-.157810
18	-.179005	-.202888	-.094317	-.188172
19	-.193056	-.226843	-.111930	-.210597
20	-.197179	-.234934	-.134618	-.230284
21	-.194232	-.226982	-.154457	-.245540
22	-.192975	-.210552	-.163512	-.252782
23	-.196102	-.193828	-.160247	-.255491
24	-.203094	-.172470	-.161175	-.256061
25	-.210604	-.157424	-.154823	-.256115
26	-.205920	-.145266	-.140973	-.249455
27	-.191207	-.141023	-.134953	-.238422
28	-.175473	-.139068	-.134287	-.224618
29	-.161811	-.135509	-.126792	-.206412
30	-.144018	-.119715	-.102621	-.178951
31	-.116856	-.086299	-.062360	-.150494
32	-.093777	-.066304	-.036460	-.126235
33	-.074500	-.047642	-.021308	-.107797
34	-.059924	-.042131	-.010301	-.094703
35	-.043651	-.034467	.000315	-.086085
36	-.035628	-.023948	.008949	-.074652
37	-.028585	-.021008	.022972	-.064959
38	-.022840	-.010394	.039621	-.060460
39	-.026811	.004558	.041850	-.055645
40	-.030119	.019379	.026999	-.053448
41	-.037390	.023675	.024105	-.055006
42	-.041818	.024592	.026149	-.054619
43	-.040079	.024863	.018019	-.058326
44	-.025351	.028097	.007303	-.061660
45	-.021249	.028904	.006348	-.058467
46	-.022201	.038209	.017657	-.051656
47	-.034958	.051524	.024744	-.046082
48	-.042712	.063529	.020043	-.043029
49	-.048519	.078177	.018065	-.041387
50	-.051150	.087950	.020774	-.038092
51	-.051673	.093802	.005395	-.029091
52	-.052432	.092987	-.010932	-.015503
53	-.049349	.080507	-.000678	-.008937
54	-.042060	.066389	.010109	-.006222
55	-.024925	.048106	.026623	-.004287
56	-.007101	.023304	.041822	-.008643
57	.002710	.008506	.046924	-.011434
58	.001302	-.001024	.039160	-.011705
59	-.001387	-.003001	.028455	-.009463
60	-.001051	-.001816	.028474	-.000667

RUN NO. 85A 40M 11-16-62 1116-1231 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-01	10E-02	10E-02	10E-02
0	-.041416	-.056290	-.020556	-.070799	-.047791	.082477
1	.593621	-.438544	-.141894	-.392370	-.494164	.642711
2	.861701	-.483322	-.132733	.038116	-.547894	.676209
3	.247066	-.475559	-.110698	.126928	-.466852	.633746
4	-.481776	-.285336	-.062261	-.163185	-.280398	.379547
5	-.336320	-.139822	-.026171	-.076234	-.198000	.178079
6	-.126965	-.121887	-.017530	-.383831	-.218812	.174143
7-8	.100331	-.104632	-.021162	-.563777	-.212820	.215388
9-11	.499637	-.099879	-.013491	-.073342	-.204432	.105177
12-15	.211487	-.023056	-.003413	-.204475	-.085516	.072616
16-20	.047854	-.014305	-.002287	.003623	-.039234	.029820
21-27	.047156	-.009664	-.001650	.009640	-.033007	.018709
28-36	-.024609	.000376	-.000666	-.017150	-.016702	.010827
37-47	.021494	-.001649	-.000363	-.037048	-.009313	.007579
48-60	.001782	.000661	-.000048	-.008024	-.006098	.001434

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-02
1	.199190	-.856317	-.470795	-.103781	.484198	.156440
2	.173012	-.493790	-.468581	.005340	-.226387	.222214
3	.133830	-.095014	-.362693	.414396	-.974139	.203637
4	.095796	-.211551	-.153419	.409575	-.997163	.084652
5	.071101	-.540913	-.069485	.116777	-.733551	.060063
6	.053022	-.762816	-.081297	.310012	-.423862	.073752
7-8	.009847	-.534163	-.060258	.036883	-.476154	-.012543
9-11	.040899	.135434	-.031460	.029371	-.195028	-.010170
12-15	.007569	-.104429	-.011879	.108276	-.076922	.007719
16-20	-.006451	.025731	.002719	.022822	-.126983	.009772
21-27	-.001076	.031269	.000887	.003485	-.045336	-.001455
28-36	-.001027	-.006012	-.000801	-.013901	.005320	-.001588
37-47	-.001841	-.001710	-.001191	-.006070	-.013266	-.000240
48-60	.000724	-.005190	.000342	.008024	-.006115	-.000220

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.017609	.009093	.033737	.039021
1	.142174	.085933	.377368	.294769
2	.155083	.114774	.531510	.301088
3	.150218	.122887	.603164	.263217
4	.098913	.082900	.426806	.150461
5	.061301	.054073	.319277	.078570
6	.054490	.044239	.353907	.069925
7-8	.045482	.043543	.324279	.068977
9-11	.032370	.034575	.206053	.047724
12-15	.016018	.019388	.150218	.025060
16-20	.012170	.010567	.090502	.015736
21-27	.006874	.008109	.060902	.009756
28-36	.004353	.004951	.040162	.005284
37-47	.002911	.003130	.025302	.003691
48-60	.002042	.001844	.014476	.002390

RUN NO. 85A 40M 11-16-62 1116-1231 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
	0.11035 10E 01	0.63333 10E 00	0.18945 10E 00	0.56340 10E 00	0.16853 10E 00	0.96721 10E-01
0	.011804	-.566908	-.682102	-.066696	-.351808	.592168
1	.017624	-.320845	-.485855	-.060321	-.256305	.386102
2	.012376	-.130425	-.274913	-.043315	-.182797	.191398
3	-.008923	-.064781	-.143652	-.025447	-.130318	.100673
4	.008457	.034810	-.006892	-.001149	-.090046	.015520
5	.048073	.090940	.072444	.019334	-.074418	-.049038
6	.038512	.062053	.073531	-.021059	-.049589	-.042014
7	.041893	.073471	.069199	-.015561	-.009374	-.058860
8	.040892	.074477	.091600	.005339	.030901	-.070524
9	-.003905	.052809	.104762	.048193	.080600	-.100230
10	-.061490	.088686	.135819	.068933	.145073	-.138238
11	-.062348	.046147	.137416	.050070	.154725	-.127641
12	-.040170	.073666	.126087	.059351	.163536	-.157769
13	-.037469	.108126	.126889	.041988	.181919	-.198451
14	-.028339	.102240	.151476	.040012	.170291	-.178812
15	-.011613	.055033	.120307	.019114	.149107	-.131227
16	.019708	.079353	.104176	-.002034	.123480	-.113257
17	.028516	.048609	.103423	-.039826	.079501	-.048905
18	-.002579	.050185	.117511	-.071763	.061344	.018549
19	.014837	.029776	.112250	-.054921	.041498	.049984
20	-.015343	.010801	.091078	-.023211	.022739	.055732
21	.038130	.015006	.014059	-.040079	-.056614	.037766
22	.055819	-.030084	-.060154	-.055974	-.083683	.042990
23	.049458	-.048815	-.104042	-.019106	-.091107	.081506
24	.039476	-.045698	-.108812	-.011781	-.077069	.101747
25	-.039592	.015352	-.075715	.032899	-.036540	.057816
26	-.040107	-.015139	-.046837	.013971	-.022273	.052872
27	-.056802	-.029770	-.040119	-.012707	.003987	.038400
28	-.010294	-.053126	-.110308	-.021052	.006883	.087438
29	.007579	-.111234	-.154462	.024743	-.008636	.091323
30	-.013881	-.134330	-.150733	.069127	-.022058	.050028

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	.023219	-.018335	-.015468	-.006326	-.009944	.044344
1	.094275	-.312306	-.175930	-.032024	-.125826	.616365
2	.116237	-.426401	-.215820	-.091913	-.159034	.931401
3	.096978	-.432264	-.194235	-.141335	-.122934	.939572
4	-.084903	-.331661	-.134851	-.041277	-.027690	.476273
5	-.163853	-.316720	-.122958	.032617	-.007357	.344819
6	-.093210	-.298321	-.095426	-.010599	-.017298	.448062
7	.037334	-.245230	-.081172	-.044228	-.022330	.409797
8	.129296	-.188085	-.073911	-.041580	-.027525	.265161
9-11	.044604	-.123226	-.035891	-.022500	-.017875	.189770
12-14	.000201	-.068702	-.013227	.026273	-.007369	.097331
15-21	-.026607	-.097372	-.019576	-.007367	-.006448	.116296
22-30	.006144	-.039868	-.008164	.003016	-.005832	.044849

RUN NO. 85A 40M 11-16-62 1116-1231 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
	0.11035 10E 01	0.63333 10E 00	0.18945 10E 00	0.56340 10E 00	0.16853 10E 00	0.96721 10E-01
1	.082315	-.019443	-.111266	-.004774	.001525	.069954
2	.107964	-.036086	-.156412	-.026614	.022124	.082320
3	.125341	-.037828	-.160833	-.037724	.031819	.062790
4	.104313	-.004207	-.147745	-.020193	.026584	.051094
5	.088376	.001897	-.135170	-.057594	.013495	.030268
6	.089679	.036574	-.126351	-.050470	.014218	.044083
7	.095576	-.048446	-.120913	-.020346	.022093	.005357
8	.070698	-.028547	-.079756	-.033356	-.001984	-.039638
9	.070281	.000768	-.063872	.002391	-.008196	-.014398
10	.065493	-.008442	-.062792	.020433	-.039948	.003178
11	.029863	-.028717	-.055231	.034413	-.029107	.012652
12	-.000232	-.028861	-.046598	.050184	-.038423	.025786
13	.022768	-.050585	-.031461	.044326	-.010025	-.014673
14	.027736	-.020615	-.022461	.101527	.023018	-.011441
15	-.026279	-.019892	.002730	.076939	.004550	.009590
16	-.066014	.016587	.043195	.017597	.001336	-.022124
17	-.055471	-.008042	.024558	.022040	.006431	-.033842
18	-.035780	-.002865	.020297	.029527	-.028803	-.016199
19	-.042445	-.016801	.035497	-.004858	-.065933	.007447
20	-.065435	-.000688	.058275	-.036733	-.050880	-.026997
21	-.054592	.017874	.068780	-.042306	-.032129	.009658
22	-.049782	.006134	.056803	-.056429	-.038482	-.018353
23	-.006778	.022629	.045330	-.059285	-.008380	-.038670
24	.008788	-.006655	.014793	-.049033	.006878	-.036270
25	.043013	-.013236	.009406	-.028570	.031249	-.027556
26	.070041	.003365	.032235	-.005020	.071004	-.032278
27	.007349	.011673	.070535	-.015008	.017952	-.030896
28	-.065743	.028316	.104648	-.033024	-.025077	-.037702
29	-.059929	-.005055	.063656	-.016427	-.042264	-.036099
30	-.063965	.025934	.041807	-.007525	-.032296	.026510

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	.384721	-.948484	-.102181	.043643	-.106877	.048680
2	.497940	-.523453	-.111636	-.029451	.072074	.118977
3	.443000	-.050254	-.091759	-.141935	.136278	.142281
4	.194653	.047518	-.055185	-.095622	.137156	.148052
5	.146415	-.244528	-.044655	.015004	.186726	.156872
6	.139964	-.426037	-.035754	.020818	.019876	.160046
7	.101797	-.394186	-.024361	.004401	-.108918	.117481
8	.092757	-.255165	-.015820	.001295	.003584	.035562
9-11	.076053	-.439383	-.014161	.001679	.034980	.029010
12-14	.022680	.262708	-.007888	-.000229	-.037414	.074838
15-21	.005273	-.007936	-.001794	.010968	-.018967	.007280
22-30	.015886	-.084252	-.000644	-.007862	.002191	-.006742

RUN NO. 85A 40M 11-16-62 1116-1231 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12405 10E 01	0.98169 10E 00	0.32334 10E 00	0.28932 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.570286	.586295	.355264	.701932
2	.292019	.348226	.105513	.419583
3	.128482	.235312	.076099	.240783
4	-.030754	.101096	-.026591	.088082
5	-.103909	.038167	-.065891	-.019844
6	-.096168	-.082017	-.083712	-.052120
7	-.098364	-.181514	-.087942	-.078086
8	-.124176	-.233414	-.152507	-.100641
9	-.151252	-.229585	-.129603	-.135560
10	-.179818	-.193755	-.186775	-.182369
11	-.175310	-.208086	-.133659	-.213861
12	-.160854	-.233436	-.146818	-.243373
13	-.130335	-.259833	-.238583	-.268693
14	-.148535	-.217715	-.159052	-.286367
15	-.118718	-.145678	-.071552	-.251773
16	-.087073	-.121803	-.120540	-.244409
17	-.072727	-.070224	.011071	-.205466
18	-.138567	-.045193	.100903	-.163699
19	-.165607	-.053355	.119500	-.097621
20	-.145320	-.033725	.167392	-.075629
21	-.043652	.044227	.113585	-.006404
22	.052390	.000892	.027232	.083571
23	.101179	-.018313	.061417	.142119
24	.090476	-.007133	.072544	.151375
25	.058887	.012442	.017381	.121041
26	-.015427	.003080	.059788	.097883
27	.014927	-.006290	.023336	.095602
28	.099427	.008759	-.025595	.150664
29	.173117	.054047	.000182	.180372
30	.244080	.118456	-.009801	.133426

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.008350	.008906	.008071	.046566
1	.128657	.122263	.153536	.464156
2	.163378	.158612	.302990	.543957
3	.157038	.160071	.384687	.446161
4	.122211	.102877	.227295	.239323
5	.104547	.062923	.147224	.220245
6	.077784	.049761	.195000	.207238
7	.075255	.037935	.175514	.167506
8	.075091	.024760	.122761	.132279
9-11	.042360	.027642	.127731	.075362
12-14	.021523	.025398	.098340	.045325
15-21	.025481	.018180	.118765	.041104
22-30	.020597	.017026	.088221	.024220

RUN NO. 85A 16M 11-16-62 1116-1231 EST
RUN NO. 85A 40M 11-16-62 1116-1231 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	.662744	.632268	.609363	.734059
1	.581011	.731413	.613458	.693080
2	.470165	.631898	.628576	.622993
3	.387380	.528209	.635700	.552301
4	.384066	.463103	.583212	.541433
5	.353775	.421516	.435335	.462066
6	.246473	.333146	.320901	.296375
7-8	.158720	.331375	.398468	.369141
9-11	.140071	.296288	.413883	.297670
12-15	.056381	.090189	.258823	.154239
16-20	.145304	.107625	.111321	.097853
21-27	.086957	.059875	.190042	.101735
28-36	.129542	.117098	.097514	.102576
37-47	.092915	.113584	.073364	.124992
48-60	.088247	.105307	.105321	.116493

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	.897236	.874040	.661554	.892751
1	.905263	.924997	.779577	.935718
2	.874383	.905209	.767227	.912127
3	.865303	.847151	.737437	.854935
4	.883141	.792010	.727979	.764592
5	.784185	.789613	.761768	.756967
6	.602900	.802363	.688120	.745356
7	.511482	.792142	.552990	.680539
8	.610036	.815912	.550392	.677262
9-11	.583636	.755527	.584213	.720699
12-14	.375064	.511388	.701575	.513375
15-21	.373496	.333131	.624565	.513331
22-30	.329382	.408749	.403126	.340862

RUN NO. 858 16M 11-16-62 1254-1347 EST

GROSS STATISTICS

CLEAR
UNSTABLE
LAND

WIND SPEED 6.88 M/SEC
SIGMA A 14.9 DEG
SIGMA E 6.1 DEG

WIND DIRECTION 311 DEG
SOLAR RADIATION 0.67
NET RADIATION 0.32

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.24807E 01	0.16386E 01	0.91842E 00	0.12070E 01
V	0.33492E 01	0.18724E 01	0.11227E 01	0.12260E 01
W	0.48417E-00	0.46337E-00	0.42790E-00	0.19525E-00
T	0.20383E-00	0.47016E-01	0.20155E-01	0.37950E-01
E	0.31571E 01	0.19893E 01	0.12345E 01	
GUSTINESS RATIOS				
U	0.22893	0.18606	0.13929	0.15968
V	0.26600	0.19889	0.15401	0.16094
W	0.10114	0.09894	0.09508	0.06423
COVARIANCES				
U,V	0.19378E-00	-0.19728E-01	-0.44945E-02	0.31320E-02
U,W	-0.48796E-00	-0.42396E-00	-0.28642E-00	-0.30237E-00
U,T	-0.41940E-00	-0.16515E-00	-0.56910E-01	-0.14660E-00
V,W	-0.93430E-02	0.24556E-01	0.89392E-02	-0.16263E-01
V,T	-0.40181E-00	-0.11916E-00	-0.69950E-01	-0.83660E-01
W,T	0.60503E-01	0.48468E-01	0.30733E-01	0.37548E-01
WE	-0.65919E-01	-0.42534E-01	0.44437E-01	
NORMALIZED COVARIANCES				
U,V	0.06723	-0.01126	-0.00443	0.00257
U,W	-0.44524	-0.48655	-0.45688	-0.62288
U,T	-0.58980	-0.59500	-0.41829	-0.68500
V,W	-0.00734	0.02636	0.01290	-0.03324
V,T	-0.48631	-0.40160	-0.46501	-0.38785
W,T	0.19259	0.32837	0.33093	0.43621

RUN NO. 858 16M 11-16-62 1254-1347 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10154 10E 01	0.62688 10E 00	0.13607 10E 00	0.69311 10E 00	0.15044 10E 00	0.92884 10E-01
0	-.004026	-.457326	-.418443	.012724	-.465245	.330945
1	.004284	-.397296	-.382758	-.001047	-.375669	.303029
2	.006441	-.319410	-.327524	-.015334	-.270303	.253150
3	.011535	-.253506	-.282554	-.017220	-.192496	.200521
4	.018930	-.194674	-.242893	-.011438	-.140197	.151129
5	.027121	-.143200	-.208806	-.004848	-.100436	.119583
6	.033084	-.100547	-.173864	-.002669	-.071562	.102050
7	.035909	-.065736	-.149179	.003951	-.037946	.082841
8	.035683	-.038134	-.128786	.003498	-.004141	.065818
9	.039638	-.017175	-.114028	-.006059	.017616	.053311
10	.045490	.003721	-.091825	-.015892	.024777	.035209
11	.037718	.025923	-.057350	-.014272	.031438	.006178
12	.022062	.044973	-.018230	.000454	.037213	-.020368
13	.006113	.064254	.021384	.015490	.041002	-.038565
14	-.005754	.081866	.057431	.029177	.051076	-.054716
15	-.015139	.095809	.082643	.037673	.067218	-.066816
16	-.022901	.108581	.104900	.041715	.087182	-.084551
17	-.028860	.116577	.127098	.034806	.103251	-.101004
18	-.033892	.112441	.145274	.027489	.110569	-.107009
19	-.043325	.108247	.160022	.026889	.109984	-.111968
20	-.050718	.115926	.171398	.032521	.113910	-.121207
21	-.049956	.115185	.167919	.034903	.109885	-.119696
22	-.047086	.109022	.161371	.032320	.105503	-.114773
23	-.040824	.105829	.149492	.026531	.112568	-.105487
24	-.034094	.109735	.139408	.025850	.115399	-.108008
25	-.032627	.118700	.131778	.030517	.117803	-.116121
26	-.032092	.125557	.127760	.023880	.115361	-.112831
27	-.029192	.114948	.121906	.004493	.104978	-.100758
28	-.025348	.096971	.115951	-.020835	.081843	-.092303
29	-.020894	.083915	.107507	-.033338	.063364	-.080573
30	-.019476	.073672	.089998	-.034807	.048515	-.073195
31	-.016556	.061385	.070602	-.033722	.029906	-.060316
32	-.013167	.050720	.050071	-.039687	.011487	-.037328
33	-.006207	.030227	.028502	-.045699	-.007033	-.014013
34	-.005151	.014080	.014909	-.032112	-.021855	-.006533
35	-.012929	.002882	.023875	-.023163	-.031541	-.011923
36	-.014385	-.005890	.032523	-.020690	-.037224	-.015219
37	-.001071	-.000023	.031528	-.022417	-.040153	-.010357
38	.016557	.007865	.027128	-.028635	-.052677	-.002475
39	.022531	.003536	.021232	-.032601	-.055392	.004813
40	.027988	-.005357	.015599	-.027966	-.042841	.009957
41	.033715	-.006542	.010774	-.025958	-.029271	.006605
42	.036196	.000670	.001970	-.021756	-.013111	-.003741
43	.030559	-.002693	-.002761	-.014310	-.005448	-.012355
44	.021459	-.014643	-.007330	-.005826	.007658	-.005232
45	.010425	-.017989	-.008084	.009480	.020665	-.000913
46	.005448	-.017873	-.008556	.021587	.021304	.002123
47	.001138	-.018622	-.003170	.019419	.012767	.001813
48	-.002032	-.024265	-.003975	.015986	.010983	-.000557
49	-.007468	-.034744	-.009440	.019292	.007547	.003880
50	-.010690	-.035397	-.016140	.018808	.001114	.004473
51	-.013605	-.030343	-.016519	.020070	-.004444	.009945
52	-.010192	-.029620	-.020108	.022606	-.009707	.019197
53	-.004081	-.026245	-.022245	.010086	-.010942	.024692
54	.005063	-.022342	-.027810	-.002796	-.015817	.031526
55	.009771	-.021727	-.029789	.002760	-.029665	.034288
56	.004300	-.017943	-.024446	.018250	-.032166	.027429
57	.000742	-.021413	-.015858	.020776	-.019480	.030774
58	-.000937	-.015844	-.008988	.009135	-.013251	.039065
59	.002259	-.007933	-.009505	-.007069	-.012784	.043583
60	.006503	-.002163	-.007184	-.019486	-.009342	.040134

RUN NO. 858 16M 11-16-62 1254-1347 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10154 10E 01	0.62688 10E 00	0.13607 10E 00	0.69311 10E 00	0.15044 10E 00	0.92884 10E-01
1	.009496	-.056886	-.050796	.007415	-.021231	.010817
2	.020301	-.080549	-.083801	.007794	-.020631	.015256
3	.019310	-.078994	-.097205	.003016	-.013893	.020000
4	.012928	-.064826	-.101556	-.009039	-.009688	.019948
5	.004044	-.059096	-.101152	-.012747	-.003938	.019613
6	-.004963	-.054128	-.096526	-.012595	.001247	.029802
7	-.004529	-.051032	-.096078	-.017989	.000377	.035836
8	-.009655	-.049804	-.098034	-.010687	-.008380	.042217
9	-.019636	-.049822	-.101202	-.012065	-.015999	.037252
10	-.027085	-.056068	-.103162	-.025108	-.028535	.027241
11	-.021533	-.058825	-.110760	-.030019	-.028110	.032638
12	-.018614	-.051712	-.111015	-.033677	-.023507	.038315
13	-.016162	-.051695	-.106054	-.035260	-.025409	.041018
14	-.023188	-.049114	-.094183	-.037790	-.034555	.040573
15	-.033440	-.045305	-.074770	-.036244	-.046208	.042206
16	-.041658	-.033603	-.056368	-.036087	-.050650	.038185
17	-.052844	-.021522	-.037233	-.040768	-.046836	.028164
18	-.058570	-.014198	-.019708	-.039179	-.040970	.025549
19	-.054864	-.013280	-.012470	-.033614	-.032846	.026049
20	-.043869	-.009304	-.011875	-.028144	-.032221	.028282
21	-.031253	-.000598	-.018829	-.023772	-.030381	.029884
22	-.019254	.009254	-.022510	-.016591	-.029093	.036504
23	-.012300	.020538	-.022234	-.016297	-.026426	.035235
24	-.011171	.026360	-.021458	-.007438	-.023282	.036545
25	-.019731	.024904	-.012199	.005906	-.016944	.032865
26	-.032655	.025595	.001931	.013592	-.016395	.018830
27	-.045939	.023496	.017615	.008718	-.017378	-.001816
28	-.050559	.015183	.024664	.008489	-.019893	-.005629
29	-.054912	.012222	.032906	.006949	-.027458	-.005628
30	-.053563	.015033	.037486	.004400	-.028328	.002225
31	-.051895	.016409	.044112	.005431	-.028166	.002608
32	-.052750	.018942	.050476	.002004	-.022692	-.003279
33	-.051395	.018206	.053944	-.003394	-.017991	-.013772
34	-.047782	.011167	.053225	-.005034	-.011317	-.017448
35	-.037642	.005556	.049988	.005610	.000012	-.019418
36	-.018546	.009328	.043179	.013754	.015826	-.021294
37	.000418	.015263	.039662	.018852	.023515	-.024427
38	.019240	.023137	.035689	.019854	.027273	-.032596
39	.045219	.032092	.025183	.023023	.026202	-.034485
40	.069537	.038307	.015883	.030299	.026641	-.033711
41	.082821	.039177	.012456	.040362	.034349	-.030082
42	.090797	.035076	.011514	.050348	.039932	-.019306
43	.091976	.027007	.010044	.049784	.043721	-.016998
44	.100461	.012053	.002130	.040588	.044352	-.021709
45	.106234	.009436	-.012671	.028798	.040686	-.017679
46	.101616	.006056	-.027495	.020790	.027569	-.011294
47	.090114	.001350	-.033888	.019935	.017470	.005120
48	.074313	-.004480	-.035135	.021760	.012758	.013220
49	.063327	-.008628	-.031917	.023431	.010646	.011360
50	.050116	-.013965	-.026390	.010688	.007786	.005854
51	.032853	-.018221	-.016840	.000596	.004858	.005589
52	.016921	-.022685	-.009085	-.012516	.000566	.002752
53	.000400	-.024812	-.002191	-.018416	-.008883	-.002189
54	-.014568	-.024951	.000572	-.016594	-.013758	-.001673
55	-.031914	-.018028	.002915	-.018758	-.015437	.000596
56	-.046924	-.009590	.004712	-.016925	-.012663	.007784
57	-.056425	-.001849	.004919	-.013544	-.008907	.015269
58	-.061601	.009895	.008319	-.015163	-.008975	.017322
59	-.063655	.009973	.005270	-.021475	-.016835	.019079
60	-.063359	.009223	-.002954	-.023377	-.028598	.022589

RUN NO. 85B 16M 11-16-62 1254-1347 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.91835 10E 00	0.11226 10E 01	0.42792 10E 00	0.20161 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.832064	.786636	.705968	.827122
2	.644014	.545846	.424748	.623246
3	.497169	.372742	.255591	.475302
4	.376917	.253686	.153973	.373321
5	.279328	.179119	.092474	.298345
6	.198221	.129621	.038796	.246452
7	.130929	.090268	-.016964	.200669
8	.073860	.049429	-.057551	.152848
9	.038322	.003738	-.077433	.111885
10	-.007566	-.040613	-.098292	.082464
11	-.055503	-.069631	-.122433	.046401
12	-.096363	-.083317	-.128251	.005246
13	-.135216	-.085694	-.115035	-.038861
14	-.167624	-.090665	-.098452	-.078437
15	-.190867	-.100362	-.091238	-.115141
16	-.213736	-.120709	-.087579	-.153800
17	-.224328	-.134173	-.087100	-.184097
18	-.232024	-.141644	-.089722	-.207792
19	-.236763	-.149217	-.098183	-.221981
20	-.233806	-.154530	-.113660	-.238554
21	-.230715	-.156456	-.126168	-.245496
22	-.219778	-.165053	-.132841	-.253498
23	-.214440	-.179399	-.130501	-.259194
24	-.204297	-.193831	-.141894	-.254447
25	-.196006	-.197784	-.157193	-.253366
26	-.195679	-.193427	-.167411	-.251509
27	-.185171	-.191044	-.147708	-.237116
28	-.171600	-.169901	-.137099	-.212726
29	-.150545	-.147417	-.125605	-.195062
30	-.131052	-.125646	-.105407	-.170800
31	-.102762	-.109029	-.064246	-.132580
32	-.067530	-.100887	-.030431	-.099867
33	-.034719	-.085645	.005553	-.075356
34	-.016736	-.067257	.033413	-.049340
35	-.015618	-.055044	.036061	-.032297
36	-.011994	-.039935	.023903	-.024118
37	-.004882	-.029202	.007938	-.019625
38	.001797	-.014666	.006682	-.003700
39	.011817	.001879	.006045	-.001366
40	.016443	.014849	.004774	-.015226
41	.017224	.016917	.012148	-.017655
42	.018028	.007483	.011465	-.016845
43	.028108	-.003690	.006601	-.006166
44	.035646	-.020743	.021447	.003710
45	.045637	-.027885	.031340	.003718
46	.049226	-.021162	.022880	.001726
47	.049219	-.011317	.029813	.003158
48	.047047	-.003788	.045654	.001731
49	.049953	.015843	.063612	.000784
50	.048777	.030976	.045293	-.002588
51	.044342	.046067	.012932	-.003908
52	.042360	.053998	-.011407	.000025
53	.041041	.052082	-.031250	.001728
54	.034322	.046054	-.030607	.008464
55	.027982	.049992	-.013278	.021894
56	.014258	.054263	-.000433	.018708
57	-.001142	.044553	.014565	.010403
58	-.003361	.033331	.014102	.012881
59	-.003146	.033285	.004476	.015828
60	-.010633	.030003	.004558	.015541

RUN NO. 858 16M 11-16-62 1254-1347 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-01	10E-02
0	-.008385	-.033154	-.016051	.102567	-.005554	.037991
1	.058847	-.363432	-.121315	.476548	-.063386	.485609
2	.142920	-.489353	-.135481	-.053625	-.094097	.642841
3	.139852	-.516662	-.126945	-.848569	-.112750	.645251
4	-.005158	-.333351	-.067441	-.623683	-.072513	.363661
5	-.091089	-.200264	-.021209	.270775	-.034758	.147822
6	-.090930	-.163442	-.006148	.405435	-.038269	.108394
7-8	-.060051	-.115916	-.009471	.055330	-.035559	.095654
9-11	.000263	-.079201	-.013981	-.019488	-.023392	.086710
12-15	.004728	-.041475	-.007673	.005205	-.010735	.058060
16-20	-.008249	-.022740	-.001412	.155857	-.011155	.018770
21-27	.003410	-.016024	-.002870	.025630	-.006351	.011301
28-36	-.002514	-.008649	-.001229	.054618	-.003380	.000048
37-47	-.002929	-.006840	-.000674	.011304	-.002384	.005058
48-60	-.002646	-.003998	-.000314	.011838	-.001649	.001003

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	-.230608	-.059697	-.358559	-.072837	-.294681	.163738
2	-.170767	-.122156	-.506920	-.101436	-.240035	.176685
3	.044417	-.149847	-.563317	-.059053	-.055521	.108352
4	.051627	-.103884	-.312311	.002240	.048112	.008953
5	-.018599	-.061909	-.171006	.020306	.010870	.014052
6	.089908	-.022239	-.154561	.037869	.052137	.025158
7-8	.015918	-.031721	-.032748	-.001533	.000619	.005366
9-11	.024615	-.038408	-.078552	.003782	-.031339	.001382
12-15	.010418	-.030696	-.049836	.004954	-.028935	-.005236
16-20	.009986	-.016615	-.018900	.010325	-.023913	.012456
21-27	-.000307	-.009646	-.007953	-.000189	-.008613	.000801
28-36	-.001242	-.001574	-.004625	.001042	-.008197	.000265
37-47	-.002294	-.000179	.000444	-.000227	-.002689	.001792
48-60	-.000133	-.001481	.000068	.000209	-.000273	-.000722

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.012652	.012323	.017288	.041961
1	.108790	.120464	.254923	.313185
2	.140471	.146528	.383940	.346036
3	.152809	.144375	.446810	.326361
4	.103420	.094903	.328366	.181483
5	.063225	.067767	.258183	.085713
6	.048061	.066967	.284148	.076639
7-8	.035559	.053613	.245591	.074299
9-11	.026348	.033929	.134613	.059153
12-15	.015943	.025717	.106636	.037547
16-20	.008723	.019097	.079681	.025367
21-27	.006596	.009716	.060855	.015622
28-36	.003929	.006472	.033770	.009612
37-47	.002928	.004533	.026733	.005967
48-60	.002132	.002989	.018322	.004215

RUN NO. 858 16M 11-16-62 1254-1347 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
	0.12172 10E 01	0.48566 10E 00	0.21413 10E 00	0.48943 10E 00	0.21579 10E 00	0.86102 10E-01
0	.002573	-.622601	-.684652	-.033229	-.387693	.436094
1	-.008550	-.295189	-.524328	.044313	-.259447	.218707
2	-.060382	-.105278	-.307413	.079272	-.154113	.030490
3	-.036062	-.037722	-.201029	-.015742	-.136846	.004286
4	-.010023	.009428	-.096469	-.048732	-.122772	-.026238
5	.016396	.062796	-.021889	-.028026	-.103384	-.037806
6	.040256	.063026	.026218	-.078118	-.099413	.002292
7	.065068	.076901	.068439	-.061988	-.044891	.011477
8	.063265	.057599	.088681	-.041679	.015542	-.008464
9	.029395	.176988	.152738	-.000418	.075241	-.077863
10	.022342	.073943	.118566	.028582	.082783	-.041037
11	.038434	.040699	.096280	-.030563	.087524	-.005386
12	.014953	.118648	.130458	-.005970	.094295	-.038570
13	.039726	.052437	.116002	-.021046	.085227	-.037493
14	.066564	-.039835	.064177	-.004188	.062962	-.020828
15	.007022	-.020569	.059730	.027765	.078415	-.036157
16	-.034001	-.060624	.041466	.060527	.091407	.011364
17	-.017948	-.101158	.022899	-.014754	.078202	.047600
18	-.030496	-.030559	.063832	.030393	.096035	.001435
19	-.051020	.087760	.116501	.062570	.125525	-.083379
20	-.069545	.148810	.198827	.082344	.159303	-.153037
21	-.083811	.095451	.209408	.041630	.155343	-.108885
22	-.067878	.082075	.191578	.018571	.120347	-.080442
23	-.048776	.076899	.180445	.000449	.109703	-.040075
24	-.026452	.066114	.116142	-.068931	.101352	.005325
25	-.030214	.076971	.064645	-.075014	.127127	.024540
26	-.068980	.091734	.032433	.023426	.170230	-.003784
27	-.070879	-.019939	-.031256	.036722	.167502	.013645
28	-.101023	.007149	-.060470	.070570	.125139	-.010992
29	-.076874	-.040898	-.098621	.060860	.055831	.003358
30	.004310	-.069455	-.153766	-.003561	-.010346	.053169

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	.032429	-.026185	-.041039	-.119425	-.030112	.047080
1	.146719	-.243747	-.298030	-.650629	-.238894	.377470
2	-.107097	-.253682	-.254480	-.107679	-.179640	.321265
3	-.278854	-.334590	-.219947	.713499	-.104798	.284348
4	-.126738	-.364314	-.193320	.791570	-.058852	.217855
5	-.037719	-.204820	-.112233	.542335	-.017177	.234552
6	-.049240	-.120233	-.064809	.691647	.001417	.179201
7	.031478	-.188442	-.078110	.343720	-.017003	.291660
8	.119702	-.175931	-.055845	-.048305	-.034635	.255419
9-11	.082800	-.123080	-.041190	-.360920	-.035225	.223624
12-14	.043185	-.076934	-.021857	-.164046	-.017721	.086549
15-21	.024058	-.077390	-.017322	-.490820	-.016086	.115156
22-30	-.022159	-.069398	-.005407	-.012578	-.006971	.048471

RUN NO. 858 16M 11-16-62 1254-1347 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
	0.12172 10E 01	0.48566 10E 00	0.21413 10E 00	0.48943 10E 00	0.21579 10E 00	0.86102 10E-01
1	-.033638	-.029708	-.095422	-.038946	-.031557	.084767
2	-.054188	.083229	-.113906	-.059833	-.042317	.158517
3	-.070165	.097061	-.118672	-.048972	-.029291	.154839
4	.015957	.123827	-.127162	-.004890	.008403	.135320
5	.022165	.120383	-.133957	-.027542	.003313	.145694
6	-.007661	.109808	-.133830	-.053778	-.012468	.132716
7	.012813	.087558	-.109289	-.036905	.002319	.084745
8	.021614	.051031	-.094291	-.092891	.007043	.045122
9	.010786	.063517	-.073533	-.059985	.003578	.083472
10	-.014841	.041670	-.047584	-.075468	-.002674	.048662
11	-.029045	-.018706	-.000787	-.070920	-.021988	-.006193
12	-.033473	-.001999	.006263	-.061929	-.024666	-.035317
13	-.016931	-.039585	.007436	-.043172	-.062369	-.065330
14	-.012174	-.053665	-.013035	-.023751	-.047690	-.077070
15	.052628	-.069567	-.033504	.016343	-.032495	-.081717
16	.061143	-.057714	-.050870	.050303	-.002744	-.040017
17	.034078	-.007615	-.041564	.037326	-.008500	.007748
18	.068534	.036587	-.057900	.020294	.021550	.041101
19	.080263	.045260	-.076096	.081669	.041072	.086976
20	.089651	.094724	-.061486	.087721	.033711	.082618
21	.055319	.051427	-.009609	.084178	.068582	.025686
22	.069405	-.036982	-.008007	.114857	.077241	-.006449
23	.029598	-.054018	.042351	.089183	.079445	-.039890
24	.006114	-.096812	.079511	.093515	.037314	-.057543
25	-.081662	-.074281	.119707	.019600	-.044960	-.072492
26	-.114440	-.059654	.149451	.025608	-.081544	-.067626
27	-.106000	-.024914	.143521	-.013257	-.087349	-.075939
28	-.061138	-.023561	.116303	.032990	-.070958	-.046503
29	-.076734	-.041834	.122412	.032838	-.066294	-.065683
30	-.086471	-.028820	.106453	-.001085	-.078694	-.048764

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	.111795	.139108	-.128042	-.122451	-.184150	.307680
2	-.106262	.167289	-.096368	-.169299	-.183205	.363456
3	-.078569	.201895	-.084624	-.063230	.065734	.478098
4	.060044	.151838	-.083871	.037536	.059736	.404035
5	-.113400	.010904	-.033889	.003707	-.268982	.112751
6	-.200420	-.013587	-.001497	-.023963	-.195838	.054933
7	-.154088	.032822	-.009380	-.044386	-.083737	.170970
8	-.087193	-.019611	-.014219	-.037474	-.048168	.104668
9-11	-.067984	-.028923	-.012100	-.034123	-.120887	.017808
12-14	-.019642	-.023107	-.010991	-.010185	-.061913	.049032
15-21	.052220	-.025640	-.004744	.011802	.033362	-.019354
22-30	-.043583	-.027337	-.000921	-.005038	-.027527	-.003626

RUN NO. 85B 16M 11-16-62 1254-1347 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12078 10E 01	0.12266 10E 01	0.19529 10E 00	0.37962 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.591966	.657261	.166018	.758637
2	.323663	.408552	.016519	.493327
3	.204039	.264858	-.061550	.322649
4	.085882	.173063	-.089020	.196298
5	-.015933	.110394	-.083315	.102495
6	-.096632	.089026	-.031069	.031445
7	-.137160	-.003259	.007565	-.038612
8	-.152663	-.063852	-.010448	-.120307
9	-.214941	-.126009	-.167611	-.197020
10	-.157423	-.172107	-.030935	-.214195
11	-.127519	-.265284	-.048470	-.221972
12	-.168455	-.277954	-.192870	-.236473
13	-.122645	-.280317	-.035469	-.243829
14	-.026445	-.274475	-.020690	-.198053
15	-.031739	-.258446	.003087	-.189539
16	.028936	-.237996	.083953	-.140100
17	.050214	-.191200	.140045	-.109044
18	.003156	-.153613	.017153	-.139099
19	-.078348	-.149202	-.105523	-.193325
20	-.174451	-.206693	-.220883	-.283502
21	-.162301	-.228388	-.029541	-.296687
22	-.173851	-.166964	-.110315	-.254703
23	-.225904	-.118256	-.001602	-.200495
24	-.204971	-.069884	.031862	-.113117
25	-.173229	-.025356	.022510	-.039640
26	-.146564	-.027058	-.048530	.004247
27	.006904	.022295	-.018689	.047999
28	.060102	.077189	-.061303	.073028
29	.119253	.073210	.028253	.118419
30	.176003	.016484	.086431	.178368

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.023703	.025924	.004566	.105725
1	.168573	.255497	.073566	.859033
2	.153954	.245056	.090052	.773388
3	.165885	.171407	.114007	.595971
4	.154086	.087666	.119571	.414374
5	.084065	.051348	.076066	.223472
6	.053642	.051943	.067052	.138326
7	.060308	.064083	.128877	.185348
8	.045526	.051348	.128076	.139977
9-11	.034768	.038508	.091501	.107889
12-14	.028222	.026815	.059230	.052835
15-21	.023590	.018097	.070396	.038989
22-30	.019677	.014890	.096564	.023347

RUN NO. 85B 40M 11-16-62 1254-1347 EST

GROSS STATISTICS

CLEAR	WIND SPEED 7.47 M/SEC	WIND DIRECTION 316 DEG	
UNSTABLE	SIGMA A 12.4 DEG	SOLAR RADIATION 0.67	
LAND	SIGMA E 7.7 DEG	NET RADIATION 0.32	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.35405E 01	0.21431E 01	0.11830E 01	0.16864E 01
V	0.26742E 01	0.13585E 01	0.91275E 00	0.87896E 00
W	0.73662E 00	0.71495E 00	0.61654E 00	0.34621E-00
T	0.19377E-00	0.29574E-01	0.13289E-01	0.24582E-01
E	0.34757E 01	0.21125E 01	0.13561E 01	
GUSTINESS RATIOS				
U	0.25189	0.19598	0.14560	0.17384
V	0.21892	0.15603	0.12790	0.12551
W	0.11490	0.11319	0.10511	0.07877
COVARIANCES				
U,V	0.27884E-01	-0.31587E-01	0.13258E-02	-0.51380E-01
U,W	-0.69088E 00	-0.52004E 00	-0.31277E-00	-0.41380E-00
U,T	-0.47809E-00	-0.16554E-00	-0.54603E-01	-0.14976E-00
V,W	-0.23795E-02	0.50838E-01	0.32548E-01	0.51491E-01
V,T	-0.24557E-00	-0.58471E-01	-0.43548E-01	-0.40104E-01
W,T	0.87902E-01	0.54187E-01	0.33505E-01	0.41414E-01
WE	0.33390E-00	0.28544E-00	0.22663E-00	
NORMALIZED COVARIANCES				
U,V	0.00906	-0.01851	0.00128	-0.04220
U,W	-0.42781	-0.42012	-0.36623	-0.54155
U,T	-0.57722	-0.65755	-0.43549	-0.73552
V,W	-0.00170	0.05158	0.04339	0.09334
V,T	-0.34114	-0.29171	-0.39540	-0.27283
W,T	0.23267	0.37265	0.37015	0.44891

RUN NO. 85B 40M 11-16-62 1254-1347 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.10390 10E 01	0.85402 10E 00	0.12539 10E 00	0.75019 10E 00	0.11014 10E 00	0.90535 10E-01
0	.001280	-.366250	-.435540	.043480	-.395388	.370122
1	-.005665	-.348932	-.418670	.050868	-.333297	.335794
2	-.010192	-.302836	-.378738	.050347	-.251362	.280402
3	-.015990	-.248479	-.332751	.039947	-.189539	.227091
4	-.020096	-.201113	-.287797	.033733	-.139305	.176973
5	-.020694	-.157370	-.245261	.024931	-.093181	.133050
6	-.022016	-.115284	-.208797	.028559	-.051410	.092806
7	-.018541	-.072238	-.174336	.032175	-.018235	.055231
8	-.011434	-.043405	-.136304	.034875	.008861	.024951
9	-.008334	-.027747	-.093636	.031106	.025781	-.002789
10	-.003937	-.017568	-.056525	.031809	.040333	-.032163
11	-.002886	-.001118	-.025717	.038992	.049158	-.052995
12	-.001362	.019386	-.003781	.036619	.052582	-.058983
13	.000394	.029664	.011434	.028110	.052841	-.056046
14	.002180	.037607	.026007	.016692	.052856	-.048723
15	-.001270	.047263	.041915	.007126	.056868	-.043968
16	-.007195	.057877	.061126	-.005110	.063360	-.039203
17	-.011900	.066413	.080335	-.015364	.079234	-.035256
18	-.010631	.077470	.097818	-.024020	.089788	-.040310
19	-.010316	.089826	.114267	-.024558	.100097	-.054624
20	-.007446	.091447	.129979	-.026799	.109101	-.071542
21	.000139	.088390	.139948	-.031530	.113216	-.082319
22	.006820	.092605	.153190	-.036743	.115121	-.090386
23	.012789	.099398	.168190	-.032639	.116744	-.099836
24	.021186	.117079	.178015	-.025176	.114429	-.110576
25	.030583	.132991	.183299	-.029800	.108107	-.116046
26	.042798	.140019	.180670	-.033591	.095049	-.114789
27	.053566	.136748	.165918	-.032094	.075107	-.113242
28	.054621	.128567	.150601	-.035655	.057125	-.106767
29	.052936	.119479	.136432	-.046955	.037152	-.092751
30	.057056	.111759	.120694	-.063515	.017251	-.072291
31	.054404	.101448	.108049	-.073132	-.001166	-.054062
32	.044795	.093034	.096852	-.070428	-.018726	-.042115
33	.030130	.077511	.088501	-.058843	-.028264	-.034837
34	.022454	.057786	.079371	-.045486	-.026550	-.026694
35	.014833	.044114	.070597	-.032396	-.024302	-.017761
36	.006056	.037042	.060434	-.022592	-.025884	-.008072
37	.006486	.039008	.046098	-.012967	-.032205	-.005982
38	.006504	.047977	.036132	-.009073	-.036477	-.007705
39	.009486	.053452	.025053	-.013420	-.041815	-.010929
40	.011976	.050012	.020307	-.017867	-.045473	-.018490
41	.007217	.044996	.017005	-.016406	-.041055	-.027086
42	-.004006	.034855	.016265	-.007684	-.024818	-.033270
43	-.013933	.026013	.014989	.004526	-.006708	-.030091
44	-.023728	.021737	.009380	.012056	.007529	-.020643
45	-.030390	.009648	-.003103	.013113	.013847	-.010049
46	-.031836	-.014116	-.014926	.005068	.018492	.001553
47	-.041602	-.035814	-.023051	.002196	.021230	.010871
48	-.050873	-.048780	-.029184	.004797	.021252	.018807
49	-.054842	-.056608	-.033040	.008251	.024505	.029080
50	-.060195	-.056833	-.029759	.019535	.026741	.035309
51	-.059163	-.058675	-.031081	.031908	.019653	.032986
52	-.059229	-.064111	-.034435	.033853	.003226	.035025
53	-.062858	-.071211	-.039686	.032195	-.016459	.043467
54	-.063587	-.072846	-.036898	.035217	-.030019	.051249
55	-.052477	-.068707	-.030824	.035492	-.035718	.054028
56	-.037146	-.063327	-.026116	.032007	-.034602	.051048
57	-.024018	-.060659	-.021453	.024606	-.030963	.042640
58	-.013299	-.053612	-.017808	.014541	-.024796	.029248
59	.001516	-.048455	-.017287	.011523	-.019247	.022275
60	.017727	-.044368	-.016537	.004208	-.010466	.017113

RUN NO. 85B 40M 11-16-62 1254-1347 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10390 10E 01	0.85402 10E 00	0.12539 10E 00	0.75019 10E 00	0.11014 10E 00	0.90535 10E-01
1	.014795	-.003644	-.055070	-.004964	-.021453	.005881
2	.024957	-.016120	-.096433	-.020647	-.032154	.016005
3	.029605	-.031522	-.123492	-.035157	-.036195	.022671
4	.027083	-.045158	-.136517	-.040109	-.035006	.025662
5	.021998	-.054778	-.148349	-.038374	-.035142	.027309
6	.014814	-.059638	-.158072	-.037605	-.031123	.023424
7	.007101	-.060144	-.160951	-.045146	-.029699	.017559
8	.002060	-.059154	-.164695	-.056523	-.026068	.008980
9	-.000820	-.059929	-.158650	-.064972	-.017739	.000424
10	-.009146	-.061280	-.149633	-.063730	-.016606	-.002284
11	-.015281	-.051171	-.138247	-.061520	-.016266	-.000209
12	-.019550	-.039133	-.124573	-.057470	-.013914	-.003000
13	-.017738	-.034458	-.111557	-.039534	-.007455	-.002670
14	-.011206	-.037316	-.095925	-.020603	-.002090	-.000716
15	-.007673	-.038803	-.079981	-.009813	-.000440	.001626
16	-.007060	-.035752	-.065714	-.013115	-.002591	-.000289
17	-.005082	-.026782	-.054076	-.016250	-.007822	-.006217
18	-.011651	-.019066	-.037963	-.021584	-.015192	-.009141
19	-.026383	-.015945	-.017737	-.027179	-.017634	-.001873
20	-.036358	-.014052	-.004027	-.032226	-.017854	.003190
21	-.040216	-.015981	.003192	-.032678	-.015114	.005309
22	-.038059	-.017654	.005854	-.039363	-.013782	-.001518
23	-.035699	-.013297	.011841	-.039191	-.011521	-.006027
24	-.035520	-.004342	.018372	-.026057	-.007891	-.004927
25	-.035478	.011660	.025000	-.011898	-.005971	-.001108
26	-.033989	.026748	.037973	.002414	-.002095	.007539
27	-.029296	.038476	.045593	.016108	.006476	.014640
28	-.028598	.037763	.051808	.020714	.012588	.021814
29	-.025644	.043195	.057142	.023583	.019797	.027006
30	-.022160	.043686	.059744	.029536	.026713	.028408
31	-.014693	.036091	.056957	.042231	.033244	.034723
32	-.004511	.025287	.050318	.048609	.033348	.039024
33	-.001643	.017119	.042497	.049175	.024449	.042008
34	.001697	.012502	.035076	.050782	.018502	.040128
35	.004465	.014141	.029933	.050818	.011199	.027793
36	.016775	.013594	.027031	.047329	.004109	.016431
37	.034209	.008006	.021241	.045408	-.002441	.006944
38	.043663	.006533	.020236	.045687	-.006975	.005068
39	.045941	.007517	.018986	.047046	-.008117	.001512
40	.047852	.006240	.011232	.036726	-.008597	-.005054
41	.044922	.002368	.000218	.019146	-.006925	-.010439
42	.034738	.001100	-.010995	.008659	-.001975	-.011970
43	.028833	.009101	-.014227	.005501	-.001143	-.008787
44	.032166	.014199	-.014090	.005605	-.000687	-.003136
45	.034106	.016824	-.013007	.015512	-.000586	.004908
46	.035102	.019310	-.016898	.028768	-.001060	.001616
47	.034009	.013942	-.022675	.033098	-.000119	-.002723
48	.032758	.007312	-.023823	.024638	.002012	-.002822
49	.034493	-.001861	-.026547	.015716	.006603	-.002931
50	.030088	-.007170	-.023495	.012097	.017168	.001297
51	.021672	-.005370	-.018387	.006742	.026089	.002384
52	.014472	-.007111	-.017445	.003996	.032732	-.002878
53	.008014	-.013053	-.009652	-.004963	.042524	-.014388
54	.005080	-.019337	.000918	-.004234	.045566	-.023980
55	.000098	-.020526	.009442	-.003405	.040321	-.024809
56	-.004218	-.016737	.016104	.000602	.038189	-.022973
57	.000[illegible]6	-.013387	.017747	-.003027	.037213	-.019698
58	.004[illegible]7	-.007353	.014062	-.008284	.033972	-.015686
59	.002504	-.003779	.010257	-.013186	.030451	-.013229
60	-.000044	.002103	.004731	-.016000	.023014	-.009506

RUN NO. 858 40M 11-16-62 1254-1347 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11828 10E 01	0.91267 10E 00	0.61663 10E 00	0.13292 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.855621	.809782	.772983	.871715
2	.692091	.579991	.510989	.696484
3	.562829	.408225	.322299	.548916
4	.463462	.278523	.192559	.427062
5	.383338	.181866	.088977	.327523
6	.312111	.105642	.005905	.242281
7	.245995	.061131	-.060864	.169174
8	.177374	.037962	-.090330	.099834
9	.100953	.017136	-.102582	.044720
10	.038852	-.009264	-.106794	-.001803
11	-.017310	-.030720	-.103701	-.037472
12	-.058783	-.052107	-.095570	-.059748
13	-.098124	-.067772	-.097338	-.073568
14	-.130918	-.088910	-.097530	-.081881
15	-.157521	-.115497	-.109262	-.089782
16	-.179564	-.133670	-.119043	-.108466
17	-.194530	-.158643	-.113529	-.132830
18	-.216370	-.173678	-.117708	-.161403
19	-.237500	-.183142	-.134767	-.197195
20	-.251780	-.188367	-.144237	-.234901
21	-.263197	-.198685	-.137672	-.263806
22	-.269009	-.196137	-.126271	-.285855
23	-.279098	-.198801	-.116858	-.304532
24	-.281255	-.202672	-.126941	-.318195
25	-.280143	-.204272	-.143643	-.328786
26	-.276339	-.203567	-.144168	-.325957
27	-.263857	-.203500	-.142220	-.304683
28	-.253663	-.199439	-.131090	-.275251
29	-.232699	-.174116	-.117780	-.231981
30	-.209770	-.130382	-.088291	-.182916
31	-.180616	-.084160	-.049682	-.136057
32	-.156450	-.057151	-.022138	-.089766
33	-.131530	-.044409	-.024588	-.053057
34	-.097758	-.042606	-.033507	-.027750
35	-.075595	-.038937	-.023187	-.014669
36	-.060635	-.030265	.003072	-.001687
37	-.050028	-.023072	.014089	.012071
38	-.036569	-.021211	.002993	.026246
39	-.022283	-.015677	-.003239	.040705
40	-.016024	-.004687	-.004907	.047634
41	-.000727	.001119	-.010145	.042220
42	.003234	-.003126	-.016899	.027447
43	.005958	-.010652	-.012836	.013363
44	.013696	-.016089	.000765	.006241
45	.019564	-.017552	.010209	.002730
46	.023344	-.015509	.015674	.003474
47	.022730	-.023463	.009482	.013813
48	.027748	-.028076	.010533	.027562
49	.031409	-.018285	.025560	.035929
50	.027089	.001930	.050174	.039285
51	.032728	.022874	.068889	.044312
52	.032173	.033728	.070231	.054151
53	.032244	.048599	.063429	.070479
54	.027384	.063792	.066373	.085438
55	.024308	.075028	.083599	.091255
56	.029209	.074945	.094668	.090952
57	.036059	.076369	.077939	.079747
58	.039854	.069782	.045144	.058104
59	.039286	.053853	.011443	.031811
60	.033530	.036491	-.014662	.005138

RUN NO. 85B 40M 11-16-62 1254-1347 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-01	10E-02	10E-02
0	.010043	-.049558	-.018313	.006940	-.030242	.050063
1	-.057528	-.596391	-.136463	.152389	-.371873	.506201
2	-.127560	-.706613	-.143134	.174167	-.585042	.609592
3	-.035906	-.581923	-.117903	.082691	-.753674	.573434
4	.071226	-.313430	-.055022	-.021007	-.520011	.360696
5	.005370	-.218838	-.026010	-.017232	-.246054	.252749
6	-.045288	-.203227	-.023062	-.007123	-.257636	.271195
7-8	.006239	-.150781	-.018998	-.009819	-.281644	.210331
9-11	.026522	-.074985	-.004199	.029117	-.122662	.039294
12-15	.008300	-.022002	-.003729	.001200	-.064526	.043501
16-20	.003031	-.009384	-.002837	.002079	-.044863	.023148
21-27	.002429	-.013381	-.000327	-.006537	-.033319	.012188
28-36	.000930	.001261	-.000397	-.000658	-.019185	.005468
37-47	.001275	.000540	.000001	-.003187	-.011014	.004797
48-60	.001784	.000630	.000002	-.000941	-.006605	.002093

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	-.106855	-.086786	-.368075	-.071283	-.051285	.736373
2	-.093680	-.159204	-.556666	-.162234	-.090693	.103280
3	.049749	-.191538	-.727684	-.148836	-.104158	-.131258
4	.107881	-.109646	-.518509	-.041352	-.057330	.447658
5	.027153	-.031367	-.262602	-.026903	-.024533	.706810
6	.015850	-.025142	-.169842	-.062221	-.077368	.255734
7-8	.048903	-.035612	-.088428	-.010699	-.066209	.289712
9-11	.040610	.011871	-.041391	.024052	-.015191	.170703
12-15	.000103	.009557	-.022803	-.019936	-.017328	.003428
16-20	.009152	.002515	-.017633	.003990	-.002842	-.026067
21-27	-.001038	.002967	-.006016	.005714	-.006257	-.004345
28-36	.000894	.002756	-.001300	.002028	-.001749	-.021465
37-47	.000098	.000547	.000356	.000788	.000710	-.013794
48-60	.000382	.000376	-.000845	.000280	-.001547	.002249

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.021653	.009761	.027304	.024665
1	.194759	.100980	.410442	.198787
2	.228242	.124850	.598434	.238533
3	.212954	.125451	.681814	.232091
4	.121021	.081283	.538234	.12417
5	.069253	.050819	.432703	.064.
6	.058023	.049821	.431286	.079834
7-8	.039896	.046496	.385385	.074169
9-11	.021622	.033867	.255208	.028398
12-15	.017279	.019676	.132234	.019757
16-20	.012231	.011357	.090777	.012481
21-27	.006695	.007427	.067414	.007351
28-36	.004700	.004780	.037178	.004164
37-47	.002972	.003084	.024784	.002613
48-60	.002329	.001956	.017206	.001744

RUN NO. 85B 40M 11-16-62 1254-1347 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
	0.12172 10E 01	0.76459 10E 00	0.20346 10E 00	0.55188 10E 00	0.14686 10E 00	0.92252 10E-01
0	-.042212	-.541198	-.736032	.093301	-.273079	.448920
1	-.022879	-.324647	-.596592	.065613	-.146594	.234561
2	-.018930	-.154966	-.406035	-.021889	-.100227	.116596
3	.021537	-.035056	-.264105	-.077963	-.123319	.037941
4	-.007086	.019863	-.142417	-.026901	-.086915	-.018620
5	-.039960	.019387	-.056090	-.009021	-.063734	-.019125
6	-.007772	.039926	.036904	-.020647	-.059231	-.031327
7	-.018079	.077259	.127996	.054189	.001682	-.059577
8	-.048331	.081876	.185230	.036072	.015379	-.030798
9	-.017849	.106469	.234876	-.001999	.037533	-.045818
10	.012564	.085045	.210358	-.033300	.030569	-.032002
11	.070722	.062564	.181898	-.079962	-.038640	-.026784
12	.058728	.116275	.189920	-.046210	-.063964	-.061292
13	.063712	.082002	.149526	-.081635	-.036486	-.030873
14	.046248	.058762	.128287	-.058954	-.006004	-.012372
15	.046126	.022999	.081059	.021204	.012970	-.067206
16	.033619	-.019897	.033978	.015077	.047109	.018851
17	.037718	.013802	.029808	-.029479	.067447	.006549
18	.027218	.035463	.055629	-.033531	.049182	-.037946
19	-.014565	.089497	.136577	.020381	.087818	-.105197
20	-.084207	.117251	.204478	.015529	.163892	-.134088
21	-.122402	.075583	.187320	.030420	.213964	-.110251
22	-.131772	.046017	.181232	.091551	.256512	-.149219
23	-.147224	.076602	.180859	.093396	.247334	-.138117
24	-.103931	.060201	.112799	.033209	.200549	-.064999
25	-.065786	.040182	.029448	.032247	.170427	-.028184
26	-.070578	.003734	-.040183	.007628	.145821	.056506
27	-.038831	-.073601	-.089100	.042211	.123828	.050809
28	-.045733	-.066557	-.124044	.078321	.096191	.051491
29	-.024157	-.090331	-.167746	-.009736	.056845	.092803
30	-.022350	-.139836	-.216757	.049142	.025277	.117608

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	-.019928	-.027407	-.032311	-.020434	-.020953	.047703
1	-.028718	-.447916	-.303853	-.036272	-.130316	.518646
2	-.192551	-.510745	-.306366	.056790	-.060144	.447576
3	-.136424	-.522133	-.285974	.058045	-.022407	.380653
4	.186407	-.475521	-.227272	-.025991	-.047129	.443559
5	.083419	-.314696	-.110708	-.015439	-.026153	.327974
6	-.051209	-.225128	-.045040	.041549	-.001119	.240059
7	-.065316	-.275199	-.057632	.107216	.005098	.295184
8	-.136505	-.244818	-.039812	.142957	.007294	.204902
9-11	-.012483	-.176949	-.037147	.051559	-.015956	.152293
12-14	-.064253	-.102354	-.017778	.028782	-.005662	.114181
15-21	.035916	-.051257	-.009101	.001501	-.013217	.067150
22-30	-.034602	-.069621	-.006497	-.003427	-.006938	.096323

RUN NO. 85B 40M 11-16-62 1254-1347 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
	0.12172 10E 01	0.76459 10E 00	0.20346 10E 00	0.55188 10E 00	0.14686 10E 00	0.92252 10E-01
1	.014874	-.015006	-.111486	-.012668	.002639	.069599
2	-.021267	.002981	-.094486	-.055521	.009894	.076533
3	-.002982	.070594	-.113420	.001412	.067102	.139891
4	.044605	.100185	-.139274	.035930	.043780	.174395
5	.030918	.134912	-.119246	-.020350	.045831	.143371
6	.013903	.106480	-.115231	-.067280	.017168	.112579
7	-.026815	.111584	-.089504	-.107131	-.052471	.109217
8	-.059826	.087568	-.066063	-.124166	-.082472	.084346
9	-.042811	.009208	-.055869	-.060967	-.071810	.050365
10	-.030980	.014800	-.043573	-.086655	-.066281	.066079
11	-.030263	.022585	-.024185	-.114361	-.038141	.047347
12	-.010186	.025768	.008085	-.106631	-.063546	-.001478
13	.003386	-.020684	.010091	-.074671	-.062652	-.055574
14	-.027915	-.104015	.020350	-.056686	-.050394	-.108800
15	-.001898	-.086855	.021535	-.011070	-.022404	-.101207
16	.039837	-.065531	-.015473	.032438	.015076	-.058808
17	.035626	-.081640	-.018122	.048876	.037559	-.078434
18	.040648	-.082944	-.022451	.047899	.063242	-.067142
19	.083535	-.016370	-.035459	.087662	.077858	-.039758
20	.058908	-.009528	-.001345	.089193	.062493	-.050182
21	.078920	-.010885	.005750	.054830	.048319	-.052297
22	.075740	-.026417	-.002426	.104062	.041699	-.031342
23	.044530	-.022354	-.004401	.139842	.033573	.003501
24	.029467	-.044777	-.003363	.059831	.004956	-.004061
25	-.048076	-.016447	.021395	.004777	-.046555	-.030003
26	-.088779	-.033493	.041693	-.057202	-.063577	-.052562
27	-.081864	-.016977	.072854	-.021605	-.050048	-.041719
28	-.066457	.035078	.077690	.093153	-.016913	.025319
29	-.051239	.061340	.069038	.041741	.006115	.023829
30	-.047605	.015009	.060054	-.026283	-.005881	.001959

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	-.000922	.105603	-.901352	-.223529	-.242246	.224318
2	-.133080	.284593	-.834371	-.222886	-.212804	.477487
3	.002786	.328930	-.855775	-.040303	.127216	.545273
4	.188099	.128778	-.675774	.113724	.428794	.270273
5	.085931	-.030022	-.313291	.055204	.239106	.069211
6	.040990	-.031060	-.134143	.009435	.091431	.073599
7	-.009756	-.037514	-.166949	-.000434	.071312	.102733
8	-.095704	-.110000	-.166701	-.000418	-.039395	.049246
9-11	-.084736	-.054306	-.054531	-.063814	-.128442	-.047930
12-14	.025520	-.038363	-.107324	-.023527	.011196	-.009318
15-21	.055301	.000816	-.113276	.023407	-.033305	.038262
22-30	.001816	.012906	-.034840	.011532	.059566	.013126

RUN NO. 85B 40M 11-16-62 1254-1347 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16863 10E 01	0.87857 10E 00	0.34667 10E 00	0.24649 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.659347	.551998	.217115	.747135
2	.379806	.329209	.054661	.531762
3	.204331	.246671	-.008813	.381385
4	.086849	.149257	-.036426	.222955
5	.004398	.143029	-.026256	.117345
6	-.066226	.131742	-.047604	.005381
7	-.159389	.021201	-.071119	-.112037
8	-.176673	.035237	.032036	-.192490
9	-.220657	-.041985	-.079792	-.254365
10	-.238025	-.099675	-.094233	-.263552
11	-.222408	-.093597	-.131665	-.233886
12	-.220794	-.040800	-.114532	-.225740
13	-.183228	-.075008	-.175186	-.196939
14	-.131376	-.100083	-.061603	-.181103
15	-.045775	-.080388	-.119935	-.160534
16	.016452	-.158800	.076317	-.117414
17	.023139	-.257089	-.063790	-.114405
18	-.031959	-.2160	-.087288	-.114870
19	-.106366	-.255200	-.102053	-.207539
20	-.152637	-.331108	-.082277	-.280497
21	-.089012	-.357638	-.034341	-.293082
22	-.083267	-.320130	-.004321	-.314521
23	-.137547	-.265538	-.045655	-.258966
24	-.134799	-.157535	.040162	-.180579
25	-.049508	-.095700	-.008410	-.068325
26	-.005142	-.043831	.031994	.027301
27	.027431	-.040761	.085504	.084740
28	.080476	-.010104	.112963	.153194
29	.148153	-.022516	.115928	.206572
30	.206672	-.005737	.176783	.264439

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.027220	.033013	.005257	.063017
1	.237163	.202872	.197180	.550910
2	.256585	.135135	.257626	.509335
3	.269789	.071114	.238963	.419775
4	.213473	.063643	.178496	.317727
5	.111430	.050340	.142993	.157174
6	.070640	.026668	.149408	.065844
7	.088908	.032498	.204270	.080340
8	.077122	.036767	.201484	.055780
9-11	.051674	.031550	.130317	.058773
12-14	.037178	.021185	.130354	.031735
15-21	.023267	.018882	.119698	.025736
22-30	.020043	.016761	.154200	.021816

RUN NO. 85B 16M 11-16-62 1254-1347 EST
RUN NO. 85B 40M 11-16-62 1254-1347 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	
	10E 00	10E 00	10E 00	10E 00
0	.741285	.497545	.655450	.755881
1	.599598	.720486	.711040	.641906
2	.537626	.659049	.672918	.561104
3	.509081	.589035	.603706	.514513
4	.447181	.549050	.530760	.478635
5	.285013	.521041	.481965	.412862
6	.158438	.459279	.460268	.357503
7-8	.111806	.411345	.533109	.391221
9-11	.059155	.351000	.422352	.257224
12-15	.137265	.271794	.185082	.305340
16-20	.144785	.179549	.210420	.157500
21-27	.144922	.109774	.142942	.144660
28-36	.111681	.073773	.136381	.125289
37-47	.094435	.111091	.142864	.090338
48-60	.085402	.095340	.110570	.091158

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	.943625	.948685	.589541	.977944
1	.946405	.940564	.781251	.976597
2	.947321	.926278	.755208	.957133
3	.954350	.889956	.771056	.917556
4	.941076	.799712	.846724	.849878
5	.869770	.744894	.781142	.715391
6	.795129	.719519	.623352	.609697
7	.752448	.794136	.720902	.689164
8	.667113	.712310	.803700	.593843
9-11	.647451	.635571	.751160	.685697
12-14	.441571	.551283	.619070	.416364
15-21	.474554	.537630	.477847	.453664
22-30	.375214	.366497	.482051	.247030

RUN NO. 85C 16M 11-16-62 1358-1503 EST

GROSS STATISTICS

CLEAR	WIND SPEED 7.53 M/SEC	WIND DIRECTION 303 DEG	
TRANSITIONAL	SIGMA A 10.8 DEG	SOLAR RADIATION 0.41	
LAND	SIGMA E 5.3 DEG	NET RADIATION 0.12	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.22526E 01	0.16466E 01	0.10583E 01	0.11854E 01
V	0.20863E 01	0.15881E 01	0.11279E 01	0.98480E 00
W	0.44394E-00	0.43939E-00	0.39862E-00	0.16500E-00
T	0.19011E-01	0.11459E-01	0.70544E-02	0.79233E-02
E	0.23914E 01	0.18372E 01	0.12924E 01	
GUSTINESS RATIOS				
U	0.19932	0.17041	0.13662	0.14459
V	0.19182	0.16736	0.14104	0.13179
W	0.08848	0.08803	0.08385	0.05394
COVARIANCES				
U,V	-0.25344E-00	-0.49858E-01	-0.67982E-02	-0.10875E-01
U,W	-0.37366E-00	-0.35168E-00	-0.24703E-00	-0.22230E-00
U,T	-0.84661E-01	-0.44931E-01	-0.16874E-01	-0.40725E-01
V,W	0.39984E-01	0.32177E-01	0.10733E-01	0.24194E-01
V,T	-0.10585E-00	-0.93669E-01	-0.64515E-01	-0.61624E-01
W,T	0.23172E-02	-0.11541E-02	-0.25263E-02	0.88244E-03
WE	0.40015E-01	0.61573E-01	0.83849E-02	
NORMALIZED COVARIANCES				
U,V	-0.11691	-0.03083	-0.00622	-0.01006
U,W	-0.37366	-0.41346	-0.38034	-0.50766
U,T	-0.40911	-0.32709	-0.19529	-0.42023
V,W	0.04155	0.03852	0.01601	0.06002
V,T	-0.53149	-0.69434	-0.72327	-0.69763
W,T	0.02522	-0.01627	-0.04764	0.02441

RUN NO. 85C 16M 11-16-62 1358-1503 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10924 10E 01	0.64952 10E 00	0.86383 10E-01	0.67048 10E 00	0.89171 10E-01	0.53020 10E-01
0	-.006212	-.380442	-.195006	.015896	-.723115	-.047959
1	-.000507	-.328160	-.187717	.013482	-.597791	-.018770
2	.013724	-.249642	-.173576	.005335	-.438447	-.000075
3	.024206	-.193354	-.156641	-.001866	-.326752	.011584
4	.029228	-.145023	-.139431	-.004350	-.245116	.014332
5	.027998	-.111520	-.119369	.000015	-.182254	.007402
6	.028365	-.085096	-.101847	.008267	-.134985	-.006669
7	.029570	-.054288	-.086310	.008872	-.091866	-.009116
8	.026440	-.033739	-.072228	.009037	-.051938	-.010493
9	.026002	-.011737	-.056334	.005428	-.025252	-.006850
10	.027014	.014881	-.040836	-.002094	-.009390	-.002662
11	.024973	.031456	-.025423	-.007506	.007782	.002338
12	.018461	.035346	-.011135	-.010189	.000023	.007365
13	.008658	.038753	.003561	-.012988	.065009	.008548
14	-.001699	.048727	.017916	-.009961	.080233	.009920
15	-.010195	.054829	.028887	-.003300	.094705	.010160
16	-.020202	.049878	.042724	.001770	.110112	.013188
17	-.026537	.053638	.052601	-.002096	.119398	.016157
18	-.026459	.069147	.055612	-.001617	.126018	.015348
19	-.022772	.082327	.057556	-.002561	.135642	.017104
20	-.023566	.088790	.065712	-.007919	.143134	.018500
21	-.022891	.093908	.073549	-.015527	.156788	.022108
22	-.021627	.098893	.080009	-.017478	.170114	.020695
23	-.021051	.100587	.084325	-.014628	.183768	.011764
24	-.018864	.095547	.085521	-.005551	.193509	.004944
25	-.016503	.089162	.080389	.007717	.204546	-.004061
26	-.012489	.077383	.077582	.016457	.206172	-.010683
27	-.013845	.069715	.073757	.030934	.199400	-.017223
28	-.012953	.064902	.070520	.033530	.182783	-.019998
29	-.018035	.066354	.068945	.037469	.152890	-.024674
30	-.023005	.063317	.063419	.046893	.115729	-.029969
31	-.022578	.058557	.053470	.051610	.074992	-.035345
32	-.022183	.062057	.045284	.037857	.049901	-.026987
33	-.024574	.067001	.037893	.026885	.037269	-.021041
34	-.027181	.070356	.033908	.021029	.027771	-.017748
35	-.030213	.065062	.028800	.009461	.019681	-.008949
36	-.032209	.050151	.021970	.001046	.017037	-.004375
37	-.028630	.040475	.018865	-.011182	.010975	-.004491
38	-.018483	.027138	.011458	-.013815	-.001325	-.002401
39	-.009933	.015946	.000944	-.013140	-.010982	.005405
40	-.009186	.010392	-.005744	-.015573	-.009373	.008648
41	-.010384	.010221	-.002185	-.017652	-.018690	.008693
42	-.011940	.010947	.003579	-.021206	-.025887	.017061
43	-.015215	.001645	.011001	-.028868	-.022297	.027409
44	-.016382	-.009522	.016227	-.034159	-.021532	.031753
45	-.015910	-.021625	.017420	-.031056	-.027977	.023502
46	-.017505	-.030353	.013242	-.024756	-.041152	.016926
47	-.012103	-.043443	.013036	-.020351	-.053417	.014030
48	.001443	-.052868	.010999	-.022497	-.062008	.012883
49	.011701	-.047322	.006777	-.019576	-.067865	.012157
50	.018370	-.042058	.005339	-.019824	-.069859	.018545
51	.021477	-.038448	.003942	-.024112	-.067453	.026245
52	.028782	-.034344	.002965	-.025927	-.064555	.029157
53	.032650	-.027575	.003367	-.019335	-.057807	.021886
54	.035077	-.015783	.005182	-.013339	-.041827	.011758
55	.035193	-.006438	.006523	-.009281	-.023249	-.003060
56	.032623	-.001848	.007887	-.008239	-.012459	-.017594
57	.032433	-.002516	.009976	-.003866	.001026	-.037318
58	.030036	-.008577	.013208	.008087	.013540	-.048182
59	.030029	-.015310	.017687	.018497	.021305	-.046825
60	.029823	-.014304	.023833	.017103	.028978	-.046252

RUN NO. 85C 16M 11-16-62 1358-1503 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10924 10E 01	0.64952 10E 00	0.86383 10E-01	0.67048 10E 00	0.89171 10E-01	0.53020 10E-01
1	-.000029	-.050207	-.017201	.000830	-.043825	.000778
2	-.000961	-.082938	-.028949	-.004914	-.052686	.000027
3	-.001321	-.090144	-.040871	-.011910	-.056173	-.014011
4	.001800	-.084779	-.045012	-.025421	-.056796	-.021940
5	.002592	-.075282	-.046885	-.041339	-.054275	-.026379
6	.004995	-.074849	-.048701	-.052555	-.052519	-.032185
7	.007538	-.079105	-.045785	-.047645	-.052600	-.029159
8	.004621	-.071582	-.041578	-.040027	-.048841	-.031257
9	.009078	-.071249	-.043214	-.037741	-.039791	-.032333
10	.017411	-.074128	-.050750	-.038020	-.031542	-.034865
11	.023649	-.075314	-.055605	-.043686	-.026175	-.034739
12	.029690	-.076330	-.055216	-.043899	-.026252	-.038136
13	.033887	-.071815	-.052383	-.037503	-.025645	-.037256
14	.035941	-.069553	-.044603	-.020232	-.024178	-.027382
15	.028329	-.063168	-.032363	-.013041	-.021487	-.027793
16	.011087	-.052698	-.017446	-.023414	-.015274	-.037491
17	-.003073	-.044762	-.003350	-.033519	-.006039	-.042726
18	-.007021	-.039237	.002577	-.029779	.000324	-.040167
19	-.007367	-.025827	.000173	-.027544	.006043	-.032674
20	-.009385	-.015883	-.001478	-.016315	.011066	-.023204
21	-.010779	-.009045	-.005969	-.009664	.015662	-.014028
22	-.007780	.000102	-.013367	.002458	.017283	.003707
23	.000453	.004311	-.018236	.007358	.017909	.015022
24	.012500	.012602	-.023671	.006057	.019329	.019742
25	.017746	.026459	-.025215	.008043	.019999	.024535
26	.018248	.033251	-.023370	.017860	.019042	.033894
27	.011937	.043084	-.016903	.019181	.019598	.038820
28	.008123	.050219	-.011849	.018456	.025216	.039397
29	.007382	.055280	-.014497	.019589	.027361	.041624
30	.007688	.063310	-.016634	.019900	.025380	.041920
31	.014390	.056565	-.019475	.033841	.022653	.048537
32	.012222	.045984	-.016301	.044095	.020625	.057747
33	.009742	.037468	-.010448	.049060	.017756	.058506
34	.005714	.039919	.000144	.056824	.018729	.054520
35	.000822	.047722	.013259	.064110	.017432	.051598
36	-.010440	.051785	.027904	.053356	.011066	.042440
37	-.018072	.051637	.035132	.036901	.008078	.025482
38	-.018981	.032855	.037328	.031888	.006141	.014093
39	-.011835	.007993	.035526	.026359	.002990	.003213
40	-.010197	-.008023	.031854	.022354	.000737	-.003152
41	-.011123	-.009993	.026331	.012112	.003819	-.015501
42	-.012801	-.010662	.019297	.000443	.004477	-.026416
43	-.019250	-.015442	.016095	-.009547	.005172	-.029998
44	-.023682	-.018087	.010047	-.010986	.000725	-.022174
45	-.026001	-.020344	.007863	-.002746	-.001496	-.016419
46	-.033975	-.019364	.011180	.001892	-.003444	-.014269
47	-.033140	-.015356	.012744	.003524	-.007674	-.012861
48	-.017924	-.019108	.005031	.001217	-.008833	-.016436
49	-.005276	-.026999	-.002857	-.001758	-.007257	-.018969
50	-.000740	-.028767	-.003900	-.017776	-.004253	-.023279
51	-.001498	-.024196	-.004960	-.039893	-.002253	-.031934
52	-.005398	-.012096	-.001855	-.054946	-.003676	-.034322
53	-.001024	-.002224	-.006819	-.050340	-.012049	-.029714
54	.001472	-.002757	-.009876	-.050268	-.018758	-.029394
55	-.004455	.001690	-.009271	-.049377	-.021188	-.019933
56	-.007806	.009373	-.003325	-.045792	-.017556	-.007901
57	-.006050	.011079	.003260	-.046809	-.011368	-.008351
58	.004535	.019205	-.002088	-.046214	-.010488	-.012829
59	.008135	.026478	-.005426	-.045309	-.011764	-.009798
60	.008247	.031866	-.007466	-.041356	-.006669	-.003150

RUN NO. 85C 16M 11-16-62 1358-1503 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.10582 10E 01	0.11276 10E 01	0.39866 10E 00	0.70514 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.844154	.796771	.666885	.817556
2	.673644	.565581	.366492	.600575
3	.550010	.408070	.209553	.446267
4	.452024	.296285	.109622	.341557
5	.367750	.211478	.041219	.268486
6	.287226	.146250	.013759	.215060
7	.209012	.093097	-.000223	.156565
8	.144674	.048481	.000938	.093758
9	.086417	.013325	-.014359	.049967
10	.028120	-.014985	-.047380	.027542
11	-.018067	-.039301	-.064434	.004423
12	-.066231	-.073622	-.073498	-.038127
13	-.111958	-.098449	-.102112	-.076225
14	-.149411	-.119396	-.130007	-.098617
15	-.183962	-.132420	-.128078	-.119421
16	-.209909	-.149895	-.118425	-.138999
17	-.236364	-.161752	-.121646	-.147672
18	-.260633	-.168619	-.136219	-.160311
19	-.281423	-.174475	-.118650	-.179291
20	-.288749	-.189247	-.116726	-.193656
21	-.284296	-.212123	-.116672	-.204825
22	-.278285	-.221850	-.123491	-.221879
23	-.280126	-.225038	-.126722	-.243423
24	-.276792	-.225883	-.139597	-.262188
25	-.265094	-.236144	-.149224	-.276766
26	-.244334	-.238649	-.133948	-.278395
27	-.223927	-.236178	-.111593	-.265315
28	-.205369	-.220460	-.085927	-.241241
29	-.185042	-.189819	-.076670	-.204527
30	-.155235	-.152224	-.066464	-.157478
31	-.126109	-.099879	-.041148	-.114883
32	-.103512	-.058456	-.029177	-.088267
33	-.091028	-.038052	-.022610	-.071862
34	-.076561	-.016363	-.030929	-.059895
35	-.059631	.002543	-.048273	-.050876
36	-.030701	.014109	-.051246	-.046411
37	-.007505	.020269	-.036314	-.035637
38	.013976	.020207	-.010620	-.014075
39	.030929	.020523	.016965	-.002840
40	.036773	.019497	.023385	-.005714
41	.041767	.035128	.021284	-.003539
42	.043618	.048244	.020945	.000398
43	.043939	.045018	.028358	.001848
44	.036128	.042956	.036201	.010160
45	.020673	.049467	.048450	.020039
46	.008615	.059660	.049746	.035880
47	.005373	.069559	.062924	.051377
48	.001621	.075443	.062316	.063692
49	-.012650	.076999	.046733	.075221
50	-.025433	.066120	.046897	.085704
51	-.036499	.053232	.041213	.086122
52	-.041705	.046061	.035194	.076197
53	-.043117	.034782	.031703	.060800
54	-.051622	.019456	.023906	.037513
55	-.058688	.005437	.012023	.011753
56	-.056161	-.003213	.013501	-.000019
57	-.050983	-.015645	.026318	-.014720
58	-.043995	-.022204	.019586	-.026309
59	-.039124	-.022035	.029634	-.033815
60	-.032386	-.031000	.026619	-.032631

RUN NO. 85C 16M 11-16-62 1358-1503 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-02	10E-01	10E-03
0	-.007349	-.027317	-.057718	.077534	-.008356	.016190
1	.106329	-.332402	-.449468	.115856	-.078741	.048855
2	.140722	-.420702	-.469432	-.185482	-.102053	.044614
3	.074155	-.388391	-.397080	.115092	-.101391	-.222136
4	.009817	-.243818	-.183927	.531587	-.056903	-.390855
5	-.025518	-.183184	-.062241	.033116	-.033320	.024337
6	-.066304	-.138913	-.051258	-.317617	-.034777	.248251
7-8	-.055464	-.116561	-.032596	.128159	-.031269	-.029738
9-11	-.004635	-.054996	-.017928	-.111461	-.018149	-.055579
12-15	-.015493	-.045822	-.011552	.153053	-.012593	-.169482
16-20	-.011505	-.029197	-.002807	.059361	-.007872	-.126968
21-27	-.005106	-.015166	-.001159	.006625	-.005496	-.051021
28-36	-.000771	-.008905	-.001151	-.011304	-.003178	-.029164
37-47	-.000375	-.007346	-.000459	.007023	-.001851	-.044940
48-60	.000869	-.000980	-.000433	-.005186	-.001060	-.029193

QUADRATURE SPECTRUM

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
1	.656479	-.085891	-.151579	-.023153	-.013628	-.007851
2	.724934	-.177835	-.156497	-.104033	-.092943	-.069946
3	.344223	-.238868	-.118803	-.129267	-.164570	-.108512
4	.258470	-.128476	-.081682	-.040723	-.135671	-.028573
5	.304299	-.034736	-.098151	-.010178	-.080672	.029644
6	-.257794	-.041561	-.053152	-.025652	-.056711	.003797
7-8	-.569016	-.041512	.015360	-.004126	-.046124	-.008179
9-11	.164303	-.038227	-.019000	.007815	-.038788	.002265
12-15	-.012995	-.025709	-.012563	.005613	-.011936	.001414
16-20	-.019407	-.014069	.001908	.014307	-.018379	.006925
21-27	.015020	-.006167	-.002066	-.005139	-.008098	.001434
28-36	-.007478	.001571	.001642	.001003	-.006762	.000442
37-47	.009661	-.000526	-.001943	.000079	-.004503	-.001710
48-60	-.006043	.000524	-.000631	.000686	-.001293	-.000444

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.016920	.012118	.011768	.011014
1	.154944	.117391	.218697	.094958
2	.191386	.158861	.342785	.113641
3	.196722	.167038	.390835	.107521
4	.118474	.099321	.288305	.060240
5	.061321	.060852	.221988	.035605
6	.047061	.063233	.195116	.035805
7-8	.034793	.054363	.177270	.031951
9-11	.023363	.033989	.143545	.018333
12-15	.014551	.023824	.123916	.013677
16-20	.009998	.015236	.077548	.009518
21-27	.007482	.010366	.054503	.006246
28-36	.004555	.006532	.043498	.003479
37-47	.003288	.004265	.030657	.002179
48-60	.002101	.002706	.019048	.001485

RUN NO. 85C 16M 11-16-62 1358-1503 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
	0.10805 10E 01	0.44239 10E 00	0.96922 10E-01	0.40328 10E 00	0.88352 10E-01	0.36174 10E-01
0	-.010064	-.502501	-.420185	.059993	-.697480	.024394
1	-.029911	-.210653	-.315789	.027990	-.372588	.066800
2	-.055481	-.057687	-.168997	.012183	-.124888	.069911
3	-.026490	.070037	-.085171	.051270	-.035449	-.016851
4	-.018662	.065670	-.018655	-.022225	.015730	.015889
5	.021838	.033790	.036832	-.030591	.043910	.005132
6	.060627	.069907	.062538	-.004576	.087732	-.044409
7	.056364	.021272	.060919	.010925	.139140	-.020996
8	.011430	.001835	.073909	.038189	.070792	-.006128
9	.027874	-.012380	.077480	.066125	.037441	-.000797
10	.029858	.041112	.091593	.049054	.031928	-.041098
11	.013548	.059236	.119269	.034358	.050717	-.066638
12	.015964	.030248	.097062	-.019502	.091554	.013092
13	.014118	.039315	.106666	-.058[illegible]0	.105637	-.011498
14	.012443	.101945	.082679	-.067976	.098487	-.015889
15	.021947	.067890	.056150	-.070502	.094924	-.000850
16	-.032858	.050261	.060034	-.084142	.069827	.029870
17	-.016784	-.012840	-.017745	-.121028	-.001144	.104014
18	-.043348	-.033053	-.018669	-.004844	-.021517	.026446
19	-.095356	-.081587	.053442	.073023	.035452	-.042665
20	-.088950	-.064975	.092417	-.001321	.107945	-.042284
21	-.090710	.001363	.069662	.019241	.081726	-.043682
22	-.060873	.072301	.026733	-.028039	.007363	.025121
23	-.056055	.062121	.032229	-.008596	.007319	-.001510
24	-.003947	.039414	-.020979	.000878	.015258	-.016865
25	.109713	.017496	-.131248	-.010283	-.024479	.028923
26	.166325	-.023337	-.180231	-.012863	-.059988	.041611
27	.167209	-.020106	-.157555	-.051647	-.113545	.064311
28	.090228	.009974	-.087486	.025840	-.140422	.012172
29	.017324	-.066699	-.031766	.059066	-.068164	-.027080
30	-.050555	-.037121	.040066	.096390	.012547	-.029143

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	-.004401	-.012801	-.038711	.040959	-.051587	.049709
1	.053345	-.122524	-.523726	.666212	-.551194	.241803
2	-.045340	-.154886	-.687689	.553254	-.647763	.343329
3	-.036878	-.180467	-.682896	-.078932	-.647274	.573613
4	-.124570	-.137481	-.513702	-.461922	-.559997	.564083
5	-.049207	-.129221	-.332717	.252113	-.500635	.150229
6	-.099560	-.206791	-.259053	.924785	-.488170	.012460
7	.018664	-.198907	-.322281	.466985	-.447512	.324540
8	.059564	-.128117	-.196378	-.101158	-.246562	.182848
9-11	.075499	-.113738	-.105757	-.189051	-.217028	-.035438
12-14	.019786	-.088535	-.078595	-.039081	-.252739	.023281
15-21	.026063	-.039131	-.049559	.202371	-.124971	-.246024
22-30	-.011823	-.064299	-.007468	.008233	-.095700	-.027708

RUN NO. 85C 16M 11-16-62 1358-1503 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
	0.10805 10E 01	0.44239 10E 00	0.96922 10E-01	0.40328 10E 00	0.88352 10E-01	0.36174 10E-01
1	-.010735	-.104100	-.046287	-.065317	-.026768	-.055379
2	-.022483	-.030795	-.052543	-.024838	-.000109	-.016015
3	-.037288	.015836	-.045479	-.023273	.018161	.008148
4	-.080027	-.016380	-.003426	-.051695	-.011857	-.046728
5	-.099533	.000602	.003513	-.106748	-.026690	-.072049
6	-.093945	.012251	.026882	-.130536	-.041368	-.065976
7	-.100494	-.024674	.054088	-.073159	-.042765	-.070816
8	-.064645	-.106424	.040874	.008865	-.049822	-.022514
9	-.012005	-.067458	-.011393	.026298	-.027498	.028511
10	-.026755	-.032198	-.030593	-.022420	-.037170	.004327
11	-.028561	.063371	-.036596	-.032346	-.020331	.020116
12	.008628	.015026	-.019924	.030049	.005203	.033290
13	.016662	.027841	-.014344	.046385	-.007502	.046713
14	.073817	.007676	-.030052	.046223	-.004926	.056694
15	.060957	.005222	-.012733	.012636	.016655	.000019
16	.038144	.009115	-.013703	.000466	.028980	.003433
17	.064987	.012016	-.024544	.068649	.011228	.035572
18	.047680	-.010206	.001664	.043708	-.018201	-.005277
19	.017724	-.016639	.002629	-.002832	-.025333	-.010003
20	.003301	.013121	.010082	.020193	-.023328	.026221
21	.013449	.052687	.006785	.017653	.019004	.066690
22	.005333	.035200	.005655	.005501	-.004018	.021563
23	-.048347	.071511	.015949	-.010682	-.028310	.028503
24	-.035479	.110030	.017668	.025213	-.007686	.069176
25	-.033096	.054480	.050946	.003180	.010224	.007829
26	-.038170	.011330	.043666	.003839	.011095	.009341
27	-.026350	-.002498	.015380	-.015566	.000789	-.004319
28	.045452	-.029235	-.062401	-.038667	.015105	-.004197
29	.072135	.003356	-.100054	-.049380	.031239	-.021686
30	.029235	-.079097	-.069556	-.047433	.039171	-.074625

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-03
1	-.167954	-.252546	-.061311	-.038457	-.138060	.007084
2	-.314210	-.586749	-.014690	-.091541	-.109023	-.510125
3	-.386709	-.426850	.042515	-.119108	-.081927	-.742218
4	-.146183	-.193560	-.011745	-.074372	-.002055	-.596261
5	.033642	.196669	-.107455	-.024871	.069202	-.157218
6	.038957	.381685	-.157478	.002606	.053963	.283977
7	.050314	-.211317	-.158209	.023119	.014588	.255638
8	.076389	-.666581	-.109145	.035480	.010414	.142412
9-11	.032479	-.586452	-.005557	.011218	-.021476	-.047043
12-14	-.012718	-.101204	-.040425	-.065566	-.036079	-.316590
15-21	-.013826	-.463210	.006463	-.009656	-.023698	-.203649
22-30	.011336	.027439	-.020896	-.008691	.004750	.039712

RUN NO. 85C 16M 11-16-62 1358-1503 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11853 10E 01	0.98497 10E 00	0.16511 10E 00	0.79252 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.570510	.501706	.133983	.618980
2	.220795	.180035	-.047419	.284164
3	.024260	.064819	-.131364	.127060
4	-.056364	-.005043	-.067092	.011385
5	-.139872	-.066255	-.037961	-.056908
6	-.168066	-.139218	-.020508	-.127950
7	-.112974	-.204503	-.005600	-.178185
8	-.097566	-.138275	-.031008	-.110800
9	-.152311	-.132166	-.042474	-.076578
10	-.203037	-.130802	-.084693	-.071864
11	-.207057	-.138569	-.005408	-.120049
12	-.131254	-.137743	-.095051	-.167998
13	-.136712	-.130603	-.066879	-.155191
14	-.149047	-.124503	-.086891	-.146789
15	-.146095	-.079950	.010453	-.179218
16	-.073007	.014559	-.053298	-.158402
17	.022639	.079402	-.066611	-.048628
18	.084234	.092730	.048553	-.030036
19	.119679	.046379	.069597	-.111096
20	.099700	-.043477	.046236	-.177830
21	.034961	-.027049	.042074	-.140535
22	-.026194	.029185	.002668	-.053015
23	-.064674	-.010535	-.055397	-.010509
24	-.004190	-.072464	-.032039	.008357
25	.095160	-.055168	-.043773	.083386
26	.135102	-.062965	.016349	.162220
27	.092633	.024551	.004504	.182807
28	.004627	.070810	.003562	.193159
29	.007847	.032570	.165813	.107581
30	.008305	-.017830	.039643	-.003149

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-02	10E-02
0	.004999	.007751	.032632	.009149
1	.076201	.070455	.444789	.095006
2	.126811	.095495	.663845	.106087
3	.160226	.123877	.818514	.095747
4	.118884	.102309	.625174	.078320
5	.084952	.067665	.580758	.069840
6	.095672	.065047	.836142	.061763
7	.090795	.062386	.882922	.055394
8	.063906	.039751	.864891	.031866
9-11	.048536	.034926	.889315	.023051
12-14	.031093	.036886	.715417	.026528
15-21	.023303	.022452	.635447	.012436
22-30	.017107	.018669	.786655	.009260

RUN NO. 85C 40M 11-16-62 1358-1503 EST

GROSS STATISTICS

CLEAR	WIND SPEED	8.57 M/SEC	WIND DIRECTION	309 DEG
TRANSITIONAL	SIGMA A	9.5 DEG	SOLAR RADIATION	0.41
LAND	SIGMA E	6.0 DEG	NET RADIATION	0.12

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.27385E 01	0.19781E 01	0.11635E 01	0.15026E 01
V	0.19680E 01	0.15094E 01	0.10620E 01	0.94955E 00
W	0.65365E 00	0.62149E 00	0.56835E 00	0.26348E-00
T	0.21682E-01	0.98582E-02	0.57456E-02	0.71371E-02
E	0.26801E 01	0.20545E 01	0.13970E 01	
GUSTINESS RATIOS				
U	0.19310	0.16411	0.12587	0.14304
V	0.16369	0.14336	0.12025	0.11370
W	0.09434	0.09199	0.08797	0.05989
COVARIANCES				
U,V	-0.29133E-00	-0.35535E-02	0.27313E-01	-0.13040E-01
U,W	-0.55460E 00	-0.48628E-00	-0.33799E-00	-0.35296E-00
U,T	-0.89113E-01	-0.57081E-01	-0.22407E-01	-0.51300E-01
V,W	0.47167E-01	0.41539E-01	-0.22156E-01	0.36617E-01
V,T	-0.94707E-01	-0.86183E-01	-0.57637E-01	-0.58388E-01
W,T	0.93742E-02	0.61491E-02	0.52876E-02	0.48386E-02
WE	0.37908E-00	0.34159E-00	0.21687E-00	
NORMALIZED COVARIANCES				
U,V	-0.12550	-0.00206	0.02457	-0.01092
U,W	-0.41453	-0.43857	-0.41563	-0.56095
U,T	-0.36571	-0.40876	-0.27405	-0.49536
V,W	0.04159	0.04289	-0.02852	0.07321
V,T	-0.45849	-0.70652	-0.73785	-0.70926
W,T	0.07874	0.07856	0.09253	0.11158

RUN NO. 85C 40M 11-16-62 1358-1503 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11117 10E 01	0.81317 10E 00	0.81766 10E-01	0.77683 10E 00	0.78111 10E-01	0.57133 10E-01
0	.024698	-.415615	-.274064	-.028815	-.737814	.092496
1	.020831	-.380153	-.266688	-.015583	-.625862	.090644
2	.017000	-.311203	-.250208	-.004971	-.471791	.076405
3	.016030	-.247817	-.227577	-.000539	-.356725	.057074
4	.021542	-.200249	-.204228	.003982	-.283563	.037817
5	.028551	-.159569	-.177489	.001311	-.225675	.031039
6	.031123	-.119327	-.151390	-.005924	-.166242	.038232
7	.025050	-.080748	-.122579	-.011802	-.106876	.046387
8	.027208	-.050740	-.102956	-.010644	-.056484	.043887
9	.025697	-.023659	-.084306	-.002274	-.018648	.034317
10	.013056	-.000029	-.062941	.016295	.012938	.020791
11	.001724	.021376	-.040488	.025273	.039688	.011299
12	-.000838	.037770	-.023423	.030309	.052099	-.002554
13	-.000849	.042801	-.010678	.027852	.059580	-.013424
14	.003162	.038134	-.004564	.025664	.069830	-.025088
15	.005430	.037563	.003678	.020977	.085665	-.033053
16	.008598	.048164	.009281	.014946	.099437	-.037512
17	.013711	.063485	.014164	.008386	.111018	-.036307
18	.009881	.077739	.027964	.008848	.123202	-.035153
19	-.002313	.095479	.048176	.018020	.139864	-.036379
20	-.012575	.106450	.068065	.025613	.155405	-.038661
21	-.015911	.116444	.082380	.031808	.170635	-.041485
22	-.014177	.127727	.093614	.025836	.177624	-.039049
23	-.010974	.130936	.103660	.021702	.181626	-.038293
24	-.016307	.124058	.115515	.020813	.181440	-.043098
25	-.022335	.120219	.126257	.013797	.175316	-.041344
26	-.021838	.115462	.132589	.006338	.166861	-.034315
27	-.025481	.104712	.138794	.004102	.155615	-.034380
28	-.030819	.096069	.141157	-.003242	.145302	-.032217
29	-.030317	.088761	.138969	-.009577	.123948	-.020163
30	-.036030	.085506	.139127	-.010084	.099805	-.015375
31	-.041368	.082139	.141585	-.003579	.079242	-.021039
32	-.051495	.075534	.141774	-.006381	.061288	-.025086
33	-.059728	.066609	.139112	-.014243	.049529	-.024949
34	-.061028	.059962	.133887	-.016406	.052083	-.027787
35	-.063074	.052519	.126679	-.011846	.054651	-.033315
36	-.069673	.046283	.124123	-.003343	.062297	-.036642
37	-.070886	.043943	.121188	.001013	.069811	-.034294
38	-.066954	.052577	.112354	-.001230	.073852	-.026944
39	-.056455	.056961	.100553	-.004369	.060947	-.021946
40	-.044131	.054854	.085744	-.008820	.038697	-.016775
41	-.031704	.052493	.069485	-.008737	.020860	-.017816
42	-.024814	.051006	.056130	-.000469	.006440	-.019462
43	-.018323	.037354	.044952	.009840	-.010809	-.018194
44	-.008593	.016399	.034071	.018836	-.025424	-.017425
45	.002143	.000787	.020274	.026305	-.039753	-.017577
46	.013874	-.007520	.007975	.027006	-.059256	-.016536
47	.027922	-.011543	-.008528	.025598	-.086490	-.014380
48	.042998	-.023726	-.027335	.019777	-.104249	-.008816
49	.054556	-.028032	-.041480	.013908	-.107808	-.006671
50	.060548	-.026444	-.048769	.005328	-.104563	-.002090
51	.062444	-.022406	-.054119	-.008317	-.102978	.012203
52	.067807	-.023941	-.068657	-.027631	-.099189	.026955
53	.067306	-.032292	-.081537	-.044033	-.086982	.040354
54	.063829	-.032820	-.089857	-.049084	-.069230	.046558
55	.058985	-.027579	-.093355	-.049151	-.056935	.049887
56	.056737	-.023240	-.094619	-.048267	-.046207	.048869
57	.060155	-.028558	-.093988	-.048028	-.035934	.042942
58	.063166	-.032869	-.089482	-.056848	-.020068	.045086
59	.066105	-.043532	-.085756	-.067129	.001098	.054483
60	.073263	-.044357	-.087414	-.069472	.022610	.059265

RUN NO. 85C 40M 11-16-62 1358-1503 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11117 10E 01	0.81317 10E 00	0.81766 10E-01	0.77683 10E 00	0.78111 10E-01	0.57133 10E-01
1	.013392	-.015480	-.033921	.008829	-.034111	.010538
2	.021142	-.031763	-.051218	.013346	-.048583	.026325
3	.026233	-.039946	-.060523	.018673	-.052270	.035587
4	.028375	-.037242	-.066463	.023650	-.048781	.042877
5	.029348	-.032815	-.068448	.019267	-.045129	.047360
6	.027146	-.032749	-.065784	.014604	-.042906	.047756
7	.029088	-.038720	-.066029	.003312	-.043206	.040928
8	.027276	-.038288	-.058642	-.007295	-.038321	.031182
9	.021193	-.034434	-.047391	-.008954	-.034177	.026054
10	.013718	-.030700	-.036942	-.010443	-.029419	.020088
11	.009875	-.035497	-.028770	-.014650	-.023029	.013818
12	.010152	-.041784	-.024904	-.024968	-.017597	-.001784
13	.011354	-.040228	-.021484	-.026327	-.016124	-.010429
14	.011414	-.037978	-.019959	-.023492	-.015533	-.007874
15	.003055	-.027720	-.009480	-.018895	-.013717	-.000501
16	-.006141	-.020836	.002400	-.011264	-.014192	.003018
17	-.013292	-.010461	.008250	-.007333	-.016158	.002189
18	-.025231	.001402	.013596	-.010505	-.022120	-.001236
19	-.033202	.008841	.018855	-.011490	-.026370	-.002357
20	-.039342	.015199	.021461	-.019734	-.027759	-.006962
21	-.044499	.022196	.019988	-.032563	-.027510	-.010236
22	-.045134	.024367	.014803	-.033439	-.029040	-.009465
23	-.047623	.029259	.014266	-.032568	-.030396	-.011610
24	-.054513	.039294	.019805	-.035866	-.030525	-.017964
25	-.054921	.035142	.022009	-.040348	-.024581	-.023250
26	-.045897	.015774	.016168	-.038625	-.011427	-.031116
27	-.033454	-.005061	.010705	-.018764	.000250	-.023652
28	-.026548	-.021007	.010907	.001274	.010059	-.008683
29	-.028397	-.028661	.015551	.008761	.018656	-.003631
30	-.025064	-.031602	.014494	.010212	.022107	-.004450
31	-.013049	-.019380	.005140	.018294	.018387	.001800
32	-.000020	-.008001	-.003914	.024700	.015956	.010925
33	.010911	-.005550	-.011976	.032652	.014327	.016254
34	.020966	-.001632	-.019142	.041767	.015947	.020859
35	.025958	.004670	-.023509	.044975	.019660	.025029
36	.026306	.007062	-.018460	.044812	.020892	.025823
37	.021660	.010777	-.008735	.042847	.018956	.019931
38	.010694	.012269	.004048	.031089	.015678	.008322
39	.002443	.006564	.013519	.018989	.010134	.003241
40	-.002751	-.005281	.017295	.013711	.000205	.000743
41	-.006730	-.011486	.020749	.008332	-.008196	-.003606
42	-.012396	-.020666	.027614	.001308	-.008229	-.012829
43	-.022926	-.030128	.038639	-.009447	-.001942	-.028104
44	-.024374	-.032972	.044556	-.013714	.001251	-.044831
45	-.015251	-.033700	.036407	-.011159	-.000601	-.048202
46	-.010471	-.034504	.028714	-.009337	.001857	-.042201
47	-.003921	-.032895	.024565	-.006726	.008557	-.030501
48	-.000102	-.032791	.020709	-.005524	.010147	-.021344
49	.004116	-.027121	.012479	-.005998	.006482	-.018421
50	.005817	-.014187	.003532	-.016699	.001159	-.022661
51	.011511	-.000552	-.001111	-.028816	-.003195	-.030581
52	.018370	-.004668	-.006051	-.032286	-.009854	-.033537
53	.026771	-.010368	-.016371	-.027728	-.011529	-.028740
54	.034389	-.009871	-.024268	-.017566	-.010626	-.025417
55	.035405	-.003432	-.027239	-.008866	-.006014	-.021010
56	.031495	.004168	-.026786	.003540	-.001903	-.006961
57	.026161	.015244	-.022074	.017650	-.000923	.011416
58	.030634	.029254	-.026015	.035173	-.001519	.032707
59	.034706	.034547	-.029785	.048881	.000788	.046144
60	.031036	.031831	-.024425	.045706	.004001	.043909

RUN NO. 85C 40M 11-16-62 1358-1503 EST
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.11638 10E 01	0.10621 10E 01	0.56820 10E 00	0.57448 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.863775	.814614	.723999	.850321
2	.700996	.588984	.432257	.649308
3	.581977	.430767	.249048	.499051
4	.480692	.327386	.136652	.400191
5	.389849	.247140	.068161	.322399
6	.304169	.171983	.020867	.247782
7	.229917	.099954	-.014917	.179025
8	.176745	.035500	-.038861	.123313
9	.125619	-.009633	-.070280	.069358
10	.075598	-.053852	-.092990	.023036
11	.028939	-.089591	-.103315	-.015387
12	-.017837	-.106181	-.123998	-.036759
13	-.051033	-.113459	-.134738	-.054576
14	-.080751	-.123635	-.116022	-.075074
15	-.122906	-.133927	-.103605	-.099857
16	-.161963	-.140340	-.089925	-.116165
17	-.184853	-.141517	-.083915	-.130526
18	-.205825	-.147702	-.087810	-.146836
19	-.222801	-.163891	-.097973	-.171370
20	-.245073	-.179753	-.106131	-.194170
21	-.273095	-.198126	-.114010	-.213611
22	-.294896	-.207132	-.126621	-.226334
23	-.302164	-.217236	-.131618	-.236734
24	-.310682	-.226860	-.117646	-.238108
25	-.319319	-.229609	-.093580	-.232956
26	-.318528	-.226711	-.084816	-.226127
27	-.307990	-.208158	-.097820	-.216703
28	-.289117	-.184158	-.119041	-.210524
29	-.280351	-.146212	-.122083	-.199410
30	-.267142	-.103567	-.086478	-.183460
31	-.238763	-.063268	-.041443	-.163327
32	-.209589	-.038717	-.014885	-.143596
33	-.182269	-.019225	-.013091	-.135801
34	-.158820	-.013670	-.017159	-.139069
35	-.142992	-.006871	-.002378	-.141436
36	-.128645	-.013271	.004289	-.145131
37	-.117148	-.025470	.010638	-.149497
38	-.103684	-.036091	.006542	-.143236
39	-.083346	-.031947	-.008568	-.114742
40	-.065224	-.014942	-.012453	-.078434
41	-.052659	-.002468	-.001508	-.051286
42	-.041540	.001893	.006637	-.023267
43	-.020354	.011161	.001801	.006147
44	.006619	.015012	-.005974	.033466
45	.028614	.018267	-.001835	.059560
46	.041732	.031818	-.004779	.084894
47	.049564	.056224	-.020964	.113015
48	.060287	.072577	-.026047	.133411
49	.069509	.079739	-.021152	.137493
50	.071857	.076892	-.012775	.136571
51	.069495	.071237	-.001136	.140250
52	.068485	.068347	.009700	.145763
53	.068577	.057109	.009433	.139996
54	.070898	.037367	.002170	.121452
55	.074901	.023431	-.012905	.104094
56	.076330	.015476	-.014686	.084888
57	.077346	.007137	.001568	.065473
58	.078939	-.007389	.019539	.045069
59	.075315	-.026726	.035074	.021330
60	.062968	-.039680	.031316	-.003627

RUN NO. 85C 40M 11-16-62 1358-1503 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-02	10E-02	10E-02
0	-.013569	-.050109	-.066994	.242647	-.096214	-.001301
1	.151640	-.582012	-.731494	.463918	-.788909	.107947
2	.184756	-.673578	-.726159	-.175952	-.942122	.143082
3	.014390	-.584708	-.414835	-.578200	-.892510	.115905
4	-.037455	-.355421	-.133940	-.572181	-.559118	.067264
5	.039696	-.230243	-.125263	-.082638	-.377572	.026158
6	-.007373	-.185157	-.108297	.031211	-.296287	-.002944
7-8	-.009910	-.177062	-.070825	-.049064	-.292334	-.000240
9-11	-.028572	-.061434	-.006230	.159451	-.134081	.011310
12-15	.012914	-.044095	-.013354	-.226120	-.090494	.021771
16-20	.003112	-.027116	.001721	-.091677	-.073507	.007473
21-27	.007768	-.018268	-.003735	-.005857	-.048002	-.004318
28-36	-.002322	-.005075	.000576	-.032325	-.021245	-.000379
37-47	.001852	-.001415	-.000417	-.035217	-.011927	-.000183
48-60	.000438	-.000678	-.000331	-.013144	-.008387	-.000813

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	-.125043	-.075949	-.028542	-.514716	-.102865	.048975
2	-.023410	-.066046	-.083589	-.655385	-.114765	.254912
3	.115271	-.111629	-.128405	-.208004	-.098187	.425292
4	.180652	-.113424	-.158650	.686049	-.040741	.724600
5	.092692	-.070466	-.133041	.445526	-.037865	.539209
6	-.023354	-.009398	-.058132	-.094601	-.077528	.203668
7-8	.021251	.018273	-.050642	.420816	-.056919	.407096
9-11	.023026	-.021182	-.025117	.159841	-.016259	.034012
12-15	-.001678	-.010704	-.006130	.019135	-.016848	-.019420
16-20	.007193	-.005523	-.008871	-.051112	-.012563	-.017124
21-27	-.000537	.000964	-.003348	.023910	-.005464	.019909
28-36	.001854	.002483	-.003418	-.007037	-.001361	-.020244
37-47	.000264	.000085	-.000821	.024211	-.001490	-.009426
48-60	.001123	-.000003	-.000666	-.008216	-.000833	-.004352

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.019490	.013308	.029467	.011596
1	.209235	.117220	.357105	.091886
2	.243229	.148639	.484061	.101247
3	.204158	.155851	.563636	.085633
4	.103723	.104413	.460721	.050157
5	.062586	.068234	.371253	.037539
6	.054323	.062425	.369470	.028688
7-8	.043700	.056471	.305998	.025804
9-11	.025319	.025230	.194504	.013278
12-15	.015234	.019728	.166078	.009613
16-20	.009440	.014893	.104791	.006935
21-27	.007307	.009879	.070759	.004352
28-36	.004436	.005186	.046667	.002241
37-47	.002941	.003262	.030200	.001247
48-60	.001661	.002261	.020012	.000835

RUN NO. 85C 40M 11-16-62 1358-1503 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
	0.11950 10E 01	0.62935 10E 00	0.10359 10E 00	0.50040 10E 00	0.82362 10E-01	0.43377 10E-01
0	-.010913	-.560828	-.495235	.073176	-.708921	.111547
1	-.018649	-.244951	-.363398	.124421	-.365749	.043087
2	-.046378	-.038608	-.176379	.102310	-.125618	-.026818
3	-.065927	.048195	-.015904	.004491	.014569	-.001758
4	-.036124	.115151	.038197	-.038562	.156447	-.010374
5	.047150	.068196	.017010	-.079671	.139706	.039237
6	.061819	.046081	.032212	-.134764	.205122	.066795
7	.029779	.057683	.083631	-.045878	.242652	.008866
8	-.008671	.058370	.124204	.015483	.121579	-.038986
9	.031020	.069413	.118916	.069282	-.011882	-.108222
10	.045073	.062995	.109429	.090081	-.067300	-.107716
11	.067030	.021824	.102099	.034464	-.105830	-.051338
12	.090439	.009699	.069549	-.047336	-.060706	.011187
13	.017979	-.036291	.097244	-.027406	.024238	.025131
14	-.004199	.012481	.077435	-.070502	.022537	.043006
15	-.001012	.078917	.026541	-.069009	.045395	.056779
16	.008392	.070442	-.011847	-.051476	.020647	.054252
17	.039394	-.003108	-.052911	-.122136	-.030135	.094579
18	-.028362	-.082511	-.008568	-.003551	.057103	.026481
19	-.127462	-.049028	.043600	.056771	.052695	-.017129
20	-.157033	-.020546	.082384	.060936	.047483	-.034813
21	-.182738	.039841	.106743	.066065	.074584	-.066317
22	-.115422	.040276	.094182	.020974	.061286	-.038452
23	-.045787	.009533	.047605	-.026970	.043638	-.009460
24	-.008462	.039060	.003201	.014641	.032349	-.033584
25	.048212	.057103	-.090132	-.024195	-.042592	.031905
26	.138587	.021478	-.187692	-.036885	-.120927	.036559
27	.178918	.031140	-.205580	.003508	-.155436	.008852
28	.137376	-.045212	-.140409	.045062	-.170826	-.011464
29	.078361	-.137211	-.045917	.014930	-.134612	.007105
30	.001275	-.079758	.044296	.054663	.019191	-.029537

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	.002784	-.009716	-.036546	.000623	-.030306	.059442
1	.087929	-.137048	-.522723	.052527	-.266300	.163107
2	-.119986	-.198812	-.700004	.079294	-.308609	.216216
3	-.341691	-.292541	-.788912	.064393	-.437964	.735671
4	-.067828	-.308895	-.702258	.047509	-.707556	.843154
5	.017283	-.283162	-.420212	.152308	-.825783	-.256374
6	-.082518	-.291356	-.291529	.225550	-.707070	-.867788
7	.048251	-.234090	-.403141	.116710	-.473461	-.142023
8	-.001424	-.189558	-.289881	.005501	-.179681	.494717
9-11	.163821	-.225847	-.282981	-.057514	-.191769	.809617
12-14	.021203	-.112172	-.102815	.002720	-.209391	.078434
15-21	-.022575	-.082065	-.016695	-.033942	-.101151	.229275
22-30	-.006436	-.079172	-.029033	-.003837	-.113734	.019859

RUN NO. 85C 40M 11-16-62 1358-1503 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
	0.11950 10E 01	0.62935 10E 00	0.10359 10E 00	0.50040 10E 00	0.82362 10E-01	0.43377 10E-01
1	-.048729	-.046692	-.002820	-.034105	-.064734	.007932
2	-.129011	-.018089	.048989	-.091401	-.087245	-.048925
3	-.108452	-.051190	.024348	-.058133	-.080357	-.052721
4	-.108019	-.057183	.046594	-.047093	-.074615	-.047510
5	-.124154	-.023675	.071876	-.109577	-.089453	-.100825
6	-.098958	.019061	.058963	-.039330	-.068192	-.024734
7	-.116504	.025132	.073318	-.074486	-.062324	-.036686
8	-.093777	.031792	.044150	-.073818	-.043452	-.020795
9	-.020328	.014674	-.022475	.022736	-.021880	.061119
10	-.002142	.014131	-.023851	.054169	-.007426	.048280
11	.021000	.057920	-.053186	.054245	.011453	.092677
12	.043771	-.013004	-.039854	.018489	.024535	.032123
13	.056359	-.038638	-.036384	.057660	.020386	.026114
14	.067576	.033826	-.042965	.018120	.024696	.028500
15	.087014	.049970	-.044557	.045568	.042561	.058667
16	.071264	.051227	-.040198	.078143	.030840	.074655
17	.045315	.026040	-.014788	.029385	.023776	.025198
18	.041582	-.005428	-.013975	.002859	-.000150	-.034411
19	-.018981	-.032620	.004093	-.099085	-.010917	-.072324
20	-.021004	-.018651	-.002956	-.041296	-.005742	-.044339
21	-.003568	-.012209	.012912	-.025910	.001182	-.016106
22	-.011021	.007044	.040671	-.038978	.003960	-.033475
23	.014399	.007393	.027934	.008231	.012045	.002319
24	.025258	-.002761	.008888	.037387	.022352	.039416
25	.035563	.022102	.007255	.049076	.030475	.036670
26	.008902	.027989	.017757	-.002000	.022052	.020053
27	-.019347	-.000286	.024325	.018323	-.029608	-.002504
28	-.075963	.012141	.024793	-.039878	-.061474	-.026755
29	-.032623	-.012525	-.008093	-.061678	-.070658	-.064864
30	-.007408	-.045406	-.005209	-.028759	-.049490	-.053683

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	-.193074	.512323	-.003300	-.027269	-.131379	.034181
2	-.437803	.000316	.123890	-.077527	-.206432	-.017966
3	-.630150	-.595477	.278311	-.162773	-.268937	-.105301
4	-.423694	-.792135	.207718	-.149393	-.204881	-.122883
5	-.098189	-.667464	.030832	-.036775	-.086579	-.042058
6	-.026296	-.858683	-.052962	-.001424	-.042374	-.003846
7	-.068419	-.707808	-.077727	-.005893	-.051666	.006952
8	-.031558	.057959	-.057906	.022466	-.029889	.046194
9-11	-.080692	.009080	.029734	-.042507	-.039542	-.004060
12-14	-.001832	.238793	-.003377	.002003	-.027115	.016189
15-21	.025872	-.348660	-.016988	.009113	-.006627	.011001
22-30	.032688	-.110504	-.039896	.003937	-.003681	.005021

RUN NO. 85C 40M 11-16-62 1358-1503 EST
301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.15029 10E 01	0.95012 10E 00	0.26354 10E 00	0.71396 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.612408	.483634	.108570	.590208
2	.246257	.186847	-.016579	.268855
3	.030102	.033086	-.088809	.028232
4	-.077709	-.122525	-.136195	-.175776
5	-.086625	-.158224	-.147977	-.167889
6	-.110106	-.220866	-.028928	-.274216
7	-.143514	-.237159	-.036345	-.343251
8	-.166645	-.179964	-.007809	-.200804
9	-.213004	-.095650	-.027642	-.053544
10	-.217542	-.073022	-.057560	.038637
11	-.213100	-.036489	.013378	.086587
12	-.201222	-.029911	.033096	.023018
13	-.152598	-.108880	-.063025	-.039642
14	-.164555	-.049035	.048716	-.029825
15	-.131950	-.066208	-.031866	-.023388
16	-.064242	-.016983	-.135063	-.005743
17	.025146	.109459	.008660	.014595
18	.106576	.005936	.070149	-.066842
19	.100583	.025451	-.007926	-.066523
20	.057126	.033541	.008250	-.076336
21	.036248	.044631	-.059104	-.132149
22	-.006930	.036393	-.022124	-.133189
23	-.018116	-.003534	.072940	-.079328
24	-.018133	-.041165	-.016875	-.033515
25	.027918	.004797	-.105606	.090239
26	.123439	.034330	-.089125	.195846
27	.125646	.070525	-.072072	.198910
28	.105856	.123063	-.042045	.193280
29	.123386	.109831	.226944	.098733
30	.060047	-.085578	.058822	-.048603

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.003910	.004615	.005065	.060253
1	.101328	.042438	.059256	.471664
2	.177491	.070094	.073276	.531768
3	.223976	.106172	.102453	.709384
4	.161535	.107510	.124293	.977824
5	.102405	.094522	.146272	.989349
6	.108860	.085486	.161979	.777678
7	.108101	.064579	.148354	.545260
8	.081723	.037561	.138352	.229576
9-11	.072919	.032665	.126835	.217707
12-14	.039238	.028679	.082871	.221988
15-21	.021365	.021858	.114793	.083000
22-30	.018659	.020262	.127657	.121243

RUN NO. 85C 16M 11-16-62 1358-1503 EST
RUN NO. 85C 40M 11-16-62 1358-1503 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	.790317	.673638	.620846	.784798
1	.652801	.762351	.656153	.702043
2	.533785	.710239	.644417	.582459
3	.427473	.677346	.647536	.487085
4	.351444	.622897	.668836	.447655
5	.281963	.552636	.616969	.460791
6	.083107	.518857	.487458	.371537
7-8	.093739	.405473	.365153	.253891
9-11	.085532	.229538	.340266	.201500
12-15	.115664	.292004	.314982	.190824
16-20	.097650	.281620	.202711	.274104
21-27	.120203	.191466	.156580	.203928
28-36	.061114	.084696	.090762	.080525
37-47	.105115	.154404	.091771	.089988
48-60	.085751	.080282	.118838	.089349

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	.897116	.832878	.869118	.927990
1	.902718	.845553	.634684	.878690
2	.912717	.855377	.514357	.823515
3	.915441	.854790	.554418	.783482
4	.881528	.812632	.641154	.842523
5	.811984	.816379	.574027	.860574
6	.845438	.849515	.630380	.831044
7	.796842	.827712	.705993	.798643
8	.608804	.794458	.698077	.688251
9-11	.501451	.719658	.753769	.695302
12-14	.452893	.682651	.615926	.405997
15-21	.355258	.558519	.671214	.438688
22-30	.264778	.302641	.536758	.445377

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13. ABSTRACT

This volume contains the data summaries for Runs 78A through 85C. Vertical profiles of mean wind speed, air temperature, and soil temperature are presented in Section I. Section I also includes estimates of terms of the heat-budget equation. 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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14. KEY WORDS	LINK A		LINK B		LINK C	
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Vertical Profiles						
Turbulence Statistics						
Mean Wind Speed						
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