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ROUND HILL TURBULENCE MEASUREMENTS  
VOLUME IV  
Data Tabulations for Runs 66E through 76B

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

December 1966

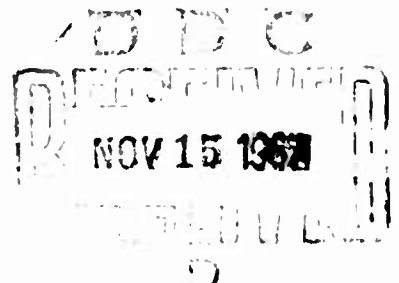
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Meteorology Dept, Massachusetts Institute of Technology  
Cambridge, Massachusetts



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14 December 1966

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VOLUME IV

Data Tabulations for Runs 66E through 76B

Grant No. DA-AMC-28-043-65-G10  
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By

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For

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

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## ABSTRACT

This volume contains the data summaries for Runs 66E through 76B. 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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## FOREWORD

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

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

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

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## SECTION I

### VERTICAL PROFILES OF MEAN WIND SPEED, 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.	66E	66F	67A	67B	67C
Date	5-9-62	5-10-62	5-10-62	5-10-62	5-10-62
Time (EST)	2248-0004	0018-0134	0234-0350	0404-0520	0533-0649
Height (m)	$\bar{U}$ (m sec <sup>-1</sup> )				
40	6.29	7.03	7.62	7.63	7.11
32	5.34	6.20	6.86	6.94	6.76
16	4.30	5.14	5.74	5.89	6.23
8	3.58	4.36	4.98	5.19	5.70
4	2.98	3.77	4.48	4.74	5.29
2	2.52	3.31	3.98	4.26	4.80
1	2.19	2.96	3.51	3.76	4.28
0.50	1.53	2.36	2.91	3.16	3.66
0.25	1.23	1.93	2.34	2.51	2.94

Run No.	67D	67E	67F	67G	71A
Date	5-10-62	5-10-62	5-10-62	5-10-62	10-17-62
Time (EST)	0704-0820	0835-0951	1004-1120	1143-1259	1936-2048
Height (m)	$\bar{U}$ (m sec <sup>-1</sup> )				
40	8.07	10.64	11.54	10.59	6.40
32	7.87	10.25	11.15	10.26	5.70
16	7.39	9.58	10.45	9.62	4.42
8	6.82	8.76	9.62	8.90	3.70
4	6.34	8.17	8.91	8.34	3.30
2	5.76	7.44	8.09	7.58	2.83
1	5.16	6.64	7.18	6.53	2.54
0.50	4.46	5.85	6.40	6.06	2.16
0.25	3.56	4.68	5.12	4.82	1.54

\* 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.

TABLE 1 (Continued)

Run No.	71B	72A	72B	72C	72F
Date	10-17-62	10-17-62	10-18-62	10-18-62	10-18-62
Time (EST)	2051-2204	2251-0006	0006-0122	0122-0238	0510-0626
Height (m)	$\bar{U}$ (m sec <sup>-1</sup> )				
40	6.73	6.22	7.00	6.66	7.15
32	6.14	5.49	6.27	5.85	6.23
16	5.06	4.16	4.79	4.31	4.48
8	4.39	3.44	4.02	3.57	3.67
4	3.95	3.09	3.58	3.22	3.23
2	3.52	2.63	3.14	2.74	2.68
1	3.16	2.38	2.85	2.49	2.47
0.50	2.75	1.98	2.42	2.14	2.07
0.25	2.07	1.38	1.79	1.54	1.45
Run No.	76A	76B			
Date	10-24-62	10-24-62			
Time (EST)	1451-1600	1606-1702			
Height (m)	$\bar{U}$ (m sec <sup>-1</sup> )				
40	7.55	5.24			
32	7.10	4.76			
16	6.54	3.98			
8	5.94	3.40			
4	5.33	2.92			
2	4.90	2.56			
1	4.40	2.29			
0.50	4.02	2.00			
0.25	3.18	1.42			

TABLE 2

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

Run No.	66E	66F	67A	67B	67C
Date	5-9-62	5-10-62	5-10-62	5-10-62	5-10-62
Time (EST)	2248-0004	0018-0134	0234-0350	0404-0520	0533-0649
Height (m)	$T_D, T_W$ (C)				
40	9.5(3.4)	8.8(3.2)	8.0(2.6)	7.8(2.4)	9.0(3.2)
32	9.3(3.7)	8.8(3.5)	8.0(2.9)	7.7(2.8)	9.1(m)
16	9.1(m)	8.5(m)	7.8(m)	7.6(m)	9.2(m)
8	8.7(3.0)	8.3(2.7)	7.7(2.1)	7.5(2.2)	9.2(3.2)
4	8.2(2.7)	8.0(2.6)	7.5(2.0)	7.4(2.1)	9.2(3.1)
2	7.7(2.4)	7.7(2.4)	7.2(1.9)	7.2(2.0)	9.3(3.2)
1	7.2(m)	7.5(m)	7.0(m)	7.0(m)	9.3(m)
0.50	6.8(2.0)	7.2(2.3)	6.7(1.8)	6.7(1.9)	9.4(3.5)
0.25	6.4(1.8)	7.0(2.1)	6.4(1.6)	6.5(1.8)	9.4(3.7)
0.12	6.2(1.7)	6.8(2.0)	6.2(1.5)	6.4(1.7)	9.4(3.6)

Run No.	67D	67E	67F	67G	71A
Date	5-10-62	5-10-62	5-10-62	5-10-62	10-17-62
Time (EST)	0704-0820	0835-0951	1004-1120	1143-1259	1936-2048
Height (m)	$T_D, T_W$ (C)				
40	11.7(4.7)	13.2(4.9)	14.4(5.7)	15.9(6.4)	13.9(8.4)
32	11.9(m)	13.4(m)	14.7(m)	16.2(6.6)	13.8(8.3)
16	12.0(m)	13.6(m)	m(m)	16.5(m)	13.5(8.6)
8	12.2(4.6)	13.8(5.3)	15.2(5.9)	16.7(6.5)	13.2(8.3)
4	12.4(4.6)	14.1(5.2)	15.6(6.1)	17.0(6.5)	12.9(7.8)
2	12.6(4.9)	14.4(5.5)	15.9(6.2)	17.4(6.8)	12.5(7.7)
1	13.0(m)	14.8(m)	16.4(m)	17.9(m)	12.0(7.5)
0.50	13.3(5.4)	15.2(6.1)	16.9(6.9)	18.5(7.7)	11.5(7.4)
0.25	13.6(5.7)	15.6(6.5)	17.6(7.6)	19.2(8.3)	11.2(7.2)
0.12	13.8(5.8)	15.8(6.5)	17.9(7.5)	19.7(8.3)	10.8(6.9)

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

TABLE 2 (Continued)

Run No.	71B	72A	72B	72C	72F
Date	10-17-62	10-17-62	10-18-62	10-18-62	10-18-62
Time (EST)	2051-2204	2251-0006	0006-0122	0122-0238	0510-0626
Height (m)	$T_D, T_W$ (C)				
40	12.9(7.8)	11.1(6.8)	10.3(6.3)	9.6(5.9)	8.3(5.2)
32	12.9(7.7)	11.0(6.8)	10.1(6.3)	9.4(5.8)	7.8(4.9)
16	12.7(8.1)	10.7(7.0)	9.8(6.5)	8.9(5.9)	7.1(4.9)
8	12.5(7.8)	10.4(6.7)	9.5(6.2)	8.7(5.6)	6.8(4.5)
4	12.3(7.4)	10.1(6.4)	9.3(5.9)	8.4(5.3)	6.5(4.3)
2	12.0(7.4)	9.8(6.3)	9.0(5.8)	8.1(5.2)	6.2(4.2)
1	11.7(7.3)	9.3(6.1)	8.7(5.7)	7.7(5.1)	5.8(4.0)
0.50	11.4(7.1)	8.9(5.9)	8.4(5.5)	7.3(4.9)	5.5(3.8)
0.25	11.2(7.0)	8.6(5.7)	8.2(5.4)	7.0(4.7)	5.2(3.6)
0.12	10.9(6.8)	8.3(5.5)	7.9(5.2)	6.7(4.5)	5.0(3.4)

Run No.	76A	76B
Date	10-24-62	10-24-62
Time (EST)	1451-1606	1606-1702
Height (m)	$T_D, T_W$ (C)	
40	9.4(3.1)	8.3(2.4)
32	9.6(3.4)	8.3(2.8)
16	9.6(3.8)	8.3(3.0)
8	9.6(3.5)	8.2(m)
4	9.6(3.5)	7.9(m)
2	9.7(3.6)	7.6(2.5)
1	9.8(3.7)	7.2(2.4)
0.50	9.7(3.8)	7.0(2.3)
0.25	9.8(4.1)	6.7(2.4)
0.12	9.8(4.1)	6.5(m)

TABLE 3  
VERTICAL PROFILES OF SOIL TEMPERATURE

Run No.	66E	66F	67A	67B	67C
Date	5-9-62	5-10-62	5-10-62	5-10-62	5-10-62
Time (EST)	2242	0015	0140	0223	0531

Depth (cm)	<u>South Position</u>					
	<u>T (C)</u>					
1.6	8.7	7.6	6.4	6.7	6.2	6.5
3.1	9.6	8.5	7.9	7.6	7.0	7.1
6.2	10.7	9.5	8.9	8.6	7.9	7.6
12.5	m	m	m	m	m	m
25.0	13.2	12.5	11.9	11.7	11.0	10.6
50.0	m	m	m	m	m	m

Depth (cm)	<u>North Position</u>					
	<u>T (C)</u>					
1.6	8.3	7.5	7.0	6.8	6.3	6.2
3.1	9.1	8.2	7.7	7.5	7.0	6.8
6.2	10.3	9.6	9.0	8.8	8.3	7.9
12.5	11.0	10.4	10.0	9.8	9.3	9.0
25.0	m	m	m	m	m	m
50.0	10.3	10.3	10.4	10.4	10.4	10.4

Average Value for Layer	<u>T(C)</u>					
	0-5 cm	9.0	8.2	7.7	7.5	7.0

TABLE 3 (Continued)

Run No.	67C	67D	67E	67F	67G	71A
Date	5-10-62	5-10-62	5-10-62	5-10-62	5-10-62	10-17-62
Time (EST)	0703	0830	1002	1129	1320	1934
	<u>South Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	11.4	17.5	22.5	m	m	10.7
3.1	10.5	14.9	18.3	20.0	22.8	12.3
6.2	9.7	13.0	16.1	18.1	21.0	14.0
12.5	m	m	m	m	m	15.1
25.0	10.2	10.3	11.0	12.0	13.4	16.0
50.0	m	m	m	m	m	15.0
	<u>North Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>					
1.6	7.8	10.6	m	16.1	18.2	12.8
3.1	8.0	10.5	13.6	16.2	18.4	13.4
6.2	8.0	8.9	10.5	12.1	14.3	13.7
12.5	8.7	8.8	9.6	10.6	12.1	14.3
25.0	m	m	m	m	m	14.3
50.0	10.4	10.3	m	m	m	m
	<u>Average Value for Layer</u>					
	<u>T (C)</u>					
0-5 cm	9.0	12.3	15.7	18.4	20.4	13.0

TABLE 3 (Continued)

Run No.	71A	71B	72A	72B	72C
Date	10-17-62	10-17-62	10-17-62	10-18-62	10-18-62
Time (EST)	2053	2205	2248	0017	0130
					10-18-62
					0240
<u>South Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>				
1.6	10.0	9.6	9.0	7.9	7.3
3.1	11.3	10.8	10.3	9.3	8.7
6.2	12.9	12.3	11.9	11.0	10.4
12.5	14.2	13.5	13.2	12.5	12.0
25.0	15.6	15.3	15.1	14.7	14.3
50.0	15.1	15.1	15.2	15.2	15.2
<u>North Position</u>					
<u>Depth (cm)</u>	<u>T (C)</u>				
1.6	12.2	11.8	11.5	11.0	10.6
3.1	12.8	12.4	12.2	11.7	11.3
6.2	13.2	12.8	12.6	12.3	11.9
12.5	14.0	13.8	13.6	13.3	13.1
25.0	14.2	14.2	14.2	14.0	14.0
50.0	m	m	m	m	m
<u>Average Value for Layer</u>					
	<u>T (C)</u>				
0-5 cm	12.3	11.9	11.6	11.0	10.6
					10.1

TABLE 3 (Continued)

Run No.	72F		76A	76B
Date	10-18-62	10-18-62	10-24-62	10-24-62
Time (EST)	0512	0628	1453	1723
	<u>South Position</u>			
<u>Depth (cm)</u>	<u>T (C)</u>			
1.6	5.2	5.6	13.2	5.5
3.1	6.8	6.5	14.2	6.6
6.2	8.7	8.2	14.9	9.2
12.5	10.5	10.0	14.4	11.3
25.0	13.3	13.0	13.5	13.5
50.0	15.1	15.0	14.1	14.1
	<u>North Position</u>			
<u>Depth (cm)</u>	<u>T (C)</u>			
1.6	9.5	9.2	11.8	9.5
3.1	10.3	10.1	12.4	10.5
6.2	11.1	10.8	11.6	10.9
12.5	12.4	12.2	12.0	11.9
25.0	13.7	13.5	12.4	12.5
50.0	m	m	m	m
	<u>Average Value for Layer</u>			
	<u>T (C)</u>			
0-5 cm	9.3	9.0	12.6	9.2



TABLE 4

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

Run No.	Date	Time (EST)	R <sub>o</sub>	S <sub>o</sub>	Q <sub>o</sub>	E <sub>o</sub> **
(cal cm <sup>-2</sup> min <sup>-1</sup> )						
66E	5-9-62	2248-0004	0.16	-0.05	-0.02	-0.09
66F	5-10-62	0018-0134	0.17	-0.05	-0.04	-0.08
67A	5-10-62	0234-0350	0.17	-0.04	-0.05	-0.08
67B	5-10-62	0404-0520	0.15	-0.03	-0.05	-0.07
67C	5-10-62	0533-0649	-0.12	0.02	0	0.10
67D	5-10-62	0704-0820	-0.48	0.08	0.15	0.25
67E	5-10-62	0835-0951	-0.77	0.11	0.21	0.45
67F	5-10-62	1004-1120	-0.97	0.12	0.35	0.50
67G	5-10-62	1143-1259	-0.98	0.11	0.29	0.58
71A	10-17-62	1936-2048	0.15	-0.03	-0.04	-0.08
71B	10-17-62	2051-2204	0.15	-0.02	-0.07	-0.06
72A	10-17-62	2251-0006	0.15	-0.02	-0.04	-0.09
72B	10-18-62	0006-0122	0.15	-0.02	-0.04	-0.09
72C	10-18-62	0122-0238	0.15	-0.02	-0.03	-0.10
72F	10-18-62	0510-0626	0.14	-0.02	-0.03	-0.09
76A	10-24-62	1451-1606	-0.02	-0.06	-0.03	0.05(0.01)
76B	10-24-62	1606-1702	0.15	-0.06	0.01	-0.08(0.03)

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

\*\* Values of E<sub>o</sub> 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  $\text{g m}^{-3}$ . 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  $\text{m sec}^{-1}$  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  $\text{min}^{-1}$ .

###### 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 76A and 76B. 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  $\frac{\sigma_u}{\bar{U}}$ ,  $\frac{\sigma_v}{\bar{U}}$ ,  $\frac{\sigma_w}{\bar{U}}$  where  $\sigma$  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 76A and 76B 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 76A and 76B also included N and RHO(W). For all runs except 76A and 76B, 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 76A and 76B 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 76A and 76B, 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 <sup>-1</sup> )	K	$f_k$ (cycles sec <sup>-1</sup> )
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 <sup>-1</sup> )	K	$f_k$ (cycles sec <sup>-1</sup> )
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 66E through 76B.

RUN NO. 66E 16M 05-09-62 2248-0004 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.30 M/SEC	WIND DIRECTION	262 DEG
STABLE	SIGMA A	5.5 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.2 DEG	NET RADIATION	-0.16

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

VARIANCES

U	0.57718E 00	0.28726E-00	0.23897E-00	0.16020E-00
V	0.17934E-00	0.14389E-00	0.13965E-00	0.53873E-01
W	0.59440E-01	0.59521E-01	0.57567E-01	0.13866E-01
T	0.12603E-00	0.19548E-01	0.17287E-01	0.10065E-01
E	0.40798E-00	0.24534E-00	0.21810E-00	

GUSTINESS RATIOS

U	0.17668	0.12464	0.11369	0.09308
V	0.09849	0.08822	0.08691	0.05398
W	0.05670	0.05674	0.05580	0.02738

COVARIANCES

U,V	0.33973E-01	0.25169E-01	0.21449E-01	0.17545E-01
U,W	-0.45946E-01	-0.51426E-01	-0.47975E-01	-0.19256E-01
U,T	-0.10197E-00	0.43307E-01	0.36136E-01	0.27304E-01
V,W	-0.93398E-02	-0.11520E-01	-0.10523E-01	-0.36473E-02
V,T	0.47425E-02	0.66749E-02	0.71205E-02	0.31252E-02
W,T	-0.13210E-01	-0.12912E-01	-0.12055E-01	-0.47878E-02
WE	-0.10177E-01	-0.71319E-02	-0.64570E-02	

NORMALIZED COVARIANCES

U,V	0.10559	0.12380	0.11742	0.18886
U,W	-0.24806	-0.39329	-0.40902	-0.40858
U,T	-0.37808	0.57792	0.56222	0.67997
V,W	-0.09046	-0.12448	-0.11737	-0.13345
V,T	0.03155	0.12586	0.14493	0.13421
W,T	-0.15263	-0.37853	-0.38215	-0.40529

RUN NO. 66E 16M 05-09-62 2248-0004 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18268 10E 00	0.17731 10E 00	0.64285 10E-01	0.89655 10E-01	0.49128 10E-01	0.31549 10E-01
0	.117501	-.408860	.562045	-.117297	.145128	-.381965
1	.109178	-.320759	.505153	-.076806	.124784	-.283843
2	.090954	-.202332	.405099	-.037419	.091625	-.171450
3	.063793	-.120645	.306614	-.024122	.065132	-.095852
4	.043781	-.069822	.222182	-.023475	.050386	-.047317
5	.028865	-.029160	.157497	-.012040	.026707	-.014179
6	.016055	.000771	.100511	-.000272	-.000766	.012222
7	.010195	.032506	.046370	.001825	-.018070	.039035
8	.001704	.054224	-.000347	.010212	-.021374	.056774
9	-.009971	.063225	-.034063	.019157	-.020186	.058357
10	-.020558	.060166	-.052214	.020953	-.020898	.047513
11	-.027053	.046386	-.067385	.006488	-.016058	.022920
12	-.035075	.041269	-.078913	.000333	-.015572	.005482
13	-.034819	.039358	-.094464	.012066	-.008294	.012156
14	-.025547	.031722	-.104462	.022252	-.001448	.021141
15	-.020964	.026311	-.113809	.029437	-.009894	.037357
16	-.028611	.034117	-.126841	.028946	-.022306	.048355
17	-.035263	.042489	-.142666	.030544	-.031691	.050942
18	-.036760	.050873	-.157432	.035471	-.040561	.052687
19	-.036213	.057465	-.165163	.036855	-.050356	.059286
20	-.039305	.061940	-.166246	.042852	-.061913	.064590
21	-.039069	.057267	-.167516	.041530	-.068839	.057978
22	-.034440	.054143	-.162836	.036045	-.069966	.047262
23	-.022282	.057531	-.152795	.018302	-.066201	.052495
24	-.012090	.061678	-.142567	.007563	-.050768	.052051
25	-.009430	.060745	-.135206	-.002652	-.039568	.049445
26	-.011605	.055537	-.124640	-.004408	-.028501	.054778
27	-.014644	.046275	-.100419	-.004622	-.017012	.053537
28	-.009467	.034407	-.075301	-.007577	-.007244	.040644
29	.000773	.022170	-.049717	-.012897	.001514	.027574
30	.000842	.013475	-.032951	-.019081	.007298	.015475
31	.005695	.001146	-.016142	-.014956	.007553	-.000670
32	.013196	-.007045	-.001992	-.013413	.002124	-.007616
33	.009434	-.009685	.017957	-.019801	-.005324	-.025685
34	.009748	-.009794	.032570	-.025817	-.010756	-.036961
35	.010735	-.015129	.039244	-.029088	-.016060	-.038346
36	.008693	-.016029	.033934	-.024646	-.005035	-.027562
37	.010854	-.010259	.030185	-.030879	.014681	-.015333
38	.010734	.002565	.028158	-.034313	.028701	-.016871
39	.010328	.000625	.029925	-.035379	.037956	-.019332
40	.012851	-.003485	.032386	-.029216	.045450	-.019769
41	.013726	-.002718	.032201	-.011050	.047844	-.018249
42	.010596	.000060	.029143	.002970	.048369	-.014493
43	.005079	.005056	.020023	.010554	.042653	-.007538
44	-.011725	.009700	.005582	.014965	.036698	.000065
45	-.020462	.009958	-.005773	.014507	.031885	.010434
46	-.020964	.014582	-.009473	.026010	.029026	.011360
47	-.029223	.026373	-.013688	.041199	.028402	.023037
48	-.032455	.034794	-.015545	.052748	.017768	.034522
49	-.025776	.022020	-.011475	.054268	.004077	.026018
50	-.015466	.005163	-.007814	.040025	-.009168	.017452
51	-.006775	-.007483	.001272	.015656	-.013000	.007401
52	-.002659	-.017792	.008556	-.004486	-.011020	-.008320
53	.006523	-.021951	.016777	-.015890	-.004481	-.012654
54	.019256	-.015576	.020735	-.027953	.002393	-.010586
55	.027265	-.007451	.020110	-.029719	.008367	-.012212
56	.026544	-.008897	.018047	-.016907	.014379	-.010701
57	.020801	-.009030	.006767	-.010008	.022424	-.000243
58	.023234	.000468	-.003114	-.019277	.030656	.025011
59	.021136	.001727	-.003069	-.021006	.022870	.025698
60	.016178	-.000017	.005610	-.007793	.016549	.016353



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 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,M	U,T	V,M	V,T	W,T
	0.18268 10E 00	0.11731 10E 00	0.64285 10E-01	0.89655 10E-01	0.49128 10E-01	0.31549 10E-01
1	.020906	-.005897	.030111	.060209	-.019614	-.070212
2	.034189	.007665	.040284	.078886	-.021949	-.097537
3	.043089	.029954	.040634	.082389	-.024576	-.103451
4	.036668	.048203	.036602	.071558	-.022214	-.100730
5	.027304	.049654	.030860	.046625	-.007982	-.096587
6	.021827	.048850	.024036	.019444	.012761	-.084311
7	.016001	.050781	.014278	.007519	.024466	-.063854
8	.000600	.049335	.002605	-.002334	.029716	-.037707
9	-.016416	.049890	-.012173	.000924	.038187	-.016728
10	-.023903	.054847	-.015134	.003483	.049636	-.008078
11	-.027010	.057179	-.013355	.003840	.051078	-.016302
12	-.022358	.039482	-.010689	.001353	.039901	-.016693
13	-.013846	.017487	-.006406	-.000709	.020680	-.014395
14	.003851	.005521	-.001567	-.004504	.002617	-.017936
15	.017224	.001392	.004402	-.002790	-.008326	-.013749
16	.020666	-.002707	.011600	.010969	-.012537	-.011000
17	.024594	-.009524	.019791	.026015	-.011916	-.014128
18	.022824	-.013578	.029865	.020908	-.014482	-.028969
19	.014972	-.017621	.038328	.015540	-.013669	-.030244
20	.002125	-.013576	.040151	.003438	-.009677	-.032676
21	.002120	-.011759	.037118	.000693	-.012535	-.038964
22	.004069	-.004192	.025408	-.003018	-.019769	-.042714
23	.001142	.003905	.010581	-.014229	-.020220	-.028889
24	-.007133	-.002343	.003932	-.043716	-.005818	-.005309
25	-.012037	-.014416	.003333	-.054406	.015999	.006807
26	-.017069	-.019256	.003446	-.038888	.022698	.008361
27	-.017673	-.018285	.008594	-.020277	.014932	.009142
28	-.016578	-.012517	.003343	-.007433	-.005317	.028487
29	-.013948	-.007580	-.010138	-.020638	-.017274	.043614
30	-.012179	-.000100	-.023750	-.030021	-.019426	.049539
31	-.008239	-.002306	-.019887	-.025230	-.020244	.045537
32	-.009613	-.006336	-.006965	-.019863	-.018504	.035171
33	-.007946	-.000786	-.000801	-.009781	-.016679	.019487
34	.000681	.015585	.001930	.006335	-.015735	-.000368
35	.015767	.026239	.000271	.017761	-.020950	.003773
36	.017788	.019446	.005196	.016433	-.026991	.007854
37	.006916	.004149	.015518	.004530	-.024581	.009521
38	.005642	-.000633	.018162	.004250	-.014055	.005818
39	-.001696	.000487	.014746	.010656	.003776	-.000478
40	-.002066	.004141	.014804	.010679	.018709	-.009589
41	.005074	.010481	.013121	.011023	.026531	-.020869
42	.008846	.013164	.013985	.015838	.033742	-.027858
43	.015097	.013677	.008550	.031344	.027091	-.028492
44	.011964	.016431	.000753	.036332	.025406	-.018949
45	.006514	.002542	-.001596	.034278	.025058	-.001827
46	-.003717	-.010789	-.006842	.009747	.027795	.012964
47	-.013922	-.007295	-.010255	-.012315	.028905	.006891
48	-.009261	-.004777	-.012243	-.025536	.017487	.000351
49	-.002733	-.006661	-.012799	-.019606	-.001000	-.004728
50	.005072	-.000888	-.016689	-.001572	-.017119	-.009386
51	.011784	-.003886	-.014856	.011228	-.026230	-.002940
52	.013601	-.017709	-.009840	.009127	-.026831	.017552
53	.014047	-.025533	-.010794	-.002820	-.018960	.021467
54	.009786	-.018957	-.015531	-.009674	-.010762	.016495
55	.004569	-.019434	-.014294	-.017290	.001036	.020216
56	.011019	-.020345	-.012072	-.013375	.004276	.021698
57	.015660	-.022367	-.009332	-.000811	-.006530	.018046
58	.020834	-.019336	-.010726	.023253	-.013833	.004367
59	.015554	-.025523	-.012365	.027279	-.013318	-.001009
60	-.003282	-.029145	-.015169	.020918	.002985	.002597

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 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	M	T
	0.23904 10E 00	0.13961 10E 00	0.57575 10E-01	0.17288 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.812840	.723461	.546043	.803742
2	.592452	.412472	.193104	.564280
3	.431256	.210723	.019533	.395299
4	.309240	.087407	-.041360	.270154
5	.208478	-.008835	-.052041	.167922
6	.127070	-.040644	-.053659	.081884
7	.057895	-.071236	-.062912	.011032
8	.005535	-.084968	-.080756	-.031547
9	-.031157	-.098449	-.101023	-.050929
10	-.066225	-.110212	-.111385	-.061394
11	-.099426	-.113357	-.081102	-.077467
12	-.124807	-.113410	-.053170	-.098820
13	-.145978	-.111726	-.044447	-.113270
14	-.167629	-.114005	-.052532	-.129441
15	-.182591	-.116141	-.055482	-.143701
16	-.197901	-.124061	-.041952	-.159335
17	-.214402	-.128369	-.043327	-.177817
18	-.225265	-.138459	-.058206	-.194514
19	-.226372	-.133202	-.073166	-.207757
20	-.220551	-.127302	-.086735	-.211211
21	-.213111	-.116538	-.072808	-.213978
22	-.206286	-.102027	-.055882	-.215069
23	-.190457	-.085983	-.061969	-.224163
24	-.169854	-.085453	-.054224	-.229680
25	-.159103	-.098991	-.037047	-.224390
26	-.150694	-.117702	-.056128	-.205739
27	-.132235	-.123496	-.062232	-.177750
28	-.108263	-.108590	-.054836	-.141208
29	-.082831	-.085819	-.041121	-.104943
30	-.061690	-.048668	-.014340	-.068718
31	-.035396	-.007760	.012371	-.028206
32	-.019458	.017674	.018278	-.005202
33	-.007862	.033898	.037896	.021128
34	.008767	.058321	.041318	.036981
35	.022013	.078719	.045359	.043288
36	.023945	.071926	.053746	.039782
37	.018147	.058583	.056117	.039043
38	.001711	.055778	.061981	.046239
39	-.004827	.063101	.052451	.048734
40	-.002062	.067877	.061752	.051881
41	-.008789	.072508	.055521	.052928
42	-.024504	.070494	.037526	.050444
43	-.031191	.082718	.014620	.036126
44	-.035526	.076796	.005131	.020382
45	-.043072	.051331	-.022531	.010764
46	-.053861	.017130	-.040309	.001284
47	-.054850	-.009693	-.040829	-.015284
48	-.046851	-.035521	-.053616	-.017367
49	-.031268	-.051983	-.041663	-.010212
50	-.008614	-.049724	-.043271	-.003703
51	.009726	-.037501	-.022619	.004419
52	.020600	-.028182	.007316	.009622
53	.020228	-.005279	.006254	.017136
54	.025347	.009967	-.009233	.031569
55	.032425	.011322	-.025918	.039787
56	.041665	.001125	-.028188	.034687
57	.044127	-.012020	-.002488	.015354
58	.048371	-.005919	-.007326	-.004405
59	.059438	.005318	-.023484	-.013213
60	.072035	.001589	-.030219	-.011254

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 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	.015285	-.020297	.029757	-.000418	-.001006	-.004126
1	.173024	-.279281	.352302	-.012688	.028078	-.056107
2	.269142	-.407072	.536981	-.054192	.091546	-.12338
3	.405338	-.518145	.678645	-.146518	.133203	-.127787
4	.360568	-.438026	.492691	-.140637	.076704	-.099909
5	.198088	-.316897	.260700	-.040754	.035422	-.062634
6	.147432	-.333346	.213282	-.027606	.036357	-.074330
7-8	.114008	-.346773	.203992	-.041519	.062289	-.082201
9-11	.061555	-.198619	.107607	-.048632	.030637	-.062001
12-15	.041506	-.094827	.046699	-.015762	.007633	-.021993
16-20	.020084	-.083765	.032580	-.023090	.005031	-.023399
21-27	.001320	-.058076	.016855	-.015630	.007445	-.014831
28-36	-.001067	-.028480	.005779	-.019001	.003367	-.008551
37-47	-.002667	-.015685	.004010	-.004521	-.000303	-.005784
48-60	.002843	-.008888	.002258	-.005197	.000856	-.003773

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	.012679	.081641	.545354	-.007900	.020736	-.389980
2	.028008	.099342	.354946	.026515	.169530	-.505620
3	.063026	.164585	.173352	.094081	.403357	-.606556
4	.039924	.191205	-.012661	.089993	.284594	-.388716
5	-.004862	.127107	-.078159	.027053	.099455	-.248033
6	.046289	.063407	.344774	.041134	.073677	-.504295
7-8	.178362	.008434	.689623	.109310	-.450225	-.577275
9-11	.106951	-.025919	.259394	.074914	-.280947	-.256589
12-15	-.008142	.004262	.120835	.060441	-.015644	-.132953
16-20	.020312	-.025882	.044738	.012270	-.060097	-.034151
21-27	.004356	-.008796	.054844	.006277	.016865	-.064385
28-36	-.004494	-.006058	.017178	.007918	-.035290	-.026783
37-47	.002542	-.000574	.008437	.005694	-.012565	-.008209
48-60	.002843	-.001426	.002358	.002295	-.004986	-.003481

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-01
0	.018063	.003398	.010168	.010834
1	.218460	.049495	.110442	.136200
2	.299268	.096128	.206018	.207802
3	.358197	.142174	.335511	.253704
4	.282551	.114753	.298918	.176068
5	.170759	.085322	.232102	.100378
6	.130995	.092374	.286330	.100338
7-8	.113183	.078366	.284134	.100561
9-11	.077345	.062490	.230527	.061420
12-15	.044541	.039159	.179725	.033908
16-20	.029117	.027971	.170870	.021071
21-27	.020219	.017740	.110022	.017295
28-36	.012346	.011241	.080251	.009388
37-47	.008141	.007092	.059423	.006091
48-60	.005263	.004629	.045615	.003522

RUN NO. 66E 16M 05-09-62 2248-0004 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.92054 10E-01	0.47143 10E-01	0.40191 10E-01	0.27329 10E-01	0.23299 10E-01	0.11816 10E-01
0	.188754	-.408471	.679358	-.133458	.134131	-.405182
1	.032535	-.048982	.197748	-.011316	-.005680	-.031286
2	-.039468	.061775	-.032866	.055916	-.082961	.055209
3	.008822	.064015	-.006308	-.038756	.005179	.040634
4	-.010435	.056078	-.024041	-.047119	.064927	.008947
5	-.056071	.028003	-.038589	.062968	.017710	.043993
6	-.003929	.050637	-.039796	-.010678	.009824	.036003
7	.013243	-.054119	-.023582	-.027365	-.010543	-.055201
8	-.005499	.003106	-.055404	.047506	-.032553	-.035123
9	.058153	.026046	-.068580	.015793	.003924	.039281
10	-.007985	-.060570	-.062594	-.010651	-.014418	-.042499
11	-.033477	-.002168	-.072584	.010340	-.055178	.051956
12	-.085914	.057274	-.101070	.071810	-.041865	.089309
13	-.051887	.073747	-.053126	-.019146	-.013265	.035945
14	-.037164	.063150	-.046121	.036499	-.019554	.043951
15	-.028918	.087241	-.067617	.044838	.023487	.070396
16	.010452	.042545	-.059473	-.039900	.044740	.028671
17	-.034106	-.006064	.008914	.045555	-.042784	-.015537
18	.095584	-.072751	-.030713	-.081671	.040341	-.014281
19	.125467	-.018558	-.011029	-.057433	.050200	.034471
20	.024700	-.076195	.079552	.003188	.000318	-.068336
21	.021460	-.022361	.026292	.006519	-.001998	-.018084
22	-.004337	.029356	.021580	.028755	-.000172	.081133
23	.087829	-.003101	.075655	-.068337	.066134	-.046351
24	-.009022	-.001557	.043800	.018932	.049485	-.010135
25	-.020889	-.046653	.065399	-.028531	-.016931	-.053720
26	-.079962	.010711	.005086	.026524	-.024796	.041822
27	.023358	-.071199	-.015817	-.010112	.016934	-.000364
28	.042656	-.150109	.070779	-.049091	.023121	-.094346
29	.009693	-.000689	.041727	-.058804	-.046679	-.003564
30	.000412	-.018080	-.040961	-.000978	.004506	-.026077

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	.002942	.007281	.005006	.003045	-.001785	.008776
1	.000820	-.011087	.105747	-.040741	-.022436	-.090673
2	.079866	-.064552	.187245	-.198762	.124366	-.207657
3	.138006	-.068323	.215103	-.304301	.227262	-.189527
4	.004555	-.019330	.144189	-.097634	.025224	-.043056
5	-.013618	-.054486	.128724	.025881	-.161635	-.094384
6	.160528	-.156830	.140162	-.117181	-.147394	-.267451
7	.202072	-.159146	.139968	-.154715	-.007323	-.338548
8	.110304	-.089896	.144178	-.001995	.065292	-.295528
9-11	.028140	-.107378	.131461	-.081846	.102889	-.200472
12-14	.093364	-.083090	.121569	-.153468	.390067	-.211247
15-21	.119323	-.082606	.112553	-.404629	.288526	-.233030
22-30	.036365	-.089095	.075327	-.023751	.056862	-.235686

RUN NO. 66E 16M 05-09-62 2248-0004 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
	0.92954 10E-01	0.47143 10E-01	0.40191 10E-01	0.27329 10E-01	0.23299 10E-01	0.11816 10E-01
1	.010168	.089394	.038873	.035413	.024502	-.128486
2	.021841	-.011865	.069617	-.030192	-.032152	-.087358
3	.019303	.010647	.061708	-.034910	-.033067	-.028261
4	.020383	.022718	.072935	.020226	.029180	-.039366
5	.058040	-.035647	.036341	.022256	-.032536	.021593
6	.024352	-.042502	.022082	.022518	-.024273	.043670
7	.027014	-.001575	.055891	.076657	-.050997	.025305
8	-.005839	-.005033	.028138	-.010759	-.011509	.011876
9	-.059915	-.023989	.038737	.023069	.038991	.037475
10	-.036685	.008372	.010701	.010660	.026456	.002980
11	-.011715	-.033242	.040682	-.038060	-.007247	-.021458
12	.019743	-.046951	.058587	.040094	-.033327	-.012468
13	.007741	.039101	-.029797	.024039	.018147	-.017526
14	-.054106	.062346	-.053865	.011732	-.023823	-.031011
15	-.006409	-.030106	-.001124	-.070598	-.017964	.034440
16	.058460	-.003773	-.015910	.052794	-.040488	.082907
17	-.008776	.011099	-.078049	.036723	-.041432	.007715
18	.036506	-.043656	-.029100	-.006920	-.004323	.031235
19	.090803	.015359	-.030668	-.024825	-.095933	.016188
20	-.000267	.068532	-.044693	-.014600	.018634	-.004676
21	-.037270	.044605	-.031567	.005929	.042505	-.003899
22	.051437	-.046425	.052511	-.090200	.033803	-.010757
23	-.006222	-.015602	.006994	-.011114	.001712	.000167
24	-.065913	.018074	.004491	.003821	.046697	-.023762
25	.008862	.001066	-.046044	-.018649	-.023666	.007190
26	-.078608	.022868	-.072573	-.071553	.027794	-.007100
27	-.034029	.045362	-.015858	-.046004	.020119	-.046237
28	.067161	-.019698	.006215	.033820	-.022606	.023828
29	-.020750	-.040189	.032834	.022479	-.000831	-.010980
30	-.050663	.015335	.035640	.013369	.037143	-.052034

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	.040059	-.171128	.549475	.227269	-.202870	.057588
2	.016981	-.248675	.931885	.233749	-.092286	-.020194
3	.065261	-.112579	.902753	.081683	-.065188	-.071974
4	.145790	.140475	.341406	.010380	-.202511	-.069079
5	.084163	.278981	.194486	-.059667	-.115078	-.162303
6	.005615	.346482	.449519	-.211676	.107432	-.287220
7	-.012723	.266747	.385796	-.210275	.064742	-.249539
8	-.058579	.151302	.252702	-.141104	.040485	-.131295
9-11	-.005793	.347025	.090637	.047143	-.063336	-.138206
12-14	.014353	.040151	-.040434	.048975	.000235	-.072374
15-21	.000769	.470151	.067507	.232157	.162585	-.094352
22-30	.001040	.190627	-.090621	-.009269	-.037927	.009786

RUN NO. 66E 16M 05-09-62 2248-0004 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.16034 10E 00	.53887 10E-01	0.13860 10E-01	0.10074 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.325839	-.011642	-.04707	.228471
2	.002655	-.049162	-.06071	-.079450
3	-.008181	-.026971	-.000010	-.087345
4	-.078639	.039034	.075715	-.060462
5	-.066734	-.148538	-.138885	-.068664
6	-.025326	-.041151	-.122483	-.047405
7	-.030368	-.035378	.056545	-.000027
8	-.138547	-.057320	.055603	-.010429
9	-.078659	-.019098	-.163142	-.049238
10	-.077425	-.011167	.046527	-.104453
11	-.166372	-.086411	-.040051	-.103546
12	-.155877	-.050637	.006912	-.081546
13	-.130885	-.117579	-.090682	-.042485
14	-.121559	-.008502	-.135953	-.062781
15	-.104200	-.046113	-.064633	-.058998
16	-.043212	.091414	.020708	-.061408
17	.028429	-.050499	-.058916	.052558
18	.036365	.094151	.015750	-.046850
19	.062965	.066688	.012295	-.072335
20	.076432	.040721	.122626	.025625
21	.052156	-.016464	-.073867	.047621
22	.071765	-.054294	-.026705	.037737
23	.058951	.045134	.062989	.092808
24	.017772	-.033802	-.027676	.075670
25	.081453	-.026122	-.016851	.047398
26	.053558	-.049822	-.018893	-.070950
27	.051208	.034341	.054180	-.060176
28	.106539	.072571	.083754	.085490
29	.049100	.110402	-.025494	.050059
30	-.058664	.017804	-.003066	.003002

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-03	10E-03
0	.003406	.009294	.012762	.018156
1	.063056	.097930	.317776	.316592
2	.119014	.169693	.483740	.510636
3	.145522	.258336	.533141	.583634
4	.091377	.218549	.398245	.441459
5	.068090	.160191	.445741	.440542
6	.091166	.219799	.638782	.490938
7	.100260	.253706	.597225	.579528
8	.087576	.194653	.417153	.657261
9-11	.080235	.159204	.427198	.527028
12-14	.063758	.217017	.374487	.453386
15-21	.059166	.294529	.806300	.416213
22-30	.042002	.305514	.877180	.337579

RUN NO. 66E 40M 05-09-62 2248-0004 EST

GROSS STATISTICS

CLEAR WIND SPEED 6.29 M/SEC WIND DIRECTION 273 DEG  
 STABLE SIGMA A 5.0 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
<b>VARIANCES</b>				
U	0.61736E 00	0.33228E-00	0.30713E-00	0.16435E-00
V	0.29725E-00	0.22062E-00	0.21173E-00	0.63375E-01
W	0.10191E-00	0.98824E-01	0.98361E-01	0.22861E-01
T	0.14756E-00	0.18813E-01	0.16102E-01	0.97125E-02
E	0.50826E 00	0.32587E-00	0.30861E-00	

<b>GUSTINESS RATIOS</b>				
U	0.12492	0.09164	0.08811	0.06445
V	0.08668	0.07467	0.07315	0.04002
W	0.05075	0.04998	0.04986	0.02404

<b>COVARIANCES</b>				
U,V	0.44070E-01	0.37384E-01	0.35502E-01	0.11149E-01
U,W	-0.84714E-01	-0.80642E-01	-0.77803E-01	-0.34542E-01
U,T	-0.10055E-00	0.48500E-01	0.40865E-01	0.28944E-01
V,W	-0.19940E-01	-0.16328E-01	-0.16646E-01	-0.25484E-02
V,T	0.49190E-01	0.12564E-01	0.12387E-01	0.30971E-02
W,T	-0.21356E-01	-0.18724E-01	-0.17696E-01	-0.71798E-02
WE	-0.10317E-01	0.67590E-02	0.32319E-02	

<b>NORMALIZED COVARIANCES</b>				
U,V	0.10288	0.13808	0.13922	0.10924
U,W	-0.33773	-0.44502	-0.44764	-0.56353
U,T	-0.33315	0.61342	0.58109	0.72447
V,W	-0.11456	-0.11058	-0.11535	-0.06695
V,T	0.23487	0.19501	0.21214	0.12483
W,T	-0.17415	-0.43425	-0.44467	-0.48184

RUN NO. 66E 40M 05-09-62 2248-0004 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25500 10E 00	0.17383 10E 00	0.70342 10E-01	0.14429 10E 00	0.58388 10E-01	0.39803 10E-01
0	.139226	-.447650	.581185	-.115391	.212049	-.444696
1	.121652	-.352920	.526788	-.059934	.165928	-.337003
2	.077851	-.229617	.416857	-.006371	.091710	-.190949
3	.028095	-.137061	.308736	.029003	.031279	-.099730
4	-.014999	-.074578	.214149	.036942	-.019451	-.046319
5	-.034601	-.025418	.132914	.018632	-.051964	-.005961
6	-.042532	.004283	.074407	.005168	-.068994	.015627
7	-.041008	.014252	.036297	-.007174	-.072521	.021645
8	-.039133	.017608	.009770	-.008953	-.064367	.019205
9	-.029171	.018072	-.013121	-.022190	-.047334	.017813
10	-.017746	.017556	-.038814	-.011931	-.030203	.022461
11	-.018610	.027501	-.064165	-.001765	-.024752	.027558
12	-.018983	.044986	-.089385	.008594	-.027462	.034222
13	-.019276	.059652	-.115391	.006213	-.026396	.047304
14	-.020420	.065857	-.136278	-.003569	-.018064	.056019
15	-.023442	.082876	-.150979	.013039	-.015750	.063613
16	-.024857	.096884	-.156845	.035835	-.010207	.064340
17	-.016818	.094586	-.152390	.033015	-.004942	.067430
18	-.003616	.094765	-.148154	.027539	-.004191	.067908
19	.013636	.083631	-.140589	.013026	.005114	.066006
20	.028076	.064595	-.127104	-.005205	.020062	.057504
21	.028454	.055363	-.121137	-.014926	.029715	.047302
22	.021607	.055863	-.117866	-.015622	.029208	.046007
23	.013602	.052806	-.111478	-.000890	.015102	.050139
24	.001739	.048012	-.104345	.007282	.007960	.047844
25	-.005569	.053195	-.101721	.005265	.003556	.036436
26	-.008841	.062606	-.098799	.014274	-.001358	.031033
27	-.014891	.067035	-.092207	.024832	-.011644	.039635
28	-.018816	.067122	-.089308	.017597	-.017095	.050158
29	-.019052	.061107	-.083492	-.001172	-.016347	.055210
30	-.015631	.046224	-.072050	-.009543	-.013184	.051018
31	-.014933	.017954	-.050789	-.007833	-.012641	.036929
32	-.013758	.000750	-.024803	-.011322	-.006560	.019833
33	-.005599	-.007972	-.009972	-.013806	.005727	.005186
34	.004277	-.015125	-.002027	-.014427	.016270	.001905
35	.010643	-.015723	.000891	-.020267	.022476	.000780
36	.015058	-.018795	.003013	-.024542	.024226	-.005484
37	.013915	-.018311	.005865	-.016306	.018753	-.002689
38	.009950	-.027351	.010438	-.009446	.007416	-.000767
39	.012024	-.029783	.014145	-.003298	.000715	-.006939
40	.018732	-.035113	.016804	-.009604	.005131	-.015544
41	.027413	-.038901	.015856	-.024481	.015708	-.030237
42	.031727	-.048464	.011024	-.024776	.023264	-.044417
43	.038364	-.047326	.010843	-.031261	.028189	-.050478
44	.037857	-.030714	.016166	-.029735	.023029	-.038804
45	.034815	-.022832	.021322	-.015784	.014618	-.023991
46	.032415	-.013118	.023574	-.004465	.009118	-.014750
47	.020918	-.003649	.022224	.006188	.004027	.000691
48	.025121	.008334	.018714	.013764	.002230	.013636
49	.005730	.012380	.013067	.008273	-.004541	.013564
50	-.001707	.011668	.009514	.001918	-.019662	.014453
51	-.009790	-.000257	.009521	.003999	-.031468	.002758
52	-.030482	-.009461	.015117	.010701	-.036203	-.016900
53	-.045899	-.015806	.020048	.023945	-.035357	-.032202
54	-.049219	-.014822	.021069	.035733	-.033129	-.027426
55	-.047615	-.007888	.020094	.032021	-.024558	-.015833
56	-.044883	.000691	.021081	.031696	-.013443	-.011384
57	-.038066	.008337	.025713	.030819	-.006011	-.005304
58	-.030910	.018987	.026679	.031479	-.008237	.007347
59	-.038091	.030672	.020560	.035317	-.006818	.015220
60	-.039640	.025769	.021476	.036245	-.005498	.005565



RUN NO. 66E 40M 05-09-62 2248-0004 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25500 10E 00	0.17383 10E 00	0.70342 10E-01	0.14429 10E 00	0.58388 10E-01	0.39803 10E-01
1	-.004000	.002609	.045229	-.014697	.028687	-.077429
2	-.012707	.011927	.065021	-.032118	.040507	-.089092
3	-.016039	.017283	.064629	-.047943	.046585	-.068705
4	-.012411	.009423	.057320	-.048722	.044913	-.044683
5	-.015057	.001916	.049001	-.048344	.037718	-.030553
6	-.025939	-.010790	.038516	-.035062	.031458	-.030341
7	-.045922	-.011331	.026594	-.041403	.035138	-.033861
8	-.059183	-.004975	.017896	-.043318	.044666	-.031676
9	-.056976	-.000795	.015764	-.024272	.049314	-.030926
10	-.049523	.004721	.014664	.000584	.043349	-.036318
11	-.037921	.017525	.012826	.006588	.025902	-.037244
12	-.026320	.024534	.008601	.001123	.008323	-.031701
13	-.019223	.026350	-.001371	-.002086	.003948	-.013556
14	-.007454	.017252	-.008244	-.007435	.004802	.000050
15	.000493	.009898	-.011235	-.021206	.005016	.002250
16	.003769	.004877	-.013554	-.033757	.005944	.010756
17	.003376	-.003728	-.010362	-.027997	.003429	.012702
18	.003733	-.020308	-.004188	-.015751	-.007299	.014645
19	.005705	-.036003	-.003417	-.016053	-.014490	.023319
20	.008660	-.049376	-.004384	-.015804	-.018251	.035263
21	.012813	-.051635	.000189	-.003034	-.017988	.033283
22	.017088	-.052731	.005387	.017958	-.018488	.022029
23	.014606	-.040312	.005282	.020878	-.013209	.017547
24	.002188	-.020572	.000964	.021677	-.007112	.018025
25	.000051	-.007517	-.006086	.007191	-.002666	.022055
26	.011621	-.002376	-.006887	.000505	-.006017	.030203
27	.023241	.003658	-.003783	.021244	-.015673	.026557
28	.027711	.007864	.000424	.037897	-.022243	.015725
29	.027380	.008588	.001868	.043532	-.028194	.013440
30	.022661	.010737	.003501	.041603	-.032010	.017409
31	.028570	.007479	.007508	.032361	-.032360	.011101
32	.036766	.009235	.013512	.026288	-.027389	-.007817
33	.038548	.019759	.017210	.027398	-.021477	-.022586
34	.039802	.027519	.019489	.027901	-.020564	-.030614
35	.033907	.030793	.017042	.023240	-.023042	-.037717
36	.024190	.026605	.011648	.026090	-.025611	-.042217
37	.013556	.022649	.008762	.026049	-.014717	-.046401
38	-.004849	.017861	.000756	.019969	-.003621	-.036939
39	-.020273	.019637	-.004710	.013551	.002844	-.026886
40	-.031922	.020930	-.007010	-.007307	.012254	-.001905
41	-.045010	.014566	-.007568	-.037964	.028299	.023090
42	-.046705	.006423	-.001387	-.060888	.036709	.024512
43	-.035123	.003523	.004348	-.053255	.037433	.011894
44	-.034104	.003927	.008160	-.045197	.041727	.001767
45	-.037346	.001760	.009550	-.045015	.042031	.001983
46	-.036895	.000727	.008096	-.039800	.035732	-.005129
47	-.030755	.003830	.001986	-.022744	.028050	-.008984
48	-.019140	.003520	-.001406	-.011914	.024640	-.008895
49	-.004591	-.004774	.001885	-.008282	.020981	-.010410
50	.012025	-.017160	.004577	-.010091	.016854	-.003485
51	.022682	-.023828	.005791	-.016282	.017120	-.001086
52	.019642	-.024571	.004439	-.008455	.013269	.004589
53	.006236	-.027192	-.001249	.000119	.003636	.008362
54	-.016848	-.021232	-.012330	.004773	-.002804	.013099
55	-.023916	-.014901	-.025868	.006661	-.004124	.019976
56	-.020148	-.015617	-.033172	.009241	.001206	.024006
57	-.008646	-.013788	-.031687	.012137	.000942	.019830
58	.005763	-.009030	-.030252	.024639	-.008979	.015309
59	.014694	.006123	-.025457	.031110	-.018374	.010806
60	.022358	.006546	-.018742	.028630	-.020812	.011954

RUN NO. 66E 40M 05-09-62 2248-0004 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.30721 10E 00	0.21167 10E 00	0.98364 10E-01	0.16106 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.806265	.649402	.538969	.822551
2	.569011	.297337	.188455	.564298
3	.381538	.115504	.042800	.374347
4	.242763	.012991	-.003010	.245784
5	-.138277	-.039252	-.058847	.150830
6	.069822	-.068296	-.073164	.077365
7	.029137	-.075920	-.073726	.020451
8	.000741	-.080463	-.072109	-.017453
9	-.025408	-.079920	-.050507	-.037570
10	-.053701	-.063221	-.037038	-.058561
11	-.084220	-.053872	-.042246	-.082999
12	-.124386	-.062200	-.051810	-.111543
13	-.165033	-.068435	-.062218	-.134559
14	-.136346	-.061610	-.048618	-.146505
15	-.208530	-.052116	-.053885	-.155204
16	-.223895	-.059658	-.083812	-.166358
17	-.221627	-.089186	-.099586	-.181301
18	-.220080	-.103347	-.094014	-.193780
19	-.213807	-.102974	-.096885	-.190970
20	-.193021	-.091804	-.086165	-.182629
21	-.173932	-.072886	-.079260	-.176489
22	-.157849	-.064573	-.067455	-.175962
23	-.152192	-.058661	-.057751	-.176155
24	-.157706	-.073848	-.033491	-.170706
25	-.170575	-.091209	-.036271	-.160976
26	-.183130	-.098559	-.038739	-.148787
27	-.178637	-.100846	-.052181	-.141677
28	-.157081	-.096273	-.059534	-.141476
29	-.127423	-.087779	-.067228	-.138309
30	-.095235	-.084946	-.049834	-.116888
31	-.048192	-.056596	-.012195	-.081207
32	-.018737	-.023542	.011768	-.053645
33	.005419	-.006243	.012495	-.033276
34	.026068	.007856	.035338	-.024502
35	.039882	.017715	.048439	-.019934
36	.051433	.026954	.044527	-.014799
37	.053858	.019208	.033900	-.012434
38	.052014	.009902	.031875	-.011514
39	.043462	.013426	.016480	-.006294
40	.042459	.020815	.005078	.001926
41	.040504	.036036	.015267	.014140
42	.040765	.050122	.050404	.030986
43	.051885	.058883	.058328	.044268
44	.051416	.059491	.032637	.045908
45	.053028	.051264	.017673	.034411
46	.057772	.032851	.005032	.026070
47	.064622	.012712	-.013971	.020230
48	.070692	.008295	-.021537	.014134
49	.057520	.003939	-.019560	.014753
50	.040982	-.008870	-.012403	.018852
51	.029100	-.019093	-.001338	.029536
52	.020404	-.011021	.023255	.047619
53	.006509	-.023870	.027045	.062884
54	-.003025	-.023155	.023815	.056005
55	.001473	.003787	.008815	.047341
56	.005724	.026743	-.000574	.050818
57	.004619	.032942	-.011343	.053802
58	.000073	.024395	-.033868	.049615
59	-.005326	.029509	-.026069	.045249
60	-.003448	.029629	-.012317	.043573

RUN NO. 66E 40M 05-09-62 2248-0004 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-02	10E-02
0	.015240	-.031948	.030793	-.074444	.002220	-.005744
1	.009954	-.430354	.396162	.059100	.000352	-.090199
2	.094860	-.746384	.588398	-.266003	.014080	-.148022
3	.219891	-.987530	.705422	-.957432	.052123	-.182913
4	.219915	-.737077	.538434	-.576510	.075245	-.139943
5	.376641	-.517357	.363158	-.177118	.110292	-.113119
6	.464712	-.492886	.279446	-.277757	.138727	-.107744
7-8	.261448	-.355536	.184008	-.052484	.101146	-.083254
9-11	.272685	-.384335	.144807	-.940841	.091524	-.086865
12-15	.145737	-.213486	.080368	-.850935	.046062	-.056084
16-20	.059302	-.111239	.027178	-.853365	.016475	-.031585
21-27	.013102	-.075137	.014465	-.412765	.013364	-.021862
28-36	-.003691	-.050094	.008971	-.119737	.006721	-.014363
37-47	.001297	-.019781	.001878	-.136930	.003702	-.006308
48-60	-.000248	-.018194	.000920	-.150868	.001280	-.003243

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	-.011094	-.038901	.375054	-.009346	-.012996	-.052036
2	-.159509	-.066698	.281417	-.098819	.319575	-.117286
3	-.404427	.027732	.444917	-.218575	.902679	-.466887
4	-.291653	.162467	.719653	-.112833	.720387	-.746062
5	-.090283	.073832	.783606	-.012413	.402942	-.495878
6	-.144634	-.085611	.659296	-.099353	.503448	-.159393
7-8	.054169	-.093917	.579430	-.111829	.156128	-.217705
9-11	.083503	.087466	.304766	-.057536	.109250	-.195889
12-15	-.003770	.025365	.307350	.014197	.104630	-.255001
16-20	-.042246	-.005179	.084047	-.020438	.133052	-.170728
21-27	.006310	-.008755	.086042	.017899	-.021965	-.133506
28-36	.008545	-.002288	.029463	-.001631	.023174	-.037288
37-47	.005157	-.005259	.003924	.004822	.013579	-.019616
48-60	-.002416	.004038	.000730	-.005829	.006627	-.006148

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.015342	.003895	.015060	.008867
1	.214960	.074449	.224192	.131860
2	.356914	.125494	.417304	.193585
3	.449651	.155964	.605107	.219217
4	.328598	.119394	.514760	.160742
5	.215715	.105837	.401140	.114791
6	.186307	.120870	.420970	.099490
7-8	.137368	.110707	.417231	.081527
9-11	.119155	.100240	.444291	.061198
12-15	.074386	.065665	.307910	.037374
16-20	.039274	.048470	.237958	.021783
21-27	.024903	.036019	.204379	.015571
28-36	.016327	.023675	.152225	.007598
37-47	.009395	.015603	.097125	.003911
48-60	.007233	.009095	.079780	.002103

RUN NO. 66E 40M 05-09-62 2248-0004 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
	0.10209 10E-00	0.61284 10E-01	0.39953 10E-01	0.38061 10E-01	0.24813 10E-01	0.14895 10E-01
0	.109204	-.563627	.724457	-.066957	.124818	-.482038
1	-.042492	-.082079	.207553	-.002106	-.099243	-.060772
2	.018466	.021026	.014859	.029691	.008881	.032714
3	-.039209	.012951	-.031575	-.019843	-.018129	.036522
4	.024448	.018777	-.096042	.006161	-.006536	.059759
5	.005180	.064041	-.073640	.048148	-.017570	.022607
6	-.021883	.080946	-.023255	.045590	.017113	.019477
7	.022289	.033522	-.039538	.015324	.046486	.013053
8	.043503	-.046853	-.039638	-.025109	.032714	-.057603
9	.124268	.051401	-.007247	.006838	.082248	.015659
10	-.002553	.038636	-.040959	-.042518	.062343	.048668
11	.044790	.066654	-.031015	-.032226	.046373	.084472
12	-.030693	.074261	-.052878	.017947	-.035900	.079098
13	.022469	.050178	-.022115	.030844	.055671	.047939
14	-.024841	.095056	-.096178	-.031314	-.038951	.024226
15	-.004081	.075264	-.111115	.012773	.007406	.086997
16	.005481	-.028672	-.024585	.008789	.024467	.007153
17	-.047340	.005210	.001290	.045640	-.049354	-.042113
18	.051768	-.082362	.082817	-.025694	-.002145	-.085720
19	.020442	-.032039	.025014	-.015114	.043461	-.020446
20	-.007354	-.062377	-.029314	.017249	-.037989	-.019936
21	-.060077	.054097	-.051195	.075546	-.087504	.030040
22	-.000092	-.029825	.015198	-.039773	-.030875	-.049537
23	-.050904	-.070586	.035643	.037040	-.072266	-.019524
24	-.062827	-.080624	.071937	.022848	-.050183	-.090432
25	-.091156	.064684	-.043332	.027401	-.084771	.031271
26	-.015728	-.050022	.020762	-.015613	.016011	-.030240
27	-.005643	-.104475	.047595	-.079443	-.020992	-.038256
28	.003031	-.016912	-.010628	.027461	.021309	.021490
29	-.029612	.040280	-.048478	-.041929	-.006275	-.002335
30	.047185	.039325	-.030171	-.013398	.023023	.006133

CGSPECTRUM

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	.046378	.004326	.014588	.072974	.085800	.002131
1	.141647	-.061487	.125610	.087021	.274700	-.119847
2	-.018699	-.177836	.165531	.039527	-.168275	-.327653
3	-.095703	-.236466	.189130	.069555	-.427463	-.423843
4	-.070189	-.147443	.156715	-.136656	-.240495	-.207523
5	-.012045	-.121705	.162628	-.320762	-.056683	-.139800
6	.110259	-.202934	.204765	-.013768	.184426	-.358582
7	.123023	-.237305	.205985	-.304042	.260648	-.543949
8	.039862	-.163965	.147972	-.017160	.078516	-.470089
9-11	-.025669	-.112755	.146300	.133604	-.028504	-.317413
12-14	.093640	-.134504	.101247	-.114908	.078643	-.324523
15-21	.025132	-.152583	.099248	-.264676	.170759	-.280136
22-30	.135499	-.161796	.096164	-.075746	.489290	-.348085

RUN NO. 66E 40M 05-09-62 2248-0004 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
	0.10209 10E 00	0.61284 10E-01	0.39953 10E-01	0.38061 10E-01	0.24813 10E-01	0.14895 10E-01
1	-.004603	.062954	.021978	-.038192	.032298	-.081174
2	.006590	-.084321	.022168	-.024893	-.011931	.062710
3	.076729	.003977	.061587	.079113	-.054601	-.017382
4	-.031394	.035522	.046160	-.020009	.004554	-.062569
5	-.018231	-.004039	.021702	-.069338	.019305	.012368
6	.027568	-.010375	.012318	.018628	-.026020	.005956
7	.039050	.059285	-.000258	.031695	-.077758	-.040900
8	-.003984	-.030954	.048565	-.031840	-.008960	-.017335
9	.004176	-.032365	.007616	-.060630	-.019568	.017089
10	.020120	-.007563	.016900	.004078	.030621	.007843
11	-.008367	-.009465	.004984	.043074	.060020	-.006988
12	-.015628	-.022714	-.006951	.019171	.040555	.004693
13	.010856	-.005763	-.031969	-.014261	-.042664	.025543
14	.038710	-.000220	-.025020	-.008338	-.059268	.002534
15	.040015	-.068922	.006274	-.035321	-.067669	.067049
16	-.017080	-.036649	.008957	.052207	.009986	.041912
17	-.027973	.009167	.006336	-.046088	.048611	-.003714
18	-.001230	-.014482	-.004220	.009388	-.036720	.016776
19	-.046574	.077111	-.011138	-.044545	.000471	-.040767
20	-.095808	.016013	.014833	-.069566	.054847	-.027926
21	-.064296	.022877	.038143	-.028672	.072436	-.047710
22	.025098	.048762	-.024622	.031130	.004665	-.020788
23	-.048454	-.024222	-.055722	.002720	.064486	.050920
24	.001309	-.062629	-.013129	.029571	-.007150	.037836
25	.016870	-.013740	.020559	-.045130	-.012910	.011749
26	.049354	-.014390	.018184	-.000903	-.016946	-.029671
27	.033802	-.016843	-.039415	.047458	-.038202	.041237
28	.053448	-.005739	-.012436	.082795	-.049186	-.002215
29	.019943	.053844	.009775	.011504	-.003505	-.032757
30	-.023354	.007534	.012322	.025870	.016253	-.011943

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	.272938	-.411894	.345165	-.261253	-.135890	.025215
2	.847004	-.172072	.420120	-.047849	-.176607	-.046873
3	.331832	.267041	.495530	-.074966	-.085368	-.136034
4	-.120092	.332051	.421725	-.142018	-.121197	-.094381
5	.624350	-.225358	.187094	.093019	-.194750	.044751
6	.196838	-.176453	.087804	.162906	.119818	.003342
7	-.344483	-.035820	.241308	.032084	.302887	-.062788
8	.311795	-.493919	.272399	.009004	.089495	.039471
9-11	.509524	-.052752	-.036586	-.026811	-.207181	-.011512
12-14	-.086398	.015318	-.138284	-.204263	.167080	.030595
15-21	-.671176	.704882	.028886	-.277484	.142109	-.192273
22-30	.671474	.524847	.073723	.186542	-.033839	-.101199

RUN NO. 66E 40M 05-09-62 2248-0004 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16439 10E 00	0.63405 10E-01	0.22847 10E-01	0.97103 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.232774	.017151	-.045966	.260689
2	-.002946	-.026554	-.072800	-.022049
3	-.032495	-.102460	-.020154	-.070103
4	-.058949	.056303	-.010940	-.112278
5	-.095042	-.004530	-.087045	-.018354
6	-.080086	.001973	-.054591	.003476
7	-.067291	.002916	.002144	-.047269
8	-.059714	-.047677	.071298	-.097823
9	-.008579	-.043798	-.066823	-.057309
10	-.054398	-.038640	.002322	-.058062
11	-.046460	-.005096	-.105776	-.042000
12	-.062117	-.076271	-.098422	-.068567
13	-.026170	-.068978	-.054681	-.019697
14	-.138868	-.047223	-.088057	-.125763
15	-.120186	-.004831	-.074817	-.091917
16	.001146	-.028280	.052866	.004939
17	-.043674	.015224	.005992	.027935
18	.093970	.015570	.051806	.034763
19	.021971	.040615	-.012144	-.006946
20	-.031639	.017184	.053297	-.017231
21	-.090149	.024229	-.030851	-.030141
22	.036996	.018297	.047161	.028466
23	.093779	-.026605	.014577	.010433
24	.127368	.013803	.094910	.033457
25	-.016230	-.002140	-.030042	-.033734
26	.025500	.150130	.020209	.040999
27	.095555	-.080494	.055998	-.003141
28	.000080	-.073750	.036944	.010646
29	-.064500	-.126346	-.034860	-.025944
30	-.066014	-.021537	.026060	-.049378

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-03
0	.007235	.051125	.003061	.050556
1	.064504	.235971	.042378	.410240
2	.090542	.243853	.075883	.520860
3	.104003	.276187	.090970	.611303
4	.087843	.196614	.056519	.516730
5	.091689	.157169	.048908	.466011
6	.103940	.203630	.085690	.525550
7	.101674	.238870	.116823	.557484
8	.071747	.229633	.102057	.490251
9-11	.070022	.286466	.071613	.576446
12-14	.065572	.293338	.088430	.399061
15-21	.063124	.270618	.119504	.328873
22-30	.061767	.379146	.145879	.338924

RUN NO. 66E 16M 05-09-62 2248-0004 EST  
 RUN NO. 66E 40M 05-09-62 2248-0004 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	.119208	.016496	.041961	.070028
1	.186987	.348220	.134672	.434526
2	.156320	.305065	.133054	.401947
3	.184742	.336807	.217319	.323846
4	.204962	.369400	.275897	.253921
5	.119941	.346785	.321621	.324002
6	.061665	.334767	.378924	.362508
7-8	.140316	.293526	.266729	.251214
9-11	.036433	.184883	.323459	.169236
12-15	.060579	.145805	.185596	.149527
16-20	.120289	.162213	.078583	.103630
21-27	.089751	.105692	.070752	.126250
28-36	.077493	.115588	.119607	.085150
37-47	.114898	.106734	.080890	.112603
48-60	.083714	.103402	.096495	.095046

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	.507143	.566832	.106664	.050547
1	.630553	.200046	.231426	.510000
2	.541932	.324768	.280807	.352640
3	.396494	.428069	.276231	.161172
4	.193280	.347897	.209962	.167731
5	.341034	.273454	.271941	.460534
6	.463398	.264551	.028556	.416377
7	.394080	.256394	.142632	.399666
8	.150181	.217780	.039630	.484833
9-11	.165077	.424661	.252774	.490506
12-14	.167368	.320124	.068801	.360340
15-21	.357081	.419610	.290080	.315779
22-30	.231454	.291679	.347338	.249736

RUN NO. 66F 16M 09-10-62 0018-0134 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.14 M/SEC	WIND DIRECTION	271 DEG
STABLE	SIGMA A	6.7 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.7 DEG	NET RADIATION	-0.17

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.63628E 00	0.57097E 00	0.46484E-00	0.33700E-00
V	0.35372E-00	0.26830E-00	0.24677E-00	0.96172E-01
W	0.11270E-00	0.11123E-00	0.10640E-00	0.29894E-01
T	0.36048E-01	0.32039E-01	0.26872E-01	0.17426E-01
E	0.55136E 00	0.47528E-00	0.40901E-00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>GUSTINESS RATIOS</b>				
U	0.15519	0.14701	0.13264	0.11294
V	0.11571	0.10077	0.09665	0.06033
W	0.06531	0.06488	0.06346	0.03364

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>COVARIANCES</b>				
U,V	0.91411E-01	0.31104E-01	0.32949E-01	0.17733E-01
U,W	-0.95837E-01	-0.93643E-01	-0.86255E-01	-0.45580E-01
U,T	0.77597E-01	0.85587E-01	0.66176E-01	0.57556E-01
V,W	-0.86506E-02	-0.98943E-02	-0.10499E-01	-0.38578E-02
V,T	-0.52188E-02	0.73444E-02	0.85479E-02	0.39252E-02
W,T	-0.25884E-01	-0.25001E-01	-0.23598E-01	-0.12104E-01
WE	-0.23588E-01	-0.20776E-01	-0.16039E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>NORMALIZED COVARIANCES</b>				
U,V	0.19268	0.07947	0.09728	0.09850
U,W	-0.35788	-0.37159	-0.38784	-0.45412
U,T	0.51236	0.63279	0.59210	0.75106
V,W	-0.04332	-0.05728	-0.06480	-0.07195
V,T	-0.04622	0.07921	0.10522	0.09588
W,T	-0.40609	-0.41880	-0.44131	-0.53031



RUN NO. 66F 16M 05-10-62 0018-0134 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.33867 10E 00	0.22239 10E 00	0.11176 10E 00	0.16203 10E 00	0.81429 10E-01	0.53470 10E-01
0	.097307	-.387933	.592020	-.064913	.105102	-.441444
1	.092777	-.315927	.540421	-.042157	.090760	-.350443
2	.078438	-.211880	.440142	-.020283	.061526	-.233364
3	.053379	-.126321	.336281	-.008404	.035085	-.140578
4	.027225	-.066082	.252666	.000572	.016013	-.074887
5	.008941	-.032229	.185351	.010669	.003880	-.041782
6	-.002209	-.010795	.125859	.010302	-.002166	-.022987
7	-.017573	.006092	.069657	.016285	-.007066	.002812
8	-.023854	.025769	.015743	.016102	-.007385	.028557
9	-.024119	.035171	-.030119	.016485	-.010133	.051339
10	-.022576	.050659	-.063747	.017152	-.005031	.058334
11	-.022869	.058897	-.081398	.013793	-.003517	.062680
12	-.024317	.050584	-.091700	.008038	-.006149	.059886
13	-.025171	.049565	-.107833	.005453	-.012741	.067103
14	-.024396	.050712	-.130714	-.000435	-.012306	.083860
15	-.020366	.064512	-.154295	-.002442	-.011145	.093201
16	-.018814	.074757	-.165898	-.004492	-.012217	.099768
17	-.021701	.077391	-.172517	-.008341	-.010839	.092926
18	-.021937	.077887	-.172087	-.015519	-.010868	.082704
19	-.026634	.078598	-.171607	-.007881	-.020857	.072116
20	-.035387	.087624	-.174507	.009939	-.034354	.065092
21	-.043699	.081485	-.177677	.026218	-.044717	.064968
22	-.044673	.089650	-.181494	.041200	-.056870	.074632
23	-.034970	.093682	-.182108	.033555	-.053766	.086177
24	-.017140	.085315	-.175543	.016601	-.045658	.093133
25	.003104	.072059	-.158934	.002317	-.029220	.087392
26	.014464	.063608	-.140764	-.001990	-.010525	.081589
27	.022179	.055678	-.126566	-.000902	.003470	.084288
28	.026206	.045763	-.110621	.004281	.010341	.077553
29	.032334	.030217	-.092156	.004718	.017066	.055330
30	.031597	.015651	-.074024	-.001258	.022175	.031482
31	.030119	.004761	-.052109	-.017000	.027559	-.000107
32	.028921	-.012349	-.029861	-.028602	.027931	-.024784
33	.022781	-.028632	-.012097	-.023452	.020213	-.037751
34	.008845	-.038982	.002370	-.012421	.006682	-.052005
35	-.001087	-.053980	.020234	.001700	.000120	-.060644
36	-.005789	-.059008	.036015	.014641	-.001306	-.059591
37	-.002601	-.052772	.050673	.012773	-.003182	-.052080
38	.000151	-.046793	.058901	.004190	-.008030	-.043107
39	.003037	-.041129	.058706	-.006618	-.003592	-.041635
40	.005795	-.045801	.057086	-.012647	.001346	-.043432
41	.012031	-.050008	.058975	-.010975	.004280	-.054037
42	.011497	-.047177	.060767	-.019045	.001605	-.060632
43	.004740	-.043281	.066792	-.022129	-.004343	-.063357
44	-.000559	-.035560	.069320	-.012769	-.008968	-.063622
45	-.004671	-.030910	.066762	-.007872	-.007574	-.048105
46	.000576	-.034414	.060930	.004318	-.004558	-.029035
47	.001462	-.031928	.057494	.009250	.003406	-.023149
48	-.005993	-.024626	.054456	.003640	.009678	-.024620
49	-.007752	-.019102	.047700	-.013126	.016554	-.031234
50	-.012528	-.014222	.040198	-.022680	.018115	-.038267
51	-.016600	-.020781	.032799	-.014510	.010933	-.042218
52	-.013019	-.023560	.027406	-.015571	.005180	-.036374
53	-.003577	-.013243	.022225	-.014040	.002499	-.019784
54	-.001671	.005129	.017064	-.007428	.002934	-.003730
55	-.001146	.021136	.019010	-.001298	-.002028	.005367
56	-.009372	.031382	.020473	.004274	-.007996	.017124
57	-.004503	.025481	.017237	.010731	-.014367	.032354
58	.006570	.025445	.012078	.020014	-.011899	.043309
59	.009444	.027035	.009040	.024588	-.006650	.046836
60	.010101	.029816	.002981	.028647	-.003901	.047253

RUN NO. 66F 16M 05-10-62 0018-0134 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.33867 10E 00	0.22239 10E 00	0.11176 10E 00	0.16203 10E 00	0.81429 10E-01	0.53470 10E-01
1	.014268	-.023267	.042004	.015830	-.007120	-.048539
2	.014735	-.026959	.061646	.001666	-.014393	-.063758
3	.022274	-.021548	.069469	-.003070	-.021233	-.068029
4	.032113	-.018491	.074802	.007001	-.029954	-.066867
5	.044488	-.015862	.076438	.020871	-.044130	-.060903
6	.056360	-.018980	.075010	.021402	-.061064	-.046204
7	.061294	-.026791	.069588	.023881	-.070844	-.029237
8	.062719	-.028525	.059784	.018582	-.068400	-.020454
9	.061374	-.035162	.057006	.013487	-.062966	-.017537
10	.058317	-.032274	.054335	.010517	-.050925	-.006289
11	.059200	-.028169	.043714	.013722	-.037822	.010003
12	.056094	-.016716	.035632	.004312	-.032151	.014119
13	.041713	-.003642	.030018	.001711	-.029577	.004588
14	.035483	.004352	.024738	.010870	-.030965	-.010293
15	.037258	.009244	.019077	.022895	-.030846	-.024317
16	.035995	.012906	.013758	.026508	-.032158	-.025769
17	.033852	.009449	.013022	.031800	-.032393	-.025462
18	.031177	.008641	.013967	.033053	-.034926	-.028628
19	.023974	.020258	.011352	.031783	-.035982	-.031707
20	.014437	.022530	.006285	.037968	-.024866	-.026206
21	-.001226	.022207	.000398	.048898	-.016370	-.016284
22	-.013770	.023916	-.000942	.047310	-.013954	-.006776
23	-.017573	.015513	-.001384	.028817	-.011278	-.007605
24	-.013837	.006005	-.006672	.010736	-.007906	-.001116
25	-.013891	.012877	-.017578	-.010198	-.002463	.006669
26	-.019021	.018041	-.025178	-.027698	.002328	.018821
27	-.021419	.004799	-.026304	-.041691	.013988	.030517
28	-.020310	-.001001	-.026730	-.051346	.022255	.035671
29	-.026799	.004971	-.025969	-.056896	.028646	.035958
30	-.033514	.014052	-.025932	-.051450	.030328	.029919
31	-.040627	.018480	-.019279	-.039918	.028606	.018610
32	-.037770	.018041	-.012098	-.020163	.032385	.006341
33	-.033175	.023608	-.003141	-.004825	.042342	-.000596
34	-.034392	.025672	.007274	.004128	.048865	-.008098
35	-.045629	.022537	.012000	-.008460	.051276	-.013922
36	-.055212	.023480	.013185	-.023105	.046669	-.022853
37	-.051060	.011386	.010610	-.021923	.031404	-.014581
38	-.042234	.003270	.003519	-.022817	.026220	-.000037
39	-.035461	.001357	-.006766	-.027099	.019568	.009837
40	-.025577	-.003188	-.011085	-.023293	.003727	.018916
41	-.001916	-.006786	-.013704	-.004253	-.005379	.007965
42	.018785	-.009994	-.011602	.001630	-.008175	.009008
43	.022540	-.006992	-.015573	-.001403	-.007075	.011358
44	.019070	-.003116	-.024578	-.000094	-.006475	.019053
45	.015239	-.001288	-.033489	-.003165	-.005812	.027359
46	.015581	-.000620	-.036957	.008679	.000820	.028736
47	.019475	.001390	-.033659	.008559	.008012	.017761
48	.020468	-.006394	-.027980	.006008	.002839	.002217
49	.021053	-.014557	-.018224	.000381	-.008291	-.008237
50	.021305	-.020369	-.010209	.002332	-.015730	-.010497
51	.025341	-.018680	-.007957	.008413	-.014680	-.005836
52	.028183	-.018494	-.006658	.016633	-.016535	-.004416
53	.031669	-.020739	.001462	.013540	-.016809	-.006841
54	.031677	-.022138	.007734	.019518	-.017185	-.003815
55	.030132	-.018237	.004178	.028907	-.017111	.006545
56	.026773	-.015834	-.000591	.022439	-.021000	.012393
57	.023080	-.019993	-.002329	.005264	-.019839	.013172
58	.020904	-.016105	.000954	-.006210	-.022906	.001800
59	.017417	-.005244	.000657	-.003382	-.023539	-.004073
60	.006982	.003709	-.006640	.002823	-.020759	-.005110

RUN NO. 66F 16M 05-10-62 0018-0134 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOVARIANCE

M	U	V	W	T
	0.46483 10E 00	0.24676 10E 00	0.10640 10E 00	0.26872 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.831967	.712720	.576356	.814318
2	.631118	.396548	.242876	.575548
3	.476981	.196200	.064282	.392736
4	.352682	.074323	-.036572	.261269
5	.250591	-.009066	-.066531	.167865
6	.162035	-.062502	-.075333	.093319
7	.085928	-.086404	-.080530	.027626
8	.022315	-.087077	-.077876	-.024987
9	-.034760	-.075933	-.063913	-.068009
10	-.090784	-.079741	-.054975	-.100843
11	-.128779	-.089978	-.076127	-.116527
12	-.160350	-.086326	-.071583	-.125905
13	-.185982	-.084243	-.054508	-.141252
14	-.201290	-.083848	-.047418	-.166290
15	-.217392	-.101304	-.044423	-.186605
16	-.227102	-.112261	-.059005	-.196003
17	-.238267	-.118227	-.049496	-.195747
18	-.250012	-.124730	-.055563	-.193937
19	-.260907	-.123978	-.067485	-.192752
20	-.264243	-.116404	-.089105	-.195496
21	-.260040	-.106361	-.095877	-.208191
22	-.255162	-.091550	-.094467	-.219308
23	-.245676	-.073424	-.088978	-.218325
24	-.235847	-.062227	-.093477	-.211371
25	-.224879	-.054085	-.096470	-.195659
26	-.204209	-.046477	-.111897	-.180023
27	-.177964	-.049998	-.098779	-.167836
28	-.154056	-.063849	-.062940	-.152099
29	-.129944	-.076122	-.030829	-.128139
30	-.101227	-.073124	-.004087	-.091534
31	-.072482	-.048589	.011539	-.048424
32	-.048022	-.035513	.046465	-.016611
33	-.026210	-.019726	.071410	.007579
34	-.004748	-.010824	.073534	.025763
35	.019386	.010795	.052434	.040152
36	.039513	.039753	.027463	.053607
37	.050284	.055935	.000899	.063965
38	.061099	.059837	.003079	.059742
39	.076061	.065723	.022429	.052030
40	.085183	.059797	.029604	.043575
41	.085004	.037451	.045848	.041110
42	.082933	.014358	.063500	.046328
43	.086803	.008584	.061225	.058448
44	.092594	.000037	.038474	.069938
45	.098040	.002517	.001807	.072532
46	.099532	.009078	-.003698	.067889
47	.095400	.011001	.008992	.066334
48	.082017	.012696	.009861	.066711
49	.065179	.011981	.023992	.066025
50	.056868	-.002753	.040888	.061035
51	.048397	-.023450	.067573	.058616
52	.045188	-.026528	.050996	.050903
53	.038962	-.023266	.011381	.045093
54	.030149	-.024586	-.018074	.039410
55	.025321	-.026887	-.041487	.029824
56	.018103	-.039070	-.051117	.017375
57	.019845	-.043938	-.029916	.008990
58	.016203	-.038378	-.030649	.000779
59	.014633	-.025121	-.026352	-.008922
60	.016888	-.015350	-.022890	-.018821

RUN NO. 66F 16M 05-10-62 0018-0134 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	.019359	-.002148	.003952	.005716	.002344	-.004376
1	.101918	-.034203	.061802	.022280	.043829	-.087417
2	.239821	-.083906	.108166	-.033911	.084991	-.225928
3	.561136	-.127611	.134419	-.083177	.127848	-.340877
4	.630304	-.090091	.089152	-.061310	.102021	-.242983
5	.363970	-.051110	.051492	-.035440	.031861	-.154135
6	.165461	-.053840	.043184	-.058912	.012654	-.165363
7-8	.327588	-.054084	.032633	-.135045	.085204	-.133836
9-11	.131753	-.034392	.017149	-.026158	.029470	-.086920
12-15	.080352	-.021285	.008110	-.047074	.033738	-.055475
16-20	-.000623	-.016510	.006902	-.017950	.009627	-.047462
21-27	-.001415	-.006428	.002081	-.010729	.005992	-.018963
28-36	-.014731	-.003264	.000860	-.011279	.002178	-.010522
37-47	.005721	-.002376	.000383	-.009714	.000671	-.009270
48-60	-.000791	-.001572	.000296	-.004070	-.000218	-.005001

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	.240736	.098922	.110892	.060669	-.089969	-.324777
2	.638912	-.054649	.187338	.167826	-.159182	-.519849
3	.848655	-.211557	.235693	.168054	-.173706	-.596873
4	.388217	-.200745	.213664	-.023899	-.066562	-.414762
5	.116856	-.157129	.135523	-.105601	-.023161	-.207310
6	.109107	-.115068	.082815	.000514	-.053116	-.311348
7-8	-.014247	.020729	.100936	.115665	-.022427	-.790857
9-11	-.028487	.002484	.030669	-.045683	.018168	-.322584
12-15	-.011119	-.045237	.024565	-.015223	.017349	-.098025
16-20	-.011457	-.029917	.009555	.005437	-.006138	-.114877
21-27	.029120	-.021966	.011219	.019610	-.002565	-.030027
28-36	.008987	-.008153	.003651	.019534	.001554	-.042345
37-47	.008723	-.003772	.002763	.004728	-.000637	-.018066
48-60	.003411	-.000202	.000275	.004980	.000283	-.009340

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.023254	.009801	.019994	.011983
1	.377889	.105745	.241369	.185887
2	.656916	.163900	.479441	.321213
3	.814906	.220112	.702241	.403490
4	.557864	.188459	.559562	.285686
5	.342412	.155373	.412584	.183581
6	.281779	.153816	.497313	.170289
7-8	.215348	.129453	.596422	.146543
9-11	.122614	.120952	.442010	.089160
12-15	.080153	.073656	.369798	.055635
16-20	.051799	.046943	.262009	.040183
21-27	.033443	.033550	.191303	.021565
28-36	.021347	.020636	.124199	.012922
37-47	.014202	.012940	.107524	.008418
48-60	.009062	.008909	.077802	.005146

RUN NO. 66F 16M 05-10-62 0018-0134 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
	0.18009 10E 00	0.10033 10E 00	0.76608 10E-01	0.53650 10E-01	0.40964 10E-01	0.22822 10E-01
0	.098466	-.454293	.751303	-.071908	.095820	-.530364
1	-.043696	-.044858	.277218	.064289	-.034407	-.023054
2	-.036014	.047841	.044672	-.020890	-.033376	.046361
3	.028632	-.034705	.048678	-.025267	-.005447	-.009114
4	-.030507	-.037366	.060533	-.001584	-.037416	-.059689
5	-.043103	.005026	.024047	-.043833	-.026850	-.037765
6	-.029353	.080975	-.056053	.062919	-.021822	.081611
7	-.030465	.069707	-.099650	-.040414	.000702	.055541
8	-.042002	.089658	-.168021	.054779	-.064268	.097297
9	.022930	.040787	-.077144	.045922	-.002604	.022899
10	.012383	-.013139	-.043102	.025825	-.003266	.010494
11	.008822	.081354	-.155187	-.018063	.005581	.092162
12	.049956	.048102	-.166273	.013382	.041958	.063662
13	.035833	-.022984	-.053916	-.014537	.055370	-.054560
14	-.012107	.010358	-.093695	.033395	.005908	.003594
15	.056395	-.050340	-.039390	-.009481	.068620	-.013448
16	.060533	.012239	-.076972	-.023800	.070670	.055025
17	-.066187	.027343	-.057149	-.009863	-.030246	.052153
18	-.022584	.009298	-.068710	-.048447	.007872	.028245
19	.051758	-.035882	-.017299	-.034711	.041618	-.003052
20	.080874	-.055523	.037679	-.027914	.075565	-.055493
21	.013438	.011589	.020180	.073977	-.002985	.019211
22	.057461	-.048871	.039249	-.077023	.039542	-.073945
23	.003966	-.038836	.046492	-.017009	-.002716	-.003275
24	.019037	-.022529	.027740	.024864	-.001268	-.071813
25	.024715	-.015515	.009270	-.058467	.012239	-.056945
26	-.027424	.006851	.044848	.001607	-.042096	.023431
27	-.025239	.022317	-.045991	-.032654	.003560	-.001433
28	-.070611	.033160	-.030400	.043233	-.095796	.003440
29	-.030105	.031229	-.012739	.026665	-.036434	.008535
30	-.073558	.048482	-.023036	.049405	-.055832	.065978

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	-.004673	-.006759	.023629	.026219	-.004696	-.017751
1	-.230095	-.077222	.390677	.259030	-.592154	-.313393
2	-.182142	-.198207	.569757	-.058033	-.519761	-.590021
3	.003669	-.336211	.618309	-.442030	.062896	-.749084
4	.127205	-.306497	.423220	-.269820	.423750	-.617224
5	.208366	-.228767	.299719	.122276	.341214	-.517795
6	.130867	-.136145	.230960	.268467	.098000	-.253214
7	-.037113	-.075680	.197908	.295674	-.077598	-.087155
8	-.014276	-.096964	.211557	.410652	.112044	-.254979
9-11	-.018182	-.104288	.208985	-.031940	.213369	-.343157
12-14	.047171	-.294977	.320924	.113055	.082525	-.855962
15-21	.203379	-.236324	.184473	-.183153	.339829	-.552273
22-30	.127381	-.198935	.144164	-.791621	.295161	-.644299

RUN NO. 66F 16M 05-10-62 0010-0134 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
	0.18004 10E 00	0.10033 10E 00	0.76608 10E-01	0.53650 10E-01	0.40964 10E-01	0.22822 10E-01
1	.086335	-.021270	.065993	.017067	-.080848	-.023028
2	.009097	.081391	-.009143	.047792	-.035796	-.034062
3	-.033146	.036504	.007243	-.068223	.018691	.029565
4	-.038050	.055689	-.024807	-.022412	.018626	.007224
5	-.008292	-.016775	-.000257	-.060408	.056148	.016369
6	-.016136	-.004745	-.004232	.018386	.031665	.029721
7	-.006451	-.025132	.043770	-.012498	.056588	-.004374
8	-.042466	-.026832	.030717	.022437	.023633	-.010659
9	.039215	.015145	-.016451	.087721	-.071935	-.002992
10	.076703	.048672	.017601	-.012285	-.071881	-.052365
11	.001223	.020574	-.003479	-.075556	-.036685	-.011583
12	-.022567	-.027547	-.004743	-.028191	.031588	.051784
13	.005852	-.060299	-.002536	-.046239	.012543	.057587
14	.024600	-.026838	-.013027	.024976	-.036955	.019618
15	.018026	.015763	-.043885	.047504	-.017752	-.006245
16	-.010359	.005718	-.020808	-.063599	.041346	.003689
17	.014277	-.007446	.001956	-.003437	-.017099	-.017955
18	.029872	-.049640	.001956	.033236	-.026997	.007493
19	-.003658	.002941	.001568	.023383	-.032717	-.018636
20	.032746	.019359	.020144	.047932	-.035058	-.033701
21	-.009800	.026371	.025663	.005352	.012463	-.007182
22	-.012287	-.002195	-.002777	.041746	.008153	.032104
23	.068351	.008840	.029843	.046866	-.006230	-.059332
24	.030448	.067220	.002205	.070648	-.021312	-.053271
25	-.052278	.031233	-.009388	-.062394	.106072	-.023164
26	-.082630	.062865	.000170	-.019395	.067700	-.040691
27	-.062037	-.003757	-.004062	-.077513	.032403	.043957
28	-.068776	-.057322	.006294	-.076807	.012899	.046547
29	-.017688	-.025136	-.005204	-.010060	.013999	-.014207
30	.003594	.039947	-.054099	-.003447	-.050726	.001182

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	.095863	-.000586	.067311	-.165620	-.169975	.063703
2	-.029550	.028653	.193361	-.316507	.093293	.070830
3	-.108009	.092966	.415123	-.061666	.340395	-.036819
4	-.092833	.069604	.072591	-.057688	.286473	.004044
5	-.070544	.056290	-.392443	-.520657	.194580	.129348
6	.041484	.095626	-.145513	-.454166	-.264791	.079293
7	.133151	.126022	.189865	-.132236	-.763407	-.131454
8	.194700	.130912	.222591	.459528	-.786303	-.296469
9-11	.085577	-.045240	.598282	.620860	-.216484	-.048880
12-14	.254535	.002504	.286035	.248674	-.420860	-.134771
15-21	.109923	-.049015	.385018	.019182	-.164483	-.029470
22-30	.046610	-.088690	.436435	-.499403	-.000395	.098898

RUN NO. 66F 16M 05-10-62 0018-0134 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.33679 10F 00	0.96299 10E-01	0.29889 10E-01	0.17425 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.324434	.062482	-.001481	.292658
2	.022140	-.079655	-.067114	.044680
3	.036727	-.023698	.026446	.043243
4	.066906	-.081754	-.024326	.039074
5	.004040	-.176622	-.022379	.010454
6	-.045744	-.033527	-.127478	-.065610
7	-.134194	-.011588	-.062366	-.109053
8	-.218534	-.034556	-.151745	-.194937
9	-.106184	.086591	-.029457	-.090300
10	-.026119	-.117443	.047040	-.069922
11	-.129705	-.005877	-.105551	-.192797
12	-.149963	-.025690	-.017909	-.208628
13	-.094589	-.058569	.054134	-.053338
14	-.110862	-.098280	-.067649	-.096823
15	-.026471	-.008059	.014435	-.069134
16	-.016903	-.026620	-.059320	-.066297
17	-.063136	-.038622	-.071963	-.057681
18	-.074396	.051005	-.053676	-.023635
19	-.008112	-.081450	.012925	.017469
20	.009220	.010700	.095429	.057522
21	.002940	.007469	-.067297	.023249
22	.032795	.099431	.110562	.051749
23	.044775	.040445	.031218	.030636
24	.011976	.055226	.030521	.056561
25	-.033805	.039153	.068779	.071683
26	.004376	.033565	-.027796	.032050
27	-.089361	.084747	.072040	-.019230
28	-.044813	-.046272	.014222	-.017493
29	.011065	.011985	.017115	.005895
30	.055464	-.045280	-.030354	-.073332

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.014965	.005528	.001671	.004580
1	.206357	.164457	.052317	.093570
2	.281634	.312292	.102067	.150188
3	.314364	.371962	.125613	.170902
4	.239116	.336803	.136165	.115632
5	.179080	.438782	.148830	.081169
6	.141540	.526835	.120027	.070779
7	.117323	.559344	.074395	.064950
8	.112267	.509081	.074415	.065215
9-11	.137969	.359635	.092307	.065295
12-14	.177835	.330429	.147212	.091246
15-21	.122499	.536983	.149054	.059577
22-30	.090415	.437123	.174007	.057206

RUN NO. 66F 40M 05-10-62 0010-0134 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.03 M/SEC	WIND DIRECTION	280 DEG
STABLE	SIGMA A	5.9 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.6 DEG	NET RADIATION	-0.17

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.67372E 00	0.59134E 00	0.49426E-00	0.32719E-00
V	0.50808E 00	0.39587E-00	0.38288E-00	0.13909E-00
W	0.18506E-00	0.18487E-00	0.17714E-00	0.46371E-01
T	0.33057E-01	0.27770E-01	0.23330E-01	0.14836E-01
E	0.68342E 00	0.58605E 00	0.52714E 00	

**GUSTINESS RATIOS**

U	0.11676	0.10939	0.10000	0.08137
V	0.10139	0.08950	0.08802	0.05305
W	0.06119	0.06116	0.05987	0.03063

**COVARIANCES**

U,V	0.11704E-00	0.51087E-01	0.42199E-01	0.25132E-01
U,W	-0.14599E-00	-0.13935E-00	-0.12963E-00	-0.59613E-01
U,T	0.77496E-01	0.81238E-01	0.63120E-01	0.53141E-01
V,W	-0.21067E-01	-0.19898E-01	-0.17499E-01	0.18213E-03
V,T	0.99606E-02	0.16321E-01	0.16164E-01	0.60183E-02
W,T	-0.30770E-01	-0.29706E-01	-0.28670E-01	-0.11907E-01
WE	0.10699E-01	0.16192E-01	0.12338E-01	

**NORMALIZED COVARIANCES**

U,V	0.20004	0.10559	0.09700	0.11781
U,W	-0.41346	-0.42146	-0.43810	-0.48397
U,T	0.51929	0.63395	0.58781	0.76273
V,W	-0.06871	-0.07355	-0.06719	0.00227
V,T	0.07686	0.15567	0.17103	0.13249
W,T	-0.39341	-0.41459	-0.44598	-0.45395



RUN NO. 66F 40M 05-10-62 0018-0134 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	...	W,T
	0.43508 10E 00	0.29594 10E 00	0.10738 10E 00	0.26048 10E 00	0.94512 10E-01	0.64287 10E-01
0	.096995	-.438068	.587578	-.067257	.171082	-.445822
1	.085256	-.362808	.540949	-.035566	.144683	-.358456
2	.058622	-.251684	.443823	-.000467	.094956	-.245590
3	.035041	-.152533	.340109	.017228	.055916	-.159835
4	.018066	-.079991	.245220	.033300	.027606	-.091545
5	-.080021	-.035151	.166758	.035126	.008393	-.039225
6	-.012275	-.007238	.106961	.034212	-.003098	-.002127
7	-.022847	.015874	.059014	.029607	-.007819	.015092
8	-.028400	.035799	.012513	.013273	-.009440	.034927
9	-.024245	.045112	-.027962	-.007565	-.005277	.051420
10	-.015669	.047835	-.059250	-.019794	-.000371	.068024
11	-.013871	.047315	-.082077	-.020867	.000558	.077740
12	-.012539	.043901	-.094048	-.017802	-.001299	.070762
13	-.009497	.037530	-.096812	-.005822	-.006699	.057919
14	-.010079	.036717	-.106634	-.001035	-.019523	.049077
15	-.004950	.041347	-.116471	.009163	-.031888	.052783
16	.005408	.046229	-.129324	.001326	-.033077	.067560
17	.010412	.052563	-.139226	-.009343	-.033155	.077808
18	.006848	.065030	-.143577	-.018100	-.033247	.085780
19	.004555	.081287	-.147566	-.023757	-.032799	.089488
20	.002390	.082445	-.149016	-.031553	-.029918	.094817
21	-.004738	.092318	-.151263	-.023121	-.038757	.101996
22	-.009962	.102380	-.150321	-.007732	-.050021	.095896
23	-.010731	.102664	-.148229	.006596	-.049667	.088992
24	-.013964	.099996	-.147000	.013613	-.044926	.078115
25	-.017585	.089548	-.145577	.013928	-.049160	.074637
26	-.023837	.072851	-.145746	.019612	-.046953	.065077
27	-.023678	.060370	-.138473	.021153	-.040468	.053240
28	-.010520	.053886	-.125307	.010052	-.029981	.034661
29	.004743	.054728	-.105621	.004352	-.026440	.017923
30	.011285	.048794	-.082308	-.011046	-.019410	.002355
31	.020897	.034411	-.058805	-.009600	-.012486	-.010053
32	.033044	.017776	-.040458	-.008226	-.001813	-.017917
33	.032926	.007293	-.030873	-.000301	.008404	-.022407
34	.022814	.005993	-.024154	.011558	.013268	-.011917
35	.010088	.004778	-.022683	.019050	.018696	-.004592
36	-.001640	.004256	-.019677	.017134	.032665	-.010964
37	-.002977	-.005385	-.011927	.010561	.050294	-.016885
38	.000388	-.008302	-.000064	.005580	.058751	-.015440
39	-.005088	-.014120	.018176	.005266	.052686	-.026522
40	-.010095	-.020165	.031454	-.010067	.038747	-.039270
41	-.018562	-.031078	.036374	-.010395	.024262	-.044354
42	-.021839	-.047622	.045254	-.008179	.010942	-.043462
43	-.026379	-.059885	.063439	-.010749	.005520	-.052212
44	-.035024	-.056522	.083351	.003330	-.002747	-.059736
45	-.047192	-.056759	.098131	.013779	-.019929	-.057208
46	-.048960	-.056729	.105278	.016549	-.034439	-.057007
47	-.043262	-.055102	.104258	.007463	-.033024	-.055170
48	-.033228	-.049993	.098558	.003532	-.025405	-.048729
49	-.025550	-.042833	.084192	.005952	-.023657	-.033478
50	-.016535	-.037970	.056964	-.001625	-.018948	-.017197
51	-.003637	-.030563	.028421	-.003134	-.009772	-.005167
52	.003972	-.022395	.007996	.000218	-.002770	.011038
53	.006860	-.009529	-.007750	.002437	.001702	.026165
54	.001867	.010046	-.021906	.005799	.004210	.036108
55	-.002358	.028366	-.029299	.006644	.004294	.039122
56	-.006176	.029511	-.027770	-.002307	.000306	.035706
57	-.004406	.024171	-.026552	-.000542	-.005012	.029125
58	.000454	.015749	-.025859	.001694	-.006277	.022941
59	.005332	.019794	-.029216	.001984	-.001686	.021101
60	.008851	.017418	-.030219	-.007608	-.000455	.018952

RUN NO. 66F 40M 05-10-62 0018-0134 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.43508 10E 00	0.29594 10E 00	0.10738 10E 00	0.26048 10E 00	0.94512 10E-01	0.64287 10E-01
1	.015465	.006344	.044286	-.004435	.000293	-.059668
2	.018707	.010835	.066730	-.012381	-.006591	-.066335
3	.012742	.006193	.072615	-.018771	-.013306	-.054990
4	.003351	.002225	.066440	-.013715	-.013608	-.040526
5	.005105	-.002511	.055845	-.020611	-.010211	-.029731
6	.025593	-.008208	.045346	-.018280	-.011074	-.018739
7	.037671	-.006373	.039639	-.014612	-.018564	-.011004
8	.037739	-.007693	.034199	-.021870	-.016016	-.004422
9	.033927	-.004852	.028048	-.025218	-.014756	-.001623
10	.031885	-.001622	.026302	-.021266	-.011426	-.003676
11	.031734	.000690	.023484	-.010213	-.013624	-.006181
12	.037403	-.002943	.019871	.003604	-.016324	-.002793
13	.046972	-.004911	.017069	.019520	-.018423	.002697
14	.046907	-.004018	.014417	.024198	-.019480	.003005
15	.043338	-.004676	.007986	.024153	-.019608	.009612
16	.031711	-.006839	.003817	.025587	-.022267	.015095
17	.029830	-.017332	.004197	.015730	-.020696	.009625
18	.030340	-.016109	.001571	.005620	-.024312	.004432
19	.029154	-.014654	-.001745	.001473	-.027477	.012020
20	.035497	-.013912	.001639	.009895	-.026267	.014096
21	.042159	-.007523	.008040	.013595	-.020935	.014806
22	.035801	.004090	.006346	.011047	-.014365	.016857
23	.025101	.012421	.000796	.004846	-.007910	.022494
24	.015544	.016431	-.000802	.004178	-.006938	.022256
25	.007162	.017569	-.001458	.009628	-.006144	.020089
26	-.001360	.012326	.000134	.015633	-.010105	.015026
27	.001605	.008378	.003364	.019176	-.009964	.001386
28	.005908	.002621	.001858	.024428	-.008969	-.007786
29	.001654	-.007831	-.001949	.025164	-.001965	-.006594
30	-.009082	-.013487	-.002898	.019832	.009388	-.002417
31	-.020257	-.017517	-.004358	.010252	.021592	-.000482
32	-.027562	-.018903	-.000667	.003760	.028614	-.005215
33	-.026426	-.015054	.006731	-.002602	.029651	-.018412
34	-.032495	-.008413	.011160	-.004262	.033781	-.021996
35	-.045685	-.001546	.008948	-.009888	.033650	-.010199
36	-.058580	-.000539	.005730	-.019576	.037306	-.000702
37	-.061944	-.000545	.008223	-.031176	.042948	.000501
38	-.059464	-.003936	.013442	-.029062	.044564	.000573
39	-.053245	-.015720	.16002	-.029353	.042504	.008659
40	-.052422	-.010153	.009407	-.030932	.036883	.013679
41	-.052003	-.000656	-.001504	-.036188	.031246	.015350
42	-.048782	-.002884	-.003190	-.033264	.028278	.011800
43	-.035889	-.004036	-.002373	-.029049	.023458	.000500
44	-.018310	.004265	-.007921	-.007084	.016409	-.011705
45	-.000134	.014106	-.015997	.011502	.002713	-.018586
46	.006881	.026055	-.021614	.020136	-.008511	-.016765
47	.009133	.032846	-.027224	.017518	-.016248	-.014614
48	.008686	.035933	-.029108	.016424	-.019649	-.018036
49	.009946	.039521	-.029485	.004581	-.022797	-.024831
50	.010283	.033835	-.026256	-.008610	-.023412	-.031471
51	.014162	.034081	-.023949	-.002846	-.026354	-.035812
52	.016425	.031821	-.021361	.001581	-.026720	-.029195
53	.022988	.027624	-.021010	.019876	-.029456	-.018457
54	.029770	.015499	-.017940	.027800	-.025226	-.014223
55	.031926	.006887	-.014037	.014903	-.024660	-.011063
56	.030079	.003977	-.010744	.010802	-.028663	-.008695
57	.028027	-.000180	-.006062	-.000623	-.028776	.003949
58	.025605	-.004674	-.003760	-.001191	-.023654	.015759
59	.024080	-.011886	-.000288	-.003318	-.014115	.028556
60	.022171	-.016482	.000271	.002639	-.007336	.034647

RUN NO. 66F 40M 05-10-62 0018-0134 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.49431 10E 00	0.38295 10E 00	0.17718 10E 00	0.23326 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.820932	.713369	.594445	.843655
2	.604745	.398014	.259293	.620149
3	.423290	.204699	.083346	.442527
4	.284287	.085508	-.015544	.301189
5	.182165	.011583	-.061720	.187653
6	.104020	-.032710	-.086920	.104921
7	.052552	-.066791	-.076977	.041960
8	.011607	-.091676	-.082416	-.017468
9	-.027811	-.110297	-.087552	-.067883
10	-.064175	-.115761	-.086090	-.105162
11	-.092535	-.111560	-.085886	-.129028
12	-.121168	-.107260	-.084848	-.143619
13	-.146392	-.126000	-.074837	-.150357
14	-.159775	-.146163	-.049274	-.161918
15	-.165351	-.146040	-.040940	-.177644
16	-.173017	-.128305	-.046190	-.189330
17	-.178334	-.109700	-.052063	-.193871
18	-.188258	-.097546	-.083727	-.203319
19	-.201801	-.095787	-.101213	-.217683
20	-.211503	-.081457	-.043670	-.226978
21	-.228534	-.079932	-.088276	-.230069
22	-.241268	-.082195	-.077809	-.224389
23	-.246249	-.089725	-.079837	-.210733
24	-.239833	-.093670	-.075173	-.194557
25	-.222292	-.103998	-.077461	-.188304
26	-.206306	-.117523	-.061159	-.180301
27	-.192846	-.119221	-.043018	-.168262
28	-.179950	-.104274	-.035994	-.148677
29	-.158925	-.084476	-.039782	-.124016
30	-.127994	-.044492	-.020451	-.090095
31	-.089650	-.007683	.024445	-.052607
32	-.052426	.007549	.039172	-.027983
33	-.022187	.017089	.026738	-.014316
34	-.006973	.021081	-.000051	-.002927
35	.000354	.022497	-.011270	.002354
36	.002030	.038450	-.006078	.012982
37	.000893	.055239	.008063	.021965
38	.012115	.062335	.000419	.026025
39	.033465	.053015	.019200	.034467
40	.051537	.051826	.049851	.048022
41	.075009	.056078	.059348	.056752
42	.093948	.059344	.058419	.062208
43	.108172	.055223	.053510	.077795
44	.117838	.053216	.032352	.094974
45	.125088	.042038	.004259	.098290
46	.129425	.035360	.010318	.096646
47	.131108	.029312	.030112	.094279
48	.124598	.028460	.041922	.091794
49	.111135	.032155	.022225	.081115
50	.097255	.035325	.014920	.056725
51	.071116	.023672	.005960	.030967
52	.048251	.001158	-.010059	.005580
53	.025326	-.016201	-.025610	-.015961
54	-.001037	-.009900	-.025057	-.032273
55	-.020920	-.007437	-.021551	-.041357
56	-.030696	-.004812	-.023866	-.042560
57	-.029946	-.014597	-.009451	-.039510
58	-.027236	-.021823	.003087	-.033131
59	-.029668	-.035634	.002194	-.032541
60	-.035233	-.045859	-.001693	-.031950

RUN NO. 66F 40M 05-10-62 0018-0134 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	.045583	-.004227	.005391	.001227	.004946	-.008318
1	.331565	-.079877	.066860	-.009761	.096821	-.130969
2	.239290	-.143945	.103598	.025460	.178961	-.276252
3	.339321	-.171265	.117261	.088207	.246652	-.396064
4	.452562	-.111105	.076991	.088555	.140730	-.299917
5	.277720	-.083134	.054095	.008104	.042596	-.205287
6	.405780	-.086785	.045307	-.088547	.101734	-.182419
7-8	.513175	-.092228	.034995	-.129782	.098028	-.194871
9-11	.170132	-.053754	.017372	-.146823	.086880	-.107606
12-15	.106344	-.031340	.008510	-.140128	.047546	-.062941
16-20	.019544	-.020179	.005304	-.033806	.023656	-.045746
21-27	.039434	-.009532	.001343	-.040634	.012386	-.020952
28-36	.013506	-.004475	.000802	-.022613	.007331	-.016094
37-47	-.000612	-.002939	.000313	-.021984	.001789	-.008206
48-60	-.000837	-.002073	.000115	-.006900	.000036	-.006282

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-02	10E-02	10E-02	10E-03
1	.488662	-.880272	.107155	.079458	-.044060	.105674
2	.861661	-.658812	.109059	.068181	-.105863	.029444
3	.599579	-.173711	.118013	-.101921	-.074002	.303525
4	-.079540	-.561555	.138635	-.224183	.029508	-.545739
5	-.019385	.309986	.114401	-.107678	.005578	-.590748
6	.071118	.999759	.091741	-.109162	-.023487	-.348805
7-8	-.040925	-.199145	.082203	-.097688	-.005554	-.368805
9-11	-.027842	.392565	.057121	.064892	-.006175	-.379670
12-15	.008691	.271424	.040004	-.032935	-.000813	-.332855
16-20	.093137	.161566	.018072	-.001008	.000173	-.150372
21-27	.045673	-.076812	.005213	.002463	.003793	-.134066
28-36	-.013032	-.007142	.003375	.003090	.004011	-.074162
37-47	.007974	-.053532	.001209	.009345	-.000381	-.026637
48-60	.000775	-.010809	.000800	-.007948	-.000047	-.013172

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.028600	.008858	.002467	.013707
1	.403440	.134926	.041649	.183607
2	.664499	.259522	.080639	.298705
3	.767952	.367467	.116808	.365038
4	.489896	.305076	.101757	.259567
5	.329523	.254413	.085899	.176503
6	.304528	.265398	.089120	.152305
7-8	.265972	.210823	.097684	.129865
9-11	.155438	.155935	.074948	.075699
12-15	.112590	.112136	.059023	.044888
16-20	.057391	.078394	.042370	.029351
21-27	.034634	.049350	.030208	.014896
28-36	.022693	.033883	.022637	.010241
37-47	.014629	.021072	.015268	.005131
48-60	.011499	.013015	.012080	.002966

RUN NO. 66F 40M 05-10-62 0018-0134 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
	0.21340 10E 00	0.12320 10E 00	0.69702 10E-01	0.80315 10E-01	0.45439 10E-01	0.26233 10E-01
0	.117769	-.483865	.762398	.002268	.132449	-.453877
1	.031455	-.087808	.259590	-.039993	.029377	-.037838
2	.011952	.061915	.049281	-.005572	-.038329	.079329
3	-.014052	.067879	-.019961	.028110	-.044860	.024961
4	-.056624	.011490	-.030819	-.015411	-.010523	-.017394
5	-.058297	.006544	-.039001	.038824	-.035424	.033378
6	-.014454	.060543	-.091715	-.017426	-.009323	.060724
7	-.006059	.027944	-.065325	-.041770	.014651	.071657
8	-.009217	-.037542	-.014511	.068986	-.003406	-.030130
9	-.009049	-.000858	.016570	.050968	-.022515	-.025915
10	-.041476	-.011873	-.004285	-.018058	-.000620	-.060607
11	.043097	.026356	-.021962	-.030146	.005370	.012204
12	-.051068	.047199	-.114224	.024178	-.065333	.045259
13	-.054224	.011142	-.059643	.027117	-.018987	.015480
14	-.029536	.003467	-.121177	-.006511	-.003945	.001102
15	.024059	-.024157	-.105049	-.028304	.040151	.015366
16	.074382	.070737	-.120096	.012778	.080407	.063288
17	.092722	.013282	-.051106	-.005865	.061610	-.015089
18	.077942	.019110	.053432	-.065854	.052306	-.004822
19	.028295	.030388	-.029300	-.058493	.014818	.017961
20	.033145	-.010416	-.021229	.017657	-.001442	-.013905
21	-.022669	.029074	-.095054	.030884	-.028440	.057552
22	-.020006	.082063	-.099235	-.025645	-.030240	.128045
23	-.046563	.001511	-.082092	-.003806	-.013137	.047405
24	.004174	-.012026	-.013889	.006487	-.011102	-.034996
25	.017452	-.046240	.031120	-.002680	.019134	-.044583
26	.059455	.016625	.018058	.011505	.032488	.033605
27	-.001026	-.059491	.057526	-.017354	.045860	-.053427
28	-.031498	-.015433	.037951	-.022568	-.000515	-.030938
29	-.027747	-.018129	.026338	.090826	-.043815	-.003671
30	-.033260	-.044307	.015494	.058460	-.021952	-.028076

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	-.015163	-.014881	.023947	.000196	-.009228	-.046993
1	-.174434	-.205485	.374548	.227485	-.277641	-.439069
2	-.020014	-.218080	.412748	-.031838	-.120351	-.340709
3	.296399	-.195287	.354704	-.560265	.366697	-.236059
4	.290374	-.232104	.294569	-.465211	.452340	-.359820
5	.054723	-.283782	.371089	-.031584	-.029604	-.489438
6	.244989	-.317269	.47544	-.120921	.185394	-.675906
7	.478173	-.361781	.389151	-.194649	.829144	-.740628
8	.212170	-.339775	.216459	.044134	.626161	-.427955
9-11	.114786	-.255076	.197643	-.519879	.376523	-.335455
12-14	-.066396	-.388320	.248655	.344819	.296065	-.787236
15-21	.106173	-.229664	.152227	.021461	.287205	-.619759
22-30	.097723	-.234521	.167566	.396446	.159683	-.510310

RUN NO. 66F 40M 05-10-62 0018-0134 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
	0.21340 10E 00	0.12320 10E 00	0.69702 10E-01	0.80315 10E-01	0.45439 10E-01	0.26233 10E-01
1	.034285	-.007132	.058961	-.055603	.009078	-.002680
2	.082328	-.000514	.046076	.098027	-.068096	-.001468
3	.014935	.006905	.032705	.044158	.000652	.004677
4	-.073767	.010946	.016482	-.050007	.039951	.023086
5	-.012564	.061765	-.022746	.028151	-.013497	-.027944
6	.006255	-.007468	.003966	-.039888	.006816	.051740
7	-.008368	-.021922	.041917	.002929	.007198	.032403
8	-.015638	.014585	-.009736	.021912	.017110	.042439
9	.008632	-.012485	-.018062	-.002873	-.015987	.038863
10	.107132	-.017810	-.012398	.069960	-.060075	.018241
11	.121520	-.017402	.024115	.090259	-.119498	-.001726
12	.071721	-.015503	.054447	.048085	-.062338	-.033839
13	-.010167	-.012011	-.019798	-.050187	-.030044	.046970
14	.024663	-.026686	-.001865	-.009874	-.070997	.005896
15	.013562	-.015457	.012542	-.049440	.015669	-.023014
16	.014944	-.014885	.001228	-.000094	-.003855	-.016017
17	-.064930	-.051694	.027346	.007122	.042663	-.043986
18	.041550	-.007714	.004399	-.023603	-.007841	-.045734
19	.033327	.004122	.002305	.020654	.002472	-.040465
20	.008969	-.011193	-.037442	.035558	-.015727	.015033
21	-.040710	.005561	-.029339	-.031501	.039083	-.014815
22	-.062268	.014917	-.015005	.018756	.011187	-.041913
23	-.084911	.046711	-.012663	-.057753	.095893	-.012750
24	-.041086	.051946	-.030858	-.012437	.048027	-.009764
25	-.073190	-.009599	-.014771	-.009185	.047634	.053733
26	-.029208	-.007805	.030416	.055418	.020717	.032406
27	-.000268	.010064	.007837	-.069432	.045175	.033846
28	.010093	.020829	-.045270	.036357	-.004457	.060639
29	-.014530	.057347	-.034291	-.036617	-.006836	.011864
30	.008064	-.013919	.015862	-.002326	-.035590	.045778

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	.397791	-.086781	.461953	.076425	-.836336	.145608
2	.239263	.003021	.446628	.066890	-.504767	.305551
3	-.154876	.103691	.228840	.023476	.333878	.225818
4	-.260915	.066494	.340848	-.035268	.566722	-.085787
5	-.069909	.018889	.611078	-.036652	.044131	-.122235
6	.224605	.024013	.510253	.056900	-.541064	-.092677
7	.471120	-.022784	.524009	.149512	-.663887	-.103338
8	.267795	-.047833	.482924	.097076	-.116972	-.043277
9-11	.101822	-.048432	.525570	-.006861	-.030954	.106513
12-14	.313885	-.011390	.191831	.002470	-.346910	-.052305
15-21	-.158450	-.000741	.171189	-.113158	.346465	.014870
22-30	-.012291	.016606	.013484	-.024912	.123319	-.047405

RUN NO. 66F 40M 05-10-62 0018-0134 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.32735 10E 00	0.13911 10E 00	0.46369 10E-01	0.14842 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.302544	-.006532	-.010511	.294877
2	.022572	-.058816	-.076081	.033631
3	-.034235	-.116013	.010566	-.017508
4	-.024021	-.008170	-.007367	-.019594
5	-.017767	-.091751	-.016641	-.043357
6	-.117214	-.053785	-.063613	-.103128
7	-.104778	-.078786	-.073597	-.052371
8	-.000218	.059732	-.025139	-.083147
9	.025191	.039443	-.061753	-.063479
10	-.053649	-.092271	-.105089	-.045857
11	-.076072	-.102992	-.089358	-.041421
12	-.113838	-.103077	-.080716	-.134051
13	-.071721	-.115134	-.003541	-.096180
14	-.131520	-.039353	-.035054	-.123501
15	-.083847	.039566	.013656	-.140703
16	-.141019	-.018171	.017335	-.113267
17	-.072227	.161385	.031103	-.020429
18	-.062600	.065030	-.004333	.092207
19	-.048367	-.018902	-.046547	.021918
20	-.047629	.042101	.112062	.004493
21	-.103906	-.006276	.041881	-.051603
22	-.069056	.005871	-.110622	-.074029
23	-.045786	-.074191	.060756	-.044015
24	-.013491	-.018051	.048591	.014722
25	.008869	.020421	.051699	.049551
26	-.005653	.036768	-.050856	.045714
27	.069040	-.056427	.011976	.070338
28	.033845	.016841	-.000882	.044858
29	.027317	.001042	.027316	-.019424
30	.037703	-.076729	.010348	.000875

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.012389	.015275	.005925	.005216
1	.204806	.182749	.086200	.081214
2	.235640	.353532	.163107	.108243
3	.212926	.571458	.238492	.112581
4	.175549	.453726	.201509	.084670
5	.180271	.292167	.133890	.076400
6	.215445	.587803	.117739	.095542
7	.211775	.914710	.150312	.089559
8	.146406	.755466	.174832	.053792
9-11	.123072	.417183	.157017	.064066
12-14	.172974	.739436	.214087	.063763
15-21	.102366	.640370	.237937	.050143
22-30	.107740	.808252	.271705	.050290

RUN NO. 66F 1CM 05-10-62 0018-0134 EST  
 RUN NO. 66F 40M 05-10-62 0018-0134 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	.422023	.181388	.203360	.311597
1	.357418	.354380	.090112	.453562
2	.326910	.343206	.105084	.484087
3	.307321	.385338	.174628	.453869
4	.227080	.373409	.280117	.396106
5	.088309	.318271	.376654	.319584
6	.017264	.365156	.238355	.220862
7-8	.164447	.314836	.271246	.244437
9-11	.099058	.249161	.255737	.086693
12-15	.038903	.181287	.129974	.092175
16-20	.155583	.081669	.115098	.166740
21-27	.134982	.072297	.131888	.047121
28-36	.075238	.080708	.084002	.089558
37-47	.080593	.080759	.119487	.111468
48-60	.113899	.089679	.097151	.081916

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	.850754	.436953	.239624	.938831
1	.869052	.312608	.332390	.913857
2	.761674	.225895	.466805	.852922
3	.533630	.226211	.403642	.716217
4	.360648	.180042	.333270	.572498
5	.496748	.312502	.343731	.493648
6	.506183	.483454	.260767	.382742
7	.465497	.425439	.273516	.334247
8	.462215	.371084	.042188	.368260
9-11	.349400	.378690	.161347	.466033
12-14	.378314	.330460	.117598	.525297
15-21	.319538	.454256	.312132	.408857
22-30	.130883	.244558	.303108	.266462



RUN NO. 67A 16M 05-10-62 0234-0350 EST

GROSS STATISTICS

CLEAR WIND SPEED 5.74 M/SEC WIND DIRECTION 284 DEG  
 STABLE SIGMA A 6.6 DEG SOLAR RADIATION 0  
 LAND SIGMA E 4.4 DEG NET RADIATION -0.17

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.88527E 00	0.81489E 00	0.69530E 00	0.48747E-00
V	0.43808E-00	0.38369E-00	0.36551E-00	0.15123E-00
W	0.19669E-00	0.19197E-00	0.19121E-00	0.52618E-01
T	0.28187E-01	0.21759E-01	0.18427E-01	0.11663E-01
E	0.76002E 00	0.69530E 00	0.62601E 00	

**GUSTINESS RATIOS**

U	0.16392	0.15727	0.14527	0.12164
V	0.11531	0.10791	0.10533	0.06775
W	0.07726	0.07633	0.07618	0.03996

**COVARIANCES**

U,V	-0.23596E-01	-0.27148E-01	-0.27639E-01	-0.13906E-01
U,W	-0.17926E-00	-0.16469E-00	-0.16618E-00	-0.80695E-01
U,T	0.10357E-00	0.84257E-01	0.69210E-01	0.56134E-01
V,W	0.19633E-02	0.45859E-02	0.35307E-02	-0.70965E-03
V,T	-0.69573E-02	-0.41965E-03	-0.10187E-02	-0.44981E-03
W,T	-0.29390E-01	-0.27221E-01	-0.27280E-01	-0.11441E-01
WE	-0.51837E-01	-0.37075E-01	-0.31756E-01	

**NORMALIZED COVARIANCES**

U,V	-0.03789	-0.04855	-0.05483	-0.05122
U,W	-0.42958	-0.41638	-0.45576	-0.50385
U,T	0.65564	0.63276	0.61145	0.74448
V,W	0.00669	0.01690	0.01373	-0.00796
V,T	-0.06261	-0.00459	-0.01241	-0.01071
W,T	-0.39471	-0.42119	-0.45959	-0.46186

RUN NO. 67A 16M 05-10-62 0234-0350 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.50414 10E 00	0.36466 10E 00	0.11319 10E 00	0.26439 10E 00	0.82068 10E-01	0.59363 10E-01
0	-.054780	-.455695	.611218	.013719	-.012279	-.459853
1	-.046644	-.383532	.552198	.006058	-.012598	-.353314
2	-.036905	-.274230	.440802	-.001317	-.016446	-.221391
3	-.036116	-.182922	.338349	.013727	-.024861	-.135689
4	-.036324	-.121795	.255483	.019602	-.025858	-.080609
5	-.028961	-.075957	.187467	.008983	-.025862	-.039917
6	-.013508	-.043775	.131786	-.006202	-.022252	-.015900
7	.004304	-.022856	.093753	-.012323	-.013674	.003935
8	.015007	-.000307	.059646	-.007023	-.008143	.014478
9	.018218	.021586	.028922	-.003824	-.003189	.017858
10	.019445	.043126	-.002850	-.014956	.002112	.027441
11	.028601	.063957	-.033935	-.032406	.016448	.039809
12	.037805	.085467	-.066900	-.023670	.022658	.055484
13	.037789	.101201	-.097266	-.011090	.020404	.070681
14	.028544	.099002	-.114550	-.011751	.012333	.069965
15	.019848	.089191	-.124985	-.010595	.011940	.057775
16	.018075	.083749	-.136680	-.006302	.015750	.053969
17	.024546	.082835	-.154985	-.006200	.022954	.059896
18	.036613	.087827	-.170453	-.015455	.036069	.070851
19	.034896	.084934	-.179032	-.013902	.039080	.074938
20	.023687	.096885	-.182903	-.006644	.029588	.080737
21	.017366	.104797	-.183524	.002885	.015257	.087499
22	.015048	.110071	-.180439	.009733	.006857	.094576
23	.014245	.107699	-.171716	.007249	.010633	.089027
24	.015801	.094467	-.160451	.007514	.016925	.078298
25	.013360	.077964	-.151750	.007898	.016965	.066278
26	.011063	.073447	-.152388	.008612	.011632	.073539
27	.007315	.079605	-.158381	.000874	.006624	.087240
28	-.001386	.084005	-.157298	.010656	.000739	.085917
29	-.011885	.087146	-.147446	.025696	.001734	.070686
30	-.021617	.081136	-.131109	.025927	.002634	.053375
31	-.017186	.059969	-.108947	.021858	.003776	.026293
32	-.007677	.033040	-.093763	.009457	.006161	.013407
33	-.005093	.009420	-.081330	-.004085	.007285	.006430
34	-.002926	-.007965	-.066824	-.011029	.005676	-.011747
35	-.002297	-.020178	-.051984	-.007911	.004547	-.013580
36	-.006015	-.027131	-.039375	.003843	.005771	-.002745
37	-.014409	-.027110	-.030905	.017766	-.003943	.004175
38	-.018607	-.024184	-.022962	.019868	-.013901	.006571
39	-.015610	-.029117	-.005674	.006198	-.018215	-.007265
40	-.011784	-.039579	.011526	-.005277	-.015718	-.017830
41	-.012188	-.050361	.028686	-.005283	.013530	-.019741
42	-.021033	-.057175	.047774	.001477	-.019051	-.027239
43	-.028519	-.056720	.062860	.004172	-.026366	-.037542
44	-.030317	-.047882	.072836	.003078	-.038237	-.038945
45	-.032808	-.044858	.072794	.002442	-.047276	-.028479
46	-.026850	-.046324	.071748	.006855	-.048639	-.019216
47	-.020593	-.049817	.081351	.015694	-.047139	-.022352
48	-.015965	-.056905	.098993	.016081	-.035751	-.034939
49	-.007849	-.063609	.111831	.006317	-.023334	-.044158
50	-.005931	-.061629	.112921	.005139	-.017338	-.054623
51	.001331	-.046539	.104719	-.002054	-.014277	-.043733
52	.003417	-.026641	.087198	-.009704	-.012418	-.028469
53	.003828	-.010420	.069339	-.011704	-.009574	-.019553
54	-.002295	-.003461	.053462	-.015196	-.003657	-.018862
55	-.004332	.005270	.036718	-.013575	.002549	-.021095
56	-.006951	.012812	.023685	-.012703	.012549	-.022328
57	-.004696	.010566	.014482	-.005841	.022608	-.018948
58	-.000989	.008648	.009940	-.003797	.029379	-.015307
59	.004077	.004925	.011251	.005698	.021288	-.020927
60	.012343	.000618	.013969	.003637	.018856	-.027882

RUN NO. 67A 16M 05-10-62 0234-0350 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.50414 10E 00	0.36466 10E 00	0.11319 10E 00	0.26439 10E 00	0.82068 10E-01	0.59363 10E-01
1	.004048	-.015196	.048192	.016663	.006373	-.064345
2	.002367	-.019305	.075708	.021307	.013259	-.075428
3	-.001494	-.022623	.085700	.011169	.015329	-.066686
4	-.003900	-.017117	.087976	.010926	.006673	-.056836
5	-.001695	-.017571	.085326	.010262	.002356	-.049193
6	-.001835	-.013273	.082584	.003167	.002474	-.052589
7	-.000169	-.011911	.081534	.004059	-.001311	-.050982
8	.004727	-.012060	.076509	.006767	-.004057	-.045754
9	.005205	-.004878	.070135	.007244	-.002151	-.050162
10	-.000402	-.001687	.069283	.001541	.007038	-.051837
11	-.011423	.004218	.069207	-.005544	.016318	-.042385
12	-.016316	.010735	.070735	-.003689	.013787	-.034299
13	-.018575	.019933	.065467	.011975	.008831	-.035132
14	-.026751	.020551	.057004	.019906	.013631	-.037187
15	-.041528	.016288	.053471	.009393	.024147	-.036830
16	-.053055	.012646	.052708	-.004486	.035320	-.038258
17	-.053948	.004840	.050896	-.015868	.048118	-.032189
18	-.040322	-.007603	.054192	-.014498	.050173	-.026456
19	-.022072	-.018958	.060009	-.010683	.041220	-.026981
20	-.016895	-.019597	.054434	-.002661	.030922	-.020476
21	-.014074	-.011887	.036309	-.000895	.021251	-.013098
22	-.016196	-.005963	.017710	-.002159	.019239	-.002290
23	-.021255	.000382	.003073	-.003029	.022363	.006901
24	-.023021	.001609	-.002301	-.011378	.021948	.012417
25	-.021483	.000668	-.001231	-.006262	.023078	.015876
26	-.018187	-.003105	-.000872	-.001218	.023573	.016351
27	-.014885	-.000953	-.002581	-.003371	.020135	.017002
28	-.013591	-.003198	-.004399	-.009428	.020234	.016250
29	-.005083	-.003413	-.012516	-.005168	.009881	.017046
30	.003074	-.003523	-.016611	.004314	-.010738	.023603
31	.016660	.002113	-.021366	.006691	-.026537	.027714
32	.024344	.002338	-.022635	.009047	-.032770	.024034
33	.027853	-.002539	-.021098	.013985	-.033346	.024020
34	.032185	-.004058	-.018389	.006259	-.025967	.022074
35	.040507	-.005035	-.013327	.003854	-.018812	.020088
36	.047114	.000388	-.008584	.010683	-.017238	.015618
37	.046301	.005383	-.008871	.004596	-.014106	.015713
38	.038079	.010255	-.012337	-.002125	-.020024	.011441
39	.030700	.012162	-.015723	-.008435	-.026218	.001379
40	.029698	.017749	-.017056	-.003909	-.022961	-.003506
41	.027690	.017737	-.016188	.005160	-.017934	.004646
42	.027077	.015830	-.019154	.017182	-.019954	.002133
43	.026441	.015007	-.014142	.018476	-.019457	.000358
44	.021627	.013175	-.008998	.018647	-.020319	.003511
45	.019045	.012487	-.014789	.012317	-.020506	.006434
46	.020257	.009720	-.022973	.019401	-.019187	.006415
47	.013619	.004589	-.023036	.018322	-.017625	.006294
48	.007262	.005793	-.024967	.006392	-.012320	.014242
49	-.000424	.005993	-.022367	-.003645	-.008089	.010507
50	-.009066	-.000156	-.015149	-.014077	.001971	-.005632
51	-.013387	-.002758	-.011285	-.016166	.011287	-.013288
52	-.010803	-.001256	-.006869	-.012945	.006456	-.012634
53	-.001697	.006358	-.007346	-.005683	-.004441	-.012523
54	.007481	.012231	-.007157	-.002205	-.009424	-.013392
55	.005727	.015494	-.005468	.001416	-.010864	-.006294
56	.001914	.013989	-.005802	-.001739	-.009267	-.004581
57	-.001243	.009639	-.008692	-.006401	-.001843	.006103
58	.002141	.003053	-.011223	-.008033	-.000972	.007865
59	.001723	-.003296	-.015876	-.005202	-.006376	.005787
60	-.005144	-.010715	-.016780	-.002744	-.010108	.006908

RUN NO. 67A 16M 05-10-62 0234-0350 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVIARIANCE

M	U	V	W	T
	0.69534 10E 00	0.36551 10E 00	0.19124 10E 00	0.18427 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.832393	.710620	.584291	.792222
2	.627019	.399931	.249503	.532026
3	.473009	.210280	.110032	.359473
4	.361865	.110648	.044925	.248416
5	.273591	.070558	-.016870	.170148
6	.203749	.041011	-.052968	.118541
7	.144226	.003186	-.084052	.071984
8	.084685	-.045924	-.104216	.043808
9	.026557	-.089110	-.106421	.011480
10	-.025229	-.110319	-.108653	-.016357
11	-.073162	-.109356	-.116163	-.047807
12	-.110581	-.114600	-.098766	-.085713
13	-.144784	-.129917	-.085410	-.128530
14	-.169037	-.147765	-.077878	-.149537
15	-.187720	-.140832	-.055327	-.152193
16	-.204782	-.130053	-.031773	-.155974
17	-.228827	-.134120	-.038756	-.171242
18	-.248577	-.136512	-.045398	-.188807
19	-.264919	-.131562	-.055553	-.204928
20	-.275921	-.121118	-.075745	-.216084
21	-.275558	-.115186	-.089367	-.224675
22	-.271913	-.111047	-.102254	-.226136
23	-.261983	-.108728	-.107888	-.214478
24	-.251212	-.112036	-.103351	-.209557
25	-.240667	-.115444	-.080202	-.205805
26	-.226830	-.110366	-.071042	-.207011
27	-.213348	-.102152	-.088768	-.204648
28	-.201403	-.091244	-.079821	-.193174
29	-.192166	-.060322	-.060654	-.170074
30	-.181564	-.026967	-.041107	-.137727
31	-.165171	.004461	-.001183	-.093810
32	-.141771	.019675	-.016796	-.070857
33	-.113955	.022372	.035855	-.056350
34	-.090857	.026359	.049974	-.048309
35	-.064500	.020421	.051821	-.045711
36	-.034584	.002927	.031956	-.042940
37	-.010715	-.010162	.024702	-.044647
38	.000867	-.017537	.022746	-.042656
39	.014925	-.023799	.043328	-.017079
40	.030091	-.022058	.034720	.012992
41	.051558	-.015747	.032490	.035600
42	.080893	-.002251	.023342	.058050
43	.103072	.003524	.024179	.080364
44	.109952	.011213	.018746	.097413
45	.102200	.032183	.025728	.101928
46	.103704	.043515	.023115	.083421
47	.111970	.063633	.026169	.069587
48	.124416	.078763	.027849	.081169
49	.132709	.086216	.043936	.105258
50	.137612	.086119	.058101	.124966
51	.125422	.072441	.042570	.126838
52	.108298	.056013	.008884	.109204
53	.085745	.049232	-.015221	.076052
54	.073398	.052177	-.022837	.046215
55	.062033	.040424	-.025780	.031472
56	.046456	.037692	-.028983	.024910
57	.034625	.032837	-.016791	.025227
58	.030159	.015277	-.006510	.028325
59	.028024	-.009397	-.002096	.038763
60	.022124	-.031561	.009606	.047420

RUN NO. 67A 16M 05-10-62 0234-0350 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-03	10E-02
0	.044913	-.003650	.004731	-.009904	.063161	-.003575
1	.129747	-.108163	.083861	-.098530	.119804	-.159162
2	-.307593	-.211371	.127614	-.050982	-.568345	-.289427
3	-.743560	-.262570	.130224	.073459	-.913047	-.341393
4	-.647270	-.175904	.077050	.160557	-.466651	-.231767
5	-.423203	-.126017	.051038	.138571	-.271732	-.165109
6	-.240768	-.120703	.038613	.050373	.027803	-.144803
7-8	-.156423	-.082991	.027428	.013863	.157927	-.149351
9-11	.027653	-.048871	.020478	-.025194	.132825	-.100010
12-15	.040798	-.045810	.012525	-.028069	.119192	-.080839
16-20	.013762	-.019872	.005150	-.013353	.039917	-.039371
21-27	-.067046	-.012351	.003052	.015833	-.038101	-.031644
28-36	-.019348	-.006630	.001594	.025974	.000357	-.018776
37-47	-.004388	-.002689	.000442	.009750	-.015164	-.011261
48-60	-.001849	-.002385	.000245	-.003675	.004571	-.006246

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-02
1	-.380913	-.007712	.307145	.019800	.828057	-.068528
2	-.631174	-.058754	.355420	-.004945	.979161	-.108494
3	-.237656	-.005987	.326363	.055269	.315864	-.127472
4	.378717	-.027358	.188746	.101241	-.534558	-.077431
5	.275049	-.146660	.097737	.063184	-.400059	-.033698
6	.082459	-.187279	.082997	.028439	.028227	-.031419
7-8	.055322	-.203270	.101283	.017802	.151292	-.040291
9-11	-.165497	.013021	.052177	.050830	.214633	-.028643
12-15	.070149	-.058843	.041711	.021318	.102002	-.024386
16-20	.030009	-.015631	.011166	.049506	-.027476	-.020605
21-27	-.006311	-.012232	.009213	-.002076	.055397	-.012563
28-36	.014930	-.004141	.002112	.018043	-.041232	-.004057
37-47	-.001201	.000469	.000966	-.004715	-.011996	-.005088
48-60	.003017	-.009918	.000064	-.002140	-.000153	.000067

POWER SPECTRUM

K	U	V	W	T
	10E-00	10E-01	10E-01	10E-02
0	.004165	.011213	.002535	.008852
1	.073343	.174552	.047709	.160657
2	.113907	.290945	.094778	.248388
3	.120051	.374073	.134795	.262597
4	.072163	.320276	.111925	.163114
5	.046658	.242805	.094300	.109562
6	.036710	.201170	.111022	.093262
7-8	.026659	.184389	.111180	.083242
9-11	.018511	.124663	.066351	.060339
12-15	.013037	.099724	.055934	.047550
16-20	.008484	.084925	.042286	.026753
21-27	.005118	.049897	.035679	.018925
28-36	.003264	.030282	.026613	.011389
37-47	.001927	.020629	.018578	.006434
48-60	.001341	.013289	.012586	.003721

RUN NO. 67A 16M 05-10-62 0234-0350 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
	0.27150 10E 00	0.16013 10E 00	0.75365 10E-01	0.89204 10E-01	0.41984 10E-01	0.24761 10E-01
0	-.051219	-.503932	.744820	-.007955	-.010714	-.462058
1	-.002203	-.042632	.277237	.007122	-.024033	-.055869
2	.020870	.088321	.032509	-.010468	.019589	.063188
3	-.022313	.041952	-.020762	.048491	.002246	.036458
4	-.017295	-.011351	-.013822	-.001719	-.030442	.005166
5	-.018438	-.060238	.055829	.010723	-.049907	-.054192
6	-.016000	-.003620	-.023261	-.002235	-.006404	-.064978
7	.020592	.025439	-.076671	-.009834	-.000807	.013591
8	-.050697	.009470	-.111390	-.005431	-.063115	.012364
9	-.014033	.118295	-.128551	-.016106	.023444	.097527
10	.065617	.026300	-.118856	-.064492	.081419	.046487
11	.030233	.002594	-.061193	-.003888	.023490	.041303
12	.043861	.020588	-.024495	-.066958	.054144	.017703
13	-.008606	-.009629	-.064059	.056977	-.042277	.020407
14	-.007199	.031062	-.081749	.050034	-.008869	.043260
15	.025883	.069671	-.100806	-.007300	.036656	.071547
16	.029288	-.043701	-.076070	.017663	.035445	.004171
17	-.004530	.050072	-.087336	-.037199	.016417	.060277
18	-.014399	.075154	-.097263	.030894	-.043073	.090620
19	-.001340	.036144	-.031917	.031525	.019035	.019382
20	-.010240	.000979	.019520	-.013278	-.012205	-.000422
21	.005673	-.052625	.042953	.044245	.029153	-.020778
22	.003083	.029130	.028263	.020238	.029728	.018715
23	.021688	.009863	-.026662	.025043	-.006857	.028081
24	-.004662	.051273	-.027409	-.001342	.028703	.006013
25	.049745	.019970	.058100	-.032179	.046927	-.035332
26	.002341	-.127478	.103743	-.035591	-.036910	-.136928
27	-.071794	-.063938	.090541	.018851	-.059042	-.053377
28	.049508	.046090	.038151	-.071997	-.007064	-.000850
29	.022049	-.086540	.056488	-.042180	-.001382	-.087655
30	.002380	-.040953	.052906	.010782	-.005821	-.036645

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	-.000019	.000272	.011588	.015735	-.000266	.014672
1	-.159030	-.262673	.356512	-.113275	-.319492	-.519019
2	-.203253	-.362620	.510435	.192059	-.360238	-.734744
3	-.144371	-.331729	.500969	.738923	-.202296	-.524835
4	.050174	-.274302	.371228	.449574	.092117	-.273519
5	.180445	-.237844	.332722	-.194201	.374769	-.253940
6	.095128	-.149305	.256760	-.670759	.341198	-.173947
7	-.020387	-.121180	.164779	-.673202	.128234	-.202904
8	-.109915	-.273116	.216348	.119158	-.149318	-.493511
9-11	.001706	-.529492	.349214	-.228122	-.142383	-.836494
12-14	-.175541	-.445590	.249398	.053392	-.259294	-.567150
15-21	-.105646	-.352008	.153131	.110011	.059249	-.484460
22-30	-.034659	-.398909	.154699	-.159994	.062917	-.512446

RUN NO. 67A 16M 05-10-67 0234-0250 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
	0.27150 10E 00	0.16013 10E 00	0.75365 10E-01	0.89204 10E-01	0.41984 10E-01	0.24761 10E-01
1	-.055344	-.001348	.145661	-.024385	.050636	-.131333
2	-.064981	.008916	.121021	.002128	.071695	-.073701
3	.048036	.015518	.074401	-.010363	-.022184	-.015953
4	.076466	.050280	.041853	.031158	-.062857	-.017144
5	.024032	.039766	.040532	-.007091	-.038624	-.057598
6	.002877	.001361	.015838	-.037687	-.021209	-.043344
7	-.006858	-.008723	.027707	.018857	.011657	-.040556
8	-.016797	-.044742	.034364	-.070776	.052425	-.007572
9	-.011334	.009341	-.007547	-.042642	.009101	.023286
10	.080392	-.029054	.008615	.063002	-.089435	.022508
11	.004080	.000574	-.025404	.004791	.013410	-.009361
12	-.056252	.065201	-.018165	.024390	.057253	-.043917
13	-.085533	-.000851	.013814	-.027479	.059694	-.038587
14	-.059466	.044255	-.015724	-.003880	.048403	-.046626
15	.089219	.016280	-.000627	.055365	-.064954	-.036421
16	.035319	-.007874	-.029359	.017280	-.023214	.009988
17	-.042839	.006437	-.058286	.025274	.048480	.032516
18	-.067921	-.014013	-.037477	.002220	-.000321	.019650
19	.002461	.022044	-.038644	.003211	.011671	.027215
20	.028136	.032870	-.036596	-.031613	-.045449	.043453
21	.000795	-.090318	.060280	-.015611	-.014966	.021480
22	.034504	-.007283	.050094	.043273	-.036978	.018358
23	.024456	.023820	.012218	-.022446	-.024053	-.011821
24	.016156	-.018615	-.037175	-.040638	.011038	.042827
25	.065121	-.026938	-.050265	-.010613	-.034605	.079615
26	.015357	-.022917	.028851	.036135	-.007614	.021477
27	.013082	.009094	.016052	.021123	-.028363	-.025370
28	.037013	-.009791	-.033067	-.019677	-.035126	.067730
29	-.058962	-.068643	-.002466	-.007907	.056847	.033479
30	-.006321	-.011862	-.012509	.024634	.010361	.065807

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	-.026823	.101218	.052403	.028342	.054511	-.374833
2	.069457	.060528	.126251	-.317405	-.000880	-.409952
3	.248586	.006207	.182290	-.586323	-.278883	-.263121
4	.147302	.076900	.143329	-.109661	-.233450	-.247677
5	-.010318	.182231	.123526	.434467	.065769	-.420907
6	-.089152	.155796	.145023	.364827	.188041	-.353311
7	-.113117	.034121	.101262	.239735	.207272	-.048984
8	.004730	-.096147	.089286	.095710	.202153	.037344
9-11	-.524103	-.090195	.118992	-.695670	.846875	-.322661
12-14	-.114165	-.021985	.066567	.175738	-.025424	-.331680
15-21	-.002297	.016324	.045610	.077252	-.027580	-.172562
22-30	.036204	-.012729	.011128	-.522831	-.021969	-.055709

RUN NO. 67A 16M 05-10-62 0234-0350 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.48738 10E 00	0.15125 10E 00	0.52611 10E-01	0.11654 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.310142	-.001129	-.068551	.357454
2	-.005930	-.112935	-.152897	.049013
3	-.054134	-.034991	-.020700	.012027
4	-.040675	-.177156	-.035872	.000543
5	.044113	.063743	.000437	.081670
6	-.058013	-.062183	.011159	.013280
7	-.129828	-.059761	-.105459	-.082136
8	-.158088	-.101158	.112125	-.140274
9	-.178882	.003576	-.112093	-.154866
10	-.138074	.034340	.034692	-.142308
11	-.042814	-.106829	-.058387	-.116100
12	-.042232	.059815	-.066454	-.069672
13	-.050979	-.009520	-.003145	-.089866
14	-.085734	-.137121	-.048461	-.121862
15	-.056061	.017693	-.108924	-.187205
16	.023336	.002331	.124860	-.181322
17	-.027032	.072686	-.093484	-.171110
18	-.087239	.017463	-.001721	-.103444
19	-.016386	-.009551	.026817	-.032371
20	.064066	-.018719	-.066620	-.013664
21	.104414	-.032621	.065271	.004107
22	-.007321	.104751	.009154	.047276
23	-.086962	-.037914	-.058974	-.033280
24	-.061096	.006214	.049095	-.014419
25	.047041	-.004768	-.047996	.097951
26	.104561	-.000127	.132319	.134282
27	.097199	.108170	.020604	.113356
28	-.003281	-.066963	-.129110	.095991
29	.029043	-.023694	.034210	.115338
30	.070365	.021113	.025772	.057863

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.007615	.003246	.005394	.002582
1	.193864	.148263	.093262	.087831
2	.320392	.322770	.133121	.118744
3	.412173	.518695	.142961	.102210
4	.359004	.554559	.113957	.065088
5	.272309	.558036	.117832	.061539
6	.212074	.630571	.154822	.050913
7	.162686	.663730	.191129	.032181
8	.186057	.562807	.195289	.041232
9-11	.295828	.732386	.210076	.069394
12-14	.225825	.729985	.263678	.052096
15-21	.150750	.669411	.271224	.034246
22-30	.155789	.888601	.340017	.032643



RUN NO. 67A 40M 05-10-67 0234-0350 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.62 M/SEC	WIND DIRECTION	291 DEG
STABLE	SIGMA A	5.6 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.8 DEG	NET RADIATION	-0.17

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.69745E 00	0.65374E 00	0.56944E 00	0.34754E-00
V	0.52954E 00	0.43325E-00	0.40237E-00	0.15241E-00
W	0.24507E-00	0.24538E-00	0.23502E-00	0.59691E-01
T	0.28033E-01	0.20890E-01	0.18464E-01	0.10678E-01
E	0.73603E 00	0.66622E 00	0.60342E 00	

GUSTINESS RATIOS

U	0.10960	0.10611	0.09903	0.07737
V	0.09550	0.08638	0.08324	0.05123
W	0.06497	0.06501	0.06362	0.03206

COVARIANCES

U,V	0.28650E-01	0.18141E-01	0.10172E-01	0.88234E-02
U,W	-0.17926E-00	-0.17589E-00	-0.16571E-00	-0.71424E-01
U,T	0.79525E-01	0.72629E-01	0.60815E-01	0.45207E-01
V,W	-0.15628E-01	-0.75755E-02	-0.85270E-02	0.37775E-03
V,T	-0.14759E-01	0.61405E-02	0.33834E-02	0.19556E-02
W,T	-0.29478E-01	-0.30731E-01	-0.29221E-01	-0.10818E-01
WE	0.29972E-01	0.28852E-01	0.24702E-01	

NORMALIZED COVARIANCES

U,V	0.04714	0.03409	0.02125	0.03834
U,W	-0.43359	-0.43916	-0.45296	-0.49589
U,T	0.56873	0.62150	0.59309	0.74211
V,W	-0.04338	-0.02323	-0.02773	0.00396
V,T	-0.12113	0.06454	0.03925	0.04848
W,T	-0.35565	-0.42922	-0.44358	-0.42849

RUN NO. 67A 40M 05-10-62 0234-0350 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.47870 10E 00	0.36591 10E 00	0.10254 10E 00	0.30758 10E 00	0.86197 10E-01	0.65888 10E-01
0	.021274	-.452898	.592989	-.027687	.039167	-.443677
1	.019490	-.368870	.538583	-.014950	.025464	-.336863
2	.018974	-.239436	.430411	-.005235	.010757	-.191583
3	.004305	-.138212	.325156	-.003941	.006193	-.095096
4	-.010475	-.083277	.238885	-.002842	-.001930	-.034791
5	-.019292	-.054455	.169952	-.000465	-.015377	-.003479
6	-.024570	-.030361	.115218	.012991	-.034969	.005516
7	-.030839	-.012984	.063987	.024461	-.054662	.006178
8	-.034862	.004390	.020619	.026096	-.070172	.013966
9	-.030667	.021135	-.018943	.023175	-.068146	.028344
10	-.020070	.036062	-.046746	.003053	-.048841	.040068
11	-.015514	.048035	-.066118	-.001981	-.036041	.051066
12	-.010112	.053294	-.082417	.003243	-.024928	.059962
13	-.005574	.062374	-.097675	.011061	-.017525	.065901
14	-.003587	.068587	-.110032	.015576	-.011261	.067107
15	.005700	.065414	-.114416	-.011406	.000199	.061951
16	.025172	.069915	-.117904	-.004375	.016452	.053465
17	.027714	.081233	-.124802	-.023482	.039056	.047780
18	.020654	.083481	-.128598	-.026716	.052684	.041056
19	.018405	.085842	-.129801	-.022133	.054254	.037165
20	.021472	.086184	-.132294	-.019563	.052187	.043213
21	.023798	.084214	-.138240	-.013328	.047714	.049041
22	.023179	.084761	-.144044	-.011942	.040894	.057443
23	.017040	.096593	-.154697	-.004413	.034704	.066065
24	.011460	.099653	-.163163	-.000882	.027785	.078983
25	.007468	.092191	-.161346	.003507	.026521	.090764
26	-.005379	.086053	-.156539	.006663	.023321	.086941
27	-.015064	.082329	-.149564	.016516	.017466	.075945
28	-.008152	.080245	-.141151	.021492	.013590	.060310
29	.001792	.065575	-.121667	.002424	.018461	.029049
30	-.010836	.030523	-.099086	-.015988	.017853	-.000207
31	.006180	-.002509	-.075292	-.021079	.015113	-.023606
32	.002475	-.020614	-.055592	-.015761	.011636	-.030347
33	.003974	-.018430	-.044951	-.010927	.008229	-.017457
34	.001518	-.006406	-.037862	-.007691	.006599	-.003677
35	-.001969	.005332	-.031047	-.003776	.002445	-.010039
36	-.005923	.006957	-.018874	-.007302	-.000743	-.023198
37	-.005016	-.000258	.002171	-.007550	-.000721	-.026584
38	-.001210	-.007961	.022726	-.007692	.002604	-.026173
39	-.006139	-.011076	.036871	.004400	.005231	-.021030
40	-.009605	-.018569	.041701	.006400	-.003858	-.015093
41	-.007175	-.031468	.046291	.001959	-.013264	-.025639
42	-.004445	-.048720	.052877	.003845	-.018748	-.037381
43	.005410	-.052674	.058844	.011797	-.022478	-.042633
44	.016692	-.051622	.058928	.026998	-.024803	-.037179
45	.019475	-.048728	.059981	.023122	-.020819	-.039568
46	.014373	-.038888	.058791	.022549	-.018652	-.034161
47	.008933	-.031620	.057035	.025263	-.018344	-.024528
48	.016314	-.038213	.056014	.004415	-.011946	-.012860
49	.019581	-.042519	.054283	-.002702	-.005180	-.006180
50	.014120	-.037786	.051633	.001843	.003026	.005075
51	.006915	-.038075	.046772	.007747	.007309	.018284
52	.006435	-.039571	.039542	.015495	.007365	.018695
53	.006183	-.031340	.028546	.018532	.000242	.010478
54	.002287	-.017143	.016392	.011902	-.006633	.004024
55	.001691	-.000470	.004575	-.004906	-.008403	-.004138
56	.000012	.014078	-.009705	-.014301	-.008473	-.000201
57	-.001369	.024453	-.020629	-.014151	-.010011	.005337
58	-.011663	.031422	-.030374	-.007417	-.014150	.008180
59	-.022418	.041092	-.041608	.001270	-.018993	.016435
60	-.025012	.049576	-.055494	-.003828	-.023054	.026702

RUN NO. 67A 40M 05-10-62 0234-0350 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.47870 10E 00	0.36591 10E 00	0.10254 10E 00	0.30758 10E 00	0.86197 10E-01	0.65888 10E-01
1	.010483	.003279	.033470	-.002729	.008717	-.035830
2	.014338	.016853	.043392	-.004561	.017444	-.033713
3	.009007	.017824	.048365	-.017534	.020973	-.024587
4	-.001200	.008053	.057421	-.031463	.019526	-.016996
5	-.014865	-.006051	.064390	-.034095	.017801	-.014531
6	-.023348	-.014125	.070460	-.042277	.014087	-.007765
7	-.020603	-.026917	.077349	-.045162	.006095	-.003487
8	-.014288	-.027094	.082056	-.033729	-.005734	-.004999
9	-.013232	-.019349	.082735	-.027904	-.016813	-.013502
10	-.018278	-.000058	.075647	-.027965	-.018546	-.022848
11	-.022690	.015600	.065242	-.017783	-.012283	-.019443
12	-.021115	.019878	.054495	-.007923	-.005942	-.014390
13	-.024979	.017812	.044561	-.004794	-.002908	-.009412
14	-.030320	.013654	.035154	.001712	.002730	-.002766
15	-.036439	.004344	.031639	.000087	.011320	-.003831
16	-.046972	-.004818	.029286	-.001241	.015337	.001012
17	-.054179	-.015315	.022997	-.009846	.012803	.009547
18	-.050690	-.025590	.018410	-.022454	.016028	.019791
19	-.045753	-.035634	.013179	-.035884	.028287	.026298
20	-.040636	-.031206	.005173	-.032014	.038369	.026125
21	-.030862	-.022116	.001479	-.013006	.039949	.020445
22	-.023180	-.008711	-.004868	.003568	.033958	.014936
23	-.014121	-.002566	-.006713	.014182	.027484	.010959
24	-.000119	.005934	-.006107	.019222	.024545	.008214
25	.012170	.020211	-.004792	.022365	.021185	.004070
26	.022115	.029243	.000537	.024462	.008562	.003597
27	.035489	.025770	.004737	.012477	-.003934	.003835
28	.037071	.019361	.006682	.005649	-.012922	-.004241
29	.032617	.007043	.010588	.008723	-.021847	-.005502
30	.032600	-.006937	.014593	.020973	-.035704	.002884
31	.037419	-.008374	.014204	.025799	-.045687	.008430
32	.031639	-.009727	.014331	.023380	-.040675	-.001621
33	.028115	-.004609	.014880	.030674	-.024798	-.016052
34	.024161	.001390	.007671	.023383	-.004886	-.021278
35	.008791	.008417	-.004961	.015370	.013475	-.013259
36	-.009102	.018001	-.021450	.010833	.023713	-.003535
37	-.025481	.020683	-.031315	-.002378	.036872	.002687
38	-.034533	.018370	-.031242	-.021935	.049158	-.000881
39	-.037676	.016679	-.033129	-.038882	.052906	-.008242
40	-.033197	.015982	-.039810	-.049272	.045552	-.010952
41	-.027137	.014772	-.045567	-.043396	.032135	-.019153
42	-.017729	.013113	-.042489	-.035936	.022091	-.025581
43	-.000292	.008988	-.034412	-.030877	.017813	-.024859
44	.009887	.004259	-.020556	-.014637	.014318	-.023600
45	.011693	.000395	-.005546	-.001873	.011815	-.022918
46	.012700	-.002155	.003246	.000436	.009936	-.018818
47	.017750	.000959	.006087	.000905	.001673	-.011353
48	.015481	.002664	.003910	-.001217	-.009111	.003260
49	.009677	-.008864	.002466	-.012180	-.014531	.016787
50	.008936	-.017181	.001469	-.005387	-.024459	.026855
51	.019211	-.020947	.001725	.014530	-.037209	.025902
52	.040113	-.020154	.000971	.036723	-.048663	.022814
53	.051647	-.018509	.003483	.038323	-.053297	.015014
54	.059940	-.020307	.007237	.044222	-.054128	.002781
55	.055608	-.021484	.008738	.049052	-.058072	-.001197
56	.047853	-.017584	.007975	.037300	-.053917	.001174
57	.043759	-.013184	.002230	.021378	-.041422	.004192
58	.039111	-.007528	-.002108	.014783	-.033463	.009841
59	.034399	-.005111	-.005115	.016438	-.036084	.013612
60	.025594	-.005136	-.011099	.023058	-.037339	.011207

RUN NO. 67A 40M 05-10-62 0234-0350 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.56948 10E 00	0.40238 10E 00	0.23511 10E 00	0.18465 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.820434	.693527	.604745	.825245
2	.602934	.363734	.238537	.584496
3	.440464	.186408	.054964	.405383
4	.321688	.072498	-.047736	.268703
5	.231296	.020636	-.077175	.164342
6	.155424	-.025259	-.082177	.093421
7	.089878	-.057631	-.063289	.038367
8	.028975	-.069245	-.043490	-.012619
9	-.026625	-.075960	-.036218	-.060832
10	-.061174	-.097064	-.046420	-.096060
11	-.082271	-.114429	-.053741	-.122086
12	-.099413	-.119560	-.060342	-.145308
13	-.117852	-.125866	-.070104	-.166718
14	-.129331	-.136911	-.091488	-.185196
15	-.154180	-.144380	-.092401	-.189689
16	-.180101	-.132784	-.089883	-.176813
17	-.203123	-.102805	-.087458	-.163701
18	-.218271	-.086623	-.073800	-.155109
19	-.224749	-.094409	-.063816	-.153585
20	-.226419	-.118343	-.069739	-.155541
21	-.231539	-.133844	-.068226	-.162690
22	-.229397	-.126640	-.058080	-.179001
23	-.224542	-.106942	-.063638	-.190967
24	-.224218	-.087090	-.078634	-.201382
25	-.218936	-.065150	-.077918	-.205008
26	-.206685	-.051406	-.092582	-.197387
27	-.196695	-.065120	-.106454	-.184765
28	-.194802	-.070501	-.111291	-.158614
29	-.179453	-.051897	-.085406	-.122789
30	-.142423	-.026505	-.022930	-.091188
31	-.098433	.006876	.026136	-.063291
32	-.069069	.037240	.039450	-.041849
33	-.055690	.056183	.028234	-.025972
34	-.052568	.052129	.010042	-.018473
35	-.046906	.040297	.022323	-.006844
36	-.029970	.029515	.033300	.009651
37	-.004108	.007510	.029826	.025275
38	.019204	-.005153	.013205	.040249
39	.032553	.001890	-.007919	.048747
40	.044139	-.001442	-.008896	.052767
41	.053624	-.006014	.025063	.062083
42	.062813	-.001315	.059826	.062650
43	.072362	-.004640	.079922	.064343
44	.075108	-.025194	.084234	.068459
45	.069720	-.030419	.079584	.072447
46	.055480	-.010271	.062640	.070256
47	.055104	.000575	.030164	.063749
48	.062105	.011488	.019019	.046724
49	.062903	.019477	.029318	.030974
50	.065030	.034197	.034615	.021849
51	.060479	.034954	.015881	.016039
52	.052826	.033045	.008861	.012532
53	.042006	.035821	.008022	.014035
54	.023001	.041293	.009999	.015283
55	.004313	.056738	.012349	.011468
56	-.013896	.059791	.009673	-.002371
57	-.026743	.052502	.006374	-.015053
58	-.038505	.050450	.001677	-.023932
59	-.060659	.038168	-.013848	-.037884
60	-.072917	.011709	-.021445	-.054358

RUN NO. 67A 40M 05-10-62 0234-0350 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	.007716	-.005795	.005412	-.004578	.005295	-.008866
1	-.140123	-.102180	.067515	.009339	-.046653	-.122365
2	-.202536	-.185427	.100583	.073222	-.103329	-.231907
3	-.217347	-.229511	.109602	.050863	-.085785	-.320311
4	-.030628	-.156026	.068634	-.042416	.030829	-.236562
5	.280640	-.102648	.047667	-.078705	.112214	-.168664
6	.410079	-.095340	.045017	-.185241	.138353	-.187881
7-8	.337879	-.093113	.031877	-.145807	.088058	-.175543
9-11	.087797	-.058283	.015600	-.012263	.007080	-.100804
12-15	.026010	-.045509	.009632	-.023569	-.005057	-.104954
16-20	-.020710	-.031166	.005690	.025857	-.001568	-.064731
21-27	-.011958	-.016699	.002418	-.037621	.010243	-.031418
28-36	-.014476	-.006871	.001000	-.016233	.004747	-.020639
37-47	.004403	-.003293	.000462	-.007409	.002346	-.011258
48-60	.009567	-.002531	.000110	-.004860	.000963	-.005352

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	-.477773	-.002840	.179556	-.150675	.704591	-.040098
2	-.580503	-.107919	.229651	-.204376	.293683	.013939
3	-.564036	-.088184	.222874	-.360103	.137731	-.286435
4	-.062238	.050685	.178804	-.258152	-.184424	-.547124
5	.522811	.046519	.159239	-.023929	-.592329	-.355541
6	.253426	-.001489	.065975	-.144265	.319616	-.153442
7-8	-.170113	-.165843	.015327	-.158082	.710894	.058001
9-11	.075011	.195765	.001410	.063157	.221070	-.202790
12-15	.116435	.102219	.010903	.009111	-.006835	-.203177
16-20	.072932	-.024002	.014468	.037626	-.015471	-.099354
21-27	-.018248	-.004428	.006564	-.001445	.032347	-.094637
28-36	.010139	-.021462	.007046	.011273	-.025480	-.056645
37-47	-.003829	-.008852	.003009	-.015885	-.007902	-.024022
48-60	-.001350	-.009429	.000312	.000199	.000978	-.018367

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.041247	.007429	.002573	.011134
1	.555096	.149297	.054416	.143126
2	.819157	.259915	.113703	.223374
3	.894924	.368369	.157320	.266737
4	.572859	.341505	.124077	.190184
5	.375807	.253201	.103740	.138558
6	.335543	.224734	.112556	.132662
7-8	.272429	.213705	.111155	.098954
9-11	.175039	.154279	.105216	.054694
12-15	.097081	.130607	.089236	.043125
16-20	.078792	.082805	.061623	.025241
21-27	.044607	.059819	.039749	.013720
28-36	.028102	.035905	.028367	.009577
37-47	.016945	.025692	.021320	.005127
48-60	.011858	.014108	.012768	.002558

RUN NO. 67A 40M 05-10-62 0234-0350 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
	0.23008 10E 00	0.14402 10E 00	0.60321 10E-01	0.95362 10E-01	0.40337 10E-01	0.25250 10E-01
0	.038349	-.495919	.742061	.003961	.048481	-.428427
1	.002102	-.065815	.194599	.010689	-.005175	-.024253
2	.028948	.084769	-.018516	.009753	.082861	.047250
3	.020315	.032304	-.091405	-.024127	.050416	.015475
4	-.015098	.012920	-.065023	.003934	-.028983	-.002941
5	-.003565	.017160	-.078252	.068354	-.055694	.068451
6	-.017999	.067469	-.102606	-.052851	-.038257	.046311
7	.001147	.031907	-.032729	-.014102	-.014436	.027145
8	-.024512	.013569	.018921	.037554	-.022412	-.008912
9	.006886	.035576	.022859	-.030194	.012986	.020172
10	.035331	-.025793	.000366	-.050373	.048983	-.046915
11	.004983	.005063	-.048883	-.021866	-.015895	.018098
12	-.042462	-.044276	-.063200	.039170	-.092147	.026083
13	-.097192	-.009717	-.002620	.055001	-.075854	-.017755
14	.043866	.088290	-.027514	-.054281	.020302	.043710
15	.006346	.028799	-.054656	.013756	.004278	.028413
16	.029420	.001064	-.001653	-.010142	.058980	-.022033
17	-.030394	.008781	.048753	.041189	-.008197	.037707
18	.003993	.042997	.004771	.005923	.058804	.038584
19	-.036242	-.018311	-.038921	-.055127	-.007473	-.056349
20	-.036662	-.018517	-.078653	-.010088	-.029269	-.008419
21	.036036	-.016289	-.094079	.035308	-.017291	-.017966
22	.060057	.017118	-.032646	.009479	.055611	-.010811
23	.045987	.001188	-.040815	.009756	.059944	.048458
24	-.019089	.044386	-.045657	.020713	-.029664	.062122
25	.037128	-.008717	.033159	-.023668	.032186	-.041125
26	-.008227	-.023711	.045169	.002155	-.012174	-.014988
27	-.027814	.018645	-.084728	.061072	-.004019	.038766
28	-.002817	-.041022	.025158	-.051925	.015189	-.019489
29	-.042376	-.066108	.047155	.025987	-.074957	-.063245
30	-.053187	-.027152	.084936	.015486	-.043692	-.033894

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	-.001582	-.008954	.014730	.008545	-.008516	-.013258
1	.050910	-.153531	.178532	.008156	.027340	-.216257
2	.133538	-.208060	.186820	.150320	.293747	-.293843
3	.130686	-.250811	.209577	.313885	.534491	-.374416
4	.046446	-.293124	.258725	.319333	.368174	-.413633
5	.074355	-.387952	.267944	.085394	.202365	-.530373
6	.075748	-.425697	.304319	-.390007	.348722	-.661978
7	.130300	-.300637	.360434	-.426680	.577457	-.538021
8	.109574	-.210384	.286783	-.005157	.186596	-.386856
9-11	-.106002	-.352939	.190785	.327198	-.519829	-.334731
12-14	-.009428	-.373621	.222481	.313629	-.236318	-.508701
15-21	.015501	-.351274	.145971	-.534928	.609030	-.562500
22-30	.089006	-.286497	.162920	.293235	.325184	-.543610

RUN NO. 67A 40M 05-10-62 0234-0350 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
	0.23008 10E 00	0.14402 10E 00	0.60921 10E-01	0.95362 10E-01	0.40337 10E-01	0.25250 10E-01
1	-.062570	.000859	.114289	-.075610	.031832	-.018706
2	-.046293	-.017664	.059305	-.015286	.056255	.012794
3	.102976	-.002044	.062374	.058534	-.059107	-.003086
4	-.003925	.009741	.009462	-.035262	.048907	-.054138
5	.071917	-.011601	-.003371	.099438	-.088416	-.008967
6	.066254	-.011105	-.029719	.044410	-.086525	.001840
7	-.079007	.000956	-.026113	.007575	.042540	-.019264
8	-.054053	.033303	.006279	.001158	.047664	-.060397
9	-.016731	-.028062	.049421	-.040598	-.001471	-.022455
10	.069659	.025999	.026086	-.006159	-.032267	-.015256
11	.013053	-.017758	-.011731	.040339	-.016085	.062739
12	-.016520	-.029465	-.006673	-.014610	.003884	.006768
13	-.057146	.006756	-.011458	-.064694	.010792	-.073744
14	-.044080	.014139	-.001445	-.016692	.016081	-.039973
15	.037386	.009487	-.023427	.030948	-.011077	.040053
16	-.032528	-.017102	-.027904	-.084204	.042547	.031245
17	.016592	-.000029	-.002052	-.020315	.008484	.004067
18	-.013592	.019446	.003714	-.022186	.001231	.017534
19	-.013064	-.003775	-.025655	-.059008	-.011218	.089073
20	.063957	-.026907	.023811	.027209	-.043879	.043758
21	.037456	-.046444	.015651	.022925	-.062670	.032072
22	.030360	-.006851	-.020217	.043477	-.034849	-.005809
23	-.028997	.025792	.016434	-.024815	.070474	-.047950
24	-.037338	.005456	-.007123	-.014894	.050131	-.029173
25	-.025226	-.006057	-.012993	.022614	-.000664	.005154
26	.002774	-.002998	.008339	.055712	.022011	.002945
27	.046920	.033742	.004954	.077860	-.038983	-.009629
28	.030284	.048877	.024647	.039450	-.048799	-.050321
29	-.039812	-.032463	-.022309	-.013813	.021669	.039338
30	-.035877	.010802	-.056093	.038883	.017733	-.006894

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-02	10E-02	10E-03	10E-03
1	-.003109	-.297735	.015148	-.032606	-.117536	-.123476
2	.042780	-.026458	.036029	.055287	-.155433	-.266803
3	.179877	-.093238	.054451	.122149	-.237775	-.199372
4	.208161	-.162353	.043368	.052145	-.160950	.030379
5	.072586	-.036883	.041454	-.005662	.067739	-.046188
6	.084339	-.431217	.079675	-.014117	.020598	-.032902
7	.092294	-.404133	.116298	-.064138	.103453	.167796
8	-.131657	.193415	.113569	-.122184	.552730	.054585
9-11	-.468807	.085281	.055094	-.098670	.522068	-.089120
12-14	.045737	-.329793	.025399	.011162	-.299107	.202907
15-21	-.252546	.237572	.033761	-.119821	.342809	-.166048
22-30	.246424	-.080776	.035528	.075453	-.540035	.048175

RUN NO. 67A 40M 05-10-62 0234-0350 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.34749 10E 00	0.15234 10E 00	0.59694 10E-01	0.10680 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.264291	-.007343	-.006537	.184678
2	-.070318	-.088739	-.012687	-.015954
3	-.165847	.076744	-.018753	-.097561
4	-.104902	-.097885	.044145	-.070961
5	-.090938	.004653	-.004733	-.096533
6	-.122456	-.003966	-.060684	-.113486
7	-.016511	-.074196	-.141982	-.015734
8	.002583	-.116542	-.057358	.031562
9	-.030485	-.072759	-.061495	.014883
10	-.042324	-.051051	.035119	-.010799
11	-.026593	-.046569	-.090113	-.083106
12	.005680	-.026333	-.079856	-.125707
13	.021969	-.081825	-.033278	-.038423
14	-.073845	-.131118	-.127547	.027522
15	-.073268	-.012769	-.007643	-.044737
16	.007692	.092442	-.001016	.002261
17	.109744	-.023388	-.074949	.015341
18	-.022662	-.006607	-.037249	.022732
19	-.018370	.001387	.035747	-.034113
20	-.033733	-.006947	.013838	-.114424
21	-.058549	.074222	.034766	-.165230
22	-.052304	.115632	.023184	-.053959
23	-.044584	-.004314	.068267	-.036789
24	-.057009	.025373	.007724	-.053215
25	.004471	.026783	.068927	.057167
26	.057989	.064819	-.000848	.032236
27	-.062611	.003657	.019381	.072542
28	.013688	.027518	.028397	.078963
29	.017668	.057518	.075495	.076619
30	.053618	-.067695	.018669	.079227

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-03
0	.009696	.010485	.001776	.030545
1	.097962	.269256	.141965	.416083
2	.113364	.586916	.258649	.439406
3	.155984	.797978	.300140	.474401
4	.197155	.604366	.226426	.557939
5	.204656	.478193	.218024	.519046
6	.229830	.472165	.216701	.582433
7	.249529	.480080	.178367	.788112
8	.211633	.464525	.144135	.684064
9-11	.198301	.622120	.183000	.397430
12-14	.157909	.551710	.219877	.498722
15-21	.118137	.829105	.271071	.382014
22-30	.117470	.862332	.367163	.474159



RUN NO. 67A 16M 05-10-62 0234-0350 EST  
 RUN NO. 67A 40M 05-10-62 0234-0350 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	.498013	.098295	.203415	.504716
1	.461838	.496544	.181124	.557231
2	.415116	.446991	.171335	.567120
3	.307091	.428455	.169457	.514135
4	.188836	.446358	.178065	.411402
5	.246982	.493129	.217436	.336561
6	.117153	.508143	.245372	.262243
7-8	.076213	.378016	.257279	.278675
9-11	.045714	.115529	.116287	.220437
12-15	.080967	.185176	.169841	.091340
16-20	.103115	.112404	.103603	.125049
21-27	.068052	.096551	.057616	.109390
28-36	.055101	.159293	.107609	.124664
37-47	.122443	.086249	.122568	.118359
48-60	.091214	.098173	.108975	.068432

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	.565730	.551867	.493617	.684483
1	.689923	.328677	.418823	.834959
2	.729137	.388658	.403883	.826553
3	.765532	.318125	.282970	.725411
4	.767409	.385902	.279825	.679543
5	.669986	.523458	.335857	.692650
6	.517284	.428692	.281626	.604079
7	.407918	.526486	.231721	.490426
8	.298460	.581227	.125797	.393735
9-11	.480848	.582772	.221684	.565178
12-14	.482927	.372273	.261414	.716683
15-21	.269425	.444573	.266017	.403601
22-30	.402889	.206726	.262228	.328670

RUN NO. 678 16M 05-10-62 0404-0520 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.89 M/SEC	WIND DIRECTION	289 DEG
STABLE	SIGMA A	7.3 DEG	SOLAR RADIATION	0.06
LAND	SIGMA E	4.8 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	0.98736E 00	0.94438E 00	0.77191E 00	0.57589E 00
V	0.56415E 00	0.54464E 00	0.53323E 00	0.22168E-00
W	0.23980E-00	0.23773E-00	0.22433E-00	0.68990E-01
T	0.38102E-01	0.19272E-01	0.14833E-01	0.11519E-01
E	0.89565E 00	0.86338E 00	0.76474E 00	

GUSTINESS RATIOS

U	0.16870	0.16499	0.14917	0.12884
V	0.12752	0.12530	0.12398	0.07994
W	0.08314	0.08278	0.08041	0.04459

COVARIANCES

U,V	-0.42597E-02	-0.19561E-01	-0.35059E-02	-0.93409E-02
U,W	-0.20391E-00	-0.20843E-00	-0.18007E-00	-0.11100E-00
U,T	0.79067E-01	0.87378E-01	0.63207E-01	0.63149E-01
V,W	-0.80873E-02	-0.60966E-02	-0.13567E-01	0.66737E-02
V,T	-0.10217E-01	0.30292E-02	0.43410E-02	0.28488E-02
W,T	-0.30736E-01	-0.28514E-01	-0.24531E-01	-0.14593E-01
WE	-0.36543E-01	-0.44675E-01	-0.27765E-01	

NORMALIZED COVARIANCES

U,V	-0.00571	-0.02728	-0.00556	-0.02614
U,W	-0.41906	-0.43989	-0.43274	-0.55686
U,T	0.40764	0.64768	0.59070	0.77535
V,W	-0.02199	-0.01694	-0.03923	0.05397
V,T	-0.06968	0.02957	0.04881	0.05638
W,T	-0.32155	-0.42126	-0.42526	-0.51766

RUN NO. 678 16M 05-10-62 0404-0520 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.64161 10E 00	0.41614 10E 00	0.10699 10E 00	0.34590 10E 00	0.88934 10E-01	0.57682 10E-01
0	-.005517	-.432671	.590726	-.039446	.048922	-.425145
1	.006149	-.361014	.543524	-.029752	.050581	-.326763
2	.013156	-.260721	.452789	-.011003	.053424	-.218562
3	.014372	-.190401	.369800	.004286	.050648	-.155686
4	.016656	-.138126	.304510	.011621	.039383	-.117415
5	.015575	-.100753	.246831	.019519	.022929	-.085821
6	.009621	-.066415	.187975	.016415	.011023	-.052737
7	.003654	-.031496	.125735	.014189	.004408	-.024029
8	.006349	-.001241	.064740	.016165	.001202	.009301
9	.017894	.025653	.012178	.010794	-.000084	.042518
10	.016721	.046556	-.030455	.013933	-.001830	.057626
11	.003938	.06233C	-.063107	.018117	-.010920	.063335
12	-.008900	.075720	-.081796	.020516	-.022042	.070756
13	-.019026	.075574	-.094729	.020615	-.026284	.075076
14	-.017858	.076925	-.109544	.015858	-.021295	.074343
15	-.017831	.069773	-.124435	.013461	-.014658	.073738
16	-.020588	.066535	-.135006	.013547	-.009713	.064734
17	-.020896	.065586	-.142708	.009207	-.007627	.054411
18	-.016326	.063920	-.154976	-.002595	-.009596	.054020
19	-.009912	.067011	-.174652	-.007474	-.014446	.056911
20	-.004023	.077499	-.187004	-.009976	-.024967	.059104
21	-.001411	.093115	-.194081	-.009468	-.033698	.058810
22	.000199	.105849	-.198460	-.003518	-.035756	.069811
23	.001642	.116324	-.200368	-.007418	-.027306	.079235
24	.006071	.118359	-.204047	-.008683	-.022420	.085909
25	.001563	.116860	-.202460	.003853	-.022345	.095506
26	-.005696	.108486	-.192742	.020985	-.025350	.092462
27	-.010902	.096451	-.180000	.013925	-.026791	.076179
28	-.022382	.082689	-.162750	.000405	-.026368	.065246
29	-.027340	.067819	-.135670	-.006429	-.023817	.050301
30	-.024745	.052463	-.104900	-.020406	-.016389	.046017
31	-.024391	.039932	-.080702	-.029990	-.004322	.040671
32	-.025426	.034410	-.059940	-.032338	.007569	.029134
33	-.019433	.022787	-.043441	-.030975	.019159	.015521
34	-.016326	.009270	-.023163	-.035628	.024093	.003106
35	-.013994	.004377	-.005706	-.032862	.023315	-.001026
36	-.004150	-.007657	.010725	-.025406	.022012	-.009103
37	.006481	-.023714	.025521	-.014311	.023685	-.023216
38	.017542	-.032455	.037343	-.016800	.033749	-.038920
39	.020742	-.040620	.045650	-.014757	.039109	-.053638
40	.033704	-.041101	.051998	-.024463	.041864	-.057943
41	.041087	-.040273	.059149	-.028703	.035910	-.050962
42	.038774	-.037938	.056114	-.020844	.022965	-.036421
43	.031687	-.033236	.044015	-.007067	.004899	-.030488
44	.023778	-.034391	.040855	.008547	-.006808	-.028198
45	.027291	-.031030	.039390	.008005	-.007167	-.021302
46	.025909	-.021883	.037015	.006645	-.008707	-.015031
47	.022864	-.009800	.034082	-.001110	-.005492	-.016955
48	.025013	-.008266	.031912	-.005748	.001641	-.015528
49	.020624	-.017061	.031349	-.004540	.006444	-.011309
50	.008596	-.019915	.023653	.017983	-.007633	-.008125
51	-.001375	-.013035	.019286	.034027	-.020461	-.000300
52	-.005643	-.003045	.015942	.035315	-.025381	.011178
53	-.005280	.003791	.011295	.029720	-.020543	.021274
54	-.001469	.003821	.009673	.025477	-.013953	.029129
55	.006293	-.002750	.005961	.014282	-.003322	.027538
56	.008806	.004108	-.001766	.005700	-.005108	.022603
57	.000411	-.003748	-.005771	.009818	-.016202	.000118
58	-.005030	-.014717	-.003920	.018196	-.029114	-.015212
59	-.016365	-.019132	-.007051	.018670	-.039444	-.019057
60	-.028022	-.017625	-.009022	.013992	-.048655	-.010743

RUN NO. 67B 16M 05-10-62 0404-0520 EST  
 61 POINT RUNNING MEAN, N7 BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.64161 10E 00	0.41614 10E 00	0.10699 10E 00	0.34590 10E 00	0.88934 10E-01	0.57682 10E-01
1	-.002670	-.006048	.047458	.007469	-.006587	-.090659
2	-.000606	.003241	.074793	.007298	-.011940	-.098196
3	.002995	.005538	.090165	.006634	-.017902	-.083584
4	.010149	.003369	.103404	.014266	-.013573	-.072451
5	.020650	.001745	.113490	.019106	-.019121	-.055741
6	.034389	.001186	.114016	.014360	-.023869	-.043364
7	.045713	.002187	.107218	.013359	-.025069	-.038695
8	.058875	.001491	.100396	.022563	-.026058	-.039890
9	.070981	.001066	.097106	.032816	-.029353	-.031421
10	.074170	-.000282	.090983	.025204	-.030143	-.024263
11	.073003	.005604	.072496	.011715	-.030572	-.022012
12	.074305	.016301	.052565	.002761	-.037195	-.017104
13	.077837	.020659	.040090	.000028	-.047075	-.004717
14	.081554	.021096	.034026	.013079	-.056169	-.000493
15	.083950	.015256	.026601	.027987	-.062217	.001383
16	.077576	.015084	.022081	.029213	-.054810	.004749
17	.064609	.010840	.025986	.021184	-.047186	.004442
18	.059471	.010408	.030521	.026546	-.038334	-.004759
19	.054279	.015032	.029785	.030278	-.030488	-.018950
20	.050667	.008513	.031068	.029429	-.031669	-.024627
21	.051793	.006689	.029109	.029412	-.035597	-.021619
22	.048160	.000986	.027543	.025283	-.036120	-.017724
23	.030961	.001292	.019116	.003682	-.028893	-.017212
24	.015661	.009932	.004312	-.009331	-.024283	-.022334
25	.003808	.015840	-.006340	-.008728	-.019690	-.023818
26	-.009338	.014403	-.012870	-.005972	-.013830	-.017332
27	-.017947	.002956	-.014793	-.000226	-.006027	-.013033
28	-.028430	-.010735	-.014722	.002581	.000446	-.005624
29	-.038723	-.020096	-.016845	.009213	.007245	.002955
30	-.046179	-.017816	-.022880	.008409	.015053	.004133
31	-.050602	-.014219	-.027116	.008168	.023463	.007109
32	-.051124	-.009416	-.029405	.010100	.026101	.005783
33	-.054957	-.009643	-.032706	.007761	.026205	.006518
34	-.058578	-.014048	-.030980	.001003	.031402	.005756
35	-.060693	-.012511	-.030638	-.009880	.040758	.002368
36	-.068765	-.001446	-.036085	-.025684	.054716	.000343
37	-.079103	.010226	-.040233	-.035616	.062066	-.000321
38	-.078083	.008312	-.039374	-.043601	.064992	.001482
39	-.072470	.002237	-.032675	-.045353	.062379	.004304
40	-.062022	.002303	-.024702	-.023956	.050696	.006578
41	-.040419	.012709	-.014744	-.000400	.039081	.006344
42	-.021031	.023546	-.009950	.015626	.031313	.004965
43	-.007022	.017605	-.004099	.000710	.029675	.007116
44	-.001634	.005711	.002501	-.011458	.025232	.003315
45	.000184	.001087	.004093	-.014723	.016802	.009029
46	.001122	-.006599	.003075	-.009278	.008061	.015891
47	.012118	-.010203	.001022	-.003904	-.004161	.020465
48	.019869	-.014487	-.002811	.000634	-.014675	.012247
49	.024480	-.009765	-.007357	.006669	-.022392	.014806
50	.029045	-.014253	-.006701	.013057	-.031310	.014276
51	.028401	-.015170	-.005114	.014447	-.034903	.013942
52	.030662	-.006339	-.007942	.010754	-.036381	.018786
53	.037312	.003129	-.014518	-.007439	-.032174	.017842
54	.038977	.009233	-.020991	-.012768	-.027248	.016358
55	.038981	.013537	-.025805	-.002143	-.028374	.022826
56	.040659	.016443	-.023722	.007450	-.030700	.025603
57	.038023	.012239	-.020648	.003698	-.031057	.023612
58	.033893	.008806	-.015256	-.001847	-.030773	.000423
59	.031156	.003554	-.004879	.004650	-.031498	-.016412
60	.028473	.009205	.002838	.009872	-.025944	-.015425

RUN NO. 678 16M 05-10-62 0404-0520 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.77189 10E 00	0.53331 10E 00	0.22435 10E 00	0.14830 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.834888	.753976	.573181	.812023
2	.640243	.479435	.241896	.581016
3	.499922	.300658	.105040	.424394
4	.389575	.180666	.042104	.319928
5	.298041	.093113	.004986	.235158
6	.214573	.033819	-.018948	.163836
7	.139652	-.008406	-.027397	.099503
8	.073931	-.050807	-.044357	.031228
9	.012781	-.079875	-.075885	-.030221
10	-.043837	-.086337	-.073946	-.073072
11	-.089593	-.083412	-.070349	-.104926
12	-.124056	-.083573	-.088517	-.121968
13	-.151059	-.092738	-.099883	-.133328
14	-.167755	-.116871	-.090749	-.146877
15	-.177474	-.143657	-.091792	-.161168
16	-.189241	-.168997	-.099155	-.162703
17	-.200911	-.185672	-.087871	-.158090
18	-.221957	-.197509	-.060608	-.169713
19	-.252280	-.190946	-.058724	-.188334
20	-.267281	-.186838	-.058502	-.208240
21	-.267282	-.197791	-.067629	-.212789
22	-.271107	-.195744	-.076562	-.217179
23	-.274810	-.182653	-.076552	-.218832
24	-.279438	-.180074	-.080478	-.222918
25	-.276541	-.172691	-.104546	-.233536
26	-.271943	-.163841	-.105069	-.227895
27	-.260002	-.166970	-.069774	-.212469
28	-.235648	-.159213	-.074756	-.194284
29	-.202674	-.128682	-.049831	-.163633
30	-.170359	-.074384	-.041549	-.130025
31	-.131959	-.018963	-.032754	-.091472
32	-.097783	.017573	-.009272	-.058238
33	-.065361	.039993	.012736	-.030420
34	-.030773	.060064	.017631	-.005136
35	-.000541	.071409	.011186	.010798
36	.022065	.070710	.013038	.017211
37	.042104	.065793	.018316	.022674
38	.058155	.069702	.030686	.029526
39	.074529	.065587	.038801	.041836
40	.084896	.048355	.044421	.049313
41	.085784	.044222	.038221	.042042
42	.089910	.046728	.029903	.029701
43	.088470	.055109	.041867	.023881
44	.087930	.063297	.052674	.021158
45	.076024	.069028	.044245	.021830
46	.068051	.064268	.011660	.027063
47	.060009	.060076	.008630	.036151
48	.045306	.052185	-.004770	.037624
49	.040132	.040721	-.010429	.031234
50	.032818	.023263	-.005058	.024406
51	.020082	.012766	-.007442	.019963
52	.007209	.018077	-.037377	.017371
53	-.002105	.012609	-.043013	.017778
54	-.000938	.000352	-.043623	.019372
55	.003321	-.004879	-.040069	.021270
56	.007586	-.011258	-.035286	.017552
57	.017351	-.011764	.000166	.020614
58	.022443	-.024530	.030452	.023233
59	.021337	-.035534	.023689	.019695
60	.017314	-.027106	.016640	.013324

RUN NO. 67B 16M 05-10-62 0404-0520 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	-.022561	-.009297	.007347	.008808	.005296	-.013345
1	.002527	-.154056	.086208	.226234	.041745	-.172325
2	.353556	-.247932	.124042	.157482	.092744	-.279679
3	.402324	-.287446	.134937	-.121723	.146407	-.343066
4	.031674	-.183534	.078885	-.187288	.077716	-.234938
5	.161139	-.123730	.041869	-.098198	.019262	-.175801
6	.148588	-.135238	.039574	-.182578	.055132	-.191201
7-8	-.326342	-.102363	.028677	-.132430	.034554	-.125293
9-11	.014553	-.035690	.009254	-.061461	-.001130	-.050199
12-15	.006512	-.037242	.006083	-.090755	.010026	-.048116
16-20	-.115902	-.024689	.005638	-.039523	-.017512	-.041337
21-27	.018028	-.015377	.002722	-.016421	-.000968	-.027957
28-36	-.043107	-.007925	.000954	-.007110	-.000211	-.019751
37-47	-.024043	-.005213	.000331	.002152	-.000167	-.009358
48-60	-.009376	-.001839	.000145	-.002532	.000094	-.006673

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
1	.118452	.183436	.215313	.316027	-.125636	-.720962
2	.207266	.184248	.317570	.357056	-.191246	-.710788
3	.180414	.151234	.346496	.223731	-.126714	-.595601
4	.003705	-.014269	.229415	.007876	.028880	-.552437
5	-.043311	-.145176	.178270	.017848	.021719	-.687500
6	-.016743	-.041904	.184920	.026768	-.001845	-.834568
7-8	-.021364	-.015631	.112832	.079702	.006578	-.626503
9-11	-.017027	.062859	.012189	-.046470	-.015681	-.344421
12-15	-.005246	-.003279	.024857	.010001	.007133	-.397427
16-20	.003477	-.007463	.007118	.030740	-.006888	-.247125
21-27	-.002121	-.020267	.008425	-.016968	-.001110	-.150279
28-36	-.000052	-.020142	.005141	.025832	-.000072	-.117625
37-47	-.000513	-.012024	.000924	-.003545	.001186	-.050320
48-60	-.000469	-.006071	.000387	-.001590	-.000383	-.004614

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.006305	.012758	.005542	.012382
1	.083725	.280117	.075591	.144352
2	.125582	.531855	.125069	.204643
3	.138487	.701271	.165624	.227714
4	.081675	.486903	.132931	.149453
5	.047140	.291178	.110484	.094526
6	.046925	.297654	.119216	.093769
7-8	.034215	.295950	.099427	.073852
9-11	.017218	.219268	.075770	.036722
12-15	.012666	.116996	.067501	.027995
16-20	.008315	.096758	.055081	.021606
21-27	.005768	.056063	.041598	.013198
28-36	.003652	.040071	.032550	.008459
37-47	.002356	.023898	.021462	.004374
48-60	.001444	.015983	.015545	.002985

RUN NO. 67B 16M 05-10-62 0404-0520 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
	0.35724 10E 00	0.19928 10E 00	0.81480 10E-01	0.12369 10E 00	0.50674 10E-01	0.28211 10E-01
0	-.026147	-.556997	.775018	.053956	.056329	-.517266
1	.008859	-.148860	.320341	.073930	.016438	-.097039
2	-.021638	.042439	.049612	.026172	-.059941	-.007836
3	-.016358	.063687	-.027487	-.033531	-.021645	.037138
4	.025451	.033468	-.041963	-.055097	.021644	.007497
5	.032391	.034793	-.078396	.006960	-.020176	.080551
6	-.022189	.052265	-.113558	.018492	-.023168	.066906
7	-.002744	.035380	-.069250	-.064286	.033112	.036451
8	.020146	.032871	-.092232	.010677	.038567	.038227
9	.032536	.048733	-.048942	-.064341	.082407	.007548
10	.045514	.066158	-.047634	-.038302	.024760	.008503
11	.045342	.048073	-.071398	-.033897	.029338	.003684
12	-.035381	.011911	-.074852	.038251	-.043320	.037256
13	-.077286	-.001333	-.091866	-.001745	-.089102	.056506
14	-.002183	.014546	-.065992	.012585	-.030710	.054212
15	.026957	-.067675	-.005509	-.011442	.020324	-.049137
16	.023271	.025145	-.026878	-.022929	.064305	.014607
17	-.069329	.006919	-.001091	.061328	-.027644	.023946
18	-.009044	.043942	-.050931	.088502	-.063731	.012489
19	.030256	-.003810	-.008687	-.033755	.003726	-.046235
20	-.028727	-.018541	.029646	.021476	.003108	-.052735
21	-.028255	.017427	-.036176	.029905	-.015395	.017919
22	-.016453	.001948	-.026456	.041446	-.016599	-.002864
23	-.002962	.027113	-.008988	-.027846	-.026353	.051139
24	-.030537	-.002382	.006027	-.000092	-.047698	.029292
25	-.047897	-.060130	.012218	.063068	-.028297	-.032783
26	-.000617	.003291	-.007628	.016824	.053385	.026226
27	.058381	.036825	.008149	-.108685	.081198	.045788
28	.066273	.016106	.011158	-.041153	.050494	.038877
29	.034208	-.054111	.136497	.015040	-.038475	-.042242
30	.010525	-.030593	.100301	-.047707	.019754	-.034654

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	.012411	-.014538	.019274	-.004080	.014309	-.032606
1	.170083	-.284630	.327273	-.047311	.231103	-.426379
2	.012916	-.459937	.461693	.043354	.021678	-.628875
3	-.232822	-.676784	.554919	.186501	-.380514	-.890365
4	-.246650	-.746457	.509330	.172784	-.438573	-.869558
5	-.122829	-.640954	.448262	.091238	-.177173	-.834792
6	.096704	-.505410	.437219	.096146	.434358	-.972232
7	.149943	-.553788	.424984	.067002	.860098	-.890005
8	-.065280	-.688447	.349857	.077320	.517173	-.646680
9-11	-.148796	-.598273	.263760	.143783	-.119032	-.488381
12-14	.212418	-.547649	.258505	.013287	.407151	-.583217
15-21	-.071689	-.426775	.191069	-.062509	.348577	-.609179
22-30	-.091969	-.338195	.138243	-.020755	-.126902	-.610986

RUN NO. 678 16M 05-10-62 0404-0520 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
	0.35724 10E 00	0.19928 10E 00	0.81480 10E-01	0.12369 10E 00	0.50574 10E-01	0.28211 10E-01
1	.108199	.021476	.119286	.054642	-.065521	-.091458
2	.107333	.018764	.071571	.076374	-.074912	-.042712
3	-.032033	.010391	.017811	.068910	.001620	-.051089
4	-.059833	.016348	.003803	-.005764	.036738	.007608
5	.028773	-.009676	.009124	.007011	-.012652	.037975
6	.018517	-.004506	.008735	.007612	-.007311	.013904
7	-.055158	-.009497	.011350	-.028682	.054063	.014285
8	-.036955	.005004	.028730	-.056424	.025993	-.001841
9	.051223	.001666	.007930	.032525	-.025409	-.025750
10	-.002167	.054060	-.026449	-.014841	.014172	-.029090
11	-.054167	-.037496	.002173	-.031322	.040037	.040427
12	-.040943	-.035335	.002596	.028768	.030869	.004837
13	.001702	-.004144	.002729	.044403	-.010774	-.022918
14	-.073826	.038105	-.012096	-.014658	.040877	-.012304
15	.025177	-.000574	.000574	-.023761	.050881	-.005037
16	.037572	-.035478	.024334	-.018358	.001754	-.027383
17	.053409	.009192	.032143	-.005825	-.023524	-.001762
18	-.063044	.077147	.016407	-.055939	.052588	-.045418
19	-.027019	.037935	-.010347	-.021116	.048993	-.049583
20	.009002	-.029576	-.013176	-.006023	.006997	.021351
21	.016167	.000922	-.032116	.060927	-.065861	.020921
22	.017071	-.011941	-.022983	.039598	.001569	.005479
23	-.025598	-.002782	-.028046	-.053895	.050268	.006386
24	.070507	-.033410	-.033367	.028082	-.080920	.067642
25	.042307	-.028459	-.025878	.046521	-.053564	.069338
26	.048233	-.031701	-.043378	.043691	-.027225	.082548
27	.008320	-.028292	.003429	-.012064	-.015097	.052529
28	.054998	-.002500	.028656	-.010764	-.051439	-.016863
29	.042365	.010231	.001344	.014537	-.067085	-.022678
30	.023743	.045613	.006100	.073071	.000989	-.025577

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	-.378777	.023860	.058301	-.014489	.690547	-.159466
2	-.138737	.016999	.064642	.031950	.201718	-.056154
3	.219736	.037756	.054744	.091099	-.304288	.032253
4	.272610	.097896	.086672	.089450	-.267864	-.182832
5	.203399	.016521	.087527	.155824	-.263095	-.211676
6	.172442	-.002071	.045504	.234824	-.390785	-.201067
7	.341455	.126892	.067216	.165368	-.448889	-.365918
8	.617976	.130454	.103199	.074385	-.533692	-.436107
9-11	.398412	.038547	.109079	.079502	-.372820	-.311624
12-14	.661071	.021651	.065948	.038678	-.470088	-.085214
15-21	.076042	.022055	.050885	-.021091	-.014735	-.103242
22-30	-.031573	-.045001	.017993	.041001	-.008428	-.112648



RUN NO. 678 16M 05-10-62 0404-0520 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIARIANCE

M	U	V	W	T
	0.57555 10E 00	0.22174 10E 00	0.68996 10E-01	0.11535 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.348665	.064646	.074908	.378575
2	-.017413	-.209340	-.029124	.073663
3	-.081270	-.119740	-.071429	-.013773
4	-.059927	-.043184	-.049045	-.044285
5	-.075327	.001542	-.111115	-.096686
6	-.096497	-.033861	-.066030	-.108676
7	-.059040	-.016872	-.019472	-.114327
8	-.092906	-.023342	-.052872	-.142646
9	-.046689	-.104126	-.038395	-.058917
10	-.071702	-.042173	-.087168	-.043015
11	-.110736	.061547	-.055456	-.060235
12	-.089173	-.006300	-.022028	-.112586
13	-.069202	-.059009	-.040895	-.116166
14	-.047681	-.120754	-.018147	-.106284
15	-.006141	.012122	.018711	-.016659
16	-.030743	.019508	-.018129	-.007668
17	.013457	.032580	-.016171	-.020818
18	-.090240	.008737	.017818	-.053534
19	-.032719	.114228	.013639	.012551
20	.023426	.080706	.052073	.033408
21	-.049740	-.061657	.056850	-.037650
22	-.061593	-.057516	-.024881	.002008
23	.008845	.081601	.012471	-.035017
24	.034209	.107815	-.033727	-.025782
25	.037650	-.042101	-.047683	.008023
26	.019157	-.141678	.001107	-.008241
27	.026563	-.021499	-.011276	.046466
28	.025994	.019957	.012734	.003516
29	.154485	-.081767	-.006816	.104650
30	.116863	.065847	.037814	.080822

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.010403	.002388	.009551	.004778
1	.242771	.019557	.129679	.061768
2	.350294	.044153	.224610	.084063
3	.413934	.077210	.344037	.100810
4	.393262	.068004	.334681	.090441
5	.348623	.064740	.300030	.078750
6	.329070	.090474	.319937	.078280
7	.364361	.097619	.321348	.072142
8	.356607	.084822	.337899	.054845
9-11	.282152	.133841	.289340	.046660
12-14	.274299	.110490	.257828	.046103
15-21	.195065	.114148	.316976	.036335
22-30	.140181	.101184	.356022	.029425

RUN NO. 678 40M 05-10-62 0404-0520 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.63 M/SEC	WIND DIRECTION	295 DEG
STABLE	SIGMA A	5.7 DEG	SOLAR RADIATION	0.06
LAND	SIGMA E	4.2 DEG	NET RADIATION	-0.17

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.97542E 00	0.92556E 00	0.74623E 00	0.56483E 00
V	0.54935E 00	0.53920E 00	0.50380E 00	0.20354E-00
W	0.29810E-00	0.30073E-00	0.28631E-00	0.84479E-01
T	0.27857E-01	0.20487E-01	0.16287E-01	0.11591E-01
E	0.91144E 00	0.88277E 00	0.76818E 00	

**GUSTINESS RATIOS**

U	0.12944	0.12609	0.11322	0.09850
V	0.09714	0.09624	0.09303	0.05913
W	0.07156	0.07187	0.07013	0.03809

**COVARIANCES**

U,V	0.31497E-01	0.22322E-01	0.18506E-01	0.41266E-01
U,W	-0.22363E-00	-0.22272E-00	-0.20427E-00	-0.11362E-00
U,T	0.79592E-01	0.88090E-01	0.64661E-01	0.59058E-01
V,W	-0.25904E-01	-0.30691E-01	-0.25037E-01	-0.22507E-01
V,T	-0.18405E-02	0.49821E-02	0.60173E-02	0.63020E-02
W,T	-0.33141E-01	-0.34644E-01	-0.31637E-01	-0.13952E-01
WE	0.24951E-01	0.25672E-01	0.20856E-01	

**NORMALIZED COVARIANCES**

U,V	0.04303	0.03160	0.03018	0.12170
U,W	-0.41472	-0.42215	-0.44192	-0.52012
U,T	0.48284	0.63972	0.60467	0.72988
V,W	-0.06401	-0.07622	-0.06592	-0.17164
V,T	-0.01488	0.04740	0.06643	0.12975
W,T	-0.36368	-0.44138	-0.46329	-0.44587

RUN NO. 678 40M 05-10-62 0404-0520 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.61316 10E 00	0.46220 10E 00	0.11025 10E 00	0.37981 10E 00	0.90596 10E-01	0.68291 10E-01
0	.030383	-.441917	.604734	-.065909	.066576	-.463333
1	.028781	-.378093	.561405	-.050740	.067498	-.368143
2	.035576	-.275942	.467045	-.031531	.067076	-.235614
3	.043779	-.193036	.369390	-.022741	.065667	-.138951
4	.045968	-.128952	.286042	-.019209	.062264	-.081703
5	.040126	-.082860	.218855	-.022257	.059243	-.042697
6	.028248	-.049569	.162638	-.022620	.050954	-.017322
7	.024029	-.029954	.117549	-.021207	.042203	-.006751
8	.020458	-.009391	.076112	-.025445	.034930	.006413
9	.008378	.005382	.038496	-.013453	.028359	.017365
10	.002379	.013569	.006732	.004280	.013446	.027950
11	.006761	.017530	-.023599	.005207	.001742	.039502
12	.007817	.029450	-.055236	.003454	-.003856	.047623
13	.005327	.043298	-.085929	-.003746	-.005025	.049660
14	.002709	.060802	-.113642	-.008735	-.006036	.054904
15	.003706	.083138	-.138870	-.009373	-.005871	.059359
16	.006518	.107227	-.162481	-.020039	-.004309	.072526
17	.003273	.124088	-.185024	-.023854	-.011746	.089708
18	-.005919	.131401	-.203790	-.016399	-.023172	.102710
19	-.018670	.131552	-.219955	.011438	-.039220	.111471
20	-.024479	.129955	-.231063	.033796	-.049319	.115758
21	-.026566	.131377	-.233862	.037664	-.051870	.110822
22	-.026197	.131813	-.225867	.036184	-.048211	.101152
23	-.028271	.118805	-.210468	.026644	-.041866	.081940
24	-.031587	.105546	-.194099	.013610	-.045955	.065187
25	-.032326	.096490	-.176894	.018593	-.056360	.060261
26	-.033351	.096043	-.156989	.035706	-.062668	.062455
27	-.025457	.096642	-.139166	.042169	-.063365	.066250
28	-.016445	.089247	-.124170	.040042	-.058412	.058402
29	-.015090	.071468	-.104620	.044056	-.057773	.046222
30	-.022256	.045813	-.079649	.044902	-.058309	.030080
31	-.029822	.018728	-.055383	.042536	-.057925	.009845
32	-.029060	-.002900	-.036450	.038708	-.051582	-.002309
33	-.024298	-.017037	-.025236	.032949	-.043678	-.016261
34	-.020281	-.025769	-.013618	.018455	-.036209	-.027762
35	-.022103	-.026346	-.003526	.016400	-.034956	-.023775
36	-.026205	-.019521	.001859	.010339	-.033254	-.023315
37	-.018860	-.014157	.003946	.010136	-.031093	-.021123
38	-.004935	-.012899	.004052	.001100	-.022098	-.010350
39	.006317	-.012318	.005476	-.007536	-.006708	-.001160
40	.018211	-.006735	.008036	-.014760	.004855	.009582
41	.021003	-.009616	.016731	-.020377	.014203	.010311
42	.012330	-.012231	.026843	-.027947	.024628	.000857
43	.009770	-.022843	.041372	-.027790	.031372	-.015144
44	.005309	-.043671	.060421	-.025393	.037903	-.027354
45	-.001375	-.061917	.077297	-.026332	.044856	-.030198
46	-.001086	-.070139	.089976	-.022199	.053770	-.038193
47	.004986	-.069554	.096657	-.024733	.054424	-.043016
48	.005574	-.058464	.095698	-.019322	.051352	-.041727
49	-.002750	-.049908	.089016	-.010156	.046229	-.038168
50	-.006333	-.041662	.074800	-.010220	.043453	-.033334
51	-.005940	-.032230	.057286	-.022001	.040940	-.029447
52	-.002119	-.023911	.041817	-.025947	.031706	-.016717
53	-.003549	-.014376	.025391	-.013863	.016723	-.002178
54	-.010040	-.004561	.005806	.001300	.005514	.005388
55	-.008368	.001745	-.011189	.002934	-.005114	.009063
56	-.007698	.006012	-.020796	-.001270	-.009437	.005780
57	-.007567	.010104	-.025503	.001268	-.005733	-.001424
58	-.000445	.016899	-.026543	.002304	.003852	-.005785
59	.010174	.020377	-.029524	.007204	.010328	-.002474
60	.011638	.031076	-.031717	.006192	.017233	-.000141

KUN NO. 67B 40M 05-10-62 0404-0520 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.61316 10E 00	0.46220 10E 00	0.11025 10E 00	0.37981 10E 00	0.90596 10E-01	0.68291 10E-01
1	-.005392	-.001757	.045388	-.004520	-.009823	-.033573
2	-.013772	-.005502	.069414	-.009228	-.012020	-.036901
3	-.023102	-.003635	.083750	-.014036	-.001330	-.040427
4	-.033348	-.008361	.090576	-.024348	.014056	-.044847
5	-.029278	-.008442	.091208	-.027243	.022834	-.047623
6	-.021321	.002139	.079883	-.018023	.021468	-.048710
7	-.015214	.004452	.072436	-.001833	.014105	-.044286
8	-.007668	-.005976	.074360	-.000372	.005991	-.031242
9	.001525	-.020006	.079769	.007465	-.003393	-.017391
10	.011680	-.027047	.085481	.022347	-.013009	-.014509
11	.010230	-.024944	.088602	.030301	-.016854	-.022395
12	.005082	-.021549	.084624	.029595	-.013765	-.026786
13	-.000722	-.016236	.075703	.015145	-.011576	-.029348
14	-.003053	-.013184	.064853	.003388	-.011377	-.021143
15	-.004257	-.020404	.049895	.010211	-.018443	-.013119
16	-.003466	-.019708	.029931	.009258	-.025631	-.004251
17	-.000119	-.018037	.017380	.008865	-.024801	.013791
18	.009204	-.016224	.009306	.014013	-.019123	.023035
19	.014047	-.003721	-.000581	.008805	-.009629	.019151
20	.014800	.000089	-.007508	-.008414	-.009042	.010028
21	.011809	-.004891	-.009553	-.015587	-.015433	.009989
22	.011560	-.008451	-.013272	-.016223	-.013163	.021271
23	.009846	-.012411	-.019653	-.017679	.000390	.029864
24	.007659	-.014778	-.024773	-.021698	.015547	.028264
25	.004814	-.015725	-.027965	-.018764	.025438	.023693
26	.001555	-.005336	-.026958	-.019847	.027653	.020404
27	.003597	.005555	-.028185	-.017379	.026975	.019786
28	.004247	.012627	-.028756	-.009289	.023649	.014763
29	.007547	.019311	-.034219	.000295	.020062	.016701
30	.017035	.017454	-.041012	.009295	.015952	.027280
31	.018614	.008653	-.043811	.024506	.009835	.030601
32	.015339	.000744	-.042370	.026310	.002753	.032028
33	.017595	.002862	-.039675	.029362	-.007165	.025476
34	.013110	-.008414	-.034398	.018278	-.011910	.012709
35	-.000505	.012722	-.024514	.005353	-.013239	-.004394
36	-.014303	.013689	-.014067	.009622	-.015406	-.014574
37	-.017803	.012534	-.011221	.008763	-.013365	-.009309
38	-.019722	.006513	-.012016	.005813	-.006055	.006091
39	-.022650	.002598	-.012555	-.012999	.009878	.016572
40	-.022795	.005939	-.010628	-.025629	.020708	.013565
41	-.019828	.006494	-.004470	-.026703	.022841	.004576
42	-.019805	.006840	-.001972	-.023797	.025431	-.003002
43	-.016746	.013752	-.003155	-.018755	.026394	-.009790
44	-.012153	.024688	-.009122	-.021715	.023797	-.010353
45	-.012566	.033175	-.012526	-.021021	.012595	-.018382
46	-.014389	.029992	-.010091	-.001795	.005742	-.029294
47	-.013231	.025800	-.003495	.011642	-.000163	-.037916
48	-.010413	.016445	.003944	.014093	-.004391	-.041830
49	-.012700	.004569	.008213	.007740	-.004384	-.042616
50	-.012414	-.001795	.016064	.003501	-.009807	-.040345
51	-.004189	-.010382	.026891	.007033	-.013722	-.038768
52	.007783	-.019857	.037878	.008771	-.013322	-.026321
53	.012982	-.021421	.045217	.015794	-.016472	-.012824
54	.006632	-.012494	.046575	.024313	-.018668	-.010219
55	-.000732	-.007548	.046224	.024944	-.008533	-.014603
56	-.004031	-.009067	.038228	.024803	.007420	-.011185
57	-.002152	-.007808	.026647	.017005	.017666	-.004667
58	-.001990	-.009011	.013471	.011473	.013089	.006578
59	.001855	-.001213	-.002797	.018649	-.003429	.011048
60	.008861	.004261	-.014822	.014158	-.012305	.010983

RUN NO. 67B 40M 05-10-62 0404-0520 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.74618 10E 00	0.50386 10E 00	0.28630 10E 00	0.16290 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.849485	.719811	.622653	.839448
2	.657858	.410170	.285435	.616011
3	.505358	.227905	.101647	.451368
4	.384488	.105756	.012653	.334146
5	.288051	.025323	-.014827	.236547
6	.208501	-.030210	-.033563	.154715
7	.148196	-.056794	-.051718	.095004
8	.094594	-.076129	-.065715	.051630
9	.047125	-.095704	-.073584	.008558
10	.006005	-.111374	-.087420	-.038610
11	-.036637	-.140625	-.091874	-.080854
12	-.086402	-.152306	-.085271	-.112627
13	-.139940	-.144855	-.068691	-.142232
14	-.184864	-.127480	-.056871	-.166114
15	-.220228	-.109133	-.062079	-.187381
16	-.253313	-.097189	-.072166	-.212895
17	-.282285	-.097573	-.032245	-.232458
18	-.301505	-.100632	-.081450	-.247790
19	-.315510	-.111002	-.092491	-.261802
20	-.322653	-.128438	-.107234	-.270067
21	-.324123	-.127161	-.108518	-.268544
22	-.314093	-.126350	-.105271	-.256489
23	-.293371	-.126381	-.087461	-.231849
24	-.271923	-.107213	-.085961	-.210212
25	-.252651	-.073477	-.098126	-.192257
26	-.234543	-.052206	-.113588	-.175002
27	-.211624	-.049755	-.117133	-.162113
28	-.194894	-.056241	-.109192	-.148574
29	-.166996	-.051654	-.087407	-.128183
30	-.125067	-.041613	-.038032	-.104205
31	-.077285	-.019703	.018520	-.079677
32	-.042232	-.002128	.045293	-.057927
33	-.022863	-.007562	.065000	-.036545
34	-.004467	-.015221	.069941	-.017930
35	.007925	-.006977	.067096	-.005962
36	.018699	.003774	.046875	.000855
37	.028761	.017187	.028489	.004651
38	.031939	.020399	.023304	.006096
39	.032766	.009247	.020659	.010232
40	.036467	.010509	.002577	.018878
41	.045024	.031483	-.005240	.035490
42	.058468	.038498	.013125	.052052
43	.071909	.042063	.035314	.064252
44	.090006	.045445	.048152	.077153
45	.114391	.042971	.043151	.082896
46	.127859	.034718	.041226	.088364
47	.130808	.023768	.023262	.093271
48	.123174	.014736	.010236	.095941
49	.108242	.008838	.006038	.098548
50	.088258	.004740	.012841	.096537
51	.067826	.012250	.014162	.084015
52	.051510	.017807	.014779	.059337
53	.032617	.013141	.010097	.032715
54	.009346	.009745	-.000882	.014304
55	-.006537	.009917	-.011780	-.004224
56	-.020311	.020535	-.012114	-.016481
57	-.034034	.018764	-.019151	-.016570
58	-.047847	.009389	-.029897	-.012798
59	-.056459	.015929	-.010867	-.011634
60	-.056542	.023823	-.013132	-.001022

RUN NO. 678 40M 05-10-62 0404-0520 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	.068177	-.009175	.007538	-.027929	-.000107	-.010660
1	.824767	-.165922	.086474	-.425288	.166748	-.170882
2	.949121	-.291656	.128484	-.593857	.267389	-.332793
3	.663017	-.354102	.143319	-.371752	.195268	-.424553
4	.083106	-.226679	.088137	.085044	.024342	-.311640
5	-.005027	-.114222	.042695	-.004620	.021430	-.184452
6	.092407	-.086916	.025393	-.192106	.026939	-.146318
7-8	.085154	-.104349	.027887	-.130609	.010386	-.168461
9-11	-.110968	-.087069	.018357	.012841	-.012262	-.136938
12-15	-.085061	-.038509	.009423	-.095815	-.000663	-.083061
16-20	-.052168	-.026984	.004528	-.056930	-.004088	-.055704
21-27	-.012077	-.012142	.001997	-.018314	.001813	-.031411
28-36	.035461	-.008156	.000715	-.022668	-.001478	-.018715
37-47	.004010	-.003313	.000153	-.015912	.000637	-.007946
48-60	.006908	-.001679	.000053	.000919	-.000492	-.005929

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-02
1	.101553	-.213895	.123179	.022807	-.038393	.014942
2	.067159	-.355223	.269001	.053596	-.312363	-.033400
3	-.259646	-.254954	.380826	.067758	-.307843	-.103764
4	-.339943	-.030849	.274033	.082089	.070674	-.091416
5	-.157588	.048542	.138597	-.041310	.526848	-.054491
6	-.246214	.071158	.070817	-.344487	.738700	-.034990
7-8	-.221783	.051468	.034583	-.184491	-.035760	-.023318
9-11	-.239972	-.005894	.058014	-.098460	.041290	-.028037
12-15	.073332	-.051594	.044330	.053896	-.216566	-.005344
16-20	.024917	.002027	.002769	.006247	-.157446	-.002000
21-27	.036543	.021483	.003935	.029539	-.047987	-.009157
28-36	-.011345	-.024910	.007550	-.023954	.012862	-.003447
37-47	-.004024	.020001	.000239	.001148	.006053	-.003647
48-60	.008239	.001112	.001801	.008264	-.000234	-.001073

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-02
0	.006241	.011093	.006247	.013365
1	.079094	.206295	.088888	.155438
2	.123342	.359843	.162093	.234294
3	.141836	.487280	.224674	.270370
4	.088244	.429804	.176567	.184097
5	.044094	.355699	.127574	.111899
6	.029744	.323655	.146218	.080662
7-8	.028905	.287467	.156960	.071255
9-11	.027625	.186667	.114098	.051683
12-15	.013197	.155276	.087918	.032268
16-20	.007283	.091984	.073686	.019184
21-27	.004830	.065523	.049055	.012716
28-36	.003025	.043656	.030393	.007526
37-47	.001805	.027672	.023757	.003711
48-60	.001245	.015921	.016455	.002207

RUN NO. 67B 40M 05-10-62 0404-0520 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
	0.33921 10E 00	0.21845 10E 00	0.80913 10E-01	0.13118 10E 00	0.48590 10E-01	0.31292 10E-01
0	.121654	-.520102	.729893	-.171572	.129699	-.445881
1	.024344	-.113550	.313631	-.063183	.004128	-.065994
2	-.028650	.111363	-.008580	-.004865	-.084515	.097235
3	-.050502	.065622	-.022777	.104174	-.106322	.055642
4	-.024250	.039177	-.061385	.034001	-.000823	.049097
5	.005581	.011179	-.066840	-.030595	.083802	.010186
6	.000631	.035786	-.149897	.054314	.050869	.024556
7	.003883	.060939	-.156098	.039698	.030580	.053263
8	.048951	-.012003	-.095611	-.050758	.067930	-.036675
9	.067716	.011379	-.102775	-.002205	.052286	-.022384
10	-.010672	.074580	-.127741	-.011289	-.023029	.066385
11	-.015081	-.010711	-.056886	-.012278	-.024669	.005819
12	-.029712	.003380	.012273	.052114	-.012861	-.011334
13	.045077	-.005450	.054425	-.022118	-.020607	.033795
14	-.026858	-.006868	.048670	-.007669	-.068496	.017589
15	-.059018	.042968	.020618	-.016606	-.044841	.004730
16	-.010569	.030141	.043627	.035463	-.016466	.004522
17	-.032343	-.025023	.023247	-.024961	-.003699	-.039014
18	-.026914	-.042233	.047245	-.020219	.006742	-.055151
19	-.008918	-.061442	.016191	.039008	.008441	-.036712
20	-.004684	.056005	-.056546	.004815	.018396	.038856
21	-.036302	.054536	-.079330	-.015159	-.024251	.028630
22	-.062717	-.023732	-.055643	.063526	-.067020	.024360
23	-.012420	-.006429	-.062817	.006596	-.016826	-.010998
24	.032071	-.007627	.001227	-.006319	.004874	-.008768
25	.039102	-.040853	.071132	-.020581	.018825	-.030158
26	.032015	.002113	.046886	-.021789	.044759	-.000510
27	.014828	.056191	.002481	.021284	-.017551	.034219
28	.036920	.005059	.037242	-.037509	.075691	.012171
29	.110413	.014447	.089680	-.038476	.069946	.010203
30	.038936	-.093626	.054794	.014711	-.012996	-.042213

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	-.010261	-.008992	.012110	-.000077	.001272	-.010048
1	.217238	-.163177	.164386	-.031379	.293406	-.121957
2	.147244	-.297680	.283949	-.036792	.165523	-.258605
3	-.173658	-.484649	.530781	-.061162	-.412335	-.492656
4	-.149332	-.551671	.680755	-.128504	-.863496	-.546315
5	.136080	-.543453	.515947	-.162800	-.684690	-.495836
6	.355169	-.578284	.323158	-.198257	.099253	-.699377
7	.493528	-.616760	.304160	-.245394	.655355	-.929430
8	.428556	-.555960	.285330	-.211860	.631966	-.759561
9-11	.247862	-.686629	.287071	-.144634	.897864	-.758284
12-14	.400026	-.713477	.290351	-.221231	.917776	-.846919
15-21	.074261	-.499389	.185350	.056677	.114820	-.662586
22-30	.163189	-.324466	.102005	-.121082	.258952	-.482667

RUN NO. 67B 40M 05-10-62 0404-0520 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
	0.33921 10E 00	0.21843 10E 00	0.80913 10E-01	0.13118 10E 00	0.48590 10E-01	0.31292 10E-01
1	-.005531	-.035765	.109041	.041329	.007910	-.033021
2	.013848	-.038631	.054705	-.018800	.006513	.034671
3	-.003966	-.022530	.031058	.044766	.036759	.046770
4	-.050099	.051783	.020713	-.026539	.043732	-.008546
5	-.036362	-.004133	.053350	.028075	.035526	-.014222
6	-.007676	-.004376	.039971	.038164	.040138	.005735
7	-.004480	-.003220	.026996	-.026378	.000311	.001183
8	-.002840	.012714	.038216	-.082772	.027149	-.010653
9	.011747	.012105	.022450	.051741	.029249	-.060819
10	.026957	-.021836	-.010600	.006459	.009637	-.009858
11	.001277	-.027018	-.059168	.005434	-.002101	.042246
12	.041363	-.006022	-.060224	.022137	-.042175	.016059
13	.024240	-.026583	.015487	.036593	-.059633	-.021194
14	.035277	-.005927	.033372	.019245	-.019964	-.002513
15	.012826	.023634	.004901	.055174	-.031882	-.005161
16	-.016905	.019816	.013688	-.010159	.026467	-.018432
17	-.023210	-.030984	.038431	-.050237	.004386	.042038
18	-.031202	-.006834	.024603	-.010966	-.004594	-.015164
19	-.055429	.025113	-.012903	-.061547	-.018492	-.004603
20	.016983	.002555	-.000375	-.013894	-.008070	-.017891
21	.041207	-.022079	-.013157	.009194	-.023697	-.000299
22	.040235	.006159	-.050599	-.011128	-.012020	.012311
23	.015590	.043553	-.067126	-.008963	-.006062	.053658
24	-.057246	.022816	-.046100	.000778	.004968	.003137
25	-.044764	-.061049	-.013772	-.033251	.016775	.075621
26	.044942	.002495	-.001511	.060326	-.008330	.001047
27	-.030365	-.013375	-.007784	-.013122	.055224	.027376
28	-.020415	.008244	-.031342	.005160	-.018924	.018138
29	-.013424	.089989	.034803	-.042895	.023068	-.088854
30	-.091743	.055777	.046662	-.053926	.049066	-.084762

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	.069036	-.069877	.084653	.052726	.110741	-.043955
2	-.028303	-.042837	.101722	.058330	.471811	-.056592
3	-.252546	.014547	.111422	-.011347	.734600	.044194
4	-.387001	.030226	.152258	-.031859	.529954	.082445
5	-.157917	-.042487	.107500	.098657	.100604	.182677
6	.179896	-.124061	-.008101	.137460	-.217570	.218833
7	.076077	-.169807	-.006366	.018103	-.015941	.125412
8	-.006063	-.104809	.056737	-.043311	.264846	.044040
9-11	.179947	-.130812	.091120	-.031289	-.207564	-.011939
12-14	.054199	-.144585	.061862	.109386	-.011779	-.065096
15-21	-.113743	.064954	.048076	-.001213	-.009912	-.251023
22-30	-.012032	-.088276	.030690	.135871	.064557	-.005519



RUN NO. 678 40M 05-10-62 0404-0520 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORM/LIZED AUTOCOVARIANCE

M	U	V	W	T
	0.56486 10E 00	0.20370 10E 00	0.84461 10E-01	0.11590 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.389894	.007951	.018166	.347123
2	-.038967	-.096280	-.122947	.029818
3	-.039241	.003272	-.057924	-.033017
4	-.023975	-.041711	-.082028	-.087481
5	-.054484	-.071958	-.070881	-.082564
6	-.145955	.043832	-.052229	-.181259
7	-.155448	-.121917	-.150178	-.205933
8	-.102215	-.094360	.086400	-.129352
9	-.142048	-.133144	.085674	-.124950
10	-.182510	.005662	-.108493	-.152437
11	-.094366	.004297	-.004386	-.093946
12	-.016148	-.055240	-.001409	.015925
13	.027907	.049191	-.062015	.073942
14	.018405	-.069126	-.033652	.002607
15	-.031497	-.052543	-.009235	.047853
16	-.011772	.085009	-.067560	.069811
17	.030732	-.013081	.086763	.023395
18	-.015021	-.040212	.085620	.038756
19	-.013551	.021868	.040483	.031492
20	-.061064	.035411	.003808	-.032396
21	-.066136	-.009103	-.093357	-.053968
22	-.046951	.015644	.029060	-.087656
23	-.062773	.023681	-.002142	-.021649
24	.068547	-.009758	-.056758	-.012869
25	.171961	-.026068	-.007568	.035951
26	.092648	.029450	.049831	.006411
27	-.000120	-.002975	-.042392	.048794
28	.017661	-.003204	-.004568	.080865
29	.103272	.013295	-.115695	.126956
30	.078784	.017599	.050577	.004675

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.008587	.002089	.010734	.002427
1	.204612	.033058	.102676	.030021
2	.338032	.059334	.162480	.054089
3	.479166	.091196	.269570	.100576
4	.522971	.094353	.293795	.122845
5	.408632	.082519	.305921	.093112
6	.261076	.068580	.435122	.061782
7	.258963	.056124	.487191	.055946
8	.272110	.056941	.358031	.052976
9-11	.292609	.094203	.304538	.052188
12-14	.289893	.081527	.444083	.051698
15-21	.195271	.106663	.425921	.035828
22-30	.108579	.111541	.437295	.033378

RUN NO. 67B 16M 05-10-62 0404-0520 EST  
 RUN NO. 67B 40M 05-10-62 0404-0520 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	.458902	.032303	.282675	.611882
1	.527103	.485025	.378106	.649767
2	.536532	.543424	.411243	.570722
3	.495554	.543277	.394118	.476417
4	.376704	.470409	.323570	.403135
5	.224981	.407117	.294385	.383255
6	.182762	.409571	.330803	.352095
7-8	.097020	.431479	.397943	.341677
9-11	.054360	.344963	.325386	.265624
12-15	.074897	.222063	.234281	.283071
16-20	.071738	.128905	.195016	.150484
21-27	.111205	.142311	.155116	.124626
28-36	.100799	.095674	.089301	.084111
37-47	.122610	.137717	.095380	.118991
48-60	.062183	.129053	.112315	.086345

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	.145287	.158314	.555249	.398820
1	.517090	.481326	.434354	.646966
2	.606835	.383473	.233038	.680275
3	.668437	.236069	.279717	.745380
4	.683063	.066496	.322359	.776866
5	.634705	.449013	.358679	.702307
6	.559426	.469214	.452943	.614381
7	.485976	.325207	.428832	.608395
8	.445371	.448945	.382340	.586244
9-11	.552153	.487931	.377974	.721738
12-14	.561293	.402836	.429261	.545469
15-21	.320543	.395808	.269000	.374194
22-30	.303663	.213063	.261632	.317143

RUN NO. 67C 16M 05-10-62 0533-0649 EST

GROSS STATISTICS

CLEAR	WIND SPEED	6.23 M/SEC	WIND DIRECTION	292 DEG
TRANSITIONAL	SIGMA A	8.5 DEG	SOLAR RADIATION	0.41
LAND	SIGMA E	5.8 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
<b>VARIANCES</b>				
U	0.14974E 01	0.14245E 01	0.85995E 00	0.10293E 01
V	0.85608E 00	0.82549E 00	0.70087E 00	0.46790E-00
W	0.36128E-00	0.35910E-00	0.32106E-00	0.14394E-00
T	0.43069E-00	0.42958E-02	0.28169E-02	0.30017E-02
E	0.13574E 01	0.13046E 01	0.94095E 00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>BUSINESS RATIOS</b>				
U	0.19642	0.19157	0.14885	0.16285
V	0.14851	0.14584	0.13438	0.10980
W	0.09648	0.09619	0.09095	0.06090

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>COVARIANCES</b>				
U,V	-0.12568E-00	-0.15967E-00	-0.10309E-00	-0.12026E-00
U,W	-0.29742E-00	-0.29782E-00	-0.19271E-00	-0.20892E-00
U,T	0.13702E-01	-0.34718E-01	-0.16925E-01	-0.28812E-01
V,W	-0.11353E-01	-0.12194E-01	-0.16577E-02	-0.20224E-02
V,T	0.63770E-01	-0.89937E-02	-0.82073E-02	-0.58712E-02
W,T	0.12038E-02	0.67949E-02	0.25441E-02	0.55778E-02
WE	0.75539E-02	-0.28868E-02	0.16459E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>NORMALIZED COVARIANCES</b>				
U,V	-0.11101	-0.14725	-0.13279	-0.17330
U,W	-0.40437	-0.41640	-0.36676	-0.54278
U,T	0.01706	-0.44382	-0.34388	-0.51835
V,W	-0.02041	-0.02240	-0.00349	-0.00779
V,T	0.10502	-0.15103	-0.18471	-0.15667
W,T	0.00305	0.17300	0.08460	0.26835

RUN NO. 67C 16M 05-10-62 0533-0649 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.77630 10E 00	0.52540 10E 00	0.49224 10E-01	0.47443 10E 00	0.44449 10E-01	0.30083 10E-01
0	-.132826	-.366856	-.343528	-.003438	-.184572	.084609
1	-.125471	-.321370	-.312080	.007008	-.148603	.082184
2	-.110459	-.253209	-.271099	.021922	-.102528	.068747
3	-.091779	-.184982	-.240312	.021046	-.079817	.063124
4	-.075450	-.133609	-.213256	.013711	-.062202	.058748
5	-.061807	-.088653	-.187654	.015271	-.048886	.055936
6	-.047544	-.053864	-.161950	.018906	-.038221	.056780
7	-.035212	-.032395	-.136832	.017816	-.027286	.058030
8	-.021107	-.019009	-.113554	.015351	-.014665	.053497
9	-.006924	-.010094	-.089198	.013641	.000703	.047199
10	.003972	-.005542	-.061915	.008654	.016005	.036263
11	.012609	.008709	-.039623	-.000406	.029844	.025570
12	.012808	.032167	-.011925	-.001961	.031907	.009982
13	.009638	.051868	.017507	-.003723	.036822	-.000524
14	.006466	.060338	.051190	-.014491	.044763	-.011835
15	.006659	.061124	.081110	-.015829	.048242	-.020921
16	.008212	.073248	.106740	-.016158	.053771	-.033403
17	.014613	.082502	.122519	-.007904	.054185	-.042867
18	.023302	.089253	.128285	-.001646	.058388	-.042417
19	.030698	.097715	.128907	-.000569	.067395	-.040059
20	.038479	.103663	.130964	-.007548	.078447	-.037927
21	.047177	.096036	.134539	-.013654	.080867	-.033484
22	.054379	.085495	.131742	-.019692	.070924	-.022040
23	.059310	.075724	.130072	-.018035	.063141	-.014574
24	.061169	.068621	.126504	-.018564	.059773	-.014336
25	.067743	.060405	.123271	-.023902	.051944	-.014224
26	.069494	.048374	.122486	-.028040	.043837	-.020512
27	.064221	.041175	.122720	-.025690	.038998	-.030888
28	.053281	.046192	.116076	-.019791	.029025	-.033345
29	.041646	.046602	.100951	-.011920	.023207	-.034954
30	.037521	.042407	.080282	-.010553	.014571	-.025881
31	.031352	.035471	.063371	-.006915	.004747	-.022323
32	.023932	.028039	.052605	-.005840	-.008909	-.014645
33	.019800	.018016	.045508	-.010989	-.023570	-.009282
34	.020175	.015572	.040494	-.019495	-.027522	-.008344
35	.017042	.018070	.037178	-.017968	-.035706	-.011243
36	.011634	.010204	.030933	-.023002	-.039878	-.018512
37	.011136	.002906	.023673	-.023250	-.036132	-.028215
38	.015730	.001800	.019047	-.021020	-.026159	-.037535
39	.021541	-.004133	.014559	-.018759	-.025809	-.042438
40	.017898	-.002991	.007959	-.013939	-.026634	-.041156
41	.009844	-.009682	.003865	-.001793	-.029149	-.042983
42	.004964	-.009720	-.001996	.008396	-.025511	-.046156
43	.004570	-.008410	-.012759	.022041	-.020418	-.049740
44	-.002410	-.008627	-.022685	.038673	-.015723	-.040787
45	-.010617	-.008868	-.027627	.050318	-.018013	-.026556
46	-.021422	-.013409	-.023541	.054556	-.025327	-.015636
47	-.028352	-.023685	-.021495	.050756	-.032212	-.003219
48	-.030331	-.018120	-.022957	.038327	-.039139	.001012
49	-.028752	-.006330	-.023948	.030769	-.047888	-.002393
50	-.026045	.008309	-.024128	.030412	-.046838	-.007427
51	-.017465	.022102	-.021073	.026134	-.041567	-.004640
52	-.009972	.023862	-.020120	.012149	-.033155	-.002223
53	-.009574	.017452	-.015585	.005934	-.023113	.005420
54	-.015331	.020588	-.008157	.015575	-.015279	.009954
55	-.017570	.015091	-.003496	.026498	-.013861	.021557
56	-.014939	.006535	-.002132	.017646	-.013221	.032328
57	-.007974	.000657	.001850	.009420	-.007959	.030939
58	.000012	-.006611	.009618	.005755	-.008119	.016586
59	.009466	-.007979	.018692	-.000226	-.009549	.011008
60	.012916	.000298	.019036	.002864	-.001852	.006546

RUN NO. 67C 16M 05-10-62 0533-0649 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.77630 10E 00	0.52540 10E 00	0.49224 10E-01	0.47443 10E 00	0.44449 10E-01	0.30083 10E-01
1	.004601	-.025260	-.050550	.000343	-.002522	.002755
2	.008711	-.045478	-.071828	-.000631	.002170	.010182
3	.015307	-.051149	-.079322	-.004267	.010189	.003540
4	.025451	-.049721	-.082363	-.007363	.018917	-.007911
5	.035379	-.044744	-.084222	-.002378	.030278	-.013567
6	.043735	-.040810	-.088844	.003935	.044627	-.007622
7	.049805	-.045424	-.085652	.012571	.044103	-.000813
8	.053300	-.039229	-.082090	.016543	.035520	.007797
9	.056628	-.028752	-.083144	.023659	.031819	.011927
10	.061862	-.013546	-.084396	.031679	.030426	.020496
11	.069954	-.016968	-.092795	.032522	.026123	.030589
12	.072478	-.018369	-.105633	.038086	.024527	.031178
13	.076253	-.010034	-.114509	.039871	.030027	.028667
14	.082973	.001691	-.119219	.049757	.035094	.033960
15	.085208	.010576	-.118078	.051336	.034946	.035096
16	.085702	.020611	-.115910	.045826	.035238	.035699
17	.088641	.021806	-.115429	.037014	.037913	.033759
18	.083283	.014194	-.104051	.021611	.037150	.031806
19	.074332	.008417	-.091431	.003354	.033870	.031715
20	.058088	.002913	-.077275	-.008672	.026512	.027228
21	.043933	-.003230	-.058337	-.014411	.022152	.019435
22	.034818	.001889	-.045653	-.013208	.019743	.016901
23	.026236	.005624	-.035779	-.020225	.012924	.015974
24	.018654	.011012	-.025145	-.036064	.009064	.010620
25	.007358	.013058	-.010611	-.041632	.001424	-.001559
26	-.000392	.015290	.005473	-.041204	-.003885	-.007329
27	-.007049	.017182	.024062	-.043816	-.004622	-.013670
28	-.009902	.018294	.034585	-.044300	-.001326	-.015763
29	-.008631	.013835	.033471	-.044205	-.002280	-.013245
30	-.007766	.007726	.032878	-.044761	-.009144	-.017256
31	-.012548	.010831	.033742	-.050130	-.014364	-.019954
32	-.014820	.018145	.036763	-.046116	-.023240	-.012498
33	-.015599	.019109	.034903	-.042694	-.027254	-.008565
34	-.019792	.013467	.033253	-.039899	-.021938	-.009029
35	-.021549	.014925	.031910	-.031243	-.015890	-.004654
36	-.020827	.008883	.029387	-.012887	-.007896	.000880
37	-.016943	.003544	.025553	.003987	-.007104	.007270
38	-.021251	-.000889	.027517	.011153	-.005581	.006667
39	-.026409	.000209	.033351	.009551	-.004375	.001630
40	-.026822	.000181	.041233	.015799	-.006064	.005795
41	-.020528	-.001828	.045014	.018701	-.008306	.009899
42	-.012132	.000354	.044175	.026227	-.010491	.018161
43	-.010514	.007372	.040499	.031645	-.015367	.018493
44	-.011832	.007862	.038288	.037758	-.011532	.013842
45	-.009810	.005751	.037707	.046803	-.006416	.014001
46	-.016485	.003591	.039339	.044374	-.006386	.012558
47	-.027434	.001702	.043599	.035275	-.012003	.008976
48	-.037354	-.003979	.045934	.028895	-.016428	.009417
49	-.043808	-.010643	.040882	.023143	-.017606	.006335
50	-.041174	-.014488	.029700	.022526	-.019036	.001982
51	-.038219	-.011483	.023581	.023087	-.023657	-.002708
52	-.038223	-.009715	.017160	.022715	-.027883	-.005985
53	-.034665	-.007124	.006266	.020639	-.025876	-.003517
54	-.028833	-.004417	-.007660	.020379	-.025094	.003464
55	-.023465	-.004669	-.018584	.020744	-.020172	.003276
56	-.018157	-.012838	-.028348	.019552	-.009594	-.001600
57	-.008351	-.018129	-.032081	.019642	-.004473	-.006669
58	-.001212	-.022631	-.038950	.019844	-.001859	-.008420
59	.001129	-.025647	-.039529	.009631	-.000511	-.012846
60	.002214	-.029858	-.037845	-.000632	.001354	-.020524

RUN NO. 67C 16M 05-10-62 0533-0649 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTO-COVARIANCE

M	U	V	W	T
	0.85969 10E 00	0.70100 10E 00	0.32109 10E 00	0.28184 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.841138	.804506	.658838	.812127
2	.654509	.583702	.367179	.601911
3	.510622	.431173	.187781	.445342
4	.396574	.317049	.080382	.325517
5	.30737	.219824	.013683	.238291
6	.232504	.139089	-.022008	.176496
7	.168754	.075155	-.035558	.131238
8	.124749	.024683	-.049320	.090482
9	.083800	-.011116	-.056938	.055109
10	.040976	-.041220	-.058972	.019608
11	-.003585	-.074372	-.068796	-.011390
12	-.048062	-.095018	-.091486	-.043415
13	-.092716	-.110915	-.104322	-.089345
14	-.136556	-.132156	-.095287	-.126818
15	-.168968	-.153578	-.093653	-.150831
16	-.189082	-.164948	-.103842	-.167350
17	-.201897	-.178994	-.108775	-.174995
18	-.214370	-.196513	-.108742	-.179993
19	-.223072	-.210696	-.127382	-.192623
20	-.229158	-.221318	-.147860	-.207041
21	-.232606	-.232150	-.154632	-.209738
22	-.232846	-.229789	-.144742	-.201273
23	-.235929	-.228214	-.136682	-.203828
24	-.237353	-.238259	-.120228	-.210199
25	-.233439	-.241768	-.101719	-.214938
26	-.229336	-.233821	-.097104	-.232908
27	-.227184	-.219199	-.094490	-.239780
28	-.215877	-.205854	-.078911	-.232619
29	-.193606	-.187439	-.044036	-.208674
30	-.167065	-.157858	-.016418	-.173567
31	-.139130	-.118274	.003708	-.135662
32	-.112849	-.077321	.013736	-.096396
33	-.074631	-.044993	.010725	-.063270
34	-.084157	-.022775	.009867	-.050461
35	-.073292	.000775	-.000232	-.037649
36	-.060803	.017127	.008301	-.024282
37	-.051678	.018982	.033583	-.016334
38	-.046278	.012108	.047345	.001996
39	-.036380	.015599	.060672	.016057
40	-.022414	.027406	.059917	.026582
41	-.006311	.037920	.050134	.028938
42	.013300	.039490	.040901	.030972
43	.023859	.027323	.037720	.034786
44	.032951	.017151	.036737	.038764
45	.031955	.022652	.036121	.040966
46	.030727	.041742	.027387	.036811
47	.031855	.056178	.039408	.030660
48	.030239	.063231	.053793	.028479
49	.023630	.061797	.057639	.036864
50	.017428	.065268	.042134	.046088
51	.016305	.065368	.018304	.046505
52	.018499	.066013	.001752	.034021
53	.021339	.063017	-.011549	.022141
54	.017503	.068333	-.022681	.006366
55	.017849	.071839	-.011175	.002542
56	.012382	.070609	-.010846	.004124
57	.005783	.063413	-.010904	-.004569
58	.001494	.058684	.003153	-.017474
59	-.010120	.053249	.002346	-.047176
60	-.015798	.042112	-.016970	-.075780

RUN NO. 67C 16M 05-10-62 0533-0649 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-03
0	-.012539	-.026600	-.041689	-.031907	.000214	.096081
1	-.191828	-.230282	-.361047	.143342	-.039429	.846782
2	-.249038	-.288738	-.426292	.431425	-.117271	.770157
3	-.211155	-.318214	-.395630	.303526	-.171292	.562816
4	-.094219	-.226006	-.200438	.006957	-.108092	.366985
5	-.053341	-.140244	-.071378	.059250	-.039645	.107262
6	-.064728	-.097457	-.026164	-.053024	-.028604	-.106055
7-8	-.072544	-.083188	-.018078	-.038550	-.034379	-.104916
9-11	-.004228	-.072815	-.031180	-.101987	-.016922	.065436
12-15	-.006903	-.039727	-.013473	.006958	-.016591	.034759
16-20	-.008667	-.010721	-.011464	-.025779	-.012942	.022646
21-27	-.001105	-.012277	-.006114	-.053137	-.007592	.006813
28-36	-.000409	-.004861	-.004460	-.041524	-.005295	.005198
37-47	.000060	-.001772	-.002876	.002139	-.003415	-.000580
48-60	-.000616	-.002863	-.001348	.000436	-.000950	-.007165

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	.240542	.065924	-.198847	-.083708	.590440	.330114
2	.253149	-.265676	-.239115	.344893	.713089	.286697
3	.178146	-.590129	-.192304	.855386	.566923	.235764
4	.036829	-.599718	-.064445	.305679	.181812	-.026915
5	-.042126	-.527212	.003574	-.420791	-.019322	-.235594
6	-.040597	-.491490	.003658	-.385053	.050619	-.158353
7-8	.001626	-.307131	-.038585	-.173613	.096426	-.031476
9-11	.002367	-.077740	-.031425	.043367	-.021549	.000271
12-15	-.007003	-.118033	-.009337	-.044229	-.105053	.047067
16-20	-.003240	-.051485	-.007415	.042013	-.028652	.031475
21-27	.002203	-.009748	-.006433	.014473	.014722	.014254
28-36	.000327	-.003948	-.002204	-.005468	-.019810	-.018465
37-47	.000396	.010538	-.001985	-.003627	.005189	-.006594
48-60	-.000143	-.001542	.000087	.003198	-.004549	-.006345

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.013895	.004478	.011540	.039596
1	.123989	.067660	.133627	.348960
2	.147051	.100138	.230873	.431295
3	.141933	.107877	.309283	.428756
4	.086642	.067430	.237396	.253478
5	.052557	.041693	.165867	.158610
6	.041270	.041092	.159588	.151473
7-8	.031308	.034805	.167824	.112125
9-11	.023877	.021498	.125910	.089326
12-15	.015325	.012942	.100504	.059032
16-20	.008324	.008469	.062099	.033458
21-27	.005794	.006301	.045159	.021127
28-36	.003605	.003950	.031994	.014485
37-47	.002622	.002519	.023031	.010138
48-60	.001616	.001686	.018622	.006994

RUN NO. 67C 16M 05-10-62 0533-0649 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
	0.69427 10E 00	0.38522 10E 00	0.55619 10E-01	0.25960 10E 00	0.37482 10E-01	0.20797 10E-01
0	-.173224	-.542339	-.518026	-.007790	-.156642	.268203
1	-.099363	-.280286	-.350259	-.030704	-.040555	.193961
2	-.015808	-.120903	-.154046	-.011891	-.008632	.066008
3	.015621	-.075772	-.068793	-.017683	-.044764	.024389
4	.016222	.033580	.010284	.002567	-.049629	-.078469
5	-.002970	.040675	.043159	.068976	-.052368	-.078463
6	.023733	.081429	.064766	-.000729	-.023116	-.032831
7	.017339	.096739	.079826	-.001132	.023095	-.040805
8	.017065	.048331	.063064	.004587	.038143	-.007466
9	.025875	.037999	.046262	-.029042	.012162	.031765
10	.070408	.105496	.093806	-.052729	.012746	-.021682
11	.084981	.175098	.140478	-.032675	.020685	-.097753
12	.034426	.095399	.087916	-.004141	.067916	-.051737
13	-.007634	.092729	.028718	.043185	.103537	.006297
14	-.018168	.095610	.054230	.062090	.112006	-.003051
15	-.007547	.033746	.065823	.014286	.068880	.001093
16	.020360	.060122	.020438	-.036591	.020640	.019123
17	.011020	.021123	.028505	-.034623	-.019605	.020332
18	.014215	-.019532	.037142	-.018861	-.015632	.042800
19	-.009460	.005245	.045531	-.020923	.010853	-.003950
20	-.026597	.029997	.095822	.023386	.009596	-.059948
21	-.042245	.016973	.074281	.015667	.013131	-.004671
22	-.039390	-.029249	.043184	.050123	.004744	-.021474
23	-.027316	-.051886	.010629	.092350	-.001722	-.058873
24	.025932	-.073653	-.044117	-.001065	-.060292	-.034316
25	-.006988	-.111354	-.041640	.003555	-.100964	-.009131
26	.025447	-.090570	-.033957	.002889	-.123300	.013808
27	.086012	-.075170	-.022820	-.003279	-.060814	-.029253
28	-.016895	.007114	.004112	-.009050	.011520	-.039391
29	-.055323	.035709	-.033056	-.049901	.006087	-.032694
30	-.054991	.000916	-.088394	-.014511	.010761	-.001931

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	.002265	-.005821	-.031105	-.025059	-.001681	.072427
1	-.045096	-.153381	-.335307	-.134820	-.069945	.473971
2	-.115231	-.254603	-.387474	-.019318	-.110471	.489373
3	-.170391	-.281293	-.389631	.006748	-.079874	.664883
4	-.120764	-.195429	-.334314	-.061534	-.000265	.702232
5	-.069180	-.143564	-.252554	-.092719	.018422	.524173
6	-.044352	-.132366	-.184807	-.346584	-.009344	.557823
7	-.052923	-.149755	-.204038	-.373225	-.027052	.713848
8	-.125934	-.119785	-.178690	.075775	.020240	.588043
9-11	-.067581	-.049986	-.088914	.089191	-.018335	.138265
12-14	-.068141	-.070411	-.087792	.135111	-.035001	.150191
15-21	-.015768	-.049612	-.040915	-.076327	-.025762	.085454
22-30	-.012186	-.037379	-.017171	.107724	-.018462	-.023898



RUN NO. 67C 16M 05-10-62 0533-0649 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
	0.69427 10E 00	0.38522 10E 00	0.55619 10E-01	0.25960 10E 00	0.37482 10E-01	0.20797 10E-01
1	.085522	-.020801	-.128648	.029981	.031910	.061576
2	.102707	.020696	-.147735	.002961	.034792	.112205
3	.031010	.040626	-.096931	-.081634	-.003132	.083465
4	.025706	.028054	-.065879	.054832	-.015202	.103281
5	-.013613	.017091	-.048744	.068861	-.022562	.068038
6	.023380	.010912	-.078426	.015369	.005155	.032681
7	.041484	.026643	-.054877	.003620	.049659	.026265
8	.025560	.034362	-.035031	-.058598	.014897	-.003638
9	.041563	-.025830	-.050047	.042706	.031948	.012661
10	.048804	-.076053	-.038646	.083256	.061079	-.031655
11	.045893	-.055889	-.011222	-.003994	.094194	-.058066
12	.019768	-.019015	.021343	-.019140	.041731	-.009684
13	.026010	.017915	.028981	-.007498	.055155	-.047799
14	-.011849	-.024970	.010687	-.004096	.041834	-.024870
15	-.039576	.007088	.040236	.031911	.005610	-.025098
16	-.027272	.023141	.045837	.009058	-.023467	-.038428
17	-.043514	-.015114	.025105	-.043193	-.009469	-.064364
18	-.060476	.005927	.028596	-.089111	-.049254	-.029625
19	-.059773	.019459	.053692	-.064405	-.124686	-.008423
20	-.114013	-.003345	.108588	-.061234	-.119671	-.049679
21	-.073680	-.017454	.096915	-.022098	-.119623	-.028453
22	-.053425	-.010944	.041526	-.015890	-.045926	.050058
23	.005552	-.031570	-.008187	.055301	.010632	.018743
24	-.004448	-.018640	.002880	.035328	.021864	.002439
25	.032551	.008887	-.029128	.008051	.047258	.011979
26	.098541	.043451	-.072641	.080881	.082069	.040804
27	.111555	.037188	-.084501	.074056	.079274	.036768
28	.065733	-.003052	-.035691	-.000562	-.006643	-.002410
29	.001455	-.042650	.023631	.012739	-.041965	-.016072
30	-.004594	-.012300	-.021350	-.068068	-.036286	-.006866

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	.060882	-.139805	-.078765	.038287	.529632	-.030603
2	.155870	.057062	-.182929	.245257	.713054	.342653
3	.108227	.326940	-.196325	.177584	-.018827	.662341
4	-.017218	.530553	-.108157	-.131629	-.713813	.558190
5	.040510	.372197	-.094846	.010052	-.002824	.414948
6	.084389	-.083232	-.073691	.046037	.268194	.314181
7	.094399	-.262250	-.080676	-.141120	.118997	.163441
8	.108727	-.176429	-.110789	-.048787	.305134	.123380
9-11	.081146	.146398	-.071779	-.252102	.231500	.089206
12-14	.047135	-.340249	-.058381	.359687	.189144	.012047
15-21	.014758	-.077829	-.006680	.219724	-.002752	.034661
22-30	-.025003	-.023016	.002380	-.202856	-.028555	-.082198

RUN NO. 67C 16M 05-10-62 0533-0649 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.10302 10E 01	0.46787 10E 00	0.14404 10E 00	0.300 7 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.578917	.302745	.221242	.587805
2	.274042	-.036759	-.001685	.287237
3	.123832	-.108113	.058607	.114842
4	-.008663	-.108091	-.029518	.009972
5	-.055124	-.035235	-.039063	-.047107
6	-.103296	-.051286	-.165395	-.113561
7	-.140984	-.113391	-.151025	-.108174
8	-.120948	-.117658	-.078377	-.086786
9	-.147100	-.060535	-.052709	-.094746
10	-.235362	-.085196	-.091183	-.193366
11	-.318051	-.051175	-.158906	-.294697
12	-.259853	-.099571	-.033589	-.259035
13	-.180516	-.124249	-.099951	-.191321
14	-.161188	-.095274	-.122838	-.219135
15	-.129002	-.007742	.008859	-.144241
16	-.067100	.006293	-.002830	-.070092
17	-.041117	.055621	.028600	-.051554
18	-.040413	.050503	.063632	-.066352
19	-.029943	.040507	.081344	-.098701
20	-.086907	.047280	.020274	-.078471
21	-.033483	.042919	-.022974	-.043822
22	.051208	.030669	.006753	.038221
23	.082251	-.043242	.017178	.082973
24	.169332	-.031506	-.002543	.122158
25	.202123	.087002	.063070	.159831
26	.188759	.095378	-.031120	.124287
27	.144619	-.058623	.007570	.060169
28	.065661	.020306	.041642	.020508
29	.070734	.072347	.047411	.077713
30	.106970	.102512	-.044256	.169256

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.003645	.002521	.002895	.018688
1	.091747	.111378	.046861	.312011
2	.144649	.241243	.084974	.431652
3	.152256	.356388	.121052	.419297
4	.100819	.297954	.101426	.267407
5	.066551	.232966	.072809	.193693
6	.054868	.276196	.074453	.181699
7	.069302	.301261	.073633	.220427
8	.063468	.248535	.049829	.189156
9-11	.031677	.264505	.042450	.084424
12-14	.030747	.227970	.066828	.090763
15-21	.018464	.151154	.060775	.049735
22-30	.015934	.137695	.054172	.046870

RUN NO. 67C 40M 05-10-62 0533-0649 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.11 M/SEC	WIND DIRECTION	299 DEG
TRANSITIONAL	SIGMA A	7.8 DEG	SOLAR RADIATION	0.41
LAND	SIGMA E	6.1 DEG	NET RADIATION	0.12

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

VARIANCES

U	0.14923E 01	0.14319E 01	0.96665E 00	0.10508E 01
V	0.91248E 00	0.86302E 00	0.75825E 00	0.45180E-00
W	0.54541E 00	0.54734E 00	0.48978E-00	0.24373E-00
T	0.41836E-00	0.34844E-02	0.21508E-02	0.24872E-02
E	0.14751E 01	0.14212E 01	0.11073E 01	

GUSTINESS RATIOS

U	0.17181	0.16830	0.13828	0.14417
V	0.13435	0.13066	0.12247	0.09454
W	0.10387	0.10405	0.09843	0.06944

COVARIANCES

U,V	-0.10095E-01	0.13615E-01	0.19937E-01	0.20640E-01
U,W	-0.37377E-00	-0.37273E-00	-0.26958E-00	-0.27533E-00
U,T	-0.11701E-00	-0.16710E-01	-0.77722E-02	-0.14498E-01
V,W	-0.66237E-01	-0.64984E-01	-0.72189E-01	-0.41282E-01
V,T	0.11692E-00	0.76519E-02	0.50734E-02	0.45454E-02
W,T	-0.93682E-02	0.51282E-02	0.24865E-02	0.51419E-02
WE	0.16434E-01	-0.97942E-02	0.38100E-01	

NORMALIZED COVARIANCES

U,V	-0.00865	0.01225	0.02329	0.02496
U,W	-0.41430	-0.42103	-0.39179	-0.54405
U,T	-0.14808	-0.23656	-0.17046	-0.28359
V,W	-0.09389	-0.09455	-0.11846	-0.12440
V,T	0.18923	0.13954	0.12563	0.13559
W,T	-0.01961	0.11743	0.07661	0.20884

RUN NO. 67C 40M 05-10-62 0533-0649 ES  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.85612 10E 00	0.68815 10E 00	0.45600 10E-01	0.60952 10E 00	0.40390 10E-01	0.32465 10E-01
0	.023195	-.391662	-.170310	-.118671	.125643	.076725
1	.022776	-.370397	-.157653	-.091150	.111444	.076267
2	.027739	-.318759	-.135870	-.064580	.085152	.069387
3	.034034	-.253151	-.115561	-.058626	.061617	.060750
4	.029428	-.187436	-.092568	-.049051	.041069	.054541
5	.026674	-.134463	-.070648	-.045125	.015913	.045774
6	.027774	-.083372	-.052454	-.039294	-.007427	.033164
7	.025724	-.046136	-.034957	-.029880	-.018731	.022661
8	.025092	-.018014	-.019637	-.022743	-.020185	.016609
9	.020870	.001264	-.007364	-.014860	-.018988	.009437
10	.013747	.018895	.005679	-.005479	-.015307	.000666
11	.001606	.031420	.014984	-.001413	-.008042	-.006273
12	-.005282	.041143	.022040	.005211	-.001717	-.007276
13	-.010263	.045797	.028410	.013991	-.001691	-.007814
14	-.013403	.051748	.029500	.024812	-.003663	-.010148
15	-.020234	.059906	.027633	.032076	-.000243	-.015816
16	-.025379	.068626	.027630	.035439	.007448	-.016145
17	-.029813	.077949	.036952	.045177	.014577	-.015636
18	-.032276	.086091	.046082	.055730	.022197	-.020834
19	-.034240	.094360	.051544	.058595	.029058	-.029910
20	-.030733	.104883	.060904	.055779	.030193	-.038362
21	-.024794	.120086	.071866	.051642	.033301	-.039989
22	-.023052	.127689	.081639	.050455	.031481	-.039397
23	-.025928	.128410	.086889	.053652	.024379	-.036571
24	-.027841	.128187	.086487	.055324	.014604	-.039388
25	-.026696	.123571	.086360	.059036	.003136	-.039245
26	-.025601	.116346	.078772	.062546	-.008957	-.040151
27	-.025279	.108667	.068644	.057209	-.018219	-.039338
28	-.026298	.098847	.055233	.052318	-.025887	-.037814
29	-.026385	.083682	.040778	.043018	-.027552	-.033198
30	-.028700	.070177	.021034	.024159	-.027798	-.026341
31	-.027101	.061406	.000292	.004776	-.032485	-.024358
32	-.022369	.052885	-.017932	-.013789	-.039559	-.013283
33	-.013445	.040407	-.029745	-.026811	-.041990	.002566
34	-.005721	.033065	-.036277	-.030235	-.039958	.010216
35	.001848	.028178	-.037071	-.026014	-.038142	.008928
36	.007708	.027407	-.032724	-.028013	-.037897	.003689
37	.016854	.027922	-.026958	-.033207	-.034605	-.002679
38	.021268	.024040	-.023152	-.033957	-.030414	-.002874
39	.022860	.009630	-.016244	-.034243	-.026939	-.005929
40	.029517	-.009448	-.006473	-.032888	-.023805	-.005888
41	.042238	-.030226	-.002790	-.030921	-.021590	-.006766
42	.049912	-.043358	-.006656	-.026822	-.024024	-.004964
43	.056901	-.045105	-.009981	-.023438	-.026201	-.001200
44	.061607	-.041741	-.009399	-.026308	-.039634	.006256
45	.062165	-.043019	-.010027	-.021932	-.054133	.017538
46	.052344	-.043913	-.011603	-.011201	-.058679	.025039
47	.034619	-.048524	-.014789	.000341	-.049562	.030599
48	.018823	-.049280	-.017830	.009295	-.036912	.038951
49	.006588	-.039535	-.017801	.020752	-.027579	.040462
50	-.003132	-.027997	-.020555	.027571	-.018436	.038892
51	-.011673	-.016875	-.029337	.024461	-.010556	.037599
52	-.021377	-.005950	-.040343	.022517	-.002240	.032124
53	-.031279	.003727	-.045899	.022771	.006030	.027212
54	-.036675	.010822	-.044428	.012446	.010631	.017960
55	-.033721	.008218	-.037693	-.008490	.010459	.009967
56	-.033303	.002371	-.030774	-.020571	.007825	.003494
57	-.032117	-.003959	-.021102	-.023076	.005766	.003304
58	-.028110	-.005588	-.010497	-.020875	.004694	.006484
59	-.026297	-.003905	-.003925	-.013360	.008896	.003154
60	-.021556	-.003492	-.000127	-.014132	.003986	.001796

RUN NO. 67C 40M 05-10-62 0533-0649 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.85612 10E 00	0.68815 10E 00	0.45600 10E-01	0.60952 10E 00	0.40390 10E-01	0.32465 10E-01
1	.013547	-.004387	-.019977	.014555	.026359	-.010469
2	.025789	-.015921	-.029081	.034560	.040630	-.009807
3	.038042	-.032115	-.033383	.050578	.050303	-.008580
4	.043158	-.044614	-.039166	.059025	.053560	-.011175
5	.044466	-.056343	-.046400	.066942	.048138	-.020835
6	.050755	-.062218	-.053242	.070948	.045806	-.024217
7	.060838	-.063911	-.056434	.065638	.046310	-.025032
8	.073645	-.060124	-.058626	.058102	.049723	-.019514
9	.085525	-.053814	-.059191	.054004	.047838	-.011034
10	.096367	-.044378	-.062383	.051711	.044613	-.008410
11	.102708	-.034818	-.066970	.055198	.041976	-.004151
12	.097489	-.025968	-.071212	.057600	.044501	.004184
13	.086478	-.023951	-.076150	.050743	.044299	.007987
14	.077381	-.022932	-.076581	.037188	.044849	.006362
15	.070199	-.023290	-.072788	.027303	.040658	.007347
16	.065150	-.020445	-.070847	.015599	.034572	.007080
17	.054973	-.017568	-.073653	.000661	.033072	.012852
18	.042109	-.014582	-.076716	-.005273	.031471	.026197
19	.030719	-.007386	-.073893	.000165	.030402	.035137
20	.020038	.002458	-.062418	.006537	.028663	.035809
21	.012338	.013490	-.047944	.008101	.028919	.027680
22	.001202	.017351	-.035890	.010903	.025941	.016102
23	-.004873	.018815	-.025654	.010603	.024479	.008816
24	-.011408	.028455	-.021022	.003462	.019239	.008990
25	-.017358	.037012	-.018794	-.008293	.014267	.009638
26	-.022902	.043571	-.017596	-.025161	.006002	.015332
27	-.022083	.041427	-.014774	-.036756	-.004450	.018611
28	-.018725	.035060	-.010244	-.037084	-.010584	.016138
29	-.023334	.024357	-.003650	-.036647	-.006291	.006478
30	-.026766	.015061	.005826	-.035706	.003078	-.001189
31	-.027089	.012532	.013131	-.042894	.008215	-.001522
32	-.022300	.007557	.023415	-.050657	.006750	.002839
33	-.019921	.003179	.034305	-.053213	.000393	.007670
34	-.017400	.000872	.044106	-.048350	-.002573	.013093
35	-.015422	.003096	.050964	-.035519	-.007917	.018393
36	-.017264	.010911	.053733	-.025357	-.012396	.021368
37	-.018841	.021441	.054801	-.012471	-.016506	.021742
38	-.020384	.028584	.051914	-.001101	-.017866	.017010
39	-.023525	.028737	.050276	.008654	-.015966	.000129
40	-.026219	.024535	.047296	.014689	-.016643	-.012892
41	-.028607	.022882	.044706	.018347	-.015817	-.016800
42	-.032518	.018273	.048077	.018694	-.016948	-.019995
43	-.037010	.010045	.048494	.020671	-.017517	-.021320
44	-.038614	.002194	.045144	.024895	-.023088	-.022865
45	-.041702	-.006432	.040418	.021274	-.031243	-.026029
46	-.048030	-.009407	.036910	.010287	-.037503	-.026120
47	-.052940	-.008529	.033980	.001337	-.036959	-.023439
48	-.047680	-.012790	.030412	-.010898	-.032326	-.023874
49	-.038251	-.014010	.026409	-.018545	-.025831	-.021803
50	-.031925	-.009609	.016982	-.018377	-.023536	-.013069
51	-.027220	-.002469	.009172	-.017878	-.019802	-.005097
52	-.022513	-.000274	.005327	-.014294	-.012434	-.005532
53	-.021131	-.004235	-.000444	-.015123	-.011119	-.002945
54	-.019008	-.012541	-.008672	-.014618	-.012598	.008438
55	-.013299	-.017248	-.014755	-.011098	-.009091	.011171
56	-.003647	-.023113	-.015626	-.003277	.000440	.009124
57	.012782	-.033101	-.012369	.002662	.012922	.005295
58	.029942	-.038571	-.009108	.011786	.018820	.003243
59	.040456	-.044183	-.012700	.024449	.023927	-.001340
60	.049052	-.040341	-.019452	.039112	.027095	-.004052

RUN NC. 67C 40M 05-10-62 0533-0649 EST  
 61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.96656 10E 00	0.75830 10E 00	0.48993 10E 00	0.21513 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.874078	.803744	.734879	.855076
2	.715827	.568203	.452666	.652378
3	.586395	.403549	.271924	.483615
4	.475742	.286657	.138556	.353310
5	.375833	.197971	.034195	.246714
6	.284364	.130728	-.041724	.158192
7	.202274	.080365	-.074576	.086802
8	.127967	.041624	-.084920	.033735
9	.060221	-.004313	-.084873	-.004048
10	.001311	-.060610	-.099071	-.036104
11	.747802	-.105794	-.100776	-.061367
12	-.081123	-.140165	-.091873	-.080432
13	-.109740	-.168017	-.090441	-.093387
14	-.136161	-.195732	-.089542	-.097705
15	-.160551	-.216497	-.095686	-.095885
16	-.176996	-.224257	-.103769	-.093582
17	-.197558	-.222233	-.108604	-.093135
18	-.221905	-.222611	-.120515	-.101805
19	-.243801	-.223602	-.132210	-.117540
20	-.262385	-.220074	-.130962	-.09716
21	-.282769	-.221918	-.133744	-.161588
22	-.302493	-.221979	-.132404	-.173991
23	-.315303	-.223815	-.122626	-.186740
24	-.320571	-.220597	-.116312	-.194020
25	-.318405	-.214653	-.111509	-.193778
26	-.303964	-.198737	-.119867	-.192552
27	-.283785	-.183647	-.134791	-.188871
28	-.265360	-.165601	-.134787	-.181900
29	-.248776	-.133752	-.113379	-.174059
30	-.227589	-.090883	-.081924	-.159260
31	-.203011	-.056104	-.040673	-.142375
32	-.174953	-.034631	-.010494	-.124479
33	-.149257	-.020489	.011100	-.114285
34	-.122901	-.008680	.032885	-.114418
35	-.099826	-.004262	.040141	-.110387
36	-.082133	.002191	.041899	-.100414
37	-.061440	.020093	.033396	-.086126
38	-.037391	.043886	.020661	-.069526
39	-.013377	.066842	.020225	-.056985
40	.011010	.080586	.040245	-.045180
41	.035218	.091174	.042933	-.033197
42	.052110	.100124	.042325	-.014905
43	.058999	.102223	.053820	-.000007
44	.058511	.089374	.052560	.007162
45	.051102	.070013	.036914	.012713
46	.053585	.051577	.031491	.014178
47	.055896	.043150	.020802	.019817
48	.063996	.034109	.026470	.026608
49	.073877	.025379	.021726	.030802
50	.082819	.020450	.001092	.034070
51	.085248	.028413	-.013328	.035402
52	.081310	.032487	-.020584	.043591
53	.074208	.027828	-.028763	.044932
54	.069928	.021027	-.024387	.036986
55	.061704	.023794	-.001547	.010398
56	.060572	.029404	.023306	-.014157
57	.064031	.026560	.042760	-.026869
58	.063075	.013531	.039432	-.038326
59	.055134	.004672	.025258	-.045243
60	.040506	.006287	.019435	-.050243

RUN NO. 67C 40M 05-10-62 0533-0649 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-03	10E-03
0	-.000910	-.032176	.011273	.000231	.138988	.035331
1	.029651	-.375891	-.100593	-.060369	.943017	.445701
2	.109813	-.515178	-.157318	-.137095	.535881	.675320
3	.135568	-.520539	-.186670	-.182475	.125331	.654805
4	.024912	-.303545	-.101431	-.081099	.298621	.300090
5	-.001583	-.200841	-.024756	.003883	.646619	.118023
6	.002308	-.185524	-.037265	-.016731	.729371	.113158
7-8	-.030044	-.165697	-.055467	-.019165	.361326	.143808
9-11	-.002708	-.070168	-.006637	-.016287	.242086	.014957
12-15	-.002558	-.030655	-.008258	-.007385	.069116	.002853
16-20	-.003613	-.010359	-.002630	-.009808	.014364	-.001934
21-27	-.002662	-.003665	-.001950	-.008097	.025793	.006857
28-36	.000322	.000335	-.001424	-.006454	.024202	-.000767
37-47	.002812	-.000594	-.001246	-.005408	.001693	-.004647
48-60	-.000291	-.000284	-.000124	-.000985	.002465	-.001534

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-03	10E-03
1	.170746	-.014578	-.127623	.041076	.817420	.232689
2	.265673	-.085647	-.160678	.103483	.869851	.087013
3	.257421	-.138442	-.106862	.152313	.638821	-.170710
4	.144980	-.107399	-.014133	.097834	.350898	-.233283
5	.032408	-.056535	-.001394	.037627	.234854	-.200806
6	-.037021	-.017052	-.004185	.053407	.162273	-.169418
7-8	-.023290	-.027997	-.005366	.019919	.182231	.011504
9-11	-.000931	.005146	-.007662	.007310	.091324	-.013129
12-15	.017089	.011895	-.003355	.003145	.070803	.045219
16-20	.000431	.002844	-.001025	-.004115	.046564	-.021391
21-27	-.000888	.001602	-.002731	.001534	-.007574	-.028702
28-36	-.001562	.001543	-.001146	-.002489	.012732	-.008668
37-47	.000968	.000338	-.000342	-.000698	.008530	-.001538
48-60	.000052	-.000873	.000047	.000110	-.001718	-.004982

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-03
0	.012105	.003176	.019105	.036953
1	.145793	.058428	.251212	.296821
2	.190177	.099201	.404864	.322298
3	.179840	.120924	.512230	.290368
4	.098788	.082214	.388923	.193832
5	.061125	.050889	.300915	.161009
6	.055363	.043252	.327028	.151291
7-8	.041013	.032077	.299904	.118883
9-11	.018215	.021873	.217415	.059242
12-15	.012258	.017669	.125369	.040593
16-20	.008072	.010571	.076521	.021327
21-27	.005024	.006405	.054161	.014548
28-36	.003333	.004398	.040862	.007609
37-47	.002056	.002629	.025212	.004502
48-60	.001380	.001633	.016785	.003041

RUN NO. 67C 40M 05-10-62 0533-0649 EST  
 301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.68902 10E 00	0.50610 10E 00	0.51097 10E-01	0.33193 10E 00	0.33512 10E-01	0.24615 10E-01
0	.029956	-.544018	-.283734	-.124370	.135634	.208893
1	.014786	-.236407	-.172394	-.031188	.038699	.122891
2	-.009846	-.064067	-.098353	.049341	.000908	.047864
3	-.008545	.023181	-.064601	.025773	-.058056	.020857
4	.032240	.017437	-.039245	-.035239	-.112175	-.008459
5	.026565	.050718	.014022	.004278	-.101947	-.015455
6	-.012096	.079292	.052939	-.035846	-.038882	-.062820
7	.021925	.055583	.095178	-.024690	.017486	-.079925
8	.030160	.110437	-.107464	.035241	.034658	-.094937
9	.041169	.078951	.082254	-.024889	.023953	-.069303
10	-.018648	.080006	.074845	-.016775	.063374	-.064614
11	-.035912	.080838	.072530	.055178	.045258	-.052013
12	-.076325	.091833	.035448	-.009900	.049112	-.021033
13	-.079476	.073038	-.002065	.044103	.040363	.010879
14	-.040958	.004472	-.033564	.097370	.034599	.065287
15	-.002112	-.046923	.006965	.074500	-.005909	.069675
16	.023614	.003643	.004691	.024219	-.032115	.089758
17	-.036356	.025297	.011914	.004429	-.021668	.020561
18	.004071	.010844	.006057	-.022839	.000314	.007510
19	.069410	-.050041	.069475	-.111542	-.009750	-.079639
20	.038666	.020395	.050680	-.047143	-.025624	-.027475
21	-.033384	.069197	.033266	.008951	-.015656	-.021675
22	.001394	.049059	.043446	.006717	-.041173	-.033149
23	.034100	-.007823	.080887	-.035624	-.029196	-.058612
24	.027561	-.045997	.034432	-.021895	-.011821	-.008400
25	.057576	-.065662	.001282	-.046703	-.003117	-.004632
26	.075201	-.129813	-.019936	.009294	.024352	.002052
27	.022940	-.118391	-.051004	.065033	.060805	.029085
28	-.047453	-.100644	-.106771	.053288	.074932	.111391
29	-.059085	-.059366	-.096069	.004345	.059079	.056156
30	-.052912	.002314	-.066109	.039976	.016513	.026007

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	.017487	-.000161	-.005484	-.000402	-.017289	-.000625
1	.292037	-.118175	-.151286	-.147037	-.166576	.018400
2	.709166	-.225269	-.194698	-.365501	-.347239	.037750
3	.471104	-.299944	-.237011	-.288530	-.353212	.082326
4	-.595012	-.278453	-.248992	.257931	.292003	.110667
5	-.791304	-.188668	-.148195	.187384	.846842	.057988
6	.023439	-.137068	-.039453	-.332318	.948591	.003465
7	.726795	-.171212	-.019230	-.299907	.772826	.014399
8	.379322	-.158623	-.030586	.013956	.563054	.030763
9-11	-.215804	-.117281	-.033682	-.361565	.282323	.015870
12-14	.474491	-.109037	-.053329	-.342676	-.061622	.021260
15-21	.055402	-.071396	-.026271	-.279259	.118759	.008844
22-30	.014970	-.063980	-.018698	.013899	.184307	.006579



RUN NO. 67C 40M 05-10-62 0533-0649 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
	0.68902 10E 00	0.50610 10E 00	0.51097 10E-01	0.33193 10E 00	0.33512 10E-01	0.24615 10E-01
1	.107303	-.040115	-.080251	.060494	.098499	.017293
2	.061680	.003517	-.112956	.027639	.086760	.056077
3	.027239	-.003730	-.067717	-.032818	.077104	.062250
4	.021947	-.007433	-.025996	.053206	.047944	.027518
5	-.002453	-.024352	-.008006	-.011535	.036442	-.001896
6	.085840	-.061547	-.021510	.046266	.069416	.010386
7	.084412	-.006121	-.005159	.043093	.045105	-.027565
8	.039771	-.020681	.022875	.006058	.045140	-.058182
9	.011467	-.010601	.002370	-.010187	.039734	-.084472
10	.063753	-.064513	-.020128	.066473	.047378	-.084178
11	.078997	-.028819	-.019135	.006949	.034915	-.013440
12	-.017097	-.007256	-.009978	-.092452	-.023982	-.006747
13	-.091614	-.002351	.015372	-.060080	-.000492	-.029138
14	-.104146	.020846	.030604	-.008320	-.031741	-.034693
15	-.078917	.027437	.003147	.000746	-.038815	-.003710
16	-.019423	-.011339	.001780	.030645	-.052834	.038074
17	.011692	-.001700	-.015694	-.042614	-.040112	.062788
18	-.046308	.007916	-.055153	-.082674	-.070861	.062030
19	-.083277	.038621	-.057705	-.060747	-.069614	.076333
20	-.043970	.021140	-.016502	-.016167	-.045022	.019285
21	-.027813	.013164	.002941	.047343	-.019441	.023123
22	.002292	-.023245	.013616	.019511	-.006842	-.007269
23	.032341	.030906	.045295	.068484	-.008653	-.011730
24	.021994	.039402	.070273	.041036	.047302	-.034075
25	.021018	.000708	.021482	.028835	.042199	-.025972
26	.024143	.004817	-.002679	.035814	-.025035	-.004018
27	.074377	.014215	-.000953	.060068	-.023328	-.006748
28	.045025	-.029784	-.000395	-.006600	-.000438	-.006783
29	.019080	-.007552	-.003024	-.077618	-.057070	.058381
30	-.013636	.000689	-.024201	-.008246	-.031729	.072412

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	.035524	-.551305	-.056237	-.053452	.412317	-.212698
2	.155958	-.658863	-.045632	.248911	.931009	-.273827
3	.195633	-.413332	-.057733	.508976	.991816	.047885
4	.047340	.024759	-.089159	.163471	.354000	.584033
5	-.040736	.160896	-.069067	-.043560	.206845	.502382
6	-.013546	.063864	-.064541	-.064331	.372747	.223912
7	.068196	-.086389	-.105140	-.134530	.351704	.200670
8	.117515	-.082366	-.073253	.216800	.399474	.046277
9-11	.053050	.076430	-.038369	.059282	.280380	.023217
12-14	.097211	-.394105	-.040445	.400095	.249401	-.004206
15-21	.026774	-.109547	.004362	.209927	.063641	-.077988
22-30	.004393	-.086103	.006280	-.228172	.079066	.004682

RUN NO. 67C 40M 05-10-62 0533-0649 EST  
 301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.10506 10E 01	0.45190 10E 00	0.24380 10E 00	0.24852 10E-02
0	1.000000	1.000000	1.000000	1.000000
1	.504560	.237563	.128407	.610083
2	.159679	-.075601	.032903	.342453
3	.000514	-.066198	-.057982	.123656
4	-.004248	-.028304	-.033617	-.000418
5	-.007142	-.027278	-.109651	-.074024
6	-.054078	-.031789	-.112440	-.162221
7	-.081876	-.078480	-.098038	-.155274
8	-.138578	-.134096	-.136495	-.155733
9	-.167626	-.127445	-.113783	-.168188
10	-.203150	-.080301	-.016552	-.201852
11	-.224758	-.028973	-.058556	-.274330
12	-.258490	-.108710	-.003721	-.264746
13	-.225517	-.019071	-.027764	-.219170
14	-.155727	-.124649	-.059132	-.140329
15	-.071068	-.104660	.127895	-.077474
16	-.060475	.034853	.025643	-.060342
17	-.068296	.002148	.058969	-.018349
18	-.047269	.033850	-.039237	-.025270
19	.006756	.112163	.068656	-.100163
20	.037379	.016130	-.125527	-.110755
21	.000694	.016629	-.017020	-.141944
22	-.001438	.014384	-.066873	-.107018
23	.045736	-.033776	-.009221	-.053327
24	.107392	.040253	-.019093	.061195
25	.157747	.014294	.059821	.133638
26	.215867	.044376	.043703	.197131
27	.225135	.039724	.089896	.177791
28	.142756	-.067247	.057095	.187914
29	.046428	.072790	.073575	.168108
30	.062187	.076835	-.033374	.145932

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E-01	10E-01	10E-03
0	.000999	.003679	.003110	.005174
1	.073337	.122730	.050902	.245383
2	.126353	.238147	.088240	.355387
3	.134516	.326521	.150426	.373164
4	.083192	.257853	.183970	.289011
5	.051642	.195501	.144325	.183440
6	.050890	.216364	.106333	.144095
7	.056183	.206538	.112817	.182924
8	.064555	.168360	.075635	.139562
9-11	.049890	.260785	.094451	.063183
12-14	.039832	.215047	.089038	.063967
15-21	.021984	.177146	.096944	.033552
22-30	.019637	.154280	.123801	.041540

RUN NO. 67C 16M 05-10-62 0533-0649 EST  
 RUN NO. 67C 40M 05-10-62 0533-0649 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	.673106	.427492	.647691	.508767
1	.609595	.656448	.578956	.564276
2	.508259	.671470	.516401	.473654
3	.369968	.646930	.476177	.369081
4	.188309	.573502	.384983	.348333
5	.189394	.443082	.310057	.361901
6	.236705	.317922	.407810	.303994
7-8	.077493	.404748	.428746	.307751
9-11	.083879	.311442	.274158	.256794
12-15	.102376	.313881	.195075	.142478
16-20	.139768	.144140	.129153	.149954
21-27	.062623	.110786	.175798	.137640
28-36	.070235	.096725	.146667	.080350
37-47	.110458	.125062	.081140	.095579
48-60	.092892	.095900	.090509	.119147

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	.565752	.573969	.472987	.289417
1	.760363	.483007	.519351	.697328
2	.820558	.463032	.541913	.789366
3	.834271	.405956	.567070	.813633
4	.759133	.492770	.629381	.725146
5	.520370	.684516	.603724	.574177
6	.541873	.658041	.543640	.607000
7	.745077	.545481	.663132	.724516
8	.726157	.559587	.737252	.785851
9-11	.463675	.699330	.508469	.546743
12-14	.452625	.705017	.499130	.441202
15-21	.257577	.451848	.517309	.320040
22-30	.316983	.258583	.382226	.346218

RUN NO. 670 16M 05-10-62 0704-0820 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.39 M/SEC	WIND DIRECTION	298 DEG
UNSTABLE	SIGMA A	13.1 DEG	SOLAR RADIATION	0.86
LAND	SIGMA E	5.9 DEG	NET RADIATION	0.48

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.28668E 01	0.21198E 01	0.12000E 01	0.16108E 01
V	0.28203E 01	0.21963E 01	0.11380E 01	0.16639E 01
W	0.49997E-00	0.48391E-00	0.43519E-00	0.17654E-00
T	0.26490E-00	0.51393E-01	0.32095E-01	0.37589E-01
E	0.30936E 01	0.24006E 01	0.13866E 01	

<b>GUSTINESS RATIOS</b>				
U	0.22912	0.19701	0.14824	0.17174
V	0.22725	0.20054	0.14435	0.17455
W	0.09568	0.09413	0.08927	0.05686

<b>COVARIANCES</b>				
U,V	-0.33297E-00	-0.25336E-00	-0.12152E-00	-0.22518E-00
U,W	-0.42999E-00	-0.36251E-00	-0.22640E-00	-0.26609E-00
U,T	-0.26289E-00	-0.16226E-00	-0.70831E-01	-0.13860E-00
V,W	0.50385E-01	0.11349E-01	0.10100E-01	0.11964E-01
V,T	-0.43014E-01	-0.41607E-01	-0.11813E-01	-0.39793E-01
W,T	0.89493E-01	0.67577E-01	0.47479E-01	0.42595E-01
WE	0.82755E-01	0.40461E-03	0.38529E-01	

<b>NORMALIZED COVARIANCES</b>				
U,V	-0.11710	-0.11742	-0.10399	-0.13754
U,W	-0.35916	-0.35792	-0.31329	-0.49900
U,T	-0.30167	-0.49161	-0.36092	-0.56327
V,W	0.04243	0.01101	0.01435	0.02207
V,T	-0.04976	-0.12384	-0.06181	-0.15912
W,T	0.24591	0.42851	0.40174	0.52290

RUN NO. 67D 16M 05-10-62 0704-0820 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11688 10E 01	0.72284 10E 00	0.19625 10E 00	0.70397 10E 00	0.19113 10E 00	0.11820 10E 00
0	-.103704	-.313376	-.360979	.014312	-.062173	.401843
1	-.102653	-.269638	-.331362	.017579	-.054793	.325937
2	-.100310	-.212570	-.281863	.026200	-.046645	.225658
3	-.097638	-.171192	-.232094	.035053	-.043513	.149817
4	-.090622	-.139109	-.191307	.037673	-.036401	.098051
5	-.076192	-.103388	-.159753	.028098	-.028498	.069230
6	-.066995	-.070522	-.129515	.025566	-.016258	.055421
7	-.058069	-.043559	-.099636	.024444	-.003532	.041298
8	-.046398	-.026869	-.072424	.011793	.007250	.024440
9	-.029387	-.019809	-.051581	-.005186	.015808	.015769
10	-.019273	-.010185	-.033907	-.008859	.026231	-.000414
11	-.011761	.009260	-.013646	-.004848	.036192	-.015701
12	-.006570	.024194	.009516	.005512	.049497	-.019076
13	-.004074	.028637	.025450	.017903	.062252	-.019737
14	.000129	.030020	.034003	.015261	.068196	-.020752
15	.002026	.034148	.043844	.010314	.067583	-.020587
16	.006337	.037127	.055089	.007485	.065192	-.025202
17	.014042	.047317	.065086	.012350	.064938	-.035391
18	.022514	.056890	.077698	.011164	.061889	-.048480
19	.033180	.065084	.092447	.004220	.060098	-.059674
20	.041557	.065951	.103600	-.002190	.053946	-.074953
21	.042315	.068199	.114179	-.006199	.047768	-.082776
22	.042851	.063033	.119206	-.009907	.043680	-.083124
23	.043605	.059298	.119991	-.013518	.045138	-.086235
24	.040481	.065526	.122901	-.015089	.044410	-.092284
25	.036149	.072764	.127456	-.015209	.039066	-.091372
26	.032907	.079990	.130510	-.018867	.031658	-.085656
27	.026454	.086863	.129770	-.018599	.025380	-.076257
28	.018679	.093002	.127957	-.016466	.019098	-.077311
29	.015395	.092423	.121455	-.014190	.007257	-.084497
30	.017822	.086679	.108123	-.016726	-.006344	-.078704
31	.018902	.073041	.087605	-.017396	-.013946	-.053964
32	.019855	.059136	.070768	-.014997	-.017993	-.030537
33	.020097	.051210	.061496	-.006995	-.020446	-.027269
34	.018976	.042360	.049658	.004216	-.026597	-.021815
35	.023928	.033268	.039649	.002022	-.037496	-.020704
36	.025649	.024192	.032135	.000400	-.047891	-.024762
37	.025391	.019993	.029615	-.002658	-.062883	-.030652
38	.031781	.019057	.027543	.001693	-.075084	-.031035
39	.042487	.017158	.020455	.001827	-.087546	-.033976
40	.051430	.013924	.012413	.000048	-.095780	-.037682
41	.055029	.010381	.005457	-.005494	-.099560	-.033864
42	.059696	.009979	.002746	-.012358	-.102745	-.025915
43	.062640	.011768	.001418	-.022489	-.106710	-.019569
44	.062842	.009826	-.000144	-.025192	-.106849	-.011154
45	.060521	.006643	.001802	-.027103	-.106713	-.007438
46	.058961	.002941	.006862	-.023934	-.107516	-.005044
47	.055819	.002767	.012026	-.019462	-.105146	-.001301
48	.050238	.009822	.008358	-.007738	-.096295	.000784
49	.042730	.010994	-.005784	-.000354	-.078330	.005222
50	.036819	.006437	-.019448	-.006185	-.062245	.014989
51	.028983	-.003852	-.024219	-.012803	-.046578	.021600
52	.015085	-.012887	-.029036	-.013598	-.031487	.023616
53	.004795	-.016122	-.032677	-.010347	-.018478	.024706
54	.004430	-.016162	-.033166	-.005296	-.006809	.016778
55	.005091	-.010069	-.033034	-.001138	.005711	.004010
56	.003380	-.002777	-.025061	-.005908	.018440	-.012126
57	-.000664	.001008	-.018065	-.011735	.031748	-.015599
58	-.008123	-.003428	-.009328	-.012709	.040652	-.012300
59	-.015557	-.003413	-.002933	-.007512	.044357	-.016608
60	-.018750	-.002864	-.001365	-.011054	.043955	-.013055

RUN NO. 67D 16M 05-10-62 0704-0820 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.11688 10E 01	0.72284 10E 00	0.19625 10E 00	0.70397 10E 00	0.19113 10E 00	0.11820 10E 00
1	.018648	-.060812	-.055507	.019616	.004403	.033619
2	.032553	-.093268	-.087984	.034035	.004914	.043024
3	.042470	-.095137	-.104965	.040101	.000256	.042869
4	.051558	-.098324	-.111560	.042017	-.002554	.039696
5	.056196	-.096953	-.114386	.041112	-.003257	.047338
6	.061071	-.091991	-.116511	.037542	-.000434	.058083
7	.061637	-.086339	-.118815	.042202	.009895	.055589
8	.058121	-.088070	-.119885	.037886	.015508	.050209
9	.054107	-.089527	-.120929	.031830	.010271	.050121
10	.053240	-.090791	-.124424	.026646	.005919	.047943
11	.053092	-.078950	-.122439	.025209	.002219	.043152
12	.051624	-.068359	-.117239	.021167	.001191	.037834
13	.047137	-.066236	-.115925	.020318	.006384	.026736
14	.033632	-.070411	-.117256	.022400	.016856	.010655
15	.023759	-.074567	-.116063	.025033	.028010	.000147
16	.026119	-.074813	-.104887	.023141	.034488	-.005681
17	.028796	-.067673	-.091035	.017492	.038108	-.007612
18	.024891	-.053591	-.080100	.016120	.037103	-.005997
19	.018368	-.030308	-.065202	.011239	.035564	-.008275
20	.019556	-.015006	-.046783	.009810	.038814	-.010969
21	.019535	-.007638	-.025800	.017734	.042392	-.014675
22	.018058	-.009022	-.006140	.028936	.041591	-.022750
23	.013597	-.002664	.011230	.034005	.037108	-.030374
24	.008343	.010071	.023038	.029949	.033047	-.032875
25	.005920	.020557	.034421	.018371	.032218	-.031114
26	.000759	.032859	.046444	.014168	.032573	-.028499
27	-.005768	.042702	.053546	.012009	.027677	-.031538
28	-.009566	.040990	.058153	.014585	.020824	-.035584
29	-.021676	.041686	.064687	.014696	.011354	-.030934
30	-.033957	.042477	.067111	.015339	.010668	-.030104
31	-.040180	.033758	.066801	.009468	.011848	-.030992
32	-.037904	.030468	.065603	.004315	.011251	-.028605
33	-.033866	.026326	.061888	.008042	.008847	-.024773
34	-.026429	.031203	.056707	.012401	.007700	-.024507
35	-.020169	.029811	.052412	.008074	.001366	-.021505
36	-.017840	.026756	.048556	-.002525	-.007170	-.017757
37	-.022813	.023963	.043255	-.010620	-.016191	-.005396
38	-.026550	.025297	.036440	-.010403	-.021778	.007464
39	-.025442	.028245	.035424	-.002796	-.018539	.019307
40	-.023443	.033671	.033193	.007000	-.013370	.028531
41	-.024351	.029259	.022432	.005057	-.015288	.035985
42	-.028190	.031168	.013834	-.006241	-.021011	.035331
43	-.032834	.030271	.009784	-.027127	-.034032	.036995
44	-.031674	.031056	-.000812	-.047804	-.047118	.044464
45	-.028749	.030638	-.016700	-.056937	-.053853	.044582
46	-.022049	.024243	-.032120	-.056677	-.051913	.045425
47	-.020870	.025421	-.041010	-.052733	-.049619	.052903
48	-.018095	.035072	-.041222	-.045028	-.051550	.054532
49	-.010831	.043046	-.036495	-.028285	-.052819	.051249
50	-.005741	.038462	-.032553	-.022916	-.049812	.047366
51	.001733	.024815	-.029120	-.017003	-.047199	.038897
52	.010419	.017871	-.030190	-.015373	-.040905	.031028
53	.018143	.007583	-.033314	-.012837	-.028446	.023262
54	.027131	-.007514	-.033056	-.010761	-.014148	.008022
55	.033358	-.015385	-.029385	-.010979	-.004035	-.003331
56	.034979	-.020547	-.028206	-.015163	.004568	-.013284
57	.032411	-.023921	-.025797	-.019162	.005320	-.026433
58	.022928	-.019933	-.018800	-.018675	-.000379	-.032290
59	.007974	-.012638	-.008418	-.025051	-.007312	-.031982
60	-.005459	-.011435	-.003984	-.040339	-.012836	-.022942

RUN NO. 67D 16M 05-10-62 0704-0820 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.12002 10E 01	0.11383 10E 01	0.43536 10E 00	0.32092 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.855968	.833481	.663517	.849236
2	.688140	.631448	.353105	.652501
3	.562081	.489597	.163612	.505929
4	.459089	.388052	.064493	.392599
5	.365215	.301913	.006689	.303279
6	.286989	.228280	-.007888	.227977
7	.213609	.161516	-.014528	.165403
8	.142377	.099122	-.020537	.105050
9	.075185	.033469	-.016255	.049026
10	.019944	-.020623	-.039613	.006326
11	-.031506	-.053354	-.063615	-.022441
12	-.077276	-.075229	-.066687	-.052366
13	-.116978	-.098206	-.055544	-.080239
14	-.148125	-.119573	-.055573	-.108286
15	-.178793	-.133377	-.050659	-.129358
16	-.208288	-.144328	-.064501	-.150643
17	-.237961	-.157375	-.088739	-.178178
18	-.260678	-.166766	-.116515	-.202981
19	-.276594	-.177626	-.127721	-.221500
20	-.287870	-.195026	-.117991	-.238751
21	-.293201	-.200552	-.107757	-.265611
22	-.294490	-.198105	-.113306	-.276631
23	-.294073	-.205923	-.111250	-.269584
24	-.291019	-.221038	-.113898	-.261161
25	-.286883	-.233036	-.114192	-.253792
26	-.276519	-.231799	-.122333	-.242428
27	-.261557	-.230973	-.114134	-.225788
28	-.244099	-.221953	-.122364	-.206259
29	-.221100	-.206067	-.122538	-.189469
30	-.184920	-.176099	-.111515	-.156778
31	-.139524	-.147125	-.080097	-.106066
32	-.103148	-.127113	-.047329	-.059078
33	-.079170	-.108777	-.032801	-.027463
34	-.060722	-.080990	-.013854	-.001846
35	-.043134	-.056023	-.005842	.015458
36	-.029899	-.034200	-.000215	.024188
37	-.017067	-.008640	-.004093	.030039
38	-.006671	.008700	.004742	.034619
39	.005853	.019320	.016871	.035493
40	.013765	.026816	.025575	.031892
41	.025357	.031093	.026170	.029454
42	.038770	.042036	.018526	.028633
43	.046661	.056603	.006141	.027878
44	.048284	.064726	-.003943	.023301
45	.044361	.068401	-.008683	.015304
46	.042733	.064097	.002758	.004309
47	.034488	.054520	.008435	-.009197
48	.029561	.044888	.023723	-.018146
49	.029289	.031597	.042367	-.016720
50	.029170	.014883	.051484	-.012575
51	.028411	.002733	.056608	-.008212
52	.025265	-.006599	.059250	-.013659
53	.026657	-.015415	.059967	-.026801
54	.026827	-.013867	.047477	-.039770
55	.023104	-.011465	.030559	-.057996
56	.023239	-.017511	.000818	-.087410
57	.028432	-.029361	-.021948	-.108609
58	.030215	-.037834	-.006212	-.113361
59	.029714	-.040226	.003095	-.117547
60	.027684	-.042375	.000561	-.119444

RUN NO. 67D 16M 05-10-62 0704-0820 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
0	-.053800	-.032695	-.013931	.159261	.055843	.054268
1	-.443955	-.358908	-.139712	.912666	.350947	.589399
2	-.358640	-.411020	-.161194	.631318	-.174764	.676283
3	-.252535	-.356054	-.138456	.335276	-.603011	.597272
4	-.176839	-.206082	-.067933	.062981	-.314005	.359747
5	-.052549	-.150826	-.035236	-.027239	-.143143	.238257
6	-.006588	-.150934	-.035828	.211390	-.105016	.246422
7-8	-.042085	-.094814	-.027238	.164708	.001748	.262185
9-11	.008032	-.063657	-.013565	-.162477	.009102	.151908
12-15	.004494	-.030614	-.008883	-.168896	-.011914	.121079
16-20	.000109	-.012665	-.004160	.020900	.003200	.075664
21-27	.003906	-.019444	-.003195	-.072942	-.010563	.042433
28-36	-.004046	-.008623	-.000655	.037413	-.005207	.018606
37-47	.000173	-.004674	-.000555	-.011468	-.004855	.015910
48-60	.000471	-.003107	-.000475	.001323	-.000469	.009313

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	.138786	-.138027	-.057125	.119747	.312036	-.001214
2	.250671	-.245497	-.092079	.104771	.245060	.075510
3	.245655	-.267529	-.108367	.053882	-.025558	.249718
4	.122513	-.163571	-.053764	.044818	-.123653	.209466
5	.078584	-.071190	-.012081	.053066	-.049932	.093718
6	.075126	-.041187	-.007712	.039936	-.007226	.084161
7-8	.043264	-.066328	-.014575	.029218	.037025	.031432
9-11	.008047	-.046208	-.011359	.014404	-.008697	.004484
12-15	.008832	-.021046	-.005312	.003483	-.013188	.025941
16-20	-.005433	-.020399	-.003521	.006533	.030235	.010813
21-27	.004716	-.008549	-.001482	.001890	-.000454	.018232
28-36	.000682	-.005119	-.000399	.000359	.002800	.002618
37-47	.001292	.001060	-.000240	-.000712	-.002317	.003385
48-60	-.000829	.001446	-.000159	.000496	.000014	.001307

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.016885	.020149	.017425	.059008
1	.173276	.155855	.244878	.444448
2	.223996	.183426	.350405	.525791
3	.227110	.179505	.376447	.548063
4	.132858	.106748	.259446	.326115
5	.069729	.073619	.203553	.163226
6	.056592	.070851	.225067	.162460
7-8	.043764	.047343	.211866	.147961
9-11	.025693	.026342	.182218	.083668
12-15	.015996	.018220	.137256	.052787
16-20	.011302	.014488	.095378	.036139
21-27	.007267	.008387	.063441	.021151
28-36	.004999	.005639	.042038	.013893
37-47	.003095	.003304	.030108	.007971
48-60	.002078	.002042	.023292	.004556



RUN NO. 67D 16M 05-10-62 0704-0820 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
	0.16362 10E 01	0.53337 10E 00	0.24610 10E 00	0.54188 10E 00	0.25003 10E 00	0.81503 10E-01
0	-.137620	-.498885	-.563186	.022078	-.159155	.522624
1	-.096054	-.252857	-.388068	.016838	-.107417	.263158
2	-.030897	-.095695	-.214139	-.012938	-.090411	.110748
3	.025692	-.000903	-.119042	-.073869	-.104688	.010416
4	.070511	.011961	-.060090	-.062020	-.112724	-.029258
5	.067215	.022541	-.028942	-.069945	-.074754	-.031303
6	.023881	.028567	.004913	-.021851	.023461	-.041938
7	.015315	.017784	.050326	-.013974	.041118	-.021397
8	.030471	.007956	.081020	.062672	.047145	-.045202
9	.040615	.084826	.149417	.059131	.041145	-.075746
10	.064894	.083690	.169328	.059201	.085799	-.078110
11	.050151	.115488	.218034	.071700	.080516	-.104148
12	.042066	.127994	.237759	.016622	.041585	-.145359
13	.044543	.138072	.226161	-.015397	.006628	-.113135
14	.037398	.107332	.192839	-.017621	-.011356	-.087877
15	.020417	.085426	.158564	-.016106	.026758	-.072497
16	-.021528	.087619	.104455	-.002169	.047187	-.096209
17	-.061647	.033548	.026145	.020369	.088760	-.066821
18	-.119970	-.026973	-.040170	.047843	.129191	.003849
19	-.133741	-.030075	-.068890	.057528	.147987	.037005
20	-.115152	-.082125	-.135786	.047014	.098502	.087002
21	-.093693	-.085592	-.141918	.029016	.077470	.081707
22	-.104682	-.056954	-.115021	-.000961	.026414	.047560
23	-.059936	-.026457	-.076195	-.029951	-.008763	.050669
24	-.020248	-.003142	-.050093	-.014859	-.029452	.061528
25	.012250	-.031531	-.037602	.014113	-.057189	.008174
26	.040206	-.049453	-.030114	.019251	-.056560	-.006150
27	.057524	-.066248	-.029713	-.027530	-.059069	.049585
28	.043045	-.068862	-.029205	-.005465	-.008839	.043545
29	.020398	-.100790	-.017867	.031783	.008995	.082289
30	-.002819	-.089625	.002588	.051067	.017454	.077971

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	.019751	-.010686	-.013703	.003330	-.007453	.015085
1	.249752	-.197687	-.168795	-.061161	-.118146	.305447
2	-.117402	-.331720	-.269961	-.079526	-.117403	.515345
3	-.548864	-.346601	-.282868	-.058986	-.072357	.548131
4	-.265815	-.157179	-.107807	-.026779	-.056377	.282813
5	-.094266	-.111838	-.038908	.046443	-.035360	.234092
6	-.332355	-.191335	-.080154	.138488	.031448	.316033
7	-.331776	-.194388	-.080417	.116277	.032708	.287728
8	-.237047	-.168377	-.064922	.031919	-.000491	.267399
9-11	-.165424	-.121529	-.048660	.011910	.007449	.179926
12-14	.026211	-.079859	-.031721	.002972	-.023618	.122978
15-21	-.028081	-.052946	-.017446	-.008367	-.006370	.081974
22-30	-.004459	-.056010	-.012469	-.000089	-.006135	.095782

RUN NO. 67D 16M 05-10-62 0704-0820 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
	0.16362 10E 01	0.53337 10E 00	0.24610 10E 00	0.54188 10E 00	0.25003 10E 00	0.81503 10E-01
1	.034714	-.106716	-.109981	.036209	.034190	.054590
2	.025653	-.017180	-.107011	.036322	.083172	.037946
3	.006820	.041145	-.061892	.007566	.082838	.017522
4	-.007481	.065094	-.060366	-.021404	.067192	.065567
5	.012880	.061683	-.069715	-.029412	.064984	.067198
6	.013491	.017185	-.035582	-.034556	.068057	-.020447
7	.016357	-.014028	.001278	.005622	.069270	-.019072
8	.013723	-.014328	-.009578	.036767	.073083	-.019071
9	-.010166	.006610	-.016325	.035194	.020161	-.018436
10	-.030985	-.009209	-.008614	.006358	-.045679	.000911
11	-.067574	-.041591	.005878	-.058771	-.083942	-.051322
12	-.091695	-.001080	.024924	-.024776	-.085941	-.021079
13	-.059332	.049689	.033017	-.033381	-.093231	.042768
14	-.016205	.051438	.018021	-.002554	-.071733	.038825
15	-.001852	.027349	.016120	.006316	-.036444	.017484
16	.055277	-.001652	.038156	.064146	.003341	-.004727
17	.074465	.020186	.023215	.068205	.010821	.026624
18	.099795	.083127	.010152	.052114	.038473	.048716
19	.095525	.053516	-.024905	.053439	.044275	.035791
20	.075540	-.028725	-.038360	.046094	.050519	-.020684
21	.076123	-.059894	-.059147	.077458	.099214	-.017396
22	.098822	-.028190	-.03811	.062082	.129065	.012668
23	.074875	-.012782	-.076094	.010459	.121873	.030946
24	-.060197	-.021520	-.040167	-.030064	.097499	-.002994
25	.044990	-.003422	-.019148	-.073085	.070496	-.001812
26	-.012678	-.016480	.006076	.002252	.034056	.012727
27	-.041194	-.041185	.019320	.007811	-.055387	-.022885
28	-.035931	-.038228	.058062	.006201	-.098035	-.065403
29	-.070548	-.026769	.063648	-.029780	-.098522	-.066895
30	-.122880	-.082633	-.001179	-.026577	-.096012	-.036366

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	.055920	.654196	-.283290	.407328	.216124	.062563
2	-.189351	.257053	-.313755	-.340173	.242507	.019095
3	.115288	.039404	-.652971	-.112822	.967889	.045130
4	.362287	.507694	-.570425	.455339	.917411	.126641
5	.027431	.568477	-.301526	-.113082	.127462	.143235
6	-.177088	-.081454	-.388808	-.341467	-.144498	.082568
7	-.059804	-.430867	-.343118	.256742	-.082822	.024897
8	.127490	-.635266	-.244010	.794610	.203765	.005866
9-11	.095462	-.699516	-.155056	.502667	.183158	-.004833
12-14	.060029	-.676063	-.236744	-.047184	-.059886	.014249
15-21	.010230	-.359955	-.088133	.085427	-.037676	.051352
22-30	.015417	-.166965	-.008826	-.025315	-.023237	-.011125

RUN NO. 67D 16M 05-10-62 0704-0820 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.16105 10E 01	0.16623 10E 01	0.17664 10E 00	0.37606 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.605395	.656384	.218345	.584484
2	.279816	.419010	-.025271	.282114
3	.132577	.243703	-.096465	.152889
4	.051300	.115064	-.097948	.048983
5	-.018130	-.032616	-.053806	-.093377
6	-.077438	-.162694	-.060050	-.181820
7	-.160742	-.245804	-.059874	-.159895
8	-.162026	-.291818	-.002420	-.140746
9	-.235358	-.275216	-.017751	-.149646
10	-.273869	-.344732	.050926	-.206725
11	-.303810	-.340454	-.096376	-.226085
12	-.328197	-.311216	-.110391	-.168826
13	-.294137	-.252210	-.119312	-.135130
14	-.211413	-.190446	-.109088	-.137069
15	-.140858	-.115027	-.045877	-.130890
16	-.044123	-.048346	-.042119	-.090187
17	.026202	-.000521	-.064173	-.035684
18	.098531	.106456	.008311	-.024835
19	.124913	.164424	.045179	-.069111
20	.150373	.202812	.146664	-.005988
21	.140803	.161016	.089523	.08377
22	.124555	.146634	.029768	.086423
23	.097111	.095438	-.001326	.029361
24	.063603	.039072	.009792	.034552
25	.098697	.004419	-.014408	.029718
26	.090145	-.023876	-.014774	.005262
27	.032562	.008120	-.003702	.033557
28	.014728	-.010956	.004210	.021255
29	.042190	-.033496	.102040	.058307
30	.042355	-.081814	.129961	.054287

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.010206	.012930	.006269	.030132
1	.133524	.155096	.057567	.356134
2	.237498	.273875	.087894	.495158
3	.287942	.353801	.102694	.549886
4	.156895	.217846	.067654	.402560
5	.070766	.102640	.079636	.301939
6	.087965	.069061	.123179	.249781
7	.098734	.058150	.118586	.204176
8	.078754	.049709	.098421	.173778
9-11	.056723	.034277	.078711	.094439
12-14	.048745	.040012	.084885	.107013
15-21	.028715	.024137	.060720	.080677
22-30	.020462	.021733	.071084	.052342

RUN NO. 67D 40M 05-10-62 0704-0820 EST

GROSS STATISTICS

CLEAR	WIND SPEED	8.07 M/SEC	WIND DIRECTION	306 DEG
UNSTABLE	SIGMA A	11.4 DEG	SOLAR RADIATION	0.86
LAND	SIGMA E	7.3 DEG	NET RADIATION	0.48

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK /G
<b>VARIANCES</b>				
U	0.28377E 01	0.19991E 01	0.95077E 00	0.15725E 01
V	0.25249E 01	0.19426E 01	0.10854E 01	0.14312E 01
W	0.86277E 00	0.81363E 00	0.69560E 00	0.41558E-00
T	0.28325E-00	0.43499E-01	0.22076E-01	0.34894E-01
E	0.31127E 01	0.23791E 01	0.13659E 01	

<b>GUSTINESS RATIOS</b>				
U	0.20874	0.17520	0.12083	0.15539
V	0.19690	0.17277	0.12910	0.14824
W	0.11510	0.11177	0.10335	0.07988

<b>COVARIANCES</b>				
U,V	-0.23274E-01	-0.12123E-00	-0.31970E-01	-0.11243E-00
U,W	-0.60867E 00	-0.44938E-00	-0.24791E-00	-0.34927E-00
U,T	-0.33766E-00	-0.17602E-00	-0.59934E-01	-0.15713E-00
V,W	-0.71401E-01	-0.11066E-00	-0.71810E-01	-0.63002E-01
V,T	0.30442E-01	0.17658E-01	0.97519E-02	0.16231E-01
W,T	0.15088E-00	0.96558E-01	0.60292E-01	0.71361E-01
WE	0.43802E-00	0.28918E-00	0.10510E-00	

<b>NORMALIZED COVARIANCES</b>				
U,V	-0.00870	-0.06152	-0.03147	-0.07495
U,W	-0.38900	-0.35236	-0.30484	-0.43206
U,T	-0.37663	-0.59690	-0.41369	-0.67078
V,W	-0.04838	-0.08802	-0.08264	-0.08169
V,T	0.03600	0.06075	0.06300	0.07263
W,T	0.30521	0.51326	0.48655	0.59259

RUN NO. 67D 40M 05-10-62 0704-0820 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.10157 10E 01	0.81322 10E 00	0.14490 10E 00	0.86891 10E 00	0.15482 10E 00	0.12395 10E 00
0	-.031808	-.304736	-.413598	-.082708	.062891	.486596
1	-.032208	-.284082	-.389142	-.067810	.058797	.438673
2	-.035062	-.236064	-.343025	-.050781	.048470	.355736
3	-.028263	-.189428	-.293924	-.042343	.037305	.277223
4	-.014948	-.148116	-.244947	-.031654	.026154	.206332
5	-.005142	-.111304	-.196365	-.024415	.018667	.150753
6	-.002372	-.076183	-.148794	-.016312	.016646	.109600
7	.003853	-.048925	-.109774	-.011508	.012687	.073656
8	.008399	-.031516	-.076132	-.004414	.011745	.039541
9	.011109	-.018935	-.044200	.005345	.010731	.003550
10	.008646	.002155	-.014404	.009666	.007835	-.029529
11	.006605	.026778	.009535	.009799	.009920	-.058471
12	.004569	.041299	.026009	.010514	.012243	-.078243
13	.001290	.051168	.041495	.010469	.012426	-.093557
14	-.008768	.055994	.059852	.014107	.013512	-.106898
15	-.018873	.063275	.074830	.018862	.013428	-.121171
16	-.024866	.072317	.087358	.021599	.017743	-.131504
17	-.027940	.088135	.098177	.032147	.022459	-.141618
18	-.022214	.101518	.109647	.041733	.020497	-.151177
19	-.018309	.105351	.119066	.043401	.016847	-.155622
20	-.015834	.105502	.127262	.040232	.013224	-.153320
21	-.016167	.104959	.131272	.036419	.012161	-.149861
22	-.016298	.107793	.134501	.028945	.006598	-.141619
23	-.014220	.110081	.134784	.021481	.000481	-.133301
24	-.014307	.102373	.132188	.007137	-.007276	-.127657
25	-.009520	.087612	.126328	-.009131	-.016778	-.117686
26	-.000821	.074750	.122075	-.012296	-.022498	-.103139
27	.008868	.071122	.115721	-.007601	-.026865	-.090936
28	.016370	.063171	.101860	-.004356	-.028307	-.077534
29	.017565	.052082	.084547	-.009122	-.027404	-.061995
30	.015439	.045846	.069054	-.013003	-.023598	-.047381
31	.010565	.034233	.054994	-.008109	-.018496	-.029837
32	.003652	.015862	.040063	.005729	-.012758	-.011206
33	.003253	-.003790	.025303	.017017	-.009008	.003962
34	.003776	-.015272	.009897	.020196	-.005526	.019603
35	.003537	-.016717	.002215	.015070	-.006886	.028591
36	.005149	-.022502	.003405	.006194	-.013245	.034867
37	.008455	-.029957	.008767	.000922	-.019256	.044419
38	.012196	-.038731	.012122	-.002039	-.024778	.057528
39	.013665	-.040934	.015596	-.011753	-.028618	.062211
40	.019221	-.041745	.015884	-.018280	-.027452	.054595
41	.029428	-.042956	.016133	-.016914	-.026924	.044337
42	.035978	-.035902	.019683	-.015505	-.027178	.035647
43	.045786	-.030888	.019535	-.018055	-.025867	.030254
44	.055546	-.031491	.018589	-.019778	-.026554	.029315
45	.061739	-.027710	.016853	-.024347	-.028418	.024990
46	.059892	-.017414	.011495	-.027171	-.026929	.018642
47	.054404	-.002360	.008115	-.026950	-.024738	.014266
48	.051346	.004384	.004210	-.022606	-.023966	.016503
49	.047435	.010094	.001125	-.009584	-.024702	.015301
50	.040137	.014719	-.000527	.009133	-.023669	.009956
51	.028387	.012746	-.001748	.023113	-.017717	.004916
52	.015093	.006478	-.000971	.033754	-.010162	.004339
53	.004955	.002803	.000306	.033975	-.009546	.002400
54	-.002334	.009313	.007790	.039108	-.008813	-.003831
55	-.006027	.017772	.016728	.041192	-.011868	-.010101
56	-.010253	.018490	.024488	.033238	-.015717	-.022533
57	-.006804	.023551	.030501	.019110	-.018132	-.011363
58	-.000178	.033137	.033950	.003713	-.020248	-.034489
59	.002587	.031523	.031093	-.011298	-.020375	-.035985
60	.007560	.027745	.028470	-.018974	-.018888	-.034155

RUN NO. 67D 40M 05-10-62 0704-0820 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.10157 10E 01	0.81322 10E 00	0.14490 10E 00	0.86891 10E 00	0.15482 10E 00	0.12395 10E 00
1	.013941	-.019096	-.045396	-.028663	-.007131	.031714
2	.023597	-.048167	-.083125	-.043431	-.007001	.042619
3	.025181	-.075719	-.114456	-.043701	-.006474	.044435
4	.023331	-.099760	-.140046	-.044247	-.008750	.048678
5	.019814	-.120388	-.159009	-.051367	-.015250	.051150
6	.019308	-.128274	-.166669	-.058806	-.020507	.052846
7	.024534	-.121549	-.167599	-.054279	-.018306	.054169
8	.032968	-.115416	-.167793	-.051154	-.005879	.051427
9	.043111	-.114642	-.166521	-.045733	.005960	.048678
10	.052035	-.120467	-.166095	-.035546	.013750	.044755
11	.053930	-.118606	-.161445	-.021560	.019954	.040004
12	.054259	-.111250	-.156976	-.008698	.025099	.038516
13	.050204	-.105847	-.150966	.000325	.025451	.033841
14	.040530	-.103243	-.141574	-.001314	.020082	.021834
15	.030154	-.097552	-.129440	-.003344	.014152	.010347
16	.023443	-.089794	-.112747	-.001724	.010637	.008633
17	.019148	-.073193	-.095727	.003621	.011852	.010973
18	.014520	-.059108	-.077623	.000424	.010912	.004769
19	.010772	-.046265	-.057735	-.010751	.007166	-.006974
20	.007386	-.033586	-.038579	-.018108	.002617	-.018618
21	.006512	-.018064	-.016470	-.017656	.002629	-.026318
22	.009944	-.002492	.007981	-.019429	.008426	-.031746
23	.011132	.011699	.028387	-.020175	.018539	-.036788
24	.013338	.033031	.045996	-.011281	.027766	-.042681
25	.014928	.056905	.061751	.004157	.041811	-.043907
26	.013510	.072129	.074733	.018662	.053440	-.043053
27	.015361	.075406	.081638	.024708	.040170	-.045556
28	.015526	.075821	.085470	.024701	.058646	-.044591
29	.014634	.078024	.088144	.025528	.055939	-.041107
30	.009816	.078156	.094846	.024418	.048761	-.037333
31	.001254	.078334	.099993	.016872	.035897	-.029336
32	.000317	.081425	.101384	.006048	.023817	-.020261
33	.000898	.083577	.101917	.002583	.016962	-.010245
34	-.000366	.088742	.103510	.000236	.013802	-.002181
35	-.001952	.086783	.100144	.000897	.008026	.003051
36	-.008098	.076915	.091577	.001625	-.000562	.009946
37	-.020014	.068198	.081758	.001525	-.011313	.013467
38	-.028111	.065410	.073697	.001891	-.018079	.015935
39	-.035089	.062052	.059958	-.001545	-.022527	.017516
40	-.041091	.051716	.042921	-.002315	-.027566	.018888
41	-.044059	.042574	.026862	-.001370	-.031155	.019825
42	-.041432	.036708	.012847	-.000905	-.032433	.027052
43	-.043232	.034020	.002060	.003031	-.032906	.037676
44	-.046696	.028436	-.010425	.001521	-.031319	.044659
45	-.045886	.013910	-.021908	-.006242	-.031558	.044919
46	-.036059	-.006713	-.032165	-.012023	-.033406	.041744
47	-.029944	-.021670	-.039629	-.015122	-.033310	.039005
48	-.027722	-.035700	-.046910	-.022939	-.034514	.035809
49	-.023615	-.046872	-.054558	-.029904	-.037457	.032556
50	-.014799	-.059257	-.059066	-.033898	-.035419	.027838
51	-.003180	-.068919	-.063088	-.026506	-.029956	.021843
52	.003860	-.079387	-.067026	-.011765	-.025480	.013768
53	.008201	-.079523	-.067788	-.007325	-.019746	.005477
54	.013303	-.070934	-.064262	-.008839	-.013143	-.006878
55	.014643	-.061628	-.057272	-.006185	-.004635	-.019853
56	.008320	-.054825	-.048510	-.000018	-.001042	-.028448
57	.001779	-.053340	-.043921	.004342	.003716	-.033593
58	-.001998	-.054770	-.041243	.005481	.006724	-.033226
59	-.004011	-.050093	-.036591	.000989	.008581	-.028556
60	-.013736	-.039066	-.027583	.000461	.007768	-.021105

RUN NO. 67D 40M 05-10-62 0704-0820 EST  
 61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.95064 10E 00	0.10853 10E 01	0.69566 10E 00	0.22085 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.858878	.837411	.766146	.892541
2	.684091	.627334	.497861	.731047
3	.551611	.467154	.334778	.597847
4	.448246	.350867	.219903	.482859
5	.356632	.2514 3	.139482	.379738
6	.269813	.165837	.080704	.289357
7	.200826	.103632	.018892	.213580
8	.140682	.062640	-.019088	.143149
9	.077080	.031831	-.049995	.071027
10	.019646	-.002118	-.079434	.000324
11	-.024828	-.027709	-.103743	-.059342
12	-.064196	-.049456	-.114851	-.105928
13	-.101199	-.073061	-.125714	-.144569
14	-.137169	-.103443	-.133850	-.182026
15	-.168080	-.124597	-.151452	-.215068
16	-.193091	-.137051	-.160214	-.243681
17	-.215168	-.140115	-.164475	-.270291
18	-.235792	-.151160	-.173811	-.289030
19	-.255137	-.160227	-.180684	-.295528
20	-.271527	-.170222	-.191114	-.293350
21	-.281379	-.183453	-.199808	-.286322
22	-.288868	-.188295	-.197935	-.273983
23	-.289313	-.199443	-.193999	-.254896
24	-.278225	-.215587	-.197342	-.233378
25	-.269538	-.221013	-.189503	-.207031
26	-.259206	-.209862	-.169863	-.187678
27	-.241334	-.193782	-.148898	-.170626
28	-.216360	-.178822	-.133453	-.146119
29	-.184828	-.156088	-.122053	-.118133
30	-.156020	-.119406	-.085316	-.088466
31	-.125605	-.083955	-.039577	-.056111
32	-.096713	-.058384	-.009442	-.024294
33	-.076530	-.037912	.014761	.000176
34	-.052423	-.025630	.035287	.020948
35	-.027264	-.020955	.054686	.031176
36	-.005262	-.020566	.075439	.035226
37	.011477	-.023599	.089375	.031468
38	.028871	-.027289	.090862	.026056
39	.045702	-.024711	.086378	.018793
40	.060676	-.017438	.076029	.005881
41	.066825	-.010559	.070089	-.006168
42	.057946	-.004954	.063973	-.015986
43	.057557	.001580	.053862	-.021697
44	.057511	.015492	.035170	-.025767
45	.048403	.031432	.022425	-.028162
46	.032827	.038832	.018585	-.027422
47	.020227	.032768	.020945	-.032432
48	.015230	.020112	.028733	-.039338
49	.016023	.008845	.032535	-.050567
50	.015321	-.002297	.022538	-.066298
51	.010057	-.013481	.015991	-.082836
52	.008404	-.025399	.015483	-.092211
53	.005756	-.045332	.015338	-.095669
54	-.009546	-.063572	.006537	-.102719
55	-.031426	-.080024	-.003520	-.106812
56	-.049944	-.085613	-.021183	-.105900
57	-.058140	-.085440	-.029154	-.099223
58	-.057030	-.080773	-.040077	-.091150
59	-.051185	-.081055	-.062106	-.084087
60	-.051461	-.082106	-.062747	-.074080

RUN NO. 67D 40M 05-10-62 0704-0820 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-01
0	-.021087	-.034006	-.014794	-.007364	.060863	.006492
1	-.131459	-.309348	-.114306	-.054045	.332971	.062922
2	-.033715	-.451493	-.127725	-.093728	.184982	.096878
3	.025767	-.541927	-.126259	-.138290	.044886	.122444
4	-.021043	-.332290	-.078111	-.110274	.013484	.084078
5	-.042653	-.150524	-.037526	-.069006	.042118	.043778
6	-.080896	-.133409	-.028514	-.013554	.098382	.033798
7-8	-.048856	-.110144	-.024585	-.017082	.078124	.025005
9-11	-.007835	-.063632	-.010100	-.027133	.023470	.015598
12-15	-.001599	-.034380	-.004255	-.005723	.017988	.009567
16-20	.006144	-.010515	-.002332	-.011313	.007188	.005395
21-27	.005018	-.010339	-.001042	-.002542	.000106	.001985
28-36	.002235	-.002470	-.000841	-.005906	.000712	.001276
37-47	-.001114	-.001079	-.000317	-.003270	.001316	.000791
48-60	-.000963	.000434	-.000178	-.000733	-.000736	.000273

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	.144274	-.114592	-.036952	-.063788	.231359	.005181
2	.178336	-.354086	-.083400	-.085161	.114875	.085565
3	.113538	-.452630	-.108235	-.120203	-.098114	.275865
4	.060392	-.209131	-.055716	-.093080	-.080946	.252259
5	.064190	-.054436	-.016299	-.071471	.041102	.082814
6	-.001092	-.031923	-.010905	-.084396	-.031126	.033395
7-8	-.031603	-.045208	-.008620	-.073434	-.114318	.047885
9-11	.009038	-.014231	-.005722	.008430	.017256	.022851
12-15	.025591	.005634	-.001250	-.006629	.021071	.019371
16-20	.004137	.011724	.000210	-.014934	-.007752	.009410
21-27	.000885	-.001196	-.000311	-.009269	-.011603	.010427
28-36	.000149	.003482	-.000242	-.000183	.000720	.007165
37-47	-.000094	.001528	.000036	.000231	-.001694	.002861
48-60	-.000328	.000420	-.000077	.000993	-.000530	-.000040

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.017378	.020838	.038326	.045832
1	.138472	.144834	.451135	.328789
2	.170325	.159087	.746674	.379781
3	.176318	.159025	.958803	.430033
4	.103089	.103274	.665081	.304975
5	.053426	.066442	.400394	.151411
6	.046214	.061640	.412712	.098066
7-8	.036299	.054483	.361710	.076717
9-11	.021225	.032547	.231363	.049205
12-15	.013861	.020020	.160125	.028466
16-20	.009114	.011670	.114555	.018171
21-27	.005747	.008397	.078522	.009609
28-36	.004001	.004891	.046739	.006775
37-47	.002183	.002680	.033369	.003408
48-60	.001483	.001901	.016488	.001643



RUN NO. 670 40M 05-10-62 0704-0820 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
	0.15005 10E 01	0.80853 10E 00	0.23433 10E 00	0.77139 10E 00	0.22357 10E 00	0.12047 10E 00
0	-.074931	-.43198	-.670522	-.081673	.072598	.592364
1	-.058363	-.281170	-.524555	-.039530	.034124	.327784
2	-.048446	-.158488	-.364260	.005415	.028633	.172390
3	-.023239	-.134443	-.265225	-.022101	-.007972	.135825
4	.018651	-.114056	-.152422	-.027853	-.040702	.098684
5	.047249	-.050587	-.067191	.003223	-.059245	.015208
6	.026795	.004994	-.000184	.021491	-.061121	-.046808
7	.033970	.012037	.053005	.011160	-.050045	-.060376
8	.048606	.050723	.120438	.031081	-.055617	-.084505
9	.068472	.106101	.187283	.029318	-.032239	-.117705
10	.082295	.143378	.250115	.048812	-.023145	-.162484
11	.096371	.126665	.298801	.026800	-.038812	-.177121
12	.085806	.203616	.383645	-.021539	-.050734	-.217026
13	.058686	.230401	.399958	-.011788	-.031080	-.202306
14	.016361	.205710	.333416	-.009053	-.005589	-.168468
15	.003088	.168378	.265029	-.032388	.008833	-.149891
16	-.031305	.172278	.223222	-.037499	.037265	-.140077
17	-.087494	.142440	.158046	-.002955	.102964	-.136181
18	-.114292	.083918	.081285	.038778	.127437	-.112649
19	-.112655	.033678	.023564	.014503	.109889	-.023661
20	-.113400	-.002324	-.036461	-.014814	.087970	.019340
21	-.114169	-.044456	-.112547	.019945	.084082	.064721
22	-.099763	-.063491	-.173168	-.016142	.038561	.094324
23	-.073575	-.086030	-.189255	.020893	.024737	.107837
24	-.060190	-.110126	-.189265	.057636	.010723	.085232
25	-.036331	-.177876	-.203394	.041734	.024564	.146228
26	.016563	-.199734	-.193856	.015927	.021452	.171553
27	.071179	-.169428	-.166463	-.006958	.000373	.125325
28	.079054	-.185502	-.168381	.058408	.021447	.138767
29	.050067	-.154458	-.178267	.051361	.029480	.155064
30	.022713	-.141720	-.158279	.068915	.026499	.172160

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-01
0	.036012	-.007719	-.009199	-.004867	-.061612	.000502
1	.261674	-.557839	-.273023	-.047416	-.534896	.081861
2	-.175781	-.852969	-.426564	-.048356	-.043941	.133346
3	-.612229	-.647648	-.367790	-.092217	.606315	.117105
4	-.257106	-.159216	-.110177	-.114136	.420052	.048737
5	.047940	-.109081	-.048603	-.045948	.094209	.034787
6	-.071531	-.156644	-.076056	.023455	.286911	.033065
7	-.141061	-.140903	-.080133	.026839	.304177	.028037
8	-.109722	-.099118	-.060287	-.025814	.045095	.027915
9-11	-.001924	-.086610	-.024958	-.023337	-.009958	.016272
12-14	.037857	-.083333	-.019437	-.025704	.011396	.022126
15-21	-.016411	-.078760	-.017195	-.041738	.013015	.017930
22-30	-.007384	-.034219	-.008011	.004224	.059610	.011914

RUN NO. 67D 40M 05-10-62 0704-0820 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
	0.15005 10E 01	0.80853 10E 00	0.23433 10E 00	0.77119 10E 00	0.22357 10E 00	0.12047 10E 00
1	.074467	-.102428	-.089727	-.048469	.041944	.020970
2	.086862	-.062051	-.050025	.000769	.095877	-.042192
3	.088100	.008737	-.005556	-.006447	.123515	-.058623
4	.087221	-.006857	-.021552	-.013629	.102210	-.017492
5	.092269	-.078720	-.056979	-.022393	.101293	-.025802
6	.118227	-.067289	-.033569	.028082	.125466	-.054354
7	.104814	-.018172	-.005668	.024235	.109977	-.057478
8	.086755	-.021918	-.014772	.036964	.075358	-.055473
9	.051245	-.036119	-.032820	.019930	.038743	-.048012
10	-.004895	-.002191	-.042912	-.048186	-.040307	-.014106
11	-.048185	.018895	-.033435	-.032767	-.063722	.013844
12	-.076680	.013505	-.024998	-.057035	-.090889	.058171
13	-.101932	.048857	-.001706	-.065997	-.133860	.054428
14	-.085576	.068151	.034955	-.014497	-.123474	.055276
15	-.055097	.090596	.046387	.026008	-.046434	.059924
16	-.025510	.079861	.030504	.085262	-.026533	.055377
17	-.015737	.084980	.030173	.059008	-.037662	.050502
18	.019775	.060532	-.000322	.090299	.005072	.023914
19	-.005682	.011988	-.018205	.103007	.008221	-.005979
20	-.018747	.001031	-.017126	.058783	.008888	-.016600
21	.028544	-.032187	-.031823	.034967	.023218	-.023243
22	.052410	-.060226	-.051003	.040010	.061668	-.035162
23	.052707	-.093868	-.066368	.016106	.088191	-.068517
24	.073951	-.062541	-.040083	.002041	.090048	-.054980
25	.065438	-.053170	-.024795	-.005719	.082972	-.021046
26	.063177	-.074605	-.023978	.038718	.071237	.002037
27	.061595	-.032764	.010725	.035171	.039412	-.006945
28	.025425	-.010333	.053338	.021447	.000475	-.025066
29	.016910	-.013060	.064034	-.016754	-.029664	-.040474
30	-.014825	-.020050	.049340	-.103065	-.065287	-.003117

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-01	10E-02
1	.213921	.045511	-.346512	.054465	.015845	-.017576
2	.419845	-.103321	-.307554	-.065292	.057850	-.165433
3	.749001	-.245162	-.388756	-.002950	.126985	-.327964
4	.519169	-.085013	-.128673	.093641	.095880	-.135466
5	.067379	.034827	.035446	-.037041	.017396	.098363
6	-.117714	-.035108	-.201147	-.152726	-.016131	.068423
7	-.028403	-.040101	-.270396	-.070028	-.007549	-.004907
8	.149938	-.017435	-.127665	.027197	.018400	-.053933
9-11	.107742	-.057273	-.072130	.014453	.010495	-.033386
12-14	.057870	-.118033	-.250749	-.029874	-.000721	.036399
15-21	.020177	-.040052	-.126007	-.041311	-.005915	.076909
22-30	.007115	-.007932	-.022561	-.019383	.001506	.000077

RUN NO. 670 40M 05-10-62 0704-0820 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.15727 10E 01	0.14316 10E 01	0.41565 10E 00	0.34915 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.701992	.617638	.282001	.661504
2	.433848	.377755	.042044	.387356
3	.286618	.206207	.053201	.255877
4	.160173	.032041	.070816	.115805
5	.036920	-.101593	-.028246	-.035798
6	-.090348	-.201191	-.106116	-.096615
7	-.147057	-.215466	-.031194	-.101055
8	-.196166	-.210488	-.033714	-.140796
9	-.286734	-.216547	-.080513	-.188520
10	-.332333	-.241487	-.124810	-.262535
11	-.354748	-.230485	-.121357	-.313063
12	-.383390	-.248449	-.250962	-.353193
13	-.371571	-.298512	-.219387	-.320385
14	-.317871	-.265545	-.151211	-.226860
15	-.240656	-.153452	-.134597	-.174689
16	-.178106	-.015965	-.130767	-.174767
17	-.142749	.055666	-.088117	-.173789
18	-.084332	.109676	-.071065	-.149082
19	-.047753	.191283	.071507	-.116587
20	.012904	.224247	.087027	-.074919
21	.121483	.206035	.105823	.016033
22	.160926	.159739	.095911	.087847
23	.177799	.088320	.050743	.135198
24	.214248	-.009096	.040000	.147415
25	.250425	-.066162	.087238	.186963
26	.257250	-.049065	.111659	.187404
27	.232840	-.012696	.051989	.159134
28	.216488	-.006933	.060749	.175727
29	.216159	.015601	.092130	.201260
30	.177076	-.035865	.142019	.210133

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.009457	.011301	.008341	.022947
1	.208496	.115581	.247444	.468205
2	.329819	.206260	.407254	.658921
3	.319181	.272390	.395222	.598307
4	.154778	.165865	.175399	.328368
5	.087241	.095656	.148254	.225001
6	.072513	.116032	.222936	.180864
7	.070267	.089648	.214239	.194854
8	.061044	.044695	.180689	.185948
9-11	.035623	.029064	.126707	.063836
12-14	.031306	.024406	.180904	.071204
15-21	.021970	.025881	.163714	.065756
22-30	.015057	.022700	.141812	.035205

RUN NO. 67D 16M 05-10-62 0704-0820 EST  
 RUN NO. 67D 40M 05-10-62 0704-0820 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	.789504	.759781	.657745	.839200
1	.719743	.683099	.718846	.753077
2	.623099	.645980	.717414	.638485
3	.517449	.648804	.648762	.577400
4	.388869	.593097	.499290	.544347
5	.243189	.513201	.405701	.517469
6	.197533	.499083	.433775	.526208
7-8	.177157	.416828	.447785	.428627
9-11	.090565	.332275	.446547	.212917
12-15	.108748	.179659	.313231	.125501
16-20	.128100	.224945	.252447	.104604
21-27	.075286	.146286	.163989	.080294
28-36	.152125	.146223	.159979	.105423
37-47	.097022	.121552	.130002	.085021
48-60	.094048	.094436	.106315	.066506

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	.946713	.949116	.833393	.903792
1	.922321	.920854	.807304	.897842
2	.880242	.938154	.851428	.882834
3	.850551	.934388	.838960	.877776
4	.854066	.890780	.765313	.910909
5	.864647	.848489	.748201	.900419
6	.821326	.878066	.818023	.863632
7	.807550	.812041	.742252	.862944
8	.737467	.674439	.643676	.839747
9-11	.704213	.487149	.755624	.611877
12-14	.553206	.654981	.720977	.621188
15-21	.446789	.544748	.526160	.591502
22-30	.242276	.321152	.396343	.349587

RUN NO. 67E 16N 05-10-62 0835-0951 E.T

GROSS STATISTICS

CLEAR	WIND SPEED	9.58 M/SEC	WIND DIRECTION	295 DEG
UNSTABLE	SIGMA A	14.7 DEG	SOLAR RADIATION	1.22
LAND	SIGMA E	5.5 DEG	NET RADIATION	0.77

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.50558E 01	0.37016E 01	0.21000E 01	0.27014E 01
V	0.63506E 01	0.45619E 01	0.19914E 01	0.34711E 01
W	0.73610E 00	0.74338E 00	0.67867E 00	0.24930E-00
T	0.23987E-00	0.13091E-00	0.72094E-01	0.94541E-01
E	0.60712E 01	0.45036E 01	0.23850E 01	

<b>GUSTINESS RATIOS</b>				
U	0.23471	0.20083	0.15127	0.17156
V	0.26305	0.22295	0.14730	0.19448
W	0.08956	0.09000	0.08599	0.05212

<b>COVARIANCES</b>				
U,V	-0.70730E 00	-0.52069E 00	-0.68394E-01	-0.50514E 00
U,W	-0.64853E 00	-0.60961E 00	-0.44448E-00	-0.34639E-00
U,T	-0.25500E-00	-0.40192E-00	-0.19257E-00	-0.32463E-00
V,W	-0.16098E-02	-0.21580E-01	-0.49108E-01	0.31105E-01
V,T	0.52325E-01	0.39005E-03	-0.14658E-01	0.11760E-01
W,T	0.12044E-00	0.13301E-00	0.98402E-01	0.74921E-01
WE	-0.39457E-01	0.82115E-01	0.41438E-01	

<b>NORMALIZED COVARIANCES</b>				
U,V	-0.12483	-0.12671	-0.03345	-0.16496
U,W	-0.33618	-0.36750	-0.37233	-0.42209
U,T	-0.23156	-0.57738	-0.49492	-0.64237
V,W	-0.00074	-0.01172	-0.04224	0.03344
V,T	0.04240	0.00050	-0.03869	0.02053
W,T	0.28663	0.42638	0.44486	0.48802

RUN NO. 67E 16M 05-10-62 0835-0951 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20447 10E 01	0.11933 10E 01	0.38910 10E 00	0.11623 10E 01	0.37900 10E 00	0.22118 10E 00
0	-.033267	-.372509	-.495093	-.042203	-.038684	.444705
1	-.029499	-.308244	-.451966	-.032014	-.036460	.355021
2	-.020360	-.225216	-.376350	-.015109	-.025018	.241830
3	-.014977	-.158498	-.304481	-.001943	-.022539	.168757
4	-.008005	-.109615	-.243955	-.004269	-.027171	.118180
5	-.000421	-.065435	-.197729	-.007356	-.028898	.079276
6	.003353	-.017820	-.160752	-.010626	-.026582	.048248
7	.008287	.009417	-.121047	-.004963	-.020334	.035255
8	.015068	.019605	-.079623	-.005613	-.008772	.015694
9	.011968	.027565	-.044527	-.010907	.006328	-.006610
10	.004918	.037923	-.013072	-.008482	.023639	-.025094
11	.003543	.032569	.011198	-.001811	.041043	-.032660
12	.002183	.027259	.032371	.001851	.048030	-.039412
13	-.006276	.020378	.055780	.010958	.046531	-.052897
14	-.019242	.026760	.075987	.021323	.040514	-.066548
15	-.037423	.038560	.093480	.023037	.037491	-.076429
16	-.045786	.054270	.111804	.028038	.041705	-.087286
17	-.048083	.065126	.127444	.043171	.052743	-.097620
18	-.043909	.066808	.137930	.047862	.053119	-.101927
19	-.038926	.071338	.139981	.049421	.040494	-.097751
20	-.033285	.067629	.137473	.041673	.028431	-.087743
21	-.020980	.069071	.138627	.025672	.017551	-.085533
22	-.011708	.074593	.141211	.020122	.011608	-.090161
23	-.005206	.074461	.143776	.020478	.010516	-.085765
24	.000740	.073062	.136612	.016811	.006523	-.081400
25	.012534	.066686	.121288	-.000522	-.002653	-.077945
26	.021215	.060721	.106404	-.013530	-.009507	-.068374
27	.025317	.056864	.097367	-.022863	-.013177	-.056070
28	.027222	.055395	.091125	-.028624	-.009849	-.043049
29	.027361	.054551	.082225	-.031643	-.007107	-.030928
30	.022496	.034118	.069871	-.028089	-.002098	-.018556
31	.018496	.004709	.054685	-.019616	.008002	-.000045
32	.018348	-.014957	.043114	-.013405	.012900	.021085
33	.015573	-.027460	.034824	-.006428	.009419	.033520
34	.016114	-.029756	.026344	-.001597	.003293	.043768
35	.020000	-.020822	.020243	-.002310	-.009144	.044957
36	.021433	-.014236	.012395	.004884	-.012163	.042194
37	.021628	-.015077	.003958	.008380	-.011477	.041587
38	.020800	-.013795	-.004613	.007907	-.011966	.035406
39	.021550	-.006893	-.011092	.009222	-.014175	.032698
40	.024469	-.007596	-.013674	.004585	-.021056	.039730
41	.027594	-.009251	-.012054	-.013178	-.029476	.037278
42	.032965	-.002499	-.010319	-.031056	-.037825	.030132
43	.036440	.004857	-.000871	-.039726	-.042593	.015358
44	.042184	.014204	.009127	-.037456	-.045879	-.006141
45	.050204	.019341	.017371	-.033442	-.046474	-.027083
46	.049321	.020340	.022096	-.015996	-.044383	-.036647
47	.047247	.026815	.031004	-.008324	-.038889	-.041312
48	.043780	.035430	.036882	-.012926	-.037232	-.049191
49	.039154	.043011	.040942	-.016826	-.036138	-.054771
50	.026674	.039243	.044916	-.008745	-.033850	-.050634
51	.014687	.037327	.045519	-.002458	-.031892	-.054511
52	.001550	.039979	.040413	-.000655	-.029088	-.060255
53	-.021988	.036657	.035147	.001250	-.020349	-.059710
54	-.045314	.023553	.027039	.003929	-.007358	-.057002
55	-.058233	.011900	.020500	.004739	.008651	-.049333
56	-.063591	.010882	.021785	.010719	.021052	-.043956
57	-.067108	.016538	.022055	.021272	.033380	-.034430
58	-.070552	.017837	.019520	.028786	.039637	-.029783
59	-.064160	.012037	.016300	.033806	.035562	-.026858
60	-.055749	.012714	.013971	.023023	.027643	-.024181

RUN NO. 67E 16M 05-10-62 0835-0951 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20447 10E 01	0.11933 10E 01	0.38910 10E 00	0.11623 10E 01	0.37900 10E 00	0.22118 10E 00
1	.021812	-.079247	-.061443	.009259	-.004933	.021630
2	.038751	-.104696	-.094239	.012639	-.005563	.030878
3	.053278	-.114379	-.110319	.019748	-.003977	.031058
4	.064945	-.112975	-.120748	.025397	-.002064	.022294
5	.077448	-.114394	-.127481	.030363	.003126	.014475
6	.083100	-.105559	-.124625	.033269	.012032	.012691
7	.097109	-.076073	-.116790	.037829	.023511	.009177
8	.090967	-.078263	-.106178	.030196	.032851	.008520
9	.102401	-.066413	-.104063	.023691	.040186	.011652
10	.110367	-.065792	-.104592	.023019	.039209	.010079
11	.108659	-.064822	-.099980	.023563	.027200	.011662
12	.096613	-.057796	-.099869	.027074	.018044	.010359
13	.085276	-.049349	-.100340	.030201	.009506	.008009
14	.071249	-.039523	-.098244	.023376	.004468	.018412
15	.061458	-.033393	-.090698	.026937	.005179	.024397
16	.051713	-.028905	-.075693	.034237	.002482	.028432
17	.041807	-.017975	-.061122	.038201	-.004065	.028436
18	.033818	-.009881	-.048384	.035397	-.010929	.025451
19	.034285	-.004396	-.034825	.032022	-.008463	.026448
20	.028760	-.000477	-.023191	.023680	-.006109	.023073
21	.023513	.011987	-.011681	.012200	-.006971	.026303
22	.023438	.026009	-.000398	.016391	-.006607	.023848
23	.024898	.036904	.004221	.017960	-.007563	.013098
24	.026263	.038442	.008772	.022499	-.003251	.003703
25	.024580	.041494	.015208	.016530	-.001090	-.009075
26	.019331	.049879	.022123	.007172	.001925	-.018267
27	.013236	.051335	.030921	.004630	.002389	-.028228
28	.010934	.044863	.040729	.007743	.004438	-.036527
29	.016427	.043941	.047305	.010815	.013341	-.041493
30	.021836	.044869	.054835	.004254	.022527	-.047546
31	.022267	.045000	.060638	-.002654	.026334	-.046602
32	.015814	.036059	.058841	-.008080	.025554	-.036716
33	.004725	.025493	.050452	-.011551	.021988	-.021823
34	.000224	.014346	.039182	-.016148	.023020	-.009513
35	.006804	.002848	.024583	-.016805	.027994	-.012484
36	.010424	-.009201	.012040	-.005589	.032785	-.021508
37	.007533	-.023261	.002955	-.002722	.032316	-.027852
38	.001942	-.025283	-.000140	.003424	.030586	-.030163
39	-.002780	-.026093	-.006537	.000502	.029170	-.018190
40	-.007373	-.022036	-.010477	.003088	.031050	-.007339
41	-.009113	-.021877	-.007838	-.009005	.025595	-.008558
42	-.014247	-.022219	-.007145	-.034567	.014970	-.002505
43	-.023309	-.027125	-.010801	-.050523	.004692	.001500
44	-.030119	-.028449	-.012928	-.053949	-.000410	.002137
45	-.031677	-.022787	-.015357	-.052708	-.000173	.005618
46	-.027530	-.023056	-.013254	-.041864	-.003723	.007361
47	-.028433	-.030636	-.011550	-.020736	-.003715	.008423
48	-.032048	-.036307	-.013280	-.004689	-.002014	.003700
49	-.031200	-.030006	-.007050	.001926	-.000271	-.002587
50	-.029727	-.019110	-.005283	.001429	-.000210	-.007232
51	-.030351	-.016338	-.011230	-.005089	-.008440	-.009373
52	-.026807	-.019695	-.013228	-.004503	-.015745	-.009026
53	-.022238	-.012834	-.013616	-.009113	-.022272	-.006129
54	-.022614	.003377	-.012564	-.013161	-.030043	-.003357
55	-.031154	.017625	-.010880	-.014724	-.030142	-.000916
56	-.037195	.028123	-.012624	-.015443	-.026619	.007583
57	-.039937	.027481	-.016557	-.024224	-.022327	.015467
58	-.038811	.029395	-.022137	-.027202	-.022003	.011147
59	-.028874	.031530	-.026752	-.011728	-.015007	.006369
60	-.018060	.038807	-.027292	.004596	-.006970	.012552

RUN NO. 67E 16M 05-10-62 0835-0951 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.20992 10E 01	0.19916 10E 01	0.67835 10E 00	0.72121 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.840778	.802432	.634190	.830767
2	.646840	.574221	.308573	.620028
3	.500460	.416254	.148048	.467254
4	.382504	.308022	.079310	.357876
5	.288136	.226428	.035107	.276979
6	.206057	.153866	-.024497	.208181
7	.132774	.087279	-.047305	.152612
8	.071118	.036724	-.052150	.098544
9	.024036	.015533	-.057052	.045663
10	-.020488	.006087	-.076037	-.007217
11	-.061057	-.015562	-.079615	-.051275
12	-.094143	-.034914	-.083021	-.087850
13	-.122026	-.062416	-.079934	-.115684
14	-.148352	-.092779	-.083816	-.130787
15	-.170329	-.120022	-.095623	-.146236
16	-.198558	-.142274	-.103965	-.170555
17	-.216465	-.167769	-.113920	-.195349
18	-.224231	-.183026	-.109699	-.215428
19	-.234522	-.187035	-.116772	-.217936
20	-.237987	-.190964	-.121492	-.209553
21	-.236994	-.184690	-.123593	-.208615
22	-.233763	-.177279	-.138148	-.210778
23	-.231757	-.167979	-.137194	-.210900
24	-.221285	-.171201	-.130517	-.207322
25	-.209351	-.167858	-.117377	-.193994
26	-.197388	-.160905	-.103181	-.177570
27	-.180048	-.152370	-.088696	-.153453
28	-.159301	-.137180	-.058582	-.131929
29	-.136970	-.120183	-.046770	-.115573
30	-.100724	-.094833	-.021512	-.103118
31	-.059295	-.074317	.016160	-.085876
32	-.031373	-.059358	.047573	-.064917
33	-.004927	-.056679	.065394	-.045447
34	.018279	-.060689	.066796	-.020576
35	.031288	-.058580	.054615	-.004029
36	.041173	-.063002	.047631	-.001375
37	.047623	-.070266	.043510	.001665
38	.049120	-.070438	.030971	.002492
39	.047978	-.061007	.035642	.008564
40	.040416	-.044739	.038508	.017900
41	.029957	-.032716	.041067	.030946
42	.012043	-.023486	.028573	.034483
43	-.002082	-.011193	.009560	.031422
44	-.018823	.004014	-.011875	.022088
45	-.025998	.007981	-.022511	.004306
46	-.033709	-.000569	.000037	-.015417
47	-.045578	-.017512	.012847	-.028516
48	-.052678	-.033529	-.000816	-.035641
49	-.062704	-.038437	-.011404	-.041319
50	-.069222	-.027271	-.023306	-.046137
51	-.066911	-.015904	-.026664	-.053020
52	-.063660	-.018575	-.043315	-.056150
53	-.057743	-.023714	-.052688	-.060478
54	-.044197	-.015718	-.039087	-.059528
55	-.029700	-.005200	-.021634	-.058247
56	-.020306	.005894	-.006030	-.061015
57	-.019677	.019471	.008800	-.054034
58	-.017146	.035373	.012470	-.039159
59	-.013711	.047326	.008400	-.032323
60	-.020676	.057853	-.004555	-.031826



RUN NO. 67E 16M 05-10-62 0835-0951 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-01
0	-.031845	-.045887	-.042407	.007838	.074086	.011880
1	-.269673	-.410679	-.323415	.032746	.260616	.084913
2	-.089552	-.515307	-.363905	-.043056	-.227336	.109865
3	.135787	-.622521	-.376943	-.128230	-.608714	.147947
4	.097205	-.462999	-.244501	-.114546	-.523541	.110828
5	-.036409	-.267390	-.123986	-.030960	-.398168	.054382
6	-.195973	-.287872	-.090001	.071898	-.093010	.050007
7-8	-.157262	-.294708	-.065336	.016878	.147646	.044421
9-11	.008183	-.184183	-.042795	-.032965	.065660	.033849
12-15	-.017769	-.063101	-.024087	-.015237	.005209	.021094
16-20	.003951	-.050827	-.017563	-.014192	-.057169	.015788
21-27	-.009856	-.034783	-.006526	-.014380	-.023669	.008368
28-36	-.002748	-.022068	-.003016	.000677	-.005605	.007043
37-47	-.000167	-.010777	-.002042	-.001976	.004684	.002952
48-60	.001155	-.008279	-.000947	-.001154	.005437	.001940

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	.792335	-.121752	-.110950	.170446	.379798	.026739
2	.700710	-.225379	-.149560	.180554	.096242	.209167
3	.554654	-.421263	-.182732	.106563	.127264	.240595
4	.414607	-.368394	-.116283	.034721	.343318	.006319
5	.268426	-.176013	-.043868	.025184	.192772	-.105011
6	.092810	-.131906	-.035551	.016877	-.044463	.026219
7-8	-.015831	-.150519	-.034148	.031924	-.121889	.134023
9-11	-.008483	-.095176	-.030686	.013138	-.138887	.047298
12-15	.032417	-.052188	-.008648	-.011317	-.018957	.042898
16-20	-.005422	-.021803	-.004479	-.003585	.028507	.030320
21-27	.007044	-.027857	-.004440	.006765	-.012769	.009496
28-36	-.000552	-.009541	-.001955	-.000886	-.007841	-.000197
37-47	.001178	-.006157	-.000714	.002500	.000632	.004680
48-60	.002961	-.005355	-.000458	.002180	.000722	-.001242

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.033101	.030544	.020441	.013003
1	.257653	.246336	.258644	.092749
2	.312374	.271914	.435475	.105957
3	.354948	.268417	.619758	.114163
4	.244626	.189313	.496006	.078090
5	.129496	.124078	.307762	.045647
6	.111830	.096050	.319835	.036521
7-8	.090484	.090513	.354846	.028404
9-11	.057507	.069340	.253154	.019081
12-15	.033615	.035255	.193893	.013438
16-20	.022513	.026025	.147924	.009317
21-27	.015001	.020171	.119202	.005621
28-36	.008682	.010210	.079865	.003431
37-47	.006167	.007286	.051209	.002018
48-60	.003695	.004729	.037421	.001326

RUN NO. 67E 16M 05-10-62 0835-0951 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
	0.30626 10E 01	0.82078 10E 00	0.50530 10E 00	0.93023 10E 00	0.57269 10E 00	0.15348 10E 00
0	-.164939	-.422021	-.642444	.033438	.020534	.488149
1	-.138016	-.190777	-.416756	.022720	.037062	.224289
2	-.121248	-.047595	-.207210	.032297	.027510	.058471
3	-.069526	-.019746	-.117312	-.026742	-.004207	.024411
4	-.033592	.019122	-.017503	-.020274	-.034387	-.035984
5	-.005808	.088744	.077636	-.012513	-.045942	-.165210
6	-.006370	.060262	.093624	-.018704	-.035778	-.102879
7	.055318	.015643	.114480	-.001284	-.040301	-.057367
8	.086911	.069932	.108022	-.033821	-.025003	-.064939
9	.101231	.101852	.119593	-.035616	-.045415	-.078536
10	.122018	.095574	.139131	-.032981	-.038294	-.045310
11	.120471	.033687	.141856	.033026	-.020388	.005968
12	.080505	.044361	.145886	.005413	-.016508	-.006625
13	.074073	.020873	.124496	.003221	-.033745	.022388
14	.079670	.009263	.103766	-.000085	-.032135	-.010913
15	.053144	-.014578	.053727	-.038597	-.031036	.003707
16	.013164	-.040094	-.002619	-.023607	-.006310	.020856
17	-.037107	.034834	.041165	.008327	.033328	-.031064
18	-.067117	.023207	.042982	.007717	.041938	-.027388
19	-.067741	-.019192	.028848	.013961	.079978	-.003824
20	-.075498	-.005218	.066896	.033208	.084746	-.050784
21	-.074483	.026864	.043786	.045874	.077270	-.108522
22	-.085792	-.036073	-.004744	.039248	.112647	-.035521
23	-.079022	-.068338	-.007646	.002464	.113156	-.020070
24	-.082738	.018045	-.014768	.006024	.112515	-.001805
25	-.089853	.013433	-.063377	.036645	.143563	-.001924
26	-.079587	-.016604	-.080176	.039497	.113382	.040554
27	-.082294	-.013936	-.066617	.032424	.091663	.069085
28	-.062387	-.002153	-.040869	.040944	.075553	.119752
29	-.005175	-.007534	-.013151	.025816	.019781	.077923
30	.014449	-.015128	-.034873	.021496	-.021230	.079867

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-02	10E-01	10E-02
0	-.003730	-.009610	-.020334	-.141365	-.017199	.012297
1	-.042609	-.154479	-.335623	-.563291	-.124474	.347124
2	-.131898	-.272595	-.465488	.275085	.026553	.473879
3	-.179762	-.393920	-.505500	.772289	.118044	.660862
4	-.078849	-.370850	-.391764	.569778	.040003	.892553
5	-.010644	-.273824	-.267422	.733082	.041232	.823688
6	-.008737	-.183939	-.201537	.650820	.058124	.598090
7	-.010768	-.180043	-.211328	-.027308	.032476	.502546
8	-.005975	-.221347	-.167630	-.072729	.002810	.383641
9-11	-.016706	-.153581	-.080076	.578991	.005540	.252496
12-14	.003379	-.053939	-.067878	-.302404	-.022955	.113208
15-21	-.000109	-.129370	-.065119	-.232223	-.007030	.293710
22-30	-.003515	-.063439	-.028343	.247269	-.004997	.122446

RUN NO. 67E 16M 05-10-62 0835-0951 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
	0.30626 10E 01	0.82078 10E 00	0.50530 10E 00	0.93023 10E 00	0.57269 10E 00	0.15348 10E 00
1	.118870	-.102601	-.150161	.093467	.061483	.022488
2	.131335	-.027420	-.153370	.122832	.078437	-.006418
3	.166546	-.013461	-.173799	.143003	.120671	-.050652
4	.146023	-.092655	-.203007	.144419	.136907	-.052175
5	.124376	-.037450	-.184751	.153734	.122261	.003442
6	.093886	.022631	-.139645	.161398	.098975	-.000340
7	.090652	.007491	-.109499	.188747	.084091	.039007
8	.055561	-.019939	-.060395	.115621	.038232	.052149
9	.007622	-.017035	.002220	.049351	-.026957	-.010782
10	-.020077	.015181	.025881	.065793	-.059027	-.018198
11	-.105435	.050301	.047896	.008434	-.116419	-.000289
12	-.095872	.002903	.037636	-.005075	-.098724	.018918
13	-.067556	-.009842	.037365	-.047301	-.086283	-.026694
14	-.065725	.038606	.045666	-.018501	-.039505	.044807
15	-.101452	.063471	.063399	-.057724	-.049920	.037613
16	-.061284	-.005827	.022275	-.030984	-.039739	-.004610
17	-.042322	-.004557	-.003165	-.048523	-.022557	.012856
18	-.045526	.029747	.022429	-.091448	-.030548	-.001411
19	-.023167	-.015084	.020765	-.081151	-.025497	.003561
20	-.007269	-.029179	-.015635	-.114503	-.040561	.018674
21	.009474	-.020876	-.020034	-.083677	-.011997	.025591
22	-.000052	.035974	.017987	-.113616	-.005352	.003169
23	.014018	.051294	.015217	-.081308	.018858	.061648
24	.021722	-.008974	.026468	-.099524	.017178	.023585
25	.032323	-.002159	.009440	-.032851	.039347	.047233
26	.029847	.060633	.028439	-.017774	.015201	.034815
27	.045706	.010276	.011387	.005968	.018909	.025449
28	.041321	-.025161	-.005404	.058801	.026926	-.015631
29	.009975	-.026072	.021185	.083574	.021616	-.042992
30	.006235	-.037140	.026333	.108517	.031074	-.059446

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	.006343	.010007	-.148157	.337885	-.028414	.106641
2	.097695	-.057375	-.232832	.603638	.129871	.025163
3	.186590	-.120239	-.327790	.569364	.287246	-.055961
4	.152322	-.126715	-.293862	.301296	.264538	-.084815
5	.072649	-.074930	-.171420	.147395	.136254	-.101813
6	.030831	-.063120	-.079512	.013402	.007858	-.125855
7	.022016	-.081712	-.038640	-.005873	-.044395	-.148059
8	.028025	-.048684	-.015881	.040382	-.006746	-.037424
9-11	.027428	-.022080	-.029327	.066367	.017094	.130195
12-14	.000682	.009085	-.021268	.043024	-.008219	.074025
15-21	.011577	-.114098	-.035787	.013250	.013102	.022978
22-30	.008161	.005203	-.007499	.003321	.004791	.010857

RUN NO. 67E 16M 05-10-62 0835-0951 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIARIANCE

M	U	V	W	T
	0.27022 10E 01	0.34710 10E 01	0.24930 10E 00	0.94489 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.585414	.717308	.135183	.599676
2	.289977	.531369	-.054547	.325440
3	.183872	.363003	.018781	.169575
4	.043372	.193661	.011164	-.006820
5	-.116104	.068589	-.132129	-.157861
6	-.165100	-.021004	-.038376	-.181847
7	-.190787	-.134467	-.026486	-.197493
8	-.252361	-.244958	-.138693	-.165399
9	-.267373	-.298087	-.074673	-.132106
10	-.263016	-.386719	-.122612	-.141410
11	-.228235	-.440121	-.008861	-.125843
12	-.165873	-.447876	-.020188	-.156599
13	-.126867	-.457319	-.070241	-.133594
14	-.083646	-.404650	-.047910	-.144056
15	-.007259	-.338220	.064403	-.105611
16	.055795	-.235034	-.034928	-.039819
17	-.013184	-.128124	-.084974	-.057842
18	-.014658	.000301	.031754	-.082959
19	.040973	.070437	-.034324	-.095582
20	-.005324	.109913	-.041070	-.128924
21	-.005961	.135967	-.059164	-.146944
22	.066641	.159853	-.032468	-.101567
23	.087518	.206137	.077312	-.091672
24	.067431	.242737	.020874	-.038262
25	.040284	.257055	-.021679	.046554
26	.043526	.222338	.054762	.102701
27	.028417	.173898	.028950	.152764
28	-.022470	.075901	.075639	.144191
29	-.046386	-.018833	.080019	.109949
30	-.053547	-.040993	.118427	.167166

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.018851	.027072	.003650	.005123
1	.212260	.517828	.080051	.097565
2	.337038	.825454	.118163	.121390
3	.444991	.803727	.145611	.125717
4	.361331	.322514	.146691	.115268
5	.220037	.128175	.124837	.091885
6	.129279	.153015	.093394	.071599
7	.118967	.148452	.092050	.063535
8	.118042	.095562	.097991	.038938
9-11	.077232	.068856	.103801	.020393
12-14	.055329	.042614	.084909	.018452
15-17	.067052	.041171	.137252	.019603
18-20	.035439	.039073	.096613	.013524

RUN NO. 67E 40M 05-10-62 0835-0951 EST

GROSS STATISTICS

CLEAR WIND SPEED 10.64 M/SEC WIND DIRECTION 302 DEG  
 UNSTABLE SIGMA A 13.0 DEG SOLAR RADIATION 1.22  
 LAND SIGMA E 7.0 DEG NET RADIATION 0.77

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.54977E 01	0.37883E 01	0.19104E 01	0.29696E 01
V	0.58062E 01	0.40266E 01	0.18570E 01	0.30217E 01
W	0.14128E 01	0.13868E 01	0.12041E 01	0.65059E 00
T	0.18232E-00	0.10110E-00	0.52607E-01	0.78581E-01
E	0.63583E 01	0.46009E 01	0.24857E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>GUSTINESS RATIOS</b>				
U	0.22037	0.18293	0.12990	0.16196
V	0.22647	0.18859	0.12807	0.16337
W	0.11171	0.11068	0.10313	0.07581

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>COVARIANCES</b>				
U,V	-0.23954E-00	-0.28733E-00	0.71554E-02	-0.29525E-00
U,W	-0.98668E 00	-0.92094E 00	-0.59036E 00	-0.67259E 00
U,T	-0.26587E-00	-0.39863E-00	-0.17208E-00	-0.34236E-00
V,W	-0.39711E-00	-0.23729E-00	-0.10377E-00	-0.20826E-00
V,T	0.10186E-00	0.24327E-01	-0.61490E-02	0.25930E-01
W,T	0.16877E-00	0.19122E-00	0.12613E-00	0.13003E-00
WE	0.55770E 00	0.90018E 00	0.40117E-00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>NORMALIZED COVARIANCES</b>				
U,V	-0.04240	-0.07357	0.00380	-0.09856
U,W	-0.35404	-0.40179	-0.38925	-0.48390
U,T	-0.26557	-0.64415	-0.54281	-0.70871
V,W	-0.13865	-0.10041	-0.06939	-0.14854
V,T	0.09901	0.03813	-0.01967	0.05321
W,T	0.33254	0.51069	0.50117	0.57509

RUN NO. 67E 40M 05-10-62 0835-0951 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18829 10E 01	0.15161 10E 01	0.31697 10E 00	0.14949 10E 01	0.31252 10E 00	0.25164 10E 00
0	.003797	-.389141	-.542838	-.069565	-.019628	.501027
1	.008939	-.358919	-.508892	-.055858	-.020869	.422944
2	.016475	-.292187	-.441567	-.047554	-.023027	.325552
3	.021187	-.219852	-.371941	-.047671	-.029498	.234887
4	.020825	-.162029	-.313892	-.039309	-.032337	.167531
5	.014815	-.113866	-.258892	-.028758	-.029520	.115275
6	.007825	-.070207	-.208769	-.025014	-.026661	.075376
7	.006437	-.039879	-.167433	-.024701	-.025405	.045365
8	.006736	-.015183	-.132083	-.027398	-.025882	.032675
9	.009082	-.001974	-.099821	-.029069	-.028994	.025195
10	.013212	.004819	-.068199	-.032215	-.028059	.012233
11	.013047	.013990	-.034734	-.023208	-.022071	-.008297
12	.005252	.024133	-.001081	-.000254	-.009500	-.027385
13	-.005583	.037219	.030654	.017319	.005440	-.043875
14	-.013170	.051439	.056963	.024646	.016699	-.053382
15	-.013693	.065544	.078846	.030773	.024511	-.062360
16	-.015813	.080636	.098885	.040590	.034211	-.080732
17	-.020117	.098571	.119600	.043551	.037441	-.098272
18	-.020208	.112354	.137132	.039618	.038201	-.110418
19	-.009626	.121762	.155877	.036364	.034135	-.119861
20	.002202	.125897	.171340	.028643	.024874	-.126427
21	.007608	.126097	.179445	.020387	.014621	-.127214
22	.006915	.124787	.184924	.030111	.012766	-.134623
23	.005999	.124814	.187470	.044244	.017787	-.144599
24	.001875	.116457	.187643	.057805	.025370	-.147702
25	-.005693	.110295	.186343	.059379	.028786	-.143559
26	-.015723	.106543	.182173	.051969	.035413	-.137521
27	-.020854	.100797	.177697	.042283	.044271	-.127406
28	-.020858	.082971	.167967	.031452	.047591	-.112954
29	-.024025	.060066	.150191	.026935	.050266	-.086728
30	-.027671	.037156	.124909	.022686	.050212	-.050209
31	-.029093	.009183	.095708	.015145	.045203	-.008217
32	-.026220	-.010840	.072281	.004458	.039679	.023185
33	-.022908	-.024470	.053643	-.004980	.033694	.042332
34	-.022342	-.033125	.040173	-.003514	.029751	.048581
35	-.023257	-.042523	.031748	.003301	.028923	.044072
36	-.031731	-.044872	.028098	.014197	.033231	.038236
37	-.042046	-.037654	.025184	.019586	.038726	.029671
38	-.044823	-.029179	.021132	.023710	.043430	.020996
39	-.042059	-.027196	.010923	.019620	.042640	.016812
40	-.038235	-.033712	-.003351	.004450	.034830	.025162
41	-.029705	-.039753	-.014600	-.005197	.022564	.030432
42	-.018638	-.039804	-.016449	-.019187	.005096	.029387
43	-.009946	-.036275	-.012711	-.028733	-.006748	.026479
44	-.005487	-.029230	-.006923	-.033513	-.015355	.021249
45	.000291	-.025003	.000205	-.040370	-.027186	.009040
46	.009526	-.014252	.011316	-.047556	-.041564	-.009188
47	.017547	-.002638	.020056	-.045842	-.053682	-.019556
48	.020727	-.011718	.027125	-.039615	-.058442	-.021320
49	.022476	.020190	.029717	-.032719	-.054496	-.020113
50	.025211	.021728	.028992	-.020924	-.051606	-.020117
51	.029757	.019578	.028318	-.017791	-.056321	-.016094
52	.033504	.021307	.029656	-.023687	-.061674	-.012710
53	.038153	.028449	.027631	-.029209	-.064507	-.014754
54	.042257	.034131	.023277	-.034987	-.067800	-.025924
55	.044622	.040080	.018660	-.031364	-.069890	-.033134
56	.048474	.041831	.011819	-.021893	-.064498	-.031462
57	.045433	.035696	.003261	-.013456	-.052316	-.027773
58	.037079	.030014	-.005586	-.005693	-.045903	-.018304
59	.029847	.027534	-.007651	-.005114	-.042177	-.008415
60	.030397	.024745	-.009797	-.007440	-.037378	-.010923

RUN NO. 67E 40M 05-10-62 C035-0951 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.18829 10E 01	0.15161 10E 01	0.31697 10E 00	0.14949 10E 01	0.31252 10E 00	0.25164 10E 00
1	.026010	-.039765	-.036255	.010394	.007604	.019583
2	.047967	-.059688	-.062096	.019355	.012887	.023617
3	.041988	-.063944	-.077689	.023717	.017403	.026038
4	.066680	-.061783	-.083470	.029506	.021291	.028049
5	.071381	-.061265	-.085274	.034371	.022848	.028343
6	.073207	-.064455	-.085354	.034890	.021688	.029386
7	.069581	-.057769	-.078041	.028789	.012453	.026706
8	.061246	-.049956	-.068386	.021887	-.003810	.022171
9	.057605	-.041159	-.060373	.017027	-.012937	.021495
10	.054554	-.036445	-.059179	.007895	-.018649	.030188
11	.050750	-.038073	-.061289	.000945	-.028532	.034460
12	.043211	-.041196	-.057316	.001262	-.037043	.030675
13	.032419	-.041740	-.051137	.007836	-.036403	.022094
14	.025450	-.037300	-.042219	.006999	-.029375	.015077
15	.025202	-.031896	-.032838	.001936	-.013305	.010547
16	.025582	-.032628	-.030344	.001335	.007850	.011768
17	.027868	-.030094	-.028989	.005759	.022586	.009069
18	.031544	-.030926	-.023858	.009941	.032386	-.001458
19	.034081	-.027767	-.015169	.019269	.039624	-.014050
20	.035209	-.023747	-.009518	.021162	.040393	-.018845
21	.042521	-.022970	-.008093	.025236	.042911	-.020004
22	.052985	-.019021	-.008293	.036405	.050583	-.024310
23	.056904	-.009619	-.003031	.043405	.055672	-.024439
24	.058307	.002587	.003699	.041928	.054695	-.025514
25	.052540	.006067	.009414	.038496	.048465	-.030832
26	.038759	.003393	.012006	.026559	.034691	-.035672
27	.023901	.003376	.011933	.014323	.019167	-.034932
28	.011472	.012469	.014524	.009419	.011170	-.032887
29	.006352	.016446	.016944	.001312	.007827	-.025126
30	.005059	.013203	.017648	-.007139	.003818	-.018304
31	.004452	.009324	.017736	-.003963	.006746	-.017267
32	.002981	.000052	.013670	-.004222	.008716	-.020972
33	.003003	-.010951	.008599	-.006887	.009131	-.028002
34	.003069	-.014132	.007650	-.004581	.013744	-.037090
35	.003912	-.012369	.010511	-.010013	.014002	-.039621
36	.008559	-.013239	.015428	-.008030	.010401	-.031672
37	.008268	-.008298	.020527	.005254	.010527	-.026857
38	-.001578	-.002726	.022547	.014250	.011652	-.027051
39	-.009346	.000714	.024375	.010253	.007532	-.036526
40	-.012740	.001805	.025510	.001377	-.002985	-.039777
41	-.019358	-.007071	.019395	-.011934	-.021023	-.036137
42	-.026335	-.020386	.007046	-.022314	-.031547	-.031555
43	-.028679	-.034197	-.002207	-.015973	-.030837	-.029803
44	-.025134	-.042471	-.008236	-.006205	-.024096	-.028652
45	-.016535	-.047875	-.016907	-.003877	-.020895	-.026409
46	-.014699	-.045460	-.026156	-.005082	-.019757	-.018953
47	-.016312	-.036317	-.032714	-.009944	-.020377	-.006533
48	-.019115	-.023512	-.034431	-.011550	-.015739	.006210
49	-.020270	-.016931	-.033462	-.013786	-.010303	.013883
50	-.018876	-.008981	-.030900	-.025014	-.010233	.019370
51	-.022015	-.001214	-.030852	-.035503	-.014763	.024486
52	-.024699	.006528	-.028867	-.033822	-.013415	.027507
53	-.022774	.011146	-.027120	-.026856	-.011046	.030835
54	-.019096	.012248	-.026292	-.020750	-.007691	.034386
55	-.011456	.014146	-.020914	-.009543	.000652	.033010
56	-.004014	.017465	-.015749	.004644	.011265	.032423
57	-.006229	.015569	-.013481	.018180	.017009	.030413
58	-.010355	.011416	-.017819	.029161	.019142	.031089
59	-.014530	.011794	-.019685	.034692	.015946	.033785
60	-.018569	.019081	-.018698	.025737	.008630	.033527

RUN NO. 67E 40M 05-10-62 0835-0951 EST  
61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.19097 10E 01	0.18565 10E 01	0.12037 10E 01	0.52609 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.869689	.805822	.749149	.874698
2	.701540	.582172	.483828	.690796
3	.567719	.435835	.306131	.540405
4	.457355	.316462	.181449	.423891
5	.359992	.217559	.091531	.335106
6	.275769	.145562	.031752	.264694
7	.205402	.081209	-.015134	.207701
8	.144944	.023812	-.040532	.157068
9	.084497	-.015198	-.048458	.111871
10	.037604	-.034527	-.047155	.065620
11	-.000587	-.048130	-.059711	.012297
12	-.037834	-.049954	-.068600	-.039127
13	-.079617	-.055930	-.079117	-.084448
14	-.116863	-.063629	-.093929	-.118110
15	-.146932	-.077079	-.111411	-.144119
16	-.171777	-.096998	-.138076	-.171282
17	-.204605	-.116218	-.158323	-.198641
18	-.236929	-.129877	-.172426	-.219637
19	-.258944	-.145274	-.181191	-.236764
20	-.265452	-.161378	-.178066	-.250619
21	-.263962	-.176262	-.164191	-.254753
22	-.264027	-.188993	-.166572	-.262137
23	-.263502	-.208871	-.168932	-.269865
24	-.259922	-.221547	-.177103	-.271351
25	-.255031	-.223971	-.186579	-.270281
26	-.252322	-.232979	-.190452	-.270084
27	-.247606	-.240464	-.187630	-.258607
28	-.232146	-.231187	-.175928	-.237104
29	-.206311	-.207675	-.142072	-.203187
30	-.165678	-.177410	-.086017	-.160154
31	-.117584	-.140106	-.031491	-.114435
32	-.080506	-.105282	.008817	-.078093
33	-.050648	-.090452	.047200	-.051679
34	-.024370	-.079522	.067704	-.036344
35	-.004762	-.050848	.074530	-.031330
36	.011676	-.024944	.066599	-.029240
37	.026905	-.016246	.048804	-.028092
38	.034749	-.018957	.034747	-.021854
39	.041281	-.021840	.032940	-.007165
40	.050613	-.020984	.047894	.011231
41	.055048	-.016350	.058932	.023602
42	.052332	-.001860	.059441	.027648
43	.042729	.017991	.055169	.027978
44	.029927	.014927	.051425	.022766
45	.015798	.007427	.045552	.012224
46	-.000898	.012191	.033046	-.000956
47	-.019856	.017424	.022484	-.009601
48	-.034829	.017280	.015309	-.011316
49	-.044093	.025947	.013339	-.008763
50	-.050891	.034791	-.000315	-.007421
51	-.058900	.040428	.000667	-.005256
52	-.063455	.041342	.002886	-.004317
53	-.063389	.039510	-.004444	-.008689
54	-.063913	.038144	-.012196	-.018175
55	-.059837	.041744	-.017899	-.027101
56	-.050308	.040344	-.013526	-.027101
57	-.041671	.041925	-.013960	-.020340
58	-.033076	.044683	-.015320	-.010111
59	-.022735	.045836	-.023646	-.002696
60	-.018213	.045545	-.034732	-.001996



RUN NO. 67E 40M 05-10-62 0835-0951 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 00	10E-01	10E-01	10E-02	10E-01
0	-.029679	-.008817	-.048700	.008290	.082803	.019239
1	.108922	-.069777	-.363242	-.137118	-.237922	.146782
2	.171161	-.096751	-.393130	-.301582	-.590638	.188326
3	.036394	-.117626	-.362316	-.296572	-.332979	.216534
4	.018120	-.072770	-.188429	-.105558	-.023640	.130510
5	.077617	-.030219	-.078079	-.012780	-.051824	.052086
6	-.003391	-.030346	-.069740	.028056	.096725	.060261
7-8	-.052809	-.034242	-.058439	.001519	.157943	.070992
9-11	.021113	-.021415	-.033679	-.024529	-.037163	.043721
12-15	-.021680	-.007573	-.019306	-.024241	.022288	.026142
16-20	-.025965	-.004055	-.006967	.011560	.028754	.011790
21-27	-.003530	-.002294	-.005287	-.010767	-.006966	.009218
28-36	.001003	-.000548	-.002022	-.010254	-.005558	.003631
37-47	-.002159	.000078	-.000299	-.006765	-.000052	.002192
48-60	-.000484	-.000205	-.000532	-.001749	.001846	.001158

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	.578048	-.319196	-.546630	.188618	.397357	-.220044
2	.465801	-.256312	-.700438	.140915	.150202	.188756
3	.275079	-.287792	-.840635	.045951	-.219268	.371988
4	.167392	-.203158	-.571739	.006806	-.256271	.230608
5	.208366	-.093564	-.393211	.058174	.010584	.134641
6	.235352	-.097759	-.300428	.130542	.259907	.015687
7-8	.112499	-.117138	-.216228	.080214	.343384	.010917
9-11	.021951	-.061803	-.130392	.010435	.008391	.045682
12-15	.019965	-.032482	-.062616	-.011158	-.039866	.032691
16-20	.002924	-.017415	.000400	.003233	-.005657	.030159
21-27	.010179	-.016377	-.022182	.001361	.015056	.024272
28-36	-.004198	-.002447	.001198	.001800	-.004990	.004111
37-47	-.000437	-.002788	-.003400	-.000202	.005277	.007430
48-60	.001401	.001098	.000144	-.000749	-.000117	.000524

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-02
0	.043437	.023610	.006891	.111643
1	.303157	.225371	.078102	.838489
2	.342891	.269185	.122822	.950447
3	.350815	.251382	.151650	.932775
4	.205451	.148410	.100998	.541642
5	.101063	.106936	.060071	.271967
6	.094440	.120022	.067987	.238028
7-8	.073575	.102239	.067705	.204889
9-11	.048621	.057171	.050837	.135351
12-15	.025097	.030667	.027406	.094688
16-20	.016419	.025111	.018929	.048424
21-27	.010340	.015273	.013655	.031147
28-36	.007387	.010897	.008477	.016158
37-47	.004058	.007196	.005996	.009343
48-60	.002548	.003895	.003952	.005312

RUN NJ. 67E 40M 05-10-62 0835-0951 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
	0.29946 10E 01	0.13891 10E 01	0.48281 10E 00	0.14023 10E 01	0.48738 10E 00	0.22609 10E 00
0	-.098597	-.484181	-.709092	-.148517	.053203	.575128
1	-.089970	-.251890	-.493552	-.114207	.055054	.302890
2	-.085876	-.094385	-.266724	-.069016	.062364	.117382
3	-.064034	-.073106	-.121258	-.085113	.029048	.058574
4	-.046529	-.018094	-.018715	-.067822	.007206	-.003750
5	.021595	.075876	.093865	-.100668	-.062630	-.108134
6	.049640	.118540	.134690	-.041237	-.067222	-.126905
7	.057572	.102217	.151176	.001495	-.059569	-.118701
8	.075189	.101964	.161210	.044227	-.080627	-.134786
9	.073416	.094072	.167719	.083871	-.073428	-.108896
10	.083241	.127977	.148222	.086057	-.059427	-.108168
11	.093274	.086262	.124837	.058388	-.049037	-.043646
12	.047163	.098966	.138755	.076005	-.006797	-.032162
13	.037047	.077432	.131250	.071887	.004768	-.028441
14	.055003	.031923	.093021	.033090	-.017395	-.034868
15	.022727	.006212	.067109	.044551	-.003333	-.035486
16	-.002813	-.012241	.033354	.041298	.002277	.001251
17	-.018468	-.018688	.034801	.049143	.035551	.003527
18	-.018796	-.057532	.045870	.033029	.032004	-.006512
19	-.026680	-.061809	.043231	-.014934	.023775	-.008521
20	-.052908	-.039892	.021510	.014404	.059270	-.011647
21	-.032923	.002459	.035528	.005039	.072599	-.057358
22	-.091458	.000899	.017537	.042350	.121658	-.014431
23	-.121681	.010496	.003379	.034639	.148996	-.035455
24	-.113762	.036074	-.028876	-.016142	.121763	-.064840
25	-.092333	-.017416	-.083921	-.029551	.113584	.009052
26	-.102375	-.058324	-.096634	.023662	.118879	.058987
27	-.119016	-.002687	-.052929	.040427	.089690	.047844
28	-.107332	.025298	-.023655	.058285	.075952	.034192
29	-.039593	-.003604	-.060455	.054796	.036197	.062187
30	.024307	-.028449	-.074943	.016301	-.023586	.108115

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E 00	10E-01	10E-01	10E-01	10E-01
0	.002922	-.000860	-.020079	-.061294	-.013074	.002124
1	-.005703	-.034612	-.348586	-.585320	-.084128	.078972
2	-.087390	-.070027	-.499038	-.621676	.054265	.122585
3	-.127782	-.104260	-.565039	-.501460	.154146	.165691
4	-.068427	-.085381	-.462859	-.178389	.108351	.168828
5	-.029152	-.049033	-.335760	.054817	.080300	.128953
6	-.004289	-.040719	-.241259	.124128	.025376	.091145
7	.002326	-.038314	-.204225	.091310	-.011091	.064564
8	.005020	-.024916	-.145790	.008603	-.009858	.043436
9-11	.009357	-.014773	-.090937	-.108089	-.011830	.042792
12-14	.002100	-.020812	-.062141	-.067757	-.020074	.032148
15-21	-.003649	-.021281	-.050769	-.021685	.002554	.037651
22-30	-.000038	-.009609	-.025624	-.013504	-.000495	.019056

RUN NO. 67E 40M 05-10-62 0835-0951 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
	0.29946 10E 01	0.13891 10E 01	0.48281 10E 00	0.14023 10E 01	0.48738 10E 00	0.22609 10E 00
1	.086449	-.111665	-.095760	.064683	.039474	-.021024
2	.118998	-.149672	-.119264	.087013	.093598	-.098280
3	.134255	-.145056	-.150367	.101422	.109064	-.079964
4	.128812	-.135714	-.154567	.092237	.109795	-.084511
5	.110179	-.100717	-.169279	.097891	.120580	-.005610
6	.098416	-.027389	-.142214	.097076	.103703	.033071
7	.092905	.011416	-.085632	.063847	.089747	.030027
8	.065111	-.017000	-.060541	.044893	.059835	.015610
9	.041731	.012681	-.009947	.053208	.036138	.005572
10	-.016319	.040038	.017290	.009918	-.025707	-.017716
11	-.065599	.076825	.019882	.010968	-.067162	.015074
12	-.048692	.010809	.007043	.002121	-.057453	.003980
13	-.036191	-.009692	.039199	-.023766	-.058657	-.014516
14	-.025656	.048671	.047841	-.018226	-.055692	.033076
15	-.037357	.072096	.047510	-.021389	-.036853	.049898
16	-.043483	.043520	.042309	-.031929	-.049469	.034785
17	-.050022	.016306	.024164	-.026567	-.062852	-.000078
18	-.055839	.009868	.024466	-.051671	-.043973	-.017422
19	-.049964	.013168	.014264	-.063594	-.071030	.013181
20	-.033709	-.017153	.022120	-.044858	-.060525	.009729
21	-.059610	-.033653	-.000968	-.057275	-.066731	.017526
22	-.080196	.001483	-.018323	-.100943	-.075760	.009078
23	-.061572	-.002751	-.028622	-.068513	-.014614	.044455
24	-.029275	-.028163	-.007400	-.059053	-.000205	.036634
25	-.011552	.000735	.023933	-.037607	.024994	.027352
26	-.015466	.051972	.035720	-.057310	.014605	.033391
27	.012083	.032151	.017147	-.018271	.035569	.026449
28	.022679	-.017979	.029395	.025277	.045396	-.036674
29	.013563	.020423	.068827	.044254	.040377	-.037777
30	.003571	.032547	.037145	.068019	.039068	-.025604

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	.034964	-.052251	-.129653	.254154	.016158	.070387
2	.115135	-.268386	-.203346	.523685	.165811	-.159899
3	.146338	-.543371	-.273043	.496243	.234843	-.288184
4	.109352	-.564932	-.215064	.306580	.159317	-.341527
5	.065261	-.427745	-.115741	.206958	.079630	-.349700
6	.020722	-.368730	-.061072	.096817	.001647	-.416887
7	.007776	-.269118	-.019249	.068496	-.021322	-.473659
8	.018007	-.130293	.003091	.060276	.010354	-.276993
9-11	.024222	-.091022	-.010086	.035952	.016193	-.002828
12-14	-.001197	.035747	-.016164	.041719	-.005373	.137940
15-21	.005610	-.058609	-.008761	.002724	-.005033	.011478
22-30	.001356	.007630	-.010845	.024974	-.002654	.129843

RUN NO. 67E 40M 05-10-62 0835-0951 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.29664 10E 01	0.30229 10E 01	0.65051 10E 00	0.78581 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.671015	.710213	.290881	.630375
2	.358502	.508283	.023851	.326523
3	.191226	.331905	.012751	.147176
4	.042282	.212786	.006253	.000566
5	-.150921	.121811	-.086751	-.133470
6	-.246310	.019459	-.135474	-.195062
7	-.258645	-.116349	-.096460	-.223960
8	-.263412	-.229107	-.095159	-.223977
9	-.273677	-.329816	-.122138	-.201179
10	-.227703	-.380736	-.152090	-.170297
11	-.159059	-.412145	-.084159	-.127207
12	-.120253	-.439941	-.076045	-.140721
13	-.118824	-.422283	-.090112	-.114668
14	-.097164	-.409287	-.080783	-.084748
15	-.048822	-.344429	-.024893	-.044172
16	-.028416	-.260190	.022571	-.010183
17	-.059957	-.155641	-.029276	-.061271
18	-.055367	-.047896	.018018	-.090394
19	-.022873	.042064	.068955	-.113056
20	.006716	.057535	.046736	-.127453
21	.008529	.078251	-.073673	-.133117
22	.041074	.120556	-.006978	-.082794
23	.068227	.183928	.074948	-.063906
24	.084115	.253653	-.015403	-.007617
25	.103097	.263647	-.075772	.075838
26	.104221	.236310	.023291	.121612
27	.028522	.187591	.061234	.112622
28	-.027236	.126282	-.006792	.105085
29	-.036025	.032366	.049559	.147938
30	-.027926	-.031017	.078042	.200350

POWER SPECTRUM

K	J	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.018767	.025042	.012973	.003788
1	.256739	.478121	.259985	.075512
2	.397955	.723592	.431131	.099345
3	.500568	.670028	.580511	.111489
4	.434618	.263097	.497097	.107338
5	.325792	.102605	.360596	.081569
6	.204359	.107749	.330277	.052163
7	.132417	.108094	.319011	.044816
8	.100111	.080169	.274769	.032999
9-11	.071329	.085160	.254249	.021381
12-14	.055000	.046689	.249839	.017111
15-21	.055089	.030424	.260479	.013916
22-30	.025535	.037449	.206405	.009525

RUN NO. 67E 16M 05-10-62 0835-0951 EST  
 RUN NO. 67E 40M 05-10-62 0F35-0951 EST  
 61 POINT RUNNING MEAN, 110 BLOCK AVERAGING

COHERENCE WITH QUADRATURE

K	U	V	W	T
	10E 00	10E 00	10E 00	10E 00
0	.825357	.825689	.784930	.835526
1	.750301	.709867	.731693	.824789
2	.654530	.581685	.724564	.724498
3	.576313	.474994	.710472	.664274
4	.480061	.468010	.647136	.582999
5	.318309	.572952	.539208	.410316
6	.231622	.560919	.563156	.449416
7-8	.194971	.533530	.529488	.508936
9-11	.308294	.404600	.505828	.365926
12-15	.141087	.304854	.356187	.187728
16-20	.097152	.297955	.248575	.170601
21-27	.063181	.153647	.262248	.143884
28-36	.168257	.122126	.127085	.149788
37-47	.098762	.125488	.136056	.120369
48-60	.105658	.097371	.114467	.089621

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	.918610	.987289	.625988	.926226
1	.914098	.968354	.738168	.939241
2	.930163	.968330	.737175	.944861
3	.940236	.957782	.763486	.957083
4	.931534	.914686	.792134	.968038
5	.898068	.798314	.783032	.948452
6	.833422	.834236	.793930	.918389
7	.813943	.869803	.823544	.901654
8	.802188	.846791	.821438	.871177
9-11	.716037	.624362	.641922	.762795
12-14	.562883	.423256	.712200	.599431
15-21	.558799	.406125	.689181	.608121
22-30	.295512	.401861	.510246	.362037

RUN NO. 67F 16M 05-10-62 1004-1120 EST

GROSS STATISTICS

CLEAR	WIND SPEED	10.45 M/SEC	WIND DIRECTION	295 DEG
UNSTABLE	SIGMA A	15.0 DEG	SOLAR RADIATION	1.41
LAND	SIGMA E	5.8 DEG	NET RADIATION	0.97

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

VARIANCES

U	0.56348E 01	0.36682E 01	0.24787E 01	0.25492E 01
V	0.77342E 01	0.43281E 01	0.23530E 01	0.31535E 01
W	0.97210E 00	0.90359E 00	0.79800E 00	0.32792E-00
T	0.39316E-00	0.13725E-00	0.96246E-01	0.90928E-01
E	0.71705E 01	0.44501E 01	0.28149E 01	

GUSTINESS RATIOS

U	0.22715	0.18328	0.15066	0.15279
V	0.26613	0.19908	0.14679	0.16993
W	0.09435	0.09096	0.08548	0.05480

COVARIANCES

U,V	-0.15512E 01	-0.41499E-00	-0.72590E-01	-0.37387E-00
U,W	-0.96654E 00	-0.68780E 00	-0.54156E 00	-0.41873E-00
U,T	-0.80728E 00	-0.35114E-00	-0.23524E-00	-0.23549E-00
V,W	0.22653E-00	0.27106E-01	0.88008E-02	0.51956E-01
V,T	0.32505E-00	0.55802E-01	-0.27736E-01	0.78034E-01
W,T	0.20294E-00	0.13138E-00	0.10457E-00	0.69571E-01
WE	0.13460E-00	0.22795E-00	0.96509E-01	

NORMALIZED COVARIANCES

U,V	-0.23497	-0.10415	-0.03006	-0.13186
U,W	-0.41298	-0.37779	-0.38506	-0.45798
U,T	-0.54238	-0.49487	-0.48161	-0.55143
V,W	0.08262	0.01371	0.00642	0.05109
V,T	0.18640	0.07240	-0.05828	0.14573
W,T	0.32828	0.37307	0.37733	0.40289

RUN NO. 67F 16M 05-10-62 1004-1120 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.24152 10E 01	0.14068 10E 01	0.44853 10E 00	0.13704 10E 01	0.47587 10E 00	0.27720 10E 00
0	-.030104	-.385193	-.481667	.006467	-.058219	.377409
1	-.025870	-.313772	-.439014	.008601	-.045411	.292513
2	-.020939	-.225237	-.370019	.018234	-.028376	.195657
3	-.026428	-.160575	-.307270	.027221	-.012839	.130080
4	-.029457	-.113884	-.249542	.024842	.000437	.090706
5	-.019521	-.072922	-.195315	.010654	.005355	.056450
6	-.010964	-.045720	-.149115	.006229	.008996	.033214
7	-.009160	-.030218	-.114924	.013382	.013761	.018921
8	-.004814	-.010903	-.080302	.014560	.011493	-.003132
9	.000369	.013515	-.044925	.011498	.003583	-.033467
10	.004480	.027445	-.009427	-.000732	-.002962	-.049174
11	.007047	.033481	.015817	-.012885	-.000947	-.051845
12	.006827	.041910	.033004	-.013285	.000893	-.052498
13	.007062	.047137	.047211	-.010043	.014402	-.059154
14	.003867	.047245	.054072	-.008777	.030364	-.062968
15	-.000197	.046779	.064249	-.011340	.046178	-.062220
16	-.008193	.048425	.073001	-.012410	.053671	-.057651
17	-.008447	.043267	.078367	-.012297	.057493	-.055279
18	-.009066	.044498	.083814	-.017585	.055140	-.046965
19	-.017929	.054819	.093802	-.016199	.051506	-.041058
20	-.021266	.065111	.103233	-.020084	.051349	-.042913
21	-.028413	.074302	.108646	-.011339	.058402	-.042182
22	-.036417	.066739	.110586	-.020253	.067379	-.038212
23	-.039656	.054668	.117440	.004410	.069888	-.044631
24	-.037936	.051319	.122986	.002274	.063699	-.054892
25	-.037848	.048634	.127222	.004645	.058465	-.051485
26	-.036951	.049265	.135991	.009256	.050927	-.044376
27	-.037729	.051415	.140695	.010318	.037972	-.036481
28	-.037509	.048230	.139947	.020701	.027233	-.021337
29	-.033549	.043022	.133527	.030288	.014241	-.007007
30	-.023770	.037990	.124849	.024456	.000756	-.002743
31	-.011278	.029631	.110097	.017053	-.013679	-.001083
32	.000412	.014033	.093291	.015986	-.023374	.004765
33	.013248	.007852	.087441	.014623	-.029794	.008603
34	.026179	.005021	.084852	.008559	-.036321	-.000092
35	.040097	.005594	.080276	-.002433	-.037438	-.010137
36	.048224	.006968	.067127	-.000061	-.036322	-.010956
37	.050159	.010673	.055507	-.001188	-.041159	-.009331
38	.048948	.021590	.048719	-.003985	-.050727	-.014013
39	.051141	.030648	.045703	-.014245	-.061127	-.018667
40	.058778	.026836	.038006	-.025920	-.064526	-.021711
41	.067182	.020662	.032565	-.029016	-.063277	-.018647
42	.071898	.018499	.031007	-.029408	-.063831	-.012210
43	.070110	.015261	.027645	-.028708	-.066313	-.006555
44	.061804	.008296	.024060	-.022863	-.069861	-.005339
45	.059924	.006485	.018646	-.027242	-.070289	-.005081
46	.057955	.009141	.010153	-.029385	-.064815	-.003780
47	.054488	.011239	.002740	-.024501	-.059195	-.007069
48	.045827	.008706	-.004197	-.020307	-.050298	-.013163
49	.037043	.005465	-.006674	-.017133	-.041067	-.014780
50	.030457	.006299	-.008606	-.014398	-.034704	-.009478
51	.029325	.011854	-.011565	-.019007	-.023675	-.004751
52	.019258	.011817	-.010360	-.022285	-.018871	.004946
53	.007910	.007689	-.008589	-.018760	-.017760	.014907
54	-.001610	.012867	-.003431	-.007750	-.013593	.014643
55	-.004247	.014215	-.001314	-.007869	-.009319	.006920
56	-.002584	.009581	-.005048	-.006946	-.002124	.002635
57	-.000655	.004471	-.005141	-.005488	.004427	.004027
58	.000128	-.001019	-.004628	-.002060	.004811	.004418
59	.002575	-.003640	-.010050	-.001229	-.001910	.007769
60	-.005787	.003406	-.008205	.005763	-.002753	.007376

RUN NO. 67F 16M 05-10-62 1004-1120 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	.24152 10E 01	0.14068 10E 01	0.48853 10E 00	0.13704 10E 01	0.47587 10E 00	0.27720 10E 00
1	.002838	-.057697	-.049511	.005219	.008785	.049733
2	.010233	-.077815	-.071807	.015705	.019179	.056744
3	.021433	-.079424	-.082014	.020135	.025384	.056013
4	.032864	-.063570	-.087157	.031060	.026844	.062445
5	.033801	-.050559	-.090231	.032491	.021038	.066459
6	.029305	-.041990	-.075287	.022431	.015357	.061975
7	.027630	-.026058	-.102784	.012328	.013834	.057541
8	.024040	-.010319	-.108336	.008720	.011168	.052809
9	.018309	-.002670	-.109149	.009739	.002457	.048216
10	.009809	-.002220	-.104406	.008686	-.004698	.036801
11	.003901	-.001932	-.097471	.002033	-.014648	.027614
12	.007858	-.002533	-.095072	-.005452	-.022410	.030034
13	.011847	-.003060	-.096583	-.002237	-.024061	.038929
14	.013610	-.004848	-.098258	-.000217	-.023471	.043010
15	.017169	-.011160	-.096475	-.003265	-.023813	.048284
16	.018909	-.022385	-.096595	.000997	-.020273	.047987
17	.018930	-.026933	-.088642	.007288	-.013303	.040883
18	.020744	-.029658	-.074559	.014167	-.007161	.031941
19	.025033	-.022088	-.058914	.018905	-.006062	.027843
20	.030701	-.017170	-.048236	.021257	-.002947	.027136
21	.032510	-.018092	-.034689	.020943	-.000051	.034417
22	.034064	-.018568	-.019386	.012337	.000323	.027709
23	.039780	-.019125	-.008010	.009065	.001620	.014158
24	.036011	-.018106	.000338	.002951	.000596	-.004452
25	.031694	-.018439	.007443	-.000187	-.000903	-.024656
26	.026384	-.021812	.011945	.001978	-.002846	-.037409
27	.018844	-.021660	.017304	.007296	-.007015	-.039609
28	.010144	-.013479	.020500	.007581	-.008365	-.043177
29	.000965	.000170	.023463	-.002908	-.002325	-.040062
30	-.007583	.011256	.022202	-.006724	.002565	-.028892
31	-.011961	.003856	.018288	-.001718	.009544	-.022824
32	-.014065	-.009321	.013502	.006215	.019873	-.024274
33	-.012935	-.012484	.012554	.006793	.028595	-.015769
34	-.009759	-.007267	.022978	-.002908	.029126	-.015354
35	-.011828	.001938	.035294	-.006516	.030626	-.010701
36	-.014290	.006740	.044455	-.011117	.020007	-.008313
37	-.013058	.006795	.046607	-.013646	.006668	-.010979
38	-.019023	.007330	.043554	-.016198	-.001842	-.001841
39	-.023271	.010528	.038028	-.005560	-.003948	.006094
40	-.020803	.019070	.040773	.006938	-.000843	.007384
41	-.014960	.032054	.044798	.020314	-.002117	.006515
42	-.012914	.038346	.042550	.020955	-.011485	.008416
43	-.015986	.035728	.040655	.006412	-.019906	.011611
44	-.014847	.031228	.035553	-.003271	-.023519	.012539
45	-.011555	.030640	.028602	-.005928	-.024901	.012491
46	-.004461	.032863	.023003	-.005271	-.023800	.018356
47	-.000244	.034915	.020089	-.012387	-.018785	.016918
48	-.000271	.030737	.017850	-.017835	-.016562	.006644
49	-.001700	.025539	.016462	-.021661	-.019477	-.000954
50	-.000665	.023761	.014197	-.024565	-.021086	-.002053
51	-.002359	.023573	.011422	-.022575	-.022575	.002195
52	-.008329	.023268	.013090	-.024367	-.027536	.000178
53	-.014290	.024257	.014442	-.026441	-.030223	-.003066
54	-.020647	.016195	.016220	-.017472	-.028079	-.006902
55	-.024623	.003143	.012799	-.013459	-.021214	-.008262
56	-.035707	-.007198	.002499	-.011258	-.016275	-.006640
57	-.044581	-.016617	-.008957	-.012834	-.018979	-.005579
58	-.046122	-.018933	-.016835	-.008087	-.023662	-.006036
59	-.040327	-.016515	-.022369	-.006872	-.031706	-.005317
60	-.031177	-.014259	-.022144	-.003034	-.027904	-.004525



RUN NO. 67F 16M 05-10-62 1004-1120 EST  
 61 PC'VT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOVARIANCE

M	U	V	M	T
	0.24794 10E 01	0.23526 10E 01	0.79825 10E 00	0.96258 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.835040	.804748	.596737	.833822
2	.639527	.585272	.275411	.640614
3	.486237	.438158	.137807	.500127
4	.371115	.335946	.072871	.391710
5	.277235	.259842	.030743	.297974
6	.194029	.191437	-.000266	.229468
7	.135990	.123259	-.004609	.179301
8	.084484	.059509	-.023510	.122346
9	.039020	.026073	-.072594	.070773
10	-.001531	-.007272	-.097354	.029406
11	-.031993	-.036854	-.092438	-.004906
12	-.054663	-.063997	-.087266	-.035249
13	-.074067	-.080243	-.092485	-.072979
14	-.083593	-.086956	-.102767	-.108596
15	-.104039	-.092190	-.077458	-.139351
16	-.121423	-.108876	-.072411	-.165599
17	-.149221	-.137324	-.077839	-.185912
18	-.171167	-.163708	-.071308	-.196074
19	-.189705	-.179154	-.059219	-.202923
20	-.208374	-.179083	-.059298	-.206440
21	-.223568	-.174299	-.064500	-.213315
22	-.227889	-.174563	-.072918	-.226977
23	-.220419	-.179527	-.097843	-.246923
24	-.209615	-.187554	-.118949	-.263877
25	-.207630	-.196262	-.105424	-.277245
26	-.205302	-.194760	-.092739	-.282402
27	-.199459	-.180970	-.086809	-.273950
28	-.195004	-.164289	-.074521	-.253006
29	-.188407	-.139610	-.053256	-.223288
30	-.169749	-.108992	-.017844	-.194598
31	-.141352	-.069620	.005282	-.167148
32	-.114906	-.048500	.018902	-.140130
33	-.100385	-.036471	.017103	-.121736
34	-.089613	-.027688	.007685	-.113900
35	-.078348	-.017302	.014359	-.106208
36	-.062039	-.014698	.001494	-.094495
37	-.048244	-.014295	-.009289	-.082775
38	-.040416	.004323	-.009574	-.072188
39	-.042924	.005953	-.014526	-.062058
40	-.049476	.015215	-.012273	-.051331
41	-.048706	.009188	-.007404	-.038355
42	-.047413	-.006116	.003628	-.022470
43	-.046405	-.011353	.007254	-.003506
44	-.043338	-.015243	.004730	.016715
45	-.039616	-.011754	-.007726	.031884
46	-.037970	-.004657	-.028132	.044915
47	-.029018	-.004881	-.021648	.043264
48	-.010708	-.022220	-.013102	.039229
49	-.000350	-.040827	-.013760	.046787
50	.005009	-.059812	-.006671	.065237
51	-.001215	-.073583	.016399	.069128
52	-.003157	-.073831	.041420	.067771
53	-.005370	-.070892	.056552	.065958
54	-.001472	-.067523	.026924	.054481
55	.000937	-.069553	.011716	.038897
56	.004902	-.067093	.008734	.024357
57	.003321	-.067279	.014355	.013451
58	-.010955	-.069391	.017892	.004804
59	-.011353	-.061581	.021682	.009086
60	-.011585	-.052134	.016251	.014032

RUN NO. 67F . 16M 05-10-62 1004-1120 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-01	10E-01
0	-.085200	-.075447	-.047356	.010145	.022680	.010024
1	-.415181	-.603265	-.448517	.065783	.077161	.084796
2	-.016902	-.668204	-.485180	.027498	-.041917	.103011
3	.159292	-.699650	-.408114	.062153	-.114677	.123671
4	-.207103	-.552516	-.241294	.122753	-.036285	.112648
5	-.271905	-.396854	-.172689	.038926	.020011	.084674
6	-.045119	-.334239	-.150164	-.038956	.007415	.066740
7-8	.006589	-.285506	-.093154	-.011706	-.017830	.054838
9-11	.015513	-.159824	-.043039	-.014654	-.022096	.027588
12-15	.010022	-.118118	-.028851	-.005215	-.009949	.023223
16-20	.007727	-.071838	-.015743	-.014806	-.003407	.019352
21-27	-.007524	-.038771	-.006709	-.012981	-.002967	.009296
28-36	-.017380	-.033270	-.005995	.006057	-.000237	.008031
37-47	.000481	-.013760	-.002156	.000253	-.001556	.003683
48-60	.000344	-.011379	-.001569	.001314	-.000667	.003019

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-02
1	.319461	-.164029	-.164656	.764692	-.091878	.390499
2	.301967	-.171471	-.213837	.699618	-.112505	.526923
3	.129756	-.081148	-.194766	.428401	-.120577	.638322
4	-.035501	-.056790	-.098931	.256264	.202059	.350205
5	.050139	-.109545	-.041772	.309373	.323729	.060960
6	.170673	-.128474	-.014983	.704354	.235416	.129470
7-8	.110888	-.161569	-.026530	.685895	.310148	.277486
9-11	.022040	-.117241	-.019111	.103256	.007235	.099632
12-15	-.026475	-.054774	-.008351	.119142	.088958	.025452
16-20	-.009771	-.029716	-.012439	-.119260	.018886	.066538
21-27	-.016424	-.023012	-.002854	-.061585	-.019526	.030120
28-36	.002344	-.003044	-.002500	.033247	-.001776	.039010
37-47	.000347	-.006532	-.001563	-.031265	-.002468	.012818
48-60	-.000464	-.002286	-.000215	-.024397	-.002311	.004803

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.038783	.046554	.035793	.013031
1	.355155	.310106	.364850	.141497
2	.396735	.328823	.496121	.170258
3	.368536	.333665	.608349	.153118
4	.235920	.221538	.526017	.087031
5	.152029	.136764	.415430	.055868
6	.135471	.128961	.414669	.048711
7-8	.115671	.109284	.385462	.038954
9-11	.070374	.064407	.240695	.025282
12-15	.042679	.040341	.229074	.015932
16-20	.027103	.030869	.197330	.011278
21-27	.017211	.023470	.130269	.006266
28-36	.011228	.012280	.112484	.005002
37-47	.006705	.008724	.073354	.002701
48-60	.005265	.005641	.051791	.001992

RUN NO. 67F 16M 05-10-62 1004-1120 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
	0.28345 10E 01	0.91438 10E 00	0.48123 10E 00	0.10169 10E 01	0.53517 10E 00	0.17244 10E 00
0	-.131902	-.457935	-.551686	.051094	.145812	.402978
1	-.099490	-.184674	-.292034	.025118	.131772	.159380
2	-.077584	-.038739	-.094701	.005500	.113549	.058282
3	-.028161	.023285	.051623	.022870	.022532	.024503
4	.053584	.088425	.101546	-.020267	-.068466	-.051023
5	.053537	.122697	.102240	-.019771	-.086039	-.082229
6	.022890	.093900	.071523	.002527	-.065106	-.069414
7	.020170	.059824	.023389	.023396	-.037887	-.085657
8	-.010512	-.014792	-.026784	.039075	.004472	-.034498
9	-.030671	-.006883	.016644	.020516	.038534	-.054059
10	.011897	.061568	.056852	-.014964	.011265	-.003267
11	.033819	.023204	.044037	-.050664	-.012370	.028517
12	.037428	.027488	.041593	-.014022	-.056275	-.030566
13	.000697	.059644	.038555	.028897	-.043958	-.009821
14	-.024784	.014685	.008114	.039374	-.049070	.010892
15	-.060633	-.076004	-.002982	.019766	-.011044	.044722
16	-.062796	-.084633	.009749	-.042777	.042215	.052159
17	-.072531	-.074468	.018093	.000947	.083043	.110513
18	-.052383	-.022264	.039911	-.008504	.092510	.045252
19	.066560	-.009980	-.014105	-.062468	.026129	.034084
20	.109367	-.006376	.031374	-.030408	.003132	.068852
21	.106996	.036471	.049165	-.059905	-.029405	.031349
22	.106137	.040989	-.018099	-.060352	-.080891	.008970
23	.079491	.033736	-.037024	-.022145	-.115507	-.007315
24	.010756	-.009711	.007878	.043972	-.093282	-.009681
25	-.011074	-.013251	.008202	.037215	-.050611	-.010515
26	.025224	.049022	.011540	.045690	-.036994	-.066859
27	.060482	.064744	.015734	.029319	-.046664	-.126134
28	.069259	.110196	.066566	-.037292	-.037226	-.112605
29	.053649	.112063	.087168	-.007706	-.037157	-.137942
30	-.005359	.054887	.031485	.088208	-.013294	-.082494

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	-.116824	-.024754	-.028917	.013918	.014447	.077743
1	-.584773	-.112947	-.179731	.108136	.087000	.200145
2	-.263828	-.155362	-.187694	.054663	.074685	.328415
3	-.402919	-.347893	-.220528	-.008413	.134543	.822985
4	-.780717	-.423438	-.228114	.039049	.145226	.837210
5	-.391832	-.324155	-.231244	.035865	.089143	.522681
6	-.257083	-.343531	-.233812	-.009838	.165093	.455874
7	-.750553	-.445996	-.252491	.078130	.190895	.473425
8	-.522572	-.347991	-.241516	.122177	.061288	.394213
9-11	.053331	-.124489	-.121498	-.011408	-.019647	.215944
12-14	.038708	-.106732	-.064505	.007915	-.020501	.162054
15-21	-.008853	-.140003	-.047031	.030355	-.011572	.229628
22-30	-.042919	-.098075	-.050067	-.000984	.008918	.184289

RUN NO. 67F 16M 05-10-62 1004-1120 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
	0.28345 10E 01	0.91438 10E 00	0.48123 10E 00	0.10169 10E 01	0.53517 10E 00	0.17264 10E 00
1	-.005201	-.037384	-.157211	.005573	-.026885	.093313
2	-.021024	-.037422	-.152652	.007968	-.062550	.059029
3	-.050692	-.017954	-.114146	-.011619	-.063005	.025270
4	-.084304	.012730	-.087592	-.011729	-.062461	.007312
5	-.082688	.008384	-.079526	-.024860	-.059500	-.026962
6	-.081970	-.014439	-.106859	-.005204	-.048107	-.060799
7	-.048359	-.025963	-.093202	-.002509	.008922	-.074925
8	-.007222	-.027021	-.086879	.018303	.032287	-.077640
9	.029784	-.013023	-.095455	-.013481	.045737	-.036499
10	.039027	.013910	-.028345	-.012637	.018617	-.022582
11	.042845	.077962	-.000643	.013234	.002338	.042308
12	.086114	.027968	-.017054	.041604	.007338	.076080
13	.061687	.061898	.018622	.007942	.026540	.036952
14	.038393	.074132	.113875	-.014579	.044005	-.063372
15	.045458	.041890	.137583	-.009092	.073305	-.057838
16	.047603	.005954	.111529	.004133	.065006	-.033987
17	.052306	-.038594	.081654	.043230	.074141	-.025460
18	-.046090	-.017984	.024079	-.013362	-.009371	.045346
19	-.068848	-.008043	-.043992	-.081653	-.062807	.030697
20	-.068822	.020447	-.082447	-.080882	-.081492	.097577
21	-.096678	-.015237	-.058583	-.059232	-.082236	.096420
22	-.113315	-.058872	-.014154	-.122763	-.085714	.039187
23	-.037056	-.039861	.036737	-.040723	-.041423	.004800
24	.040774	.004022	.034169	.067827	-.003409	.004110
25	.110318	-.020813	.007338	.135284	.047609	.013739
26	.091384	.013831	.025071	.088721	.024438	.005880
27	.098874	-.040242	.015262	.089488	.025721	-.024852
28	.087966	-.033535	.020157	.049356	-.010448	-.020559
29	.061195	-.025209	.018480	-.025221	-.014002	.010084
30	.040504	.006624	.002257	.003776	.022242	.007685

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-01	10E-02
1	.019081	.088880	-.112059	-.544661	.018186	-.129608
2	-.201890	.015463	-.194723	.207472	-.020195	-.214586
3	-.856898	-.117694	-.261356	-.326307	-.125458	-.069743
4	-.922202	-.113649	-.143696	-.823442	-.122041	.062894
5	-.103328	.018730	-.002018	.338999	-.042554	.134866
6	.068026	.065847	-.056526	-.097322	-.081837	.467008
7	.123059	-.009668	-.125061	-.054149	-.066292	.523323
8	.325775	-.100210	-.062757	.585864	.035874	.120053
9-11	.095481	-.077977	-.078532	.264570	.012049	.064348
12-14	-.027621	-.009110	-.034472	-.154679	-.018197	.081411
15-21	.011923	-.006462	-.024929	.074728	.009306	.104764
22-30	.015006	-.000305	-.006821	-.151417	.006395	.021642

RUN NO. 67F 16M 05-10-62 1004-1120 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.25488 10E 01	0.31522 10E 01	0.32804 10E 00	0.90859 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.516136	-.613787	.240817	-.528705
2	.187511	-.336461	.063554	-.160853
3	.015802	-.136674	-.013204	-.062015
4	-.083314	-.043516	-.067099	-.124345
5	-.121146	-.203013	-.111195	-.119991
6	-.094018	-.278303	-.097440	-.107650
7	-.028798	-.270369	-.132438	-.092493
8	.017700	-.240663	-.098090	-.055330
9	-.065935	-.204254	-.068741	-.106800
10	-.149150	-.184592	-.107401	-.118777
11	-.140400	-.219750	-.072484	-.050106
12	-.152951	-.137030	-.092488	-.063825
13	-.187497	-.098842	-.114724	-.070004
14	-.106245	-.071896	-.168892	-.084525
15	.031820	.038519	.041376	-.096800
16	.057861	.150297	.065621	-.084481
17	.000268	.250846	.173842	.027144
18	-.058099	.255589	.044492	.063191
19	-.060652	.188272	.040658	.089406
20	-.125215	.140688	.113875	.025573
21	-.139223	.060438	.088416	-.059922
22	-.095173	-.028529	-.029734	-.046394
23	-.011190	-.087012	-.044462	-.028279
24	-.030320	-.125818	-.071146	-.067025
25	-.012221	-.166055	.027911	.008710
26	-.002286	-.169956	-.066818	.005391
27	.023964	-.122832	-.087555	.000717
28	-.076714	-.149768	-.085219	.006295
29	-.082432	-.136093	-.147008	-.037894
30	.049831	-.116809	-.079022	-.005042

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.026753	.035828	.013608	.086821
1	.231505	.177114	.101027	.603846
2	.244029	.287913	.177815	.724865
3	.253403	.551339	.296169	.900880
4	.222591	.500631	.247491	.815464
5	.161664	.270744	.158646	.717134
6	.162948	.252108	.193166	.775193
7	.231978	.235252	.208612	.717347
8	.208658	.124590	.141393	.535959
9-11	.095109	.064567	.117093	.486374
12-14	.058259	.065095	.106413	.259003
15-21	.060970	.055516	.126907	.166853
22-30	.046848	.045167	.126653	.159922

RUN NO. 67F 40M 05-10-62 1004-1120 EST

GROSS STATISTICS

CLEAR WIND SPEED 11.54 M/SEC WIND DIRECTION 303 DEG  
 UNSTABLE SIGMA A 13.3 DEG SOLAR RADIATION 1.41  
 LAND SIGMA E 6.9 DEG NET RADIATION 0.97

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.58932E 01	0.34051E 01	0.20489E 01	0.24780E 01
V	0.73661E 01	0.40770E 01	0.24244E 01	0.28770E 01
W	0.16256E 01	0.14340E 01	0.12707E 01	0.57838E 00
T	0.35724E-00	0.11480E-00	0.72637E-01	0.86561E-01
E	0.74425E 01	0.44581E 01	0.28721E 01	

**GUSTINESS RATIOS**

U	0.21036	0.15990	0.12404	0.13641
V	0.23519	0.17497	0.13493	0.14698
W	0.11048	0.10377	0.09768	0.06590

**COVARIANCES**

U,V	-0.12017E 01	-0.32227E-00	0.10314E-01	-0.30925E-00
U,W	-0.12909E 01	-0.79611E 00	-0.56051E 00	-0.50722E 00
U,T	-0.83740E 00	-0.34193E-00	-0.19753E-00	-0.28066E-00
V,W	-0.64176E-01	-0.94250E-01	-0.11013E-00	-0.27541E-01
V,T	0.37153E-00	0.96422E-01	-0.38475E-02	0.10368E-00
W,T	0.27527E-00	0.15011E-00	0.12012E-00	0.84538E-01
WE	0.95987E 00	0.44586E-00	0.27452E-00	

**NORMALIZED COVARIANCES**

U,V	-0.18240	-0.08649	0.00463	-0.11582
U,W	-0.41708	-0.36028	-0.34738	-0.42368
U,T	-0.57713	-0.54690	-0.51203	-0.60599
V,W	-0.01855	-0.03898	-0.06275	-0.02135
V,T	0.22903	0.14094	-0.00917	0.20776
W,T	0.36122	0.36998	0.39539	0.37782

RUN NO. 67F 40M 05-10-62 1004-1120 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	M,T
	0.22290 10E 01	0.16136 10E 01	0.38584 10E 00	0.17553 10E 01	0.41974 10E 00	0.30385 10E 00
0	.004440	-.347478	-.511942	-.062729	-.008973	-.395229
1	.005457	-.304571	-.485266	-.043535	-.003785	-.332119
2	.004968	-.236504	-.427947	-.026103	.004429	.239971
3	.004134	-.172798	-.362800	-.018500	.012847	.166458
4	.006520	-.122683	-.299306	-.010042	.021058	.111130
5	.005351	-.086748	-.243155	.002830	.029082	.069150
6	.004577	-.058669	-.191034	.014023	.033921	.038894
7	.008536	-.030108	-.143826	.019770	.034910	.009581
8	.012896	-.011041	-.103666	.016510	.039286	-.011315
9	.013003	.003367	-.071613	.008840	.034127	-.029893
10	.014802	.016490	-.046814	.002484	.033109	-.047325
11	.016168	.026764	-.022343	-.002097	.034972	-.052682
12	.008651	.026296	-.000653	-.003174	.035480	-.049385
13	-.002690	.028297	.019802	-.002890	.035223	-.047270
14	-.017725	.023417	.041727	-.004317	.028933	-.042657
15	-.023471	.017074	.063392	-.006647	.020227	-.038651
16	-.026429	.014451	.085316	-.004375	.012568	-.040880
17	-.030826	.015532	.105459	-.000585	.011190	-.047868
18	-.031066	.020977	.118852	.002561	.014367	-.054850
19	-.029389	.028433	.125583	.003892	.016733	-.062689
20	-.029403	.036643	.130117	.003862	.015950	-.058085
21	-.033063	.044803	.140213	.005201	.011647	-.048960
22	-.031547	.054771	.152784	.010992	.00274	.049973
23	-.029277	.064185	.164940	.016154	.009467	-.064115
24	-.029636	.074978	.177225	.019473	.065380	-.075100
25	-.027397	.088789	.186014	.015592	.001392	-.080444
26	-.023963	.093654	.189998	.008720	-.001369	-.075029
27	-.020690	.090687	.186146	.006756	-.005515	-.062920
28	-.019230	.082972	.179195	.002980	-.005554	-.053088
29	-.019703	.076266	.170454	-.000729	-.003770	-.043226
30	-.019565	.071587	.164722	.000998	-.001104	-.029571
31	-.025238	.062209	.159137	.000563	.003401	-.021255
32	-.025666	.049620	.152348	.000658	.007944	-.021297
33	-.024898	.048784	.148100	-.004401	.008561	-.022853
34	-.016187	.053376	.142368	.004449	.002992	-.030065
35	-.003088	.055591	.130948	.007929	-.006373	-.039341
36	.005507	.052744	.112658	.017901	-.011267	-.036640
37	.014007	.046306	.091187	.027472	-.012420	-.023321
38	.022284	.040737	.074360	.032996	-.015043	-.014053
39	.027234	.029287	.058824	.029795	-.018929	-.009624
40	.025589	.019497	.041862	.028327	-.019280	-.008654
41	.018766	.009430	.027121	.030217	-.022572	-.007811
42	.016767	-.001594	-.000304	.023402	-.025706	-.007358
43	.019976	-.008982	-.015626	.018452	-.027060	-.008832
44	.020198	-.010999	-.025076	.012360	-.027655	-.005946
45	.022375	-.004101	-.033114	.001456	-.030297	-.003902
46	.030236	.002204	-.040406	-.006219	-.031190	-.006164
47	.031501	.011578	-.045471	-.010991	-.037907	-.007830
48	.032504	.022361	-.045356	-.014444	-.051495	-.008723
49	.040536	.026163	-.045670	-.020105	-.061718	-.013002
50	.053207	.021456	-.044275	-.022888	-.066332	-.013005
51	.061557	.007924	-.046916	-.024799	-.063248	.003997
52	.063202	-.005304	-.054671	-.027549	-.055446	.024450
53	.062078	-.007477	-.059206	-.028507	-.047129	.036966
54	.059936	-.010596	-.059196	-.029952	-.041227	.041799
55	.058881	-.021638	-.053863	-.039111	-.043403	.038984
56	.058889	-.029034	-.045497	-.043193	-.045718	.031799
57	.053347	-.025257	-.039828	-.043825	-.043431	.028239
58	.047754	-.020366	-.033689	-.041462	-.035756	.026479
59	.040781	-.011447	-.023310	-.038854	-.030376	.021320
60	.032768	-.001990	-.014283	-.032707	-.025273	.012899

RUN NO. 67F 40M 05-10-62 1004-1120 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.22290 10E 01	0.16136 10E 01	0.38584 10E 00	0.17553 10E 01	0.41974 10E 00	0.30385 10E 00
1	.021560	-.033626	-.047227	.025584	-.005812	.040024
2	.033056	-.049416	-.071365	.038109	-.007794	.053200
3	.029534	-.049189	-.080936	.041309	-.014074	.051392
4	.026595	-.046300	-.084935	.041542	-.020556	.049552
5	.032599	-.045744	-.086168	.042182	-.022726	.053016
6	.036100	-.040649	-.086433	.040301	-.027703	.062009
7	.032693	-.033923	-.086354	.035105	-.034993	.062710
8	.024031	-.027398	-.084959	.036421	-.041209	.055346
9	.017740	-.027709	-.079631	.040635	-.042948	.051608
10	.015443	-.024543	-.072847	.036880	-.043394	.049721
11	.010920	-.022770	-.068916	.032926	-.045462	.045242
12	.002806	-.019748	-.065717	.028777	-.049678	.043943
13	-.007219	-.008090	-.061227	.025784	-.053487	.046839
14	-.012705	-.002414	-.058156	.015374	-.053763	.044744
15	-.015698	.000702	-.050328	.000665	-.047748	.041986
16	-.018517	.006301	-.039105	-.001076	-.041080	.041058
17	-.019999	.013269	-.028052	.006367	-.038065	.040850
18	-.022430	.017168	-.018966	.012385	-.036337	.042317
19	-.019245	.015807	-.012930	.011193	-.031213	.034715
20	-.014437	.007900	-.009207	.014378	-.026067	.020197
21	-.012424	-.001550	-.012481	.016612	-.018810	.012261
22	-.010902	-.012045	-.021319	.022416	-.018849	.005013
23	-.007435	-.025150	-.028116	.021107	-.003275	-.002457
24	-.000100	-.023758	-.027453	.007023	.000331	-.010584
25	.009532	-.019159	-.020174	.002275	.008991	-.023706
26	.013943	-.012345	-.006357	.001851	.018523	-.034492
27	.017436	-.008970	.010391	-.002873	.024844	-.039666
28	.027236	-.001294	.024967	-.009303	.032625	-.044531
29	.041401	.005662	.034442	-.006780	.042713	-.048191
30	.054784	.007432	.038934	-.004799	.052094	-.051122
31	.064118	.001245	.039060	.003416	.060750	-.049585
32	.069714	-.009378	.036686	.015517	.065778	-.041995
33	.069060	-.018595	.031647	.026747	.069094	-.030798
34	.066500	-.023913	.025678	.027749	.071396	-.023639
35	.064857	-.019825	.021269	.023518	.072914	-.016951
36	.062784	-.017476	.019745	.012422	.073082	-.011396
37	.056522	-.016885	.019860	.005877	.070205	-.004569
38	.041316	-.010035	.019975	-.004106	.061471	.000542
39	.028566	.003733	.019230	-.017547	.049109	-.001254
40	.023107	.014142	.020592	-.025174	.036376	-.005237
41	.017437	.018205	.020934	-.028460	.026614	-.008212
42	.009910	.018344	.014534	-.029566	.020238	-.001499
43	.008099	.017295	.000221	-.026496	.017721	.011434
44	.001369	.015617	-.013048	-.021554	.016815	.017760
45	-.011062	.014845	-.011903	-.019480	.013834	.021428
46	-.026668	.012823	-.018727	-.030708	.006867	.023856
47	-.044513	.009526	-.017341	-.040085	-.003044	.020404
48	-.054458	.007667	-.013495	-.045214	-.012193	.015194
49	-.062452	.005989	-.011972	-.048036	-.022619	.012717
50	-.067989	-.002456	-.013846	-.045453	-.031973	.008633
51	-.070302	-.009085	-.011180	-.034617	-.042427	.005055
52	-.076126	-.009512	-.005169	-.026270	-.050239	.003625
53	-.085408	-.006824	-.000872	-.026007	-.055140	.003273
54	-.090498	-.006812	-.000179	-.027573	-.059752	.005195
55	-.090753	.001826	.002715	-.023125	-.061816	.004385
56	-.087217	.013976	.005508	-.023614	-.064324	.005417
57	-.075727	.015783	.007026	-.021654	-.069068	.003027
58	-.064333	.012867	.009609	-.011824	-.069877	-.003492
59	-.060061	.015712	.012121	-.002359	-.065170	-.009975
60	-.058804	.016319	.014155	.000512	-.058824	-.013540



RUN NO. 67F 40M 05-10-62 1004-1120 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.20490 10E 01	0.24248 10E 01	0.12707 10E 01	0.72657 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.848469	.823855	.700417	.804716
2	.659792	.618129	.394738	.711300
3	.512478	.458665	.229739	.569708
4	.398957	.344180	.136311	.461154
5	.306509	.254264	.072938	.373132
6	.226707	.175320	.031788	.299918
7	.159302	.120139	-.007134	.229650
8	.097312	.083695	-.037332	.168322
9	.046246	.050667	.056904	.112789
10	-.000120	.021395	-.078999	.063185
11	-.038263	-.007620	-.087344	.016416
12	-.067452	-.045709	-.083761	-.029531
13	-.088777	-.085400	-.084406	-.072486
14	-.105133	-.115602	-.080818	-.114016
15	-.121304	-.145292	-.074066	-.152920
16	-.141206	-.169817	-.081298	-.187518
17	-.164866	-.182540	-.094660	-.220465
18	-.174685	-.185247	-.105439	-.249646
19	-.179006	-.195096	-.123622	-.271443
20	-.178739	-.191922	-.126129	-.281258
21	-.183720	-.191650	-.127852	-.285139
22	-.192217	-.194274	-.129191	-.295617
23	-.203923	-.194847	-.122962	-.310589
24	-.214861	-.196886	-.111897	-.320684
25	-.225019	-.201638	-.114126	-.319447
26	-.230497	-.202275	-.118444	-.306864
27	-.231557	-.193579	-.125531	-.288628
28	-.226615	-.176182	-.125277	-.266958
29	-.221751	-.159918	-.103880	-.241609
30	-.205933	-.142360	-.062122	-.213631
31	-.175907	-.119801	-.022258	-.184621
32	-.155250	-.094312	-.009942	-.159836
33	-.146196	-.077034	-.007578	-.142601
34	-.135753	-.066702	-.016802	-.131588
35	-.124242	-.056686	-.028218	-.120009
36	-.113644	-.051689	-.028513	-.106632
37	-.095683	-.049878	-.013832	-.090626
38	-.074724	-.031600	-.002631	-.072227
39	-.059875	-.021131	-.009436	-.050146
40	-.050312	-.015732	-.022698	-.027380
41	-.035321	-.005630	-.039119	-.004108
42	-.014794	.009997	-.045430	.012891
43	-.001415	.029152	-.057271	.022796
44	-.003069	.039861	-.042299	.027978
45	-.003931	.044117	-.024564	.029884
46	.002588	.032204	-.008769	.031221
47	.006637	.020990	-.000721	.034484
48	.014840	.017115	-.000692	.035269
49	.020467	.011828	.004536	.032092
50	.027332	.001316	.007139	.029421
51	.035721	-.007777	.026334	.037316
52	.040204	-.009651	.047015	.055213
53	.033133	-.005509	.058979	.070488
54	.025443	.006667	.059438	.072817
55	.028172	.011753	.051917	.060799
56	.037251	.005069	.046859	.047065
57	.041135	.000827	.044248	.041889
58	.038379	.003335	.047498	.039565
59	.033306	.007196	.036992	.032733
60	.026771	.002515	.022871	.029954

RUN NO. 67F 40M 05-10-62 1004-1120 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-01
0	-.066742	-.092810	-.040472	.008099	.252619	.010565
1	-.109027	-.847566	-.426545	-.079157	.934745	.120044
2	.195420	-.894290	-.486052	-.103363	.230086	.148909
3	.223774	-.728204	-.383351	-.046424	-.109019	.153361
4	-.000493	-.439899	-.181896	-.056214	-.143101	.118858
5	-.071394	-.411571	-.130359	-.064564	-.246529	.094787
6	-.076661	-.461047	-.110257	-.041166	-.196094	.088059
7-8	-.073062	-.352735	-.072598	-.125928	-.130870	.075082
9-11	.031192	-.140813	-.040571	-.061833	-.054563	.036903
12-15	.012341	-.102669	-.013966	-.018986	-.060446	.022213
16-20	-.006216	-.058429	-.009215	-.000518	.006106	.017149
21-27	-.000743	-.032880	-.003861	-.018877	-.009997	.008925
28-36	.003387	-.010374	-.000980	-.013094	-.007738	.004913
37-47	-.003201	-.010156	-.000731	-.008210	-.001117	.002989
48-60	-.000387	-.005626	-.000239	-.004152	-.002867	.001426

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	.303729	-.143640	-.080277	.215818	-.072514	.311788
2	-.016641	-.115874	-.106558	.226451	-.867455	.587871
3	-.091098	-.105500	-.116886	.161041	-.974852	.796758
4	.303905	-.155934	-.069718	.168434	-.081337	.419533
5	.320887	-.188933	-.044763	.149867	.160840	.041794
6	.100467	-.142635	-.047075	.081497	-.015479	.090620
7-8	.064854	-.082605	-.023106	.092553	.044745	.214075
9-11	.018023	-.042791	-.016567	.001093	-.001132	.078553
12-15	.024277	-.037683	-.006359	.048544	.001537	.039980
16-20	.017641	-.018375	-.007449	.007890	-.006050	.052014
21-27	.027436	-.016579	-.002972	.005928	.008749	.049497
28-36	-.000983	-.004372	-.001729	.007245	-.007451	.008246
37-47	-.003906	.000776	-.000524	.002235	-.007391	.008973
48-60	.000309	-.000683	-.000050	.000236	.000662	-.000226

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-01
0	.032340	.039512	.006623	.011016
1	.309404	.317203	.084707	.120813
2	.349736	.366765	.110988	.147307
3	.309943	.361084	.121274	.134242
4	.191908	.231411	.096525	.072692
5	.143203	.150924	.072356	.039592
6	.125362	.125090	.069975	.031411
7-8	.085523	.098254	.067953	.026829
9-11	.052496	.077821	.045300	.017435
12-15	.031764	.045809	.033157	.010493
16-20	.022467	.026870	.026124	.006896
21-27	.013697	.020112	.017740	.004101
28-36	.008158	.012693	.012116	.002090
37-47	.005245	.007206	.007611	.001162
48-60	.003531	.004620	.004906	.000594

RUN NO. 67F 40M 05-10-62 1004-1120 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
	0.26708 10E 01	0.11971 10E 01	0.46280 10E 00	0.12910 10E 01	0.49911 10E 00	0.22371 10E 00
0	-.115789	-.423703	-.606439	-.021333	.207728	.377883
1	-.099010	-.213488	-.370010	.020849	.202007	.134309
2	-.086178	-.110612	-.144899	.014352	.132111	.050999
3	-.029740	.041504	.003424	-.000198	.044287	.007897
4	.019351	.046568	.023785	.016485	-.040289	-.025759
5	.060639	.082605	.023143	-.020498	-.109555	-.036235
6	.053904	.071482	.055208	-.027621	-.096539	-.018602
7	.003880	.008934	.023064	.021939	-.058260	-.020820
8	.006255	-.023692	.028810	.080608	-.017881	-.011068
9	.006411	-.043479	.023155	.034497	.010651	-.015483
10	.000417	.033924	.047848	-.043292	-.027720	-.069285
11	.015247	.053693	.090846	-.046817	-.070499	-.047589
12	.036144	.048612	.091065	-.037896	-.069770	-.024913
13	-.019233	.013764	.041967	.000817	-.058213	.017749
14	-.036531	.016340	.024377	.032656	-.012735	.029877
15	-.034557	-.019992	.015416	-.004360	.026903	.049916
16	-.077082	.015560	.065032	.016175	.083163	.030783
17	-.061325	.029496	.091256	.031635	.089744	.051994
18	-.012106	.049851	.097471	-.000497	.069837	-.026086
19	.060153	.092606	.072860	-.057993	.023566	-.053862
20	.117097	.051756	.040228	-.027568	-.004477	-.011032
21	.096838	.080594	.062207	-.027094	-.037410	-.066806
22	.123529	.058408	.059291	-.040069	-.104406	-.044601
23	.113641	.017980	.063715	-.047572	-.126001	-.037069
24	.075695	-.065257	.023227	-.005584	-.105973	.015242
25	.060144	-.070674	-.017329	.018872	-.089535	.046025
26	.054443	-.007422	-.034686	-.002852	-.077097	-.014359
27	.038669	.036620	-.053226	-.009823	-.060060	-.049984
28	.002131	.010317	-.042487	-.021296	-.014050	-.044606
29	-.001529	-.006706	.022017	-.006046	-.026513	-.054093
30	-.014522	-.003092	.033024	.030321	-.043444	-.042471

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	-.083699	-.062632	-.044770	.005603	.014897	.148612
1	-.601537	-.464720	-.338616	.085650	.113724	.650264
2	-.263700	-.416151	-.316139	.037000	.116881	.505321
3	-.380972	-.363712	-.272341	-.007374	.211330	.671555
4	-.830945	-.433989	-.249193	.002286	.228010	.813961
5	-.433135	-.469942	-.230668	-.058065	.114965	.534048
6	-.227866	-.418898	-.196021	-.036469	.145815	.297085
7	-.536638	-.519909	-.202742	.126730	.190218	.527681
8	-.352513	-.479973	-.208491	.149789	.095048	.628147
9-11	.087612	-.146094	-.117723	-.093896	-.025003	.321079
12-14	.090605	-.144702	-.101066	-.000320	-.004474	.251073
15-21	.010692	-.068640	-.033354	-.024755	.000649	.261942
22-30	-.047215	-.129561	-.037053	-.033323	-.010092	.258604

RUN NO. 67F 40M 05-10-62 1004-1120 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
	0.26708 10E 01	0.11971 10E 01	0.46280 10E 00	0.12910 10E 01	0.49911 10E 00	0.22371 10E 00
1	.000500	-.026420	-.099175	.040533	-.040623	.092795
2	-.036462	-.006816	-.113259	.009700	-.053297	.069837
3	-.001052	-.033971	-.126596	.005617	-.024911	.008007
4	-.037380	.013128	-.132902	-.033696	-.036707	.037684
5	-.096565	-.029901	-.141499	-.042529	-.075099	.018583
6	-.072890	.000886	-.107744	-.004828	-.085355	-.018478
7	-.024264	.010243	-.117520	.039314	-.068046	.006967
8	.037809	-.011913	-.105085	.001872	.000273	-.015621
9	.028313	.002009	-.087622	-.034554	.033751	.011081
10	.014852	.063745	-.074802	-.000909	.012834	.055956
11	.005693	.071227	-.087626	-.001692	.001497	.052711
12	.006431	.067875	-.040396	-.024053	-.001915	.090923
13	-.011127	.032854	.017232	-.035937	.013001	.070007
14	.042003	-.018333	.046924	.023889	.082862	-.019580
15	.082784	-.020465	.073056	.052293	.110673	-.054394
16	.072640	-.034578	.107988	.077175	.102530	-.023421
17	.046158	.015713	.104554	.075343	.067919	-.007034
18	.026090	-.027325	.010274	-.002021	.027296	.018824
19	-.025389	.023879	-.022952	-.061534	-.035898	.032681
20	-.090864	.046164	-.011182	-.116112	-.079316	.059456
21	-.103116	.017449	.017604	-.094918	-.070892	.058149
22	-.089289	-.014730	.066705	-.139944	-.057897	.024280
23	-.050254	-.026582	.132617	-.062090	-.070417	-.034271
24	.036288	-.026423	.141067	.043202	-.044173	-.070126
25	.092576	.000526	.089101	.072475	.014572	-.061625
26	.104951	.020714	.042504	.091973	.016996	-.048113
27	.061137	-.029746	-.003773	.062947	.006113	-.061782
28	.031124	-.014841	-.043694	-.011564	-.034314	.005193
29	-.018744	.007090	-.063307	-.035957	-.053165	.090176
30	.002319	.018963	-.080136	.012365	-.008117	.062126

QUADRATURE SPECTRUM

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
1	.028449	.132550	-.190755	-.048992	.004747	.462010
2	-.172800	.051896	-.267719	.002770	-.060675	.259221
3	-.577041	-.066293	-.240209	-.092700	-.158638	.093968
4	-.454431	-.154252	-.111192	-.021135	-.091043	.032628
5	.016423	-.123637	-.017343	.134365	.013929	.055203
6	-.177320	.034125	-.046075	-.092546	-.028198	.421473
7	-.021611	.102668	-.097525	-.083873	-.022782	.532263
8	.466614	-.038403	-.019176	.169448	.056099	.102629
9-11	.116990	-.056539	-.015139	.098224	-.015989	.107853
12-14	-.194889	.003321	-.017973	.058134	-.036075	.142506
15-21	.043700	.003412	-.013634	.012562	-.001626	.170605
22-30	.073434	-.068275	-.008950	.029004	.005591	-.061210

RUN NO. 67F 40M 05-10-62 1004-1120 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.24765 10E 01	0.28803 10E 01	0.57867 10E 00	0.86488 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.587406	.574588	.223215	.565471
2	.317988	.287939	-.010939	.172683
3	.114442	.102294	-.098837	.017000
4	.055836	-.074548	-.134953	-.038385
5	-.002583	-.153619	-.103389	-.075960
6	-.036269	-.217714	-.023938	-.076985
7	-.019798	-.244603	-.041847	-.046965
8	-.050558	-.237926	-.030789	-.088874
9	-.082041	-.164503	.028005	-.114028
10	-.144774	-.161460	-.081114	-.093913
11	-.165228	-.220828	-.018949	-.113215
12	-.193615	-.231640	-.014757	-.149074
13	-.142747	-.145740	-.039284	-.128606
14	-.115414	-.050376	-.072775	-.102091
15	-.101193	.039350	.030023	-.089620
16	-.166505	.161518	.105978	-.072032
17	-.207911	.195377	.068621	-.000667
18	-.208970	.219348	-.066368	-.026485
19	-.187360	.227211	-.086289	-.032636
20	-.150580	.165128	.029967	-.005391
21	-.162510	.100011	-.059611	-.043242
22	-.134045	.013979	-.065948	-.087515
23	-.102856	-.001181	-.092309	-.105675
24	-.015347	-.038648	-.038836	-.038626
25	.020169	-.105382	.068116	.032789
26	.061561	-.155013	.001302	.036310
27	.083319	-.161191	-.041844	.091667
28	.058290	-.180078	-.023151	.121825
29	.023604	-.147435	-.024501	.008834
30	.060206	-.135785	-.076715	-.071672

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-02
0	.038601	.030016	.037339	.103398
1	.379037	.140935	.219958	.822734
2	.363583	.258349	.207588	.900180
3	.270320	.484062	.276375	.928947
4	.204784	.402711	.340529	.756883
5	.176228	.210295	.310123	.594588
6	.135575	.214865	.325185	.614865
7	.144718	.222323	.409512	.635379
8	.150792	.141505	.380041	.513981
9-11	.084001	.069520	.291542	.406843
12-14	.064582	.080031	.208042	.268123
15-21	.039094	.049811	.217417	.183461
22-30	.043088	.048970	.218343	.105026

RUN NO. 67F 16M 05-10-62 1004-1120 EST  
 RUN NO. 67F 40M 05-10-62 1004-1120 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	.858400	.778136	.807901	.839182
1	.785920	.769997	.745821	.798885
2	.662425	.695732	.694731	.719858
3	.534372	.677890	.677703	.636124
4	.474149	.666229	.654243	.587504
5	.419478	.585534	.567196	.606423
6	.286554	.579923	.563104	.607005
7-8	.190247	.592380	.525396	.544405
9-11	.129696	.421353	.417132	.371285
12-15	.106268	.270785	.300224	.298608
16-20	.087396	.200158	.370839	.197325
21-27	.088245	.113518	.272579	.096540
28-36	.081068	.164365	.194115	.134778
37-47	.092457	.091595	.107567	.068282
48-60	.068276	.076198	.138703	.118118

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	.937243	.991409	.946077	.919072
1	.925475	.914948	.750863	.840815
2	.910276	.892800	.768665	.830023
3	.818873	.920434	.766361	.826918
4	.748083	.926807	.767184	.791992
5	.779037	.892882	.779665	.780378
6	.821340	.886400	.777617	.827060
7	.973784	.848417	.758055	.851337
8	.890807	.753932	.772140	.880073
9-11	.666073	.599646	.726457	.757004
12-14	.550189	.687855	.668596	.628638
15-21	.414055	.665864	.730707	.531497
22-30	.300830	.351976	.461705	.509970

RUN NO. 676 16M 05-10-62 1143-1259 EST

GROSS STATISTICS

CLEAR WIND SPEED 9.62 M/SEC WIND DIRECTION 297 DEG  
 UNSTABLE SIGMA A 14.5 DEG SOLAR RADIATION 1.46  
 LAND SIGMA E 5.7 DEG NET RADIATION 0.98

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.42675E 01	0.33272E 01	0.22852E 01	0.22005E 01
V	0.63866E 01	0.40337E 01	0.19581E 01	0.30436E 01
W	0.83382E 00	0.82383E 00	0.73636E 00	0.30406E-00
T	0.24896E-00	0.15437E-00	0.95045E-01	0.10663E-00
E	0.57440E 01	0.40933E 01	0.24948E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>GUSTINESS RATIOS</b>				
U	0.21474	0.18961	0.15748	0.15420
V	0.26270	0.20877	0.14546	0.18135
W	0.09492	0.09435	0.08920	0.05732

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>COVARIANCES</b>				
U,V	-0.23853E-00	-0.18378E-00	-0.10441E-00	-0.13186E-00
U,W	-0.73558E 00	-0.67742E 00	-0.58796E 00	-0.37161E-00
U,T	-0.30954E-00	-0.36847E-00	-0.23508E-00	-0.27126E-00
V,W	0.62465E-01	0.63266E-01	-0.60903E-02	0.78835E-01
V,T	0.13344E-00	0.10163E-01	-0.22903E-01	0.18613E-01
W,T	0.16587E-00	0.15580E-00	0.11936E-00	0.94500E-01
WE	0.43717E-01	0.21886E-00	0.12544E-00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>NORMALIZED COVARIANCES</b>				
U,V	-0.04569	-0.05016	-0.04925	-0.05095
U,W	-0.38995	-0.40916	-0.45226	-0.45430
U,T	-0.30030	-0.51413	-0.50331	-0.56001
V,W	0.02707	0.03471	-0.00507	0.04037
V,T	0.10583	0.01288	-0.09309	0.03267
W,T	0.36406	0.43688	0.45120	0.52483

RUN NO. 67G 16M 05-10-62 1143-1259 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21202 10E 01	0.12999 10E 01	0.46709 10E 00	0.12008 10E 01	0.43144 10E 00	0.26453 10E 00
0	-.049170	-.452374	-.503310	-.005237	-.052940	.451210
1	-.052548	-.382799	-.458108	-.003975	-.041717	.356421
2	-.043165	-.291217	-.386048	.007952	-.027891	.256953
3	-.018737	-.220661	-.318510	.004048	-.023397	.193847
4	-.001006	-.175147	-.257870	-.012988	-.027450	.151930
5	.001982	-.133462	-.204308	-.022829	-.028126	.117332
6	.003765	-.095308	-.156188	-.019138	-.014022	.086329
7	.004787	-.058356	-.111243	-.015566	-.000401	.058612
8	.001841	-.029306	-.069185	-.010063	.011404	.029560
9	-.003680	-.001920	-.025002	-.003323	.022051	.003689
10	-.004745	.029187	.012934	-.001462	.025365	-.020794
11	-.003053	.053118	.036753	-.001725	.018239	-.034764
12	-.003829	.060705	.053223	-.000366	.008105	-.038194
13	-.000702	.058754	.071938	.004742	-.000156	-.039464
14	.001761	.061618	.087330	.016772	-.007175	-.047251
15	.000080	.065855	.097753	.028079	-.009617	-.059272
16	-.002030	.079809	.110865	.028189	-.002000	-.078796
17	.004046	.085754	.120126	.027130	.003071	-.088888
18	.013733	.085170	.125653	.020560	-.002632	-.084517
19	.016628	.087590	.126167	.013100	-.006314	-.077238
20	.017193	.095468	.128732	.018739	-.002497	-.079620
21	.019643	.107018	.136814	.015090	.006686	-.085429
22	.024502	.106863	.139902	.006684	.008435	-.086846
23	.030021	.109952	.142770	.002832	.010639	-.094289
24	.035453	.118383	.147163	.002837	.013337	-.095657
25	.036460	.129401	.152804	.008520	.014666	-.097027
26	.035451	.136897	.150584	.011391	.017927	-.099192
27	.029697	.139333	.142987	.004163	.019001	-.108365
28	.026287	.137246	.135277	.003115	.020587	-.112145
29	.023184	.129359	.126287	-.001643	.014042	-.113279
30	.018838	.100588	.110862	-.003260	.001147	-.103046
31	.013462	.073695	.093606	.002775	-.009357	-.084195
32	.002746	.057086	.079731	.008761	-.010151	-.073503
33	-.008862	.049627	.069495	.001346	-.007440	-.068235
34	-.015186	.038179	.056893	-.004383	-.006884	-.053865
35	-.016157	.030225	.046523	-.007796	-.010722	-.045752
36	-.009386	.024179	.036524	-.010267	-.017718	-.034931
37	-.010588	.012391	.028261	-.008788	-.016639	-.021256
38	-.013750	-.000277	.020910	-.007565	-.007837	-.008285
39	-.005486	-.012626	.012607	-.008847	-.001487	.009089
40	.005233	-.017017	.004161	-.009550	.000869	.013698
41	.014783	-.023795	-.004445	-.009714	-.002928	.019211
42	.015313	-.029969	-.007349	-.021289	-.009380	.025958
43	.009638	-.033265	-.008792	-.038065	-.014762	.034650
44	.003661	-.030595	-.008557	-.049126	-.012285	.035638
45	-.004720	-.022534	-.004542	-.040006	.000869	.026135
46	-.017493	-.022118	-.001530	-.024915	.013422	.024664
47	-.029080	-.027815	-.004134	-.006147	.023855	.025137
48	-.034870	-.030599	-.008675	.004877	.028402	.021324
49	-.036029	-.024130	-.018187	.020217	.029353	.018720
50	-.042199	-.028763	-.029529	.030366	.024146	.022749
51	-.044569	-.045620	-.042021	.032055	.016675	.031857
52	-.039135	-.054974	-.048742	.033833	.012476	.035585
53	-.039841	-.052860	-.046504	.043684	.013577	.030901
54	-.037514	-.045977	-.044397	.047329	.013858	.026441
55	-.032205	-.041089	-.046144	.041803	.012707	.017014
56	-.024488	-.034200	-.046180	.036116	.007804	.012504
57	-.012237	-.036777	-.045752	.030222	-.002022	.012331
58	.000480	-.040993	-.044476	.013786	-.010721	.021907
59	.011309	-.027679	-.035628	.005147	-.014267	.024970
60	.021315	-.020006	-.025036	-.006022	-.024456	.023986



RUN NO. 67G 16M 05-10-62 1143-1259 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,J	U,W	U,T	V,W	V,T	W,T
	0.21202 10E 01	0.12999 10E 01	0.46709 10E 00	0.12008 10E 01	0.43144 10E 00	0.26453 10E 00
1	.003732	-.053232	-.053993	-.009517	-.003770	.045438
2	.006623	-.081465	-.084698	-.015815	-.003738	.048098
3	.004425	-.094038	-.109864	-.010876	-.001991	.041112
4	.000257	-.098050	-.126205	-.008920	.000645	.029620
5	.003383	-.093933	-.134257	-.008897	.006041	.015860
6	.002995	-.076837	-.124765	-.017930	.007332	.009257
7	.002870	-.057507	-.119529	-.018003	.015613	.013520
8	-.002118	-.046522	-.117481	-.022109	.019370	.017469
9	-.009564	-.044957	-.113395	-.026218	.021025	.018573
10	-.014327	-.039007	-.105866	-.024958	.020576	.012462
11	-.012500	-.032983	-.095066	-.029611	.013119	.001105
12	-.016872	-.022237	-.082056	-.032176	.003214	-.005888
13	-.025253	-.015457	-.071298	-.034201	-.009848	-.015369
14	-.036852	-.015092	-.057831	-.041272	-.019709	-.027634
15	-.036514	-.007087	-.046279	-.037657	-.019729	-.029904
16	-.034013	-.002969	-.043594	-.035954	-.023206	-.025915
17	-.031631	-.002079	-.041197	-.030268	-.022566	-.014817
18	-.026051	-.003195	-.035401	-.028732	-.026589	-.000597
19	-.022390	-.007235	-.028726	-.027223	-.034115	.006135
20	-.017832	-.002143	-.018587	-.022414	-.039294	.014580
21	-.013211	.005403	-.005679	-.018957	-.041488	.019981
22	-.005002	.005999	.004901	-.016424	-.041999	.030360
23	-.003609	.011169	.009646	-.014498	-.046684	.033850
24	-.007669	.015154	.011228	-.013555	-.056009	.034081
25	-.016601	.016152	.017718	-.017163	-.063645	.035879
26	-.019464	.013847	.025549	-.023646	-.063843	.027470
27	-.020877	.010493	.033211	-.026257	-.056545	.012780
28	-.024448	.010312	.040270	-.024456	-.050586	-.002357
29	-.028348	.011838	.046795	-.028751	-.051446	-.008824
30	-.028127	.016017	.053253	-.030646	-.059801	-.016588
31	-.029731	.012497	.053485	-.024260	-.062869	-.020370
32	-.023325	.010580	.053395	-.024568	-.053399	-.021379
33	-.018320	.017806	.051675	-.019300	-.034427	-.021102
34	-.016280	.023138	.046818	-.016144	-.015110	-.018980
35	-.014470	.031698	.041742	-.016182	.001169	-.009595
36	-.015331	.029066	.040330	-.021491	.010542	-.009404
37	-.012676	.029173	.038069	-.024981	.016365	-.008307
38	-.009649	.022464	.030854	-.020638	.019225	-.005433
39	-.008706	.015892	.026079	-.025361	.017799	-.002388
40	-.007917	.010865	.022820	-.021367	.019711	-.000603
41	-.006868	.001345	.018002	-.011889	.025256	-.003905
42	-.006082	-.007810	.012591	-.000504	.036038	-.008511
43	-.003773	-.010394	.004552	.010086	.043434	-.013620
44	-.001434	-.007519	-.005431	.007470	.047461	-.017502
45	.005765	-.009566	-.017575	.008259	.043523	-.016382
46	.017612	-.009744	-.023730	.008176	.034552	-.011592
47	.022508	-.013800	-.026990	.012873	.029153	-.004126
48	.029533	-.017728	-.029244	.020609	.031416	.003361
49	.033540	-.015110	-.030484	.025414	.032431	.005427
50	.037305	-.006546	-.028005	.030476	.031510	.002913
51	.039897	.006650	-.029536	.027350	.026310	.006463
52	.044709	.017493	-.036142	.029998	.025068	.019957
53	.044195	.013437	-.042703	.028317	.019723	.031323
54	.043535	.012409	-.046814	.035095	.021773	.034216
55	.041740	.012225	-.041979	.050055	.023271	.030584
56	.034134	.005881	-.029702	.057239	.020883	.023507
57	.033089	-.005296	-.019273	.052552	.017087	.006159
58	.033909	-.014772	-.010189	.053128	.017156	-.012181
59	.026708	-.016894	-.008680	.044329	.014328	-.029234
60	.017479	-.014644	-.009694	.027760	.006909	-.040988

RUN NO. 676 16M 05-10-62 1143-1259 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.22953 10E 01	0.19584 10E 01	0.73623 10E 00	0.95050 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.846603	.787080	.616154	.820924
2	.664365	.552590	.316781	.609793
3	.527877	.395866	.169784	.459392
4	.413937	.292120	.095178	.343377
5	.310632	.221307	.048791	.259838
6	.214893	.169999	.016507	.195592
7	.134569	.117687	.007442	.139578
8	.066562	.068935	-.003602	.082175
9	.009898	.034458	-.017419	.026361
10	-.031624	.004528	-.048104	-.010550
11	-.064919	-.025297	-.088193	-.046795
12	-.094957	-.049213	-.097873	-.070685
13	-.115890	-.065875	-.071032	-.09027
14	-.132319	-.083212	-.054330	-.114025
15	-.146813	-.103766	-.079047	-.126686
16	-.165756	-.115704	-.102642	-.142973
17	-.177635	-.124184	-.100786	-.155227
18	-.190313	-.142814	-.102522	-.160885
19	-.203963	-.160090	-.106176	-.166789
20	-.215076	-.169517	-.112170	-.178834
21	-.226571	-.166229	-.109937	-.188892
22	-.230655	-.173235	-.097874	-.201765
23	-.239042	-.179186	-.095689	-.208920
24	-.254289	-.180203	-.092052	-.217932
25	-.266596	-.173743	-.107828	-.228624
26	-.269882	-.176803	-.125706	-.229272
27	-.267058	-.179472	-.136499	-.223348
28	-.265011	-.164168	-.142273	-.203881
29	-.255473	-.138169	-.132096	-.183026
30	-.228268	-.100438	-.094742	-.159847
31	-.190032	-.056337	-.047977	-.131645
32	-.148733	-.036160	-.024310	-.111838
33	-.111255	-.027501	-.028387	-.089123
34	-.076191	-.008388	-.032559	-.065907
35	-.049035	.011036	-.040318	-.050303
36	-.032059	.022962	-.029159	-.035559
37	-.012280	.026639	-.012352	-.031746
38	-.003493	.020972	.002502	-.020989
39	-.002074	.015158	.019211	-.001387
40	.008536	.004229	.015044	.008166
41	.019578	-.004367	.009033	.007196
42	.020064	-.020572	.016309	-.000084
43	.023400	-.029389	.041364	-.006367
44	.032024	-.030634	.050002	-.014961
45	.037372	-.019665	.041434	-.025511
46	.041858	-.017238	.039145	-.020740
47	.050043	-.021340	.032668	-.024375
48	.054951	-.021316	.037011	-.028781
49	.052779	-.023244	.029066	-.016236
50	.055981	-.033953	.013819	-.005498
51	.071026	-.037583	.023517	-.000492
52	.076571	-.044913	.027895	.004228
53	.075917	-.062232	.020279	.002853
54	.076810	-.069047	.017456	.003371
55	.078978	-.070705	.018425	.011870
56	.078386	-.075400	.021227	.019597
57	.075048	-.069557	.023662	.026668
58	.070858	-.051212	.030504	.033896
59	.055713	-.041547	.022850	.035328
60	.033264	-.039043	.003959	.030865

RUN NO. 676 16M 05-10-62 1143-1259 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-01	10E-02	10E-02	10E-01
0	.013236	-.034117	-.030819	.100217	-.057893	.009353
1	-.063455	-.673899	-.369203	.233800	-.265377	.135983
2	-.207212	-.991780	-.472164	-.357491	-.238572	.184841
3	-.203323	-.984540	-.456411	-.873013	-.310554	.175725
4	-.048325	-.559741	-.277596	-.382588	-.206756	.100945
5	.021069	-.393758	-.174823	-.008346	-.128793	.078500
6	-.047940	-.418186	-.146446	.236113	-.300189	.076493
7-8	-.129624	-.279002	-.091918	.509690	-.253774	.046142
9-11	-.072521	-.129633	-.041838	.101170	.014881	.032107
12-15	-.047437	-.090413	-.024308	.129551	.074990	.016444
16-20	-.006758	-.076256	-.019160	-.154444	-.079609	.019504
21-27	.002501	-.044422	-.007180	-.135637	-.042658	.010552
28-36	.016146	-.021497	-.005048	-.042370	-.013938	.007289
37-47	.004355	-.012893	-.002798	.038325	-.003015	.004886
48-60	.000975	-.009996	-.001549	.026459	-.005344	.003377

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	-.358924	-.071526	-.086523	-.282394	-.952808	.067361
2	-.174811	-.176155	-.159669	-.153117	-.391661	.098307
3	-.002334	-.265081	-.208849	-.054708	.498328	.038070
4	.007991	-.225110	-.134754	-.044312	.533258	-.010544
5	.053797	-.193720	-.079876	-.008929	.004521	.155269
6	.110200	-.191828	-.070839	.028105	-.040811	.323739
7-8	.060294	-.134809	-.046491	.014239	-.012056	.173627
9-11	-.029376	-.087172	-.019513	-.015666	-.124275	.012593
12-15	.010468	-.053009	-.012352	-.003847	-.001570	.116835
16-20	-.001505	-.009139	-.001448	-.011892	-.013840	.071376
21-27	.013236	-.007270	-.001057	-.005419	-.001651	.025463
28-36	-.002035	-.007922	-.003573	.000691	-.000637	.025887
37-47	-.004626	-.002256	-.000796	-.000580	-.008590	.015221
48-60	.003067	-.000362	-.001263	.004318	.007380	.005493

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.024835	.038814	.026448	.013593
1	.298485	.244972	.401402	.124338
2	.393133	.256868	.590388	.145260
3	.382174	.264457	.642189	.140821
4	.223962	.175440	.450173	.088605
5	.152762	.102629	.370567	.056000
6	.153769	.100824	.377897	.056629
7-8	.105506	.088353	.314897	.042137
9-11	.056749	.057845	.255930	.024762
12-15	.030808	.040881	.207820	.017713
16-20	.021429	.029788	.166026	.012857
21-27	.015879	.019082	.118268	.006968
28-36	.010115	.011529	.087003	.004843
37-47	.006123	.008003	.062174	.003266
48-60	.004091	.005213	.049220	.001862

RUN NO. 67G 16M 05-10-62 1143-1259 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
	0.25879 10E 01	0.81768 10E 00	0.48432 10E 00	0.96153 10E 00	0.56953 10E 00	0.17995 10E 00
0	-.050953	-.454470	-.560086	.040388	.032680	.525155
1	-.046569	-.150416	-.308030	.071183	.056145	.214525
2	-.039209	.053432	-.113028	.055130	.052696	.054738
3	-.032351	.122184	-.029573	.030057	.040766	-.019269
4	-.048031	.024543	.008419	-.008481	.044851	-.008639
5	-.072279	-.024507	-.028537	-.000799	.057620	.041102
6	-.053045	-.024072	-.014173	.007241	.042708	-.000356
7	-.050706	-.025931	-.022158	-.043973	.030553	.028214
8	-.051558	-.061484	-.013992	-.016862	.038451	-.005413
9	-.062365	-.001789	.024458	.051978	.011457	-.056563
10	-.012773	-.032254	.020047	.009052	-.042430	-.019711
11	.004861	-.014922	.083803	.023669	-.057234	-.039029
12	.066240	.056507	.132123	-.059314	-.103101	-.119003
13	.078788	.081088	.152506	-.042402	-.083912	-.146032
14	.072243	.088956	.161441	-.024619	-.042431	-.135399
15	.063593	.062223	.093456	-.033145	-.013572	-.116469
16	.057782	.039390	.068471	.011473	.037406	-.052834
17	.044598	.018031	.040710	-.039215	.026620	-.027712
18	.060372	-.008832	.035682	-.038204	-.007836	-.037489
19	.064971	-.002638	.023262	-.046239	-.017291	.010450
20	.050189	-.010806	.030930	-.035328	-.026265	-.001276
21	.023022	.001025	.004863	.021696	-.006219	-.005904
22	-.022029	.023452	-.009452	.024570	-.004485	-.023671
23	-.021892	.016478	.009598	.034817	.023128	-.017189
24	-.022022	.039748	.056252	.037844	.054048	-.053590
25	-.021704	.021934	.045742	.051297	.048311	.018906
26	-.056476	.003712	.087953	.045039	.057082	.030786
27	-.042669	-.029386	.026966	.010215	.018047	.043297
28	-.020063	-.048189	-.021568	-.028958	-.011560	.041245
29	.007858	-.053826	-.084845	-.046508	-.012927	.071701
30	.012103	-.001105	-.079768	-.030630	-.026541	.015022

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-00	10E-01	10E-01	10E-01	10E-01	10E-01
0	-.016962	-.038620	-.047713	.021184	.032626	.007348
1	-.103080	-.247694	-.370991	.155222	.155756	.092216
2	-.073453	-.208148	-.360668	.160424	.143233	.105684
3	-.002300	-.119053	-.277003	.089377	.094451	.081992
4	.044935	-.026600	-.122844	.039316	-.022242	.032517
5	.022163	-.096464	-.105092	.099019	-.086867	.027954
6	-.002943	-.274918	-.195279	.095054	-.050536	.060221
7	-.018431	-.322335	-.222824	.080798	.052226	.068770
8	-.012040	-.255676	-.176531	.028685	.051461	.049520
9-11	.001223	-.275347	-.123834	-.036498	-.015030	.052305
12-14	-.009914	-.220275	-.083859	.016950	.005184	.034349
15-21	.003252	-.095283	-.048495	-.028754	-.013919	.020795
22-30	-.001070	-.101654	-.046512	-.023171	-.004765	.028076

RUN NO. 67G 16M 05-10-62 1143-1259 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	M,T
	0.25879 10E 01	0.01768 10E 00	0.40432 10E 00	0.96153 10E 00	0.56953 10E 00	0.17995 10E 00
1	-.063992	-.068632	-.113374	-.078655	-.039807	.014657
2	-.118195	-.015811	-.085991	-.106762	-.101502	.014791
3	-.140820	-.010014	-.076823	-.107860	-.099307	-.002613
4	-.127415	-.024956	-.091582	-.066900	-.041830	-.015992
5	-.101020	-.035269	-.117750	.005824	-.027445	.006635
6	-.090128	-.043756	-.111372	.064924	-.016330	-.011447
7	-.093563	-.042401	-.066764	.025694	-.009503	-.013220
8	-.093486	-.030648	-.061984	.009836	-.016570	.027969
9	-.062405	-.003084	-.043026	-.007024	-.001689	.066260
10	-.026294	-.053779	-.038125	-.032294	.012495	.011315
11	-.005653	-.070090	-.043558	-.045114	.005700	-.015868
12	.026812	-.108516	-.049083	-.021893	.002694	-.036546
13	.068319	-.044594	-.035086	.011480	.021993	-.026899
14	.047476	.004120	-.018284	.026965	.015783	-.054747
15	.065958	.049267	.009346	.015793	.006958	-.035229
16	.056052	.044700	.025612	-.005262	.002518	-.024361
17	.032001	.026222	.034235	-.009583	-.017614	-.055891
18	-.007747	.045472	.013513	-.035113	-.043433	-.012147
19	-.046363	.034307	-.036384	-.100106	.068102	-.005333
20	-.071772	.006807	-.072928	-.092425	-.064589	.013371
21	-.070863	.007046	-.036899	-.005760	-.021223	.007094
22	-.063863	-.025118	.011422	-.010076	.005042	-.028212
23	-.052688	-.001525	.037860	-.006928	.042762	-.018580
24	-.055036	.066608	.088657	.008976	.056491	.023655
25	-.016013	.075749	.112789	.020643	.071693	.033682
26	.038251	.042807	.086822	.054373	.087709	.037551
27	.073321	.028756	.069835	.026524	.068129	.043250
28	.122481	.058111	.045562	.065524	.083148	.076309
29	.124035	.036282	.040521	.057578	.041158	.064099
30	.083434	-.021328	-.007003	.049593	.031631	.056866

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	M,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.083430	-.173806	-.213912	-.141604	-.071520	-.152862
2	-.092043	-.182479	-.187944	-.050435	-.057374	.044215
3	-.132690	-.084417	-.153233	-.087280	-.087715	.151315
4	-.092361	.042638	-.107798	-.160104	-.135092	-.022774
5	-.015542	.024899	-.050001	-.131658	-.075694	-.156525
6	-.018070	-.089602	-.058571	-.220390	-.057955	-.077243
7	-.033149	-.071569	-.048040	-.317934	-.089917	.100738
8	-.025432	.036801	.016428	-.206528	-.056192	.153545
9-11	-.011958	-.023619	-.026726	-.035973	-.034391	.037876
12-14	.005568	-.049067	-.044536	.023421	.007308	.010508
15-21	.002009	-.044853	-.024035	-.017916	.021569	.008788
22-30	-.000146	-.012902	-.011164	-.005913	-.001708	.016947

RUN NO. 67G 16M 05-10-62 1143-1259 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.2200/ 10E 01	0.30432 10E 01	0.30380 10E 00	0.10659 10E 00
0	1.000000	1.000000	1.000000	1.000000
1	.534437	.662619	.191426	.578258
2	.181124	.443631	.004997	.291173
3	.000844	.249377	-.100522	.148597
4	-.012019	.091839	-.054400	.028565
5	-.009529	-.073610	.008646	-.002650
6	-.042877	-.193170	-.063360	-.026957
7	-.080873	-.218212	.022242	-.035134
8	-.076917	-.246146	-.016749	-.045149
9	-.132349	-.283566	-.040962	-.078337
10	-.098500	-.272388	-.056655	-.093846
11	-.161840	-.244175	-.092637	-.162509
12	-.175938	-.183396	-.092543	-.212051
13	-.168565	-.146727	-.182032	-.254250
14	-.131987	-.100861	-.125826	-.284412
15	-.053884	-.026963	-.009955	-.242993
16	-.017161	.044764	.003533	-.200589
17	.034376	.048008	-.021544	-.161974
18	.046122	.004351	-.005532	-.120850
19	.029224	.003772	.088733	-.069169
20	-.013910	.002330	-.003784	-.049958
21	-.000522	-.017322	.029450	-.018301
22	.013807	.013551	-.056353	.057699
23	-.027564	-.036558	-.004794	.042384
24	-.110419	-.043929	-.027858	.007981
25	-.119040	-.094114	-.013275	.004366
26	-.144937	-.100192	.042259	-.028809
27	-.064179	-.123733	.038412	.024489
28	-.014931	-.105138	.008352	.041208
29	.039500	-.038737	-.014639	.085387
30	.024745	.015694	-.032340	.150547

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.029989	.043622	.013030	.014481
1	.208593	.354830	.132617	.149136
2	.228239	.446100	.173091	.164490
3	.256991	.564039	.186938	.128909
4	.184703	.457138	.120627	.064871
5	.115090	.254603	.091850	.064710
6	.136444	.155807	.153519	.080329
7	.153271	.132656	.196440	.070536
8	.131049	.108085	.170177	.052178
9-11	.104991	.058690	.145910	.036448
12-14	.079967	.044075	.127388	.025228
15-21	.038928	.044084	.102663	.020287
22-30	.038415	.044666	.139005	.017411

RUN NO. 67G 40M 05-10-62 1143-1259 EST

GROSS STATISTICS

CLEAR	WIND SPEED	10.59 M/SEC	WIND DIRECTION	305 DEG
UNSTABLE	SIGMA A	13.6 DEG	SOLAR RADIATION	1.46
LAND	SIGMA E	7.2 DEG	NET RADIATION	0.98

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>VARIANCES</b>				
U	0.53074E 01	0.37566E 01	0.22120E 01	0.28568E 01
V	0.65172E 01	0.39949E 01	0.19173E 01	0.30393E 01
W	0.14872E 01	0.14451E 01	0.12347E 01	0.68522E 00
T	0.24862E-00	0.13469E-00	0.71371E-01	0.99258E-01
E	0.66559E 01	0.45991E 01	0.26820E 01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>GUSTINESS RATIOS</b>				
U	0.21754	0.18302	0.14044	0.15961
V	0.24106	0.18874	0.13075	0.16462
W	0.11516	0.11352	0.10493	0.07817

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>COVARIANCES</b>				
U,V	-0.13513E-00	-0.24933E-00	-0.10588E-01	-0.29211E-00
U,W	-0.11580E 01	-0.10049E 01	-0.66779E 00	-0.73279E 00
U,T	-0.31353E-00	-0.40199E-00	-0.20594E-00	-0.33420E-00
V,W	-0.82586E-01	-0.17383E-01	-0.41757E-01	-0.17745E-01
V,T	0.21598E-00	0.37806E-01	-0.13713E-01	0.39602E-01
W,T	0.26220E-00	0.22973E-00	0.14997E-00	0.15236E-00
WE	0.29639E-00	0.68617E 00	0.35024E-00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>NORMALIZED COVARIANCES</b>				
U,V	-0.02298	-0.06436	-0.00514	-0.09913
U,W	-0.41219	-0.43121	-0.40408	-0.52375
U,T	-0.27294	-0.56514	-0.51830	-0.62759
V,W	-0.02653	-0.00723	-0.02714	-0.01230
V,T	0.16967	0.05154	-0.03707	0.07210
W,T	0.43120	0.52071	0.50520	0.58423

RUN NO. 676 40M 05-10-62 1143-1259 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20594 10E 01	0.16525 10E 01	0.39742 10E 00	0.15387 10E 01	0.37003 10E 00	0.29692 10E 00
0	-.005017	-.403940	-.518189	-.027281	-.037314	.505340
1	-.009277	-.369281	-.487716	-.013719	-.035848	.428892
2	-.015887	-.307450	-.426735	-.000664	-.031473	.312462
3	-.022557	-.247692	-.363786	-.001340	-.029569	.216488
4	-.023447	-.191252	-.305140	-.009484	-.033664	.140984
5	-.020916	-.135261	-.247150	-.015079	-.039008	.078864
6	-.018347	-.088626	-.194136	-.013022	-.037645	.036925
7	-.018127	-.058354	-.153593	-.006652	-.025291	.019407
8	-.022131	-.036423	-.116798	.001662	-.009246	.013547
9	-.021588	-.019517	-.080966	.004821	.002624	.011316
10	-.018273	-.010035	-.045277	.004360	.008995	.006064
11	-.014290	.000578	-.007774	.005801	.011615	-.002789
12	-.014272	.012004	.020859	.008405	.018907	-.007761
13	-.014666	.024402	.043173	.010654	.027083	-.011183
14	-.009597	.027380	.061267	.008067	.030350	-.012146
15	.000766	.026704	.076311	.005171	.029694	-.018241
16	.008462	.025393	.087527	.003714	.026557	-.025395
17	.015508	.033629	.099805	.001328	.027640	-.028460
18	.021587	.045731	.114549	.001133	.023253	-.036587
19	.027300	.057500	.126667	-.012060	.011865	-.049287
20	.038189	.065928	.136755	-.025244	.001437	-.053893
21	.043917	.074158	.147149	-.028439	-.004341	-.054457
22	.043280	.089157	.160894	-.022263	-.001397	-.063388
23	.045608	.106194	.174164	-.014599	-.001924	-.073613
24	.048366	.117374	.180351	-.007917	-.005130	-.088088
25	.046731	.125842	.185439	-.006169	-.012654	-.106472
26	.041114	.135614	.190583	-.007245	-.014552	-.131086
27	.033362	.141943	.186559	-.006972	-.005701	-.149309
28	.023500	.142848	.179150	.004832	.004135	-.153667
29	.010680	.142319	.168195	.010606	.007321	-.141018
30	.001618	.132127	.148707	.008424	.004467	-.117578
31	-.008106	.115162	.127778	.011953	.003148	-.099804
32	-.019369	.103023	.107569	.016177	.007458	-.090271
33	-.026755	.096109	.096098	.017038	.010941	-.081287
34	-.028039	.080650	.088408	.019532	.012586	-.078536
35	-.024084	.069917	.080849	.020702	.012858	-.074269
36	-.019411	.068354	.073527	.032467	.021171	-.066261
37	-.014493	.063498	.064502	.034883	.025859	-.055515
38	-.005697	.051129	.051252	.027405	.024950	-.043073
39	-.008084	.039775	.035423	.017407	.021646	-.032640
40	-.013796	.035278	.022440	.006726	.018352	-.025979
41	-.022443	.031745	.011971	.003920	.017398	-.020066
42	-.030104	.026933	.005877	.004923	.013367	-.019596
43	-.037840	.027971	.003000	.010614	.011502	-.018216
44	-.041106	.028413	.003557	.011988	.010633	-.014299
45	-.042621	.031173	.005179	.016061	.013127	-.016217
46	-.039147	.032133	.006277	.027129	.019275	-.017495
47	-.031935	.026256	.003799	.027455	.019782	-.015461
48	-.022047	.012980	-.004547	.012402	.013323	-.010413
49	-.011961	-.001893	-.017003	-.002265	.009743	.000052
50	-.004146	-.021670	-.031522	-.010890	.008275	.010778
51	.005050	-.035715	-.042642	-.018429	-.001516	.020168
52	.016347	-.045721	-.050394	-.024396	-.016219	.032761
53	.023807	-.056357	-.050683	-.018359	-.027220	.042900
54	.024960	-.067052	-.046510	-.015056	-.034051	.053921
55	.022467	-.075949	-.040287	-.012829	-.036974	.058893
56	.020775	-.085961	-.035464	-.009185	-.034934	.056160
57	.021012	-.084614	-.030141	-.006607	-.033502	.050248
58	.022847	-.080061	-.021219	-.007302	-.030538	.043237
59	.020846	-.072035	-.012256	-.011352	-.022482	.037632
60	.019157	-.062135	-.005097	-.013577	-.015899	.034989



RUN NO. 67G 40M 05-10-62 1143-1259 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20594 10E 01	0.16525 10E 01	0.39742 10E 00	0.15387 10E 01	0.37003 10E 00	0.29692 10E 00
1	.022381	-.036068	-.045714	-.014438	-.004777	.024116
2	.040521	-.064221	-.080145	-.019666	-.004823	.032609
3	.048978	-.079213	-.106629	-.011259	-.002931	.035123
4	.047880	-.085039	-.122227	-.004145	.000352	.027220
5	.039264	-.091127	-.129941	-.000071	.006363	.008908
6	.029639	-.092832	-.131551	-.004512	.002584	-.006300
7	.021101	-.084864	-.127658	-.018577	-.009814	-.019786
8	.009247	-.070390	-.120847	-.024342	-.019910	-.025823
9	-.000266	-.062306	-.114287	-.019994	-.021322	-.024417
10	-.000939	-.059686	-.105889	-.011487	-.020313	-.019090
11	.000669	-.061766	-.100206	-.006349	-.016409	-.010589
12	.005849	-.062550	-.093315	-.008601	-.007131	-.007093
13	.010565	-.057565	-.085312	-.011381	.002608	-.010410
14	.009823	-.047798	-.074979	-.004190	.010069	-.009684
15	.009828	-.041218	-.065782	.007498	.014850	-.009527
16	.006017	-.034814	-.055523	.010562	.015263	-.011047
17	.001171	-.028232	-.042730	.009908	.015725	-.009482
18	-.007955	-.025669	-.032503	.010700	.016911	-.004566
19	-.013046	-.023210	-.029878	.010252	.015919	.002955
20	-.011508	-.022596	-.031100	.000836	.012787	.010557
21	-.003106	-.027594	-.031242	-.009779	.009314	.021512
22	.001603	-.033329	-.025899	-.014382	.002939	.027759
23	-.002114	-.041337	-.017602	-.024158	-.008480	.025754
24	-.011597	-.046371	-.006584	-.038519	-.017919	.020322
25	-.016269	-.041737	.007874	-.046948	-.022582	.012111
26	-.020319	-.034388	.021613	-.047762	-.023395	.004580
27	-.030372	-.031047	.031998	-.052198	-.024810	-.001063
28	-.041723	-.022656	.041253	-.054344	-.024250	-.005912
29	-.045923	-.016001	.045793	-.050908	-.020073	-.012795
30	-.045461	-.009280	.044393	-.054487	-.016541	-.014042
31	-.046437	-.002068	.040917	-.050803	-.017701	-.016101
32	-.044628	.001920	.036909	-.045348	-.020543	-.020249
33	-.044666	.006023	.030879	-.042939	-.023704	-.015907
34	-.043031	.020734	.029605	-.033148	-.018586	-.006677
35	-.040944	.032411	.029040	-.025649	-.008996	.002146
36	-.034389	.041857	.028528	-.017495	-.000680	.008107
37	-.025100	.043162	.025010	-.011682	.000945	.011746
38	-.017753	.037899	.016222	-.010473	-.002014	.015170
39	-.013406	.033346	.007488	-.006584	-.006215	.014645
40	-.007943	.025098	-.002962	-.001373	-.014564	.008331
41	-.001706	.018430	-.012694	-.000941	-.024208	.005157
42	.004606	.013073	-.017633	-.003120	-.030228	-.000264
43	.008604	.017308	-.015650	-.003460	-.034060	-.005527
44	.009645	.020082	-.014901	-.007615	-.035530	-.008769
45	.007077	.020081	-.013296	-.011615	-.031983	-.012999
46	.005036	.023732	-.010012	-.007303	-.030052	-.017915
47	-.001710	.030291	-.005403	.002178	-.027551	-.018086
48	-.001792	.032068	-.000886	.016691	-.020066	-.018240
49	.002294	.025713	.002993	.030506	-.008683	-.016262
50	.003405	.022899	.005465	.037578	.005387	-.014347
51	.006617	.023947	.005425	.043272	.017188	-.008648
52	.015244	.021122	.001906	.053015	.025595	-.002617
53	.021377	.015000	-.001095	.054208	.027436	-.003318
54	.025789	.009521	-.007044	.052187	.031641	-.002690
55	.031876	.005226	-.010285	.053611	.035534	-.003696
56	.042241	-.000414	-.009652	.054849	.036109	-.006186
57	.052120	-.001821	-.006368	.059477	.037743	-.007141
58	.056941	-.000072	-.001934	.056847	.037148	.001299
59	.059914	.002645	.001989	.052666	.034680	.008632
60	.063592	-.001291	.000190	.048717	.031464	.010384

RUN NO. 676 40M 05-10-62 1143-1259 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTO-COVARIANCE

M	U	V	W	T
	0.22119 10E 01	0.19175 10E 01	0.12346 10E 01	0.71407 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.882184	.818724	.739326	.850014
2	.727259	.599249	.461406	.636805
3	.597758	.448112	.295660	.471348
4	.482367	.348208	.183831	.347223
5	.372873	.273534	.090929	.252306
6	.277675	.217841	.020917	.182897
7	.195298	.162844	-.011895	.138389
8	.126872	.114665	-.022465	.100830
9	.071335	.076856	-.029411	.062455
10	.022111	.048313	-.034183	.019288
11	-.022711	.018323	-.030738	-.029353
12	-.060754	-.015376	-.037039	-.069221
13	-.093035	-.049740	-.061252	-.092110
14	-.110302	-.080888	-.084375	-.109477
15	-.122054	-.116497	-.114040	-.131776
16	-.131572	-.146719	-.126156	-.139706
17	-.148422	-.171137	-.125569	-.140906
18	-.169457	-.187817	-.119446	-.153083
19	-.186165	-.195642	-.114859	-.172634
20	-.201781	-.189809	-.114098	-.181830
21	-.224373	-.190122	-.115720	-.184988
22	-.255068	-.189642	-.122287	-.187687
23	-.283417	-.194227	-.134200	-.190397
24	-.305105	-.203638	-.143931	-.197397
25	-.318440	-.209713	-.157705	-.206359
26	-.323876	-.212967	-.182256	-.210561
27	-.319631	-.217898	-.199911	-.208286
28	-.309844	-.212617	-.198332	-.205696
29	-.288611	-.204520	-.179110	-.189598
30	-.252572	-.187920	-.145740	-.156373
31	-.206972	-.152098	-.110985	-.118405
32	-.167849	-.123951	-.091783	-.090880
33	-.138395	-.107770	-.073057	-.070786
34	-.109832	-.095549	-.052425	-.059973
35	-.084974	-.081120	-.029622	-.050905
36	-.072559	-.065911	-.025346	-.039033
37	-.061819	-.048069	-.023463	-.032049
38	-.049121	-.032737	-.012532	-.027815
39	-.037965	-.028262	.002797	-.023610
40	-.026565	-.028435	.013905	-.019830
41	-.013844	-.027254	.025187	-.019755
42	-.009176	-.016043	.035340	-.023179
43	-.015258	-.001116	.035022	-.019942
44	-.028075	.013133	.029176	-.012803
45	-.036239	.025921	.018331	-.015376
46	-.039982	.037516	.007161	-.023720
47	-.036659	.038953	.003982	-.029370
48	-.022101	.038490	-.000187	-.026674
49	.004847	.034001	.002649	-.025513
50	.034877	.029182	.008045	-.024998
51	.061958	.030919	.023005	-.022002
52	.079747	.032330	.047171	-.018843
53	.088720	.033811	.058619	-.020598
54	.094796	.030970	.061042	-.024880
55	.097590	.024119	.064241	-.032805
56	.094640	.015852	.074830	-.033815
57	.086146	.003371	.077847	-.026279
58	.072130	-.014529	.053417	-.014010
59	.057004	-.024724	.031313	-.004070
60	.040968	-.033385	.030585	.000285

RUN NO. 67G 40M 05-10-62 1143-1259 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 00	10E-01	10E-02	10E-02	10E-01
0	-.011249	-.009997	-.045650	-.048656	-.012835	.020100
1	-.068421	-.123678	-.432467	-.811780	-.303149	.210598
2	-.211061	-.136601	-.487437	-.357482	-.312517	.225991
3	-.281068	-.102530	-.413422	.348960	-.296627	.170473
4	-.007529	-.052190	-.212748	-.234298	-.411652	.091353
5	.174934	-.043979	-.124364	-.962528	-.356105	.090784
6	.121877	-.052069	-.112300	-.607921	-.092530	.113538
7-8	-.032906	-.037569	-.075335	.231043	.117997	.088055
9-11	.013790	-.017592	-.031135	.118078	.059936	.061923
12-15	.019253	-.009071	-.022381	.010415	.026974	.034130
16-20	.012981	-.002189	-.007264	-.168791	-.033988	.015284
21-27	.007020	-.002371	-.004705	-.211558	-.017717	.009593
28-36	.001055	-.001788	-.003013	-.086697	.002850	.006627
37-47	-.000818	-.000403	-.000313	-.021955	-.000344	.002528
48-60	.001725	-.000311	-.000547	-.027794	.001389	.001733

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	-.199434	-.473959	-.115998	-.287666	-.257156	-.028203
2	.086770	-.489773	-.149977	-.058080	.042395	-.030111
3	.258337	-.356317	-.174767	.092268	.056918	-.086866
4	.117349	-.212416	-.115042	-.028320	-.119042	-.096159
5	.039852	-.251182	-.058890	-.139356	-.205115	-.037159
6	.138669	-.245962	-.055838	-.089619	-.173051	.138602
7-8	.130283	-.086703	-.038514	.040837	.136995	.189234
9-11	.111196	-.079052	-.013164	.000454	.069250	.123984
12-15	.025169	-.023126	-.006650	-.013503	-.042545	.111870
16-20	.010831	-.000754	-.002123	-.033642	-.041265	.009056
21-27	-.000018	-.016276	-.000854	-.004365	.001895	.006287
28-36	-.002076	.003746	-.000292	-.003125	.000954	.006451
37-47	.000229	.000652	-.000560	.001318	-.004778	.008675
48-60	.000342	-.000871	-.000252	.000809	.001818	-.000891

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E 00	10E-01
0	.038183	.036095	.006941	.012937
1	.377783	.279906	.099020	.100914
2	.435693	.308934	.133930	.109976
3	.383892	.280757	.133223	.105337
4	.209564	.164503	.085285	.068011
5	.132519	.106609	.069759	.044342
6	.143704	.091827	.078296	.041190
7-8	.102574	.069978	.061712	.031165
9-11	.043107	.059885	.052507	.020874
12-15	.028610	.034698	.029846	.015598
16-20	.014519	.026123	.019545	.007850
21-27	.011215	.016961	.014196	.004879
28-36	.007220	.009712	.010710	.002973
37-47	.004218	.005977	.006056	.001433
48-60	.002739	.003762	.003989	.000890

RUN NO. 67G 40M 05-10-62 1143-1259 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
	0.29491 10E 01	0.13994 10E 01	0.53247 10E 00	0.14449 10E 01	0.54976 10E 00	0.26087 10E 00
0	-.099051	-.523635	-.627641	-.012281	.072034	.584049
1	-.092018	-.254696	-.397601	.028195	.096191	.300434
2	-.060284	-.067528	-.186890	-.000533	.085656	.152188
3	-.051184	.065536	-.051084	.007126	.065643	.003067
4	-.062723	.097623	.016978	.009465	.071241	-.031134
5	-.024802	-.001909	-.005387	-.008708	.040796	.004360
6	-.017450	-.038624	.003744	.006497	.024191	-.010850
7	-.012837	-.004481	-.010058	.018143	.018485	-.013187
8	-.026409	-.038514	-.033733	.040327	.014392	-.003569
9	-.031192	.017154	-.008195	.060246	-.011455	-.038498
10	-.007605	-.008257	.007042	.032075	-.043223	-.018027
11	.029749	.066857	.094702	-.008096	-.056435	-.059598
12	.075358	.131178	.159506	-.029923	-.083311	-.135966
13	.103388	.098411	.180061	-.023675	-.104717	-.175501
14	.099445	.081346	.165690	-.022370	-.086194	-.129699
15	.099524	.053169	.122397	-.059320	-.059320	-.094072
16	.068708	.018943	.086815	-.038492	-.024798	-.068995
17	.033921	.045410	.066485	.027301	.010719	-.065736
18	.011295	-.008005	.022605	.022490	.006384	-.025905
19	.030478	-.000151	.025504	-.039973	-.008341	.004779
20	.002954	.037589	.050571	-.033827	-.037742	-.031275
21	.021970	.006616	.064469	-.013376	-.039433	-.038599
22	-.010823	-.007744	.055632	.029148	.005694	-.026305
23	-.024227	-.033470	.033380	.009589	.028300	-.014786
24	-.022094	-.031103	.041595	-.005617	.035832	-.025090
25	-.034393	.077782	.080711	-.002630	.037860	-.064357
26	-.043631	.062240	.047575	-.027927	.037549	-.045245
27	-.036683	.050288	.018103	.003419	.029993	-.016007
28	-.003415	-.002453	-.019903	-.008831	-.006972	.065401
29	.016497	-.074449	-.041582	.024892	-.007657	.096930
30	.020937	-.002561	.004490	-.003607	-.038301	.060776

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-01
0	-.013241	-.089570	-.071803	.027663	.027267	.017473
1	-.107290	-.659339	-.527744	.159565	.201464	.179610
2	-.107121	-.668263	-.482124	.085173	.209954	.190731
3	-.052614	-.570885	-.358564	-.056023	.143550	.156489
4	.018836	-.309053	-.187278	-.136605	.007689	.086627
5	.006776	-.315481	-.172053	-.038159	-.042797	.077669
6	-.034381	-.558550	-.289780	.106592	-.003987	.120643
7	-.036099	-.723255	-.325150	.146330	.048248	.128551
8	.000228	-.671495	-.223138	.040533	.009511	.091995
9-11	.006178	-.442813	-.119859	-.053047	-.012999	.064975
12-14	-.011937	-.263718	-.090273	.029152	-.003520	.041715
15-21	-.003015	-.083073	-.038258	-.014166	-.006657	.019290
22-30	.003820	-.179863	-.044795	-.065903	-.009150	.039780

RUN NO. 676 40M 05-10-62 1143-1259 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
	0.29491 10E 01	0.13994 10E 01	0.53247 10E 00	0.14449 10E 01	0.54976 10E 00	0.26081 10E 00
1	-.037864	-.089082	-.105924	-.058421	-.038894	.004494
2	-.097345	-.077558	-.096443	-.098759	-.066631	.033405
3	-.125500	-.057929	-.091003	-.154677	-.091242	.052854
4	-.105441	.004636	-.089722	-.103955	-.085420	.082381
5	-.087129	.011890	-.091717	-.044681	-.080661	.074680
6	-.057595	.032967	-.070229	-.010339	-.037582	.100301
7	-.068036	.030968	-.051544	-.027749	-.044621	.087828
8	-.060365	.052613	-.066975	-.026891	-.039822	.091261
9	-.050932	.050734	-.053605	.020201	-.020283	.061889
10	-.007903	.017488	-.062722	.028746	-.001612	.044910
11	.045302	-.028835	-.087066	.055920	.036705	-.004355
12	.023063	-.083179	-.076300	.064449	.031994	-.056427
13	.034678	-.063472	-.045473	.060312	.040743	-.058256
14	.024114	.026500	-.009886	.044545	.045549	-.038595
15	.043988	-.010786	-.014114	.023159	.064741	-.044212
16	.060146	-.038437	.004818	.012824	.069750	-.033584
17	.026229	-.020594	.010646	.000572	.039378	-.038979
18	-.007274	-.048564	-.006473	-.065866	-.011979	-.069644
19	-.030017	-.020791	-.000453	-.105821	-.040939	-.030725
20	-.067708	-.011723	.002933	-.096135	-.035539	-.009568
21	-.072584	-.016212	-.009518	-.084758	-.038602	-.019462
22	-.085541	-.000957	.012249	-.044912	-.033970	-.031838
23	-.065605	.023167	.043018	-.029869	.026534	-.028829
24	-.021655	.072678	.070116	-.023470	.056504	.012003
25	.009648	.043550	.089822	-.013045	.065755	.025197
26	.038459	.092365	.079962	.005190	.043617	.098174
27	.067239	.079037	.041740	.049661	.039832	.091490
28	.098780	.083866	.051702	.066226	.036465	.070703
29	.113808	.031301	.012608	.085385	.015545	.064530
30	.103624	-.017023	.003370	.087138	-.006191	.032738

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E 00	10E-01	10E-01	10E-01	10E-01	10E-02
1	-.066363	-.097796	-.259557	-.129296	-.032557	.387146
2	-.073610	.027582	-.213669	-.108101	-.103279	.822063
3	-.119484	.092077	-.132647	-.455899	-.180377	.973779
4	-.093328	-.107384	-.075865	-.596581	-.148295	.388609
5	-.024513	-.253660	-.062887	-.269414	-.033665	-.088381
6	-.024966	-.326099	-.087367	-.162976	-.028317	-.259477
7	-.024848	-.293522	-.087211	-.230881	-.053666	-.133689
8	-.014419	-.116181	-.034839	-.171396	-.011762	.037042
9-11	-.012113	-.111768	-.023842	-.069465	-.007953	-.032752
12-14	.015283	-.063655	-.031126	.097308	.015146	-.016730
15-21	.004013	-.035177	-.022222	.006901	-.003511	-.023337
22-30	.000227	-.038660	-.010211	-.033780	-.004286	-.043569

RUN NO. 476 40M 05-10-62 1143-1259 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.28563 10E 01	0.30449 10E 01	0.68562 10E 00	0.99261 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.573436	.697714	.269022	.640753
2	.258920	.429944	.021796	.402218
3	.032129	.241001	-.125959	.227020
4	-.063107	.095893	-.086060	.094580
5	-.067805	-.005658	-.004517	.009341
6	-.066378	-.120733	-.017411	-.035405
7	-.089138	-.168856	-.015663	-.040347
8	-.056413	-.210835	-.016641	-.052830
9	-.087455	-.233102	-.119937	-.091360
10	-.095133	-.251754	-.029132	-.124987
11	-.178213	-.271678	-.045970	-.198771
12	-.226113	-.245815	-.133201	-.285532
13	-.188694	-.193740	-.149192	-.332455
14	-.114232	-.191652	-.139271	-.329993
15	-.032741	-.119008	-.066881	-.291334
16	.027609	-.087992	.008546	-.244306
17	.019305	-.066868	-.020091	-.165738
18	.062010	-.035698	.059323	-.080654
19	.028404	-.018561	.043945	-.027945
20	-.008584	.020664	-.046544	-.011913
21	-.031257	-.001227	-.011400	.003980
22	-.031694	-.043381	.014610	.027303
23	-.031604	-.049435	.036346	.032009
24	-.056188	-.052045	.077670	.046365
25	-.097541	-.048006	-.137920	.002938
26	-.069328	-.044636	-.068641	-.004673
27	-.076470	-.041006	-.057397	.018495
28	-.063819	.006202	.066499	.048603
29	-.031051	.044010	.111180	.044015
30	-.068729	.091656	.042721	.032092

POWER SPECTRUM

K	U	V	W	T
	10E 00	10E 00	10E-01	10E-01
0	.043580	.040175	.026835	.017383
1	.284665	.418941	.317086	.163478
2	.308445	.514140	.422655	.181548
3	.353056	.545804	.465780	.145490
4	.265187	.378290	.314947	.064908
5	.170532	.219498	.261749	.055497
6	.203422	.170177	.388527	.077179
7	.245559	.143197	.465377	.067065
8	.197231	.113758	.404161	.040158
9-11	.107264	.076545	.397154	.023744
12-14	.091712	.061358	.266296	.018205
15-21	.040753	.035912	.188634	.014979
22-30	.049785	.033029	.276175	.014793

RUN NO. 67G 16M 05-10-62 1143-1259 EST  
 RUN NO. 67G 40M 05-10-62 1143-1259 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	.890626	.807327	.700526	.848603
1	.812925	.777455	.705083	.827024
2	.741544	.690722	.683598	.760159
3	.651851	.609499	.657920	.667516
4	.535457	.550153	.657209	.593870
5	.458080	.530429	.672018	.595554
6	.356109	.510079	.621788	.577723
7-8	.196077	.521404	.549987	.521813
9-11	.251561	.500782	.419533	.311900
12-15	.124864	.341277	.328254	.363198
16-20	.078402	.278255	.318273	.190237
21-27	.081138	.189807	.162572	.120059
28-36	.092430	.119846	.134401	.128311
37-47	.072375	.112175	.088932	.101933
48-60	.121048	.084678	.080854	.110501

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	.968908	.951001	.896565	.970525
1	.946134	.947911	.868656	.968966
2	.923466	.922108	.809330	.958250
3	.907804	.908818	.731779	.916175
4	.884468	.917647	.661508	.792701
5	.873818	.916121	.526694	.826884
6	.891569	.864170	.771408	.870350
7	.884955	.812686	.793410	.832496
8	.867757	.796400	.777294	.839082
9-11	.790246	.752116	.707275	.825906
12-14	.723263	.564463	.738561	.696435
15-21	.498203	.549542	.595018	.623157
22-30	.358614	.441818	.703212	.559231

RUN NO. 71A 16M 10-17-62 1936-2048 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.42 M/SEC	WIND DIRECTION	305 DEG
STABLE	SIGMA A	7.3 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.9 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
<b>VARIANCES</b>				
U	0.61774E 00	0.38772E-00	0.31009E-00	0.22187E-00
V	0.29836E-00	0.22173E-00	0.21176E-00	0.82960E-01
W	0.88550E-01	0.89834E-01	0.84165E-01	0.26244E-01
T	0.13844E-00	0.30975E-01	0.25017E-01	0.16738E-01
E	0.50233E 00	0.34966E-00	0.30301E-00	

<b>GUSTINESS RATIOS</b>				
U	0.17782	0.14088	0.12598	0.10657
V	0.12358	0.10653	0.10411	0.06516
W	0.06732	0.06781	0.06564	0.03665

<b>COVARIANCES</b>				
U,V	-0.53996E-01	-0.72279E-02	-0.12192E-01	-0.12051E-01
U,W	-0.74597E-01	-0.79675E-01	-0.70463E-01	-0.38099E-01
U,T	-0.74547E-01	0.59459E-01	0.52002E-01	0.45765E-01
V,W	0.61713E-02	0.69995E-03	0.19591E-02	0.47259E-02
V,T	0.26350E-01	0.15307E-02	0.11766E-02	-0.18610E-02
W,T	-0.24850E-01	-0.23589E-01	-0.21071E-01	-0.10380E-01
WE	-0.11346E-01	-0.99502E-02	-0.70706E-02	

<b>NORMALIZED COVARIANCES</b>				
U,V	-0.12577	-0.02465	-0.04758	-0.08883
U,W	-0.31895	-0.42692	-0.43617	-0.49928
U,T	-0.25491	0.63382	0.59047	0.75100
V,W	0.03797	0.00496	0.01467	0.10128
V,T	0.12965	0.01847	0.01617	-0.04994
W,T	-0.22444	-0.44718	-0.45921	-0.49525



RUN NO. 71A 16M 10-17-62 1936-2048 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25630 10E 00	0.16156 10E 00	0.88103 10E-01	0.13353 10E 00	0.72818 10E-01	0.45903 10E-01
0	-.047671	-.436208	.590450	.014691	.016144	-.459392
1	-.042700	-.372623	.542808	.013694	.003752	-.369753
2	-.045034	-.261180	.444112	.019318	-.015083	-.241342
3	-.048606	-.164872	.337861	.029197	-.024848	-.145508
4	-.048380	-.091998	.244935	.040180	-.035891	-.081757
5	-.040983	-.046609	.172385	.036535	-.041451	-.037161
6	-.036081	-.011401	.115517	.035032	-.037987	-.006541
7	-.031914	.024381	.061783	.023348	-.028064	.015793
8	-.020257	.049170	.015329	.012618	-.010336	.037152
9	-.006937	.059137	-.022166	.002763	.007982	.061513
10	.000523	.065750	-.052751	-.005889	.016848	.073983
11	-.001140	.072677	-.083827	-.003753	.018152	.078553
12	.001500	.073428	-.114368	.001256	.014602	.079499
13	.013529	.081724	-.139729	.003208	.006330	.079939
14	.026719	.097026	-.156577	-.012670	.005878	.074627
15	.033131	.091958	-.164908	-.023331	.004690	.066337
16	.030047	.083458	-.162637	-.019720	.001095	.058118
17	.030786	.076274	-.152779	-.011265	.002217	.065392
18	.034538	.059244	-.136338	-.011202	.004120	.068206
19	.040589	.046365	-.127800	-.010463	.008052	.060652
20	.041871	.038842	-.125562	-.018713	.008184	.052652
21	.041616	.041882	-.129081	-.014251	.014158	.058080
22	.031703	.047642	-.130332	-.003497	.015246	.058949
23	.027885	.053487	-.130258	-.012855	.020380	.054286
24	.026845	.045150	-.125353	-.019025	.019387	.050563
25	.030339	.032085	-.119699	-.018352	.022746	.040538
26	.038339	.027445	-.110434	-.014019	.019074	.032196
27	.039182	.027448	-.092741	-.014457	.023499	.029303
28	.037712	.030584	-.078713	-.020512	.028883	.029148
29	.039490	.029891	-.063539	-.022982	.028013	.034150
30	.040965	.019962	-.041865	-.020498	.030329	.028652
31	.042532	.001937	-.019348	-.025450	.032433	.009169
32	.044388	.000185	-.012009	-.030510	.034135	-.003059
33	.044812	.006758	-.015544	-.032874	.036304	-.010128
34	.041384	.016925	-.022932	-.027807	.042020	-.006939
35	.034583	.028253	-.025696	-.028718	.040845	-.000271
36	.024183	.041884	-.024073	-.019412	.030136	.007226
37	.002444	.047340	-.017549	-.001195	.011898	.010691
38	-.016238	.031129	-.004633	.013887	-.008837	.003663
39	-.033136	.009951	.004319	.021572	-.024499	-.005964
40	-.039952	-.011099	.006236	.020517	-.029587	-.008682
41	-.044140	-.026456	.006692	.019571	-.032947	-.006200
42	-.047234	-.029804	.004498	.014072	-.037876	.001061
43	-.046447	-.035947	.003340	.008078	-.037448	.002037
44	-.044135	-.032959	-.000035	.013613	-.033823	-.000300
45	-.054028	-.021796	-.002846	.021497	-.038364	-.009065
46	-.058846	-.008191	-.005162	.021392	-.038927	-.005085
47	-.054888	.004018	-.001196	.018513	-.028524	.001055
48	-.045463	.003581	.009955	.015185	-.015173	-.005180
49	-.031198	-.002384	.024265	.017418	-.009828	-.012696
50	-.020106	-.011551	.033264	.009847	-.012152	-.018391
51	-.018387	-.028965	.035732	.005743	-.021104	-.030132
52	-.023926	-.036719	.033203	.006617	-.027664	-.026435
53	-.032784	-.031207	.025756	.012615	-.031906	-.017507
54	-.044327	-.026173	.020319	.011065	-.034672	-.015926
55	-.055046	-.021737	.019146	.007903	-.042547	-.016938
56	-.060894	-.019701	.021863	.002966	-.044745	-.018248
57	-.049938	-.011017	.023576	.006864	-.042250	-.014779
58	-.039760	-.004807	.020286	.011590	-.036383	-.008994
59	-.028015	-.007080	.018957	.015540	-.023711	-.003811
60	-.013124	-.010324	.022949	.019299	-.019416	-.000474

RUN NO. 71A 16M 10-17-62 1936-2048 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.25636 10E 00	0.16156 10E 00	0.88103 10E-01	0.13353 10E 00	0.72818 10E-01	0.45903 10E-01
1	.001546	-.011339	.038109	-.025963	-.008686	-.041429
2	.003155	-.011334	.062051	-.042506	-.017025	-.059583
3	.001377	-.001392	.068663	-.045702	-.023449	-.062472
4	-.006577	.015779	.067953	-.040179	-.034478	-.070951
5	-.006233	.031254	.068664	-.031022	-.047165	-.078124
6	.005096	.042278	.064883	-.018346	-.054473	-.067543
7	.012875	.038298	.060557	-.008149	-.060626	-.051147
8	.015904	.030194	.054750	.004090	-.055225	-.040902
9	.017903	.029366	.054997	.000938	-.047559	-.035975
10	.014626	.028204	.052380	-.002297	-.039730	-.022901
11	.015992	.029962	.043796	.006718	-.036122	-.011769
12	.021644	.025346	.035287	.012982	-.031058	-.003993
13	.019051	.014970	.024227	.012757	-.027185	.015351
14	.015442	.009848	.013811	.018715	-.022608	.028282
15	.005291	-.000505	.013383	.024028	-.013349	.029353
16	.002354	-.003746	.014329	.007414	.002440	.025759
17	.004488	.002482	.011011	.002433	.019715	.010435
18	.004962	.013075	.004322	.001904	.029837	-.001496
19	.010319	.010429	-.002759	.012193	.026546	-.007135
20	.017314	-.001638	-.007427	.018513	.020889	-.006460
21	.017839	-.004870	-.011500	.016650	.023928	.000383
22	.018015	-.003408	-.014277	.009413	.028655	.014312
23	.018088	-.005231	-.012346	.005185	.025953	.015967
24	.014909	-.011165	-.010039	.008386	.019415	.021542
25	.004989	-.018241	-.008291	.007700	.017355	.029500
26	-.002762	-.018995	-.005328	-.004762	.018791	.025467
27	-.014597	-.021390	.003774	-.007798	.025464	.010920
28	-.029243	-.017936	.007858	-.012060	.025818	-.004567
29	-.033837	-.010238	.001826	-.026053	.032807	-.006561
30	-.037797	-.002718	-.011732	-.030843	.037534	-.011215
31	-.039717	-.006662	-.012930	-.034035	.031322	-.012433
32	-.045511	-.006370	-.014742	-.030504	.026580	-.005814
33	-.043741	-.000619	-.011509	-.020652	.018653	-.004857
34	-.038154	-.006425	-.006907	-.015080	.012397	-.005588
35	-.035408	-.013794	-.003689	-.010849	.010258	-.004654
36	-.028016	-.014241	-.004348	.004556	.011017	-.003972
37	-.014097	-.014597	-.003894	.008653	.004352	-.006786
38	-.002657	-.013000	-.001877	.000146	-.001472	-.002594
39	.002419	-.010391	-.004134	.000431	-.007256	-.002966
40	.002172	-.007695	-.001955	-.001428	-.002256	-.000094
41	-.000727	-.002448	.003292	-.002754	.002506	.002489
42	-.001085	.001245	.006267	-.002768	.003674	.002059
43	.008828	-.004053	.005747	-.003185	.002853	.003493
44	.013751	-.007025	.007392	.002281	-.002762	.003126
45	.013423	-.014087	.010600	.010224	.001129	.005637
46	.009785	-.015222	.011654	.012010	.005847	.011304
47	.007627	-.014616	.004184	.001565	.010646	.020544
48	.007881	-.011844	-.004566	-.011747	.015050	.028163
49	.004561	-.011825	-.008853	-.013717	.012367	.024947
50	.002623	-.006218	-.011069	-.006630	.004770	.024011
51	-.000291	.002672	-.016472	-.000690	-.002585	.022300
52	-.000784	.014738	-.022790	.006124	-.006055	.018526
53	.004894	.022331	-.020931	.018859	-.011967	.011282
54	.010265	.018936	-.012085	.027958	-.021647	-.000137
55	.019483	.011646	.000789	.030004	-.043958	-.006416
56	.028058	.009289	.010199	.038188	-.060650	-.007474
57	.036127	.012072	.012147	.043361	-.058882	-.010391
58	.039628	.016274	.009367	.043120	-.047546	-.014581
59	.034977	.020539	.012363	.032468	-.035878	-.020299
60	.017605	.010285	.015154	.014936	-.024872	-.022466

RUN NO. 71A 16M 10-17-62 1936-2048 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.31010 10E 00	0.21183 10E 00	0.84176 10E-01	0.25032 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.831359	.710208	.646934	.809343
2	.606469	.421707	.316521	.583401
3	.425278	.251919	.145458	.403400
4	.290036	.139689	.051990	.266271
5	.188498	.057654	-.023218	.168158
6	.111225	-.000007	-.069664	.096241
7	.052591	-.023691	-.079203	.044285
8	.006175	-.042010	-.080615	-.000869
9	-.031003	-.052931	-.102482	-.040867
10	-.071715	-.071481	-.126211	-.075491
11	-.105618	-.083230	-.127371	-.116141
12	-.135039	-.108202	-.118479	-.154864
13	-.165502	-.123363	-.115452	-.176228
14	-.192656	-.122283	-.117885	-.187055
15	-.206456	-.130953	-.099217	-.191310
16	-.213483	-.135945	-.083918	-.190219
17	-.213010	-.138214	-.079602	-.194048
18	-.202445	-.147936	-.059410	-.195905
19	-.194625	-.150969	-.041554	-.196788
20	-.202088	-.152414	-.037288	-.197444
21	-.206463	-.155860	-.043195	-.196140
22	-.203867	-.164084	-.051533	-.182359
23	-.196642	-.161202	-.067822	-.167553
24	-.187134	-.158557	-.077000	-.154690
25	-.174934	-.140789	-.070509	-.141347
26	-.151774	-.120900	-.058970	-.132847
27	-.129492	-.109479	-.057204	-.125193
28	-.114639	-.091906	-.051771	-.107955
29	-.106275	-.075227	-.055436	-.088314
30	-.083601	-.056162	-.044765	-.063603
31	-.051386	-.027253	-.013787	-.036352
32	-.032799	-.002028	-.002381	-.018040
33	-.023414	.008255	.000469	-.007916
34	-.016807	.012614	-.006361	-.006400
35	-.015049	.023484	-.007188	-.011227
36	-.005293	.043278	-.019483	-.012915
37	-.000903	.053048	-.023109	-.003320
38	.010458	.044708	.001306	.006191
39	.025049	.038580	.019856	.016601
40	.040129	.029637	.038667	.014954
41	.051715	.028299	.034730	.011149
42	.052505	.022933	.023350	.005515
43	.043575	.004152	.029846	.001251
44	.030378	-.000990	.030912	.001635
45	.015488	.002586	.021217	.011209
46	.005798	.011735	.001148	.023901
47	.005919	.015797	-.008915	.039959
48	.017513	.030482	-.011086	.055439
49	.038630	.049249	.005674	.061458
50	.051295	.035063	.020018	.060528
51	.053572	.024454	.026421	.050471
52	.041166	.035372	.026948	.034756
53	.031561	.040125	.028181	.027353
54	.031389	.027977	.023730	.024818
55	.029782	.022853	.038286	.023486
56	.022699	.032806	.054401	.021541
57	.013088	.027177	.050399	.014741
58	.010451	.021410	.041568	.003050
59	.015294	.032239	.039641	-.007792
60	.015800	.033729	.026022	-.011891

RUN NO. 71A 16M 10-17-62 1936-2048 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	.035284	-.030013	.045879	-.000286	.079583	-.007505
1	-.146465	-.429666	.558842	.084888	-.201006	-.113834
2	-.514223	-.666639	.791768	.150977	-.782479	-.182015
3	-.498889	-.851591	.936851	.124192	-.548377	-.241146
4	-.120795	-.807836	.744775	.030096	.098586	-.222228
5	-.110659	-.725371	.504031	.038305	-.187654	-.181543
6	-.083105	-.576458	.361762	.029223	-.279788	-.156133
7-8	.075572	-.415097	.242355	-.039952	.172670	-.127016
9-11	.004872	-.266621	.122587	-.030081	.399403	-.075864
12-15	.021370	-.174052	.093884	-.030093	.234400	-.053920
16-20	.001522	-.095168	.037693	.002942	-.000301	-.035844
21-27	.008324	-.052234	.016804	-.000158	.048773	-.019233
28-36	-.014524	-.015592	.003520	.004009	.027701	-.011825
37-47	-.002902	-.015868	.003167	.001272	.023048	-.005713
48-60	-.005335	-.003503	.001099	.001226	-.001196	-.003149

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	-.021021	.022186	.088241	-.016863	.026770	-.086426
2	.160953	.115470	.119339	.021918	-.051862	-.226387
3	.216561	.165771	.162853	.014696	-.127778	-.451573
4	-.025790	.126765	.155390	-.075769	-.123353	-.719664
5	-.116412	.069447	.117673	-.127928	-.071765	-.713963
6	.046299	.022476	.088005	-.086834	-.035537	-.576874
7-8	-.012575	.005749	.043183	-.067168	-.000414	-.513241
9-11	-.050661	-.051954	.035381	-.058861	.001981	-.080684
12-15	.010715	-.026071	.022354	-.038130	.010615	-.139802
16-20	.023166	-.039745	.008278	-.005324	-.001820	.009549
21-27	.006024	.003935	.007541	-.004401	-.001769	-.055458
28-36	-.009455	-.002226	.000571	-.000128	.000265	-.044788
37-47	.003225	.000863	-.000800	-.002293	.000755	.007483
48-60	-.000794	-.002738	.000852	-.000062	-.000242	-.001671

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-04
0	.020566	.004611	.014901	.015969	.005703	.030945
1	.260363	.104813	.264828	.197403	.071450	.386859
2	.390547	.183141	.448685	.293633	.108028	.597697
3	.469394	.236544	.607081	.357419	.135583	.779463
4	.354495	.181195	.582680	.284264	.113842	.692688
5	.237492	.120395	.559954	.195831	.082424	.529470
6	.188764	.114930	.559619	.149769	.073390	.414594
7-8	.146621	.110840	.452955	.119937	.051473	.341645
9-11	.099871	.080483	.317559	.080203	.036376	.263937
12-15	.070399	.060105	.266442	.059639	.026531	.192806
16-20	.037753	.036461	.183360	.030896	.014255	.111397
21-27	.023014	.027069	.126670	.019899	.009604	.082163
28-36	.012756	.019578	.101529	.012116	.005583	.054256
37-47	.008352	.012106	.061832	.008455	.004366	.051626
48-60	.005385	.008412	.041903	.005943	.002600	.034770

RUN NO. 71A 16M 10-17-62 1936-2048 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
	0.13560 10E 00	0.76294 10E-01	0.60971 10E-01	0.46664 10E-01	0.37292 10E-01	0.20982 10E-01
0	-.088872	-.499367	.750607	.101273	-.049902	-.494699
1	.017978	-.008360	.224139	-.033858	.023.27	.000578
2	.064683	.031925	.047159	-.019919	.021788	.038327
3	.025010	.021565	.007720	-.037076	.039584	.038648
4	-.058432	.077209	-.065810	.026345	-.040788	.062795
5	-.077581	.032924	-.061369	-.000260	-.046547	.028810
6	-.049815	.026978	-.032776	.022745	-.043032	.007153
7	.009829	.069453	-.082128	.009807	.004776	.082425
8	.083521	-.021195	-.010493	.007069	.086592	-.030782
9	.058499	.013135	-.037051	.028200	.076259	.032099
10	-.000947	.023689	-.065262	.027459	-.021820	.017967
11	-.018335	.002089	-.058595	.007571	.004642	.027961
12	.047209	.071004	-.146333	-.082795	.012255	.049987
13	.045708	.036737	-.154350	-.041998	.016536	.007068
14	.057048	-.001116	-.143055	.063151	.016067	-.015535
15	-.003579	.036713	-.150510	-.015288	-.026165	.032435
16	.017609	-.068661	-.033689	-.031570	.014399	-.081656
17	-.004832	-.069844	-.004276	-.054707	-.020862	-.049655
18	.013665	-.122354	.042095	-.056400	-.020994	-.090122
19	-.000304	-.023045	.045722	.013866	.012035	.025768
20	-.033895	.020917	.051630	.037178	.001639	.007859
21	-.038198	.049890	.000211	.085098	-.079104	.016359
22	-.062338	-.004692	.109081	.019103	-.094005	-.078908
23	-.098961	.040235	.043764	.010767	-.026258	.043020
24	-.071311	-.035168	.036045	.034581	-.035385	-.002230
25	-.015773	.033885	-.021971	.043352	-.012544	.057444
26	-.090193	-.006524	.013222	.059364	-.090101	-.016015
27	-.078384	.042320	.061533	-.030132	-.069349	.072625
28	.006237	.006109	.056826	-.064769	.039.39	.065166
29	.036679	.030541	.045406	.007899	.034283	.019606
30	.036095	-.003734	.057872	-.007214	.062097	-.027521

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	.020595	-.001348	.002582	.007031	.031408	-.003329
1	.055235	-.010743	.206301	.033000	.282320	-.007586
2	-.124011	-.066297	.375090	.164381	-.089988	-.146212
3	-.123145	-.182855	.406830	-.076715	-.294394	-.460611
4	.082866	-.185206	.216178	-.439616	.002455	-.487803
5	.117007	-.108817	.201210	-.089685	.174867	-.316295
6	.140524	-.179980	.332902	.115922	.373002	-.403979
7	.150071	-.266993	.334134	.111047	.441176	-.587661
8	.090734	-.172792	.222604	.379872	.193662	-.531282
9-11	-.179316	-.139559	.181151	.075325	-.425270	-.425591
12-14	-.172556	-.163167	.160275	.518623	-.246294	-.488383
15-21	-.080341	-.163236	.154077	.217590	-.041896	-.431863
22-30	-.051122	-.229086	.157821	.419214	-.179627	-.639863

RUN NO. 71A 16M 10-17-62 1936-2048 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
	0.13560 10E 00	0.76294 10E-01	0.60971 10E-01	0.46664 10E-01	0.37292 10E-01	0.20982 10E-01
1	.023706	.072968	.074879	-.021768	-.050871	-.078925
2	.029443	-.017178	-.010509	.031028	.056610	.063338
3	-.031645	.006895	.003277	-.010792	.053385	-.042798
4	.016687	.021235	.004724	-.001913	.019373	-.023284
5	.083439	.041017	-.020729	.030098	-.037612	-.001716
6	.091205	.040891	-.005221	.067354	-.095310	-.038631
7	.066676	.059796	-.029510	-.004465	-.050240	-.054940
8	.016758	.014076	-.009546	-.037377	-.019968	-.005535
9	.017329	-.007404	.016730	.017589	-.017015	.031711
10	.023705	.004200	-.000600	-.035525	-.010606	.039428
11	-.011511	.030013	-.015619	.032888	-.013990	-.038083
12	-.008097	-.034055	-.026797	.005222	-.015957	.007833
13	-.022425	.013927	-.040034	.016002	.011006	.035803
14	-.050437	.000624	.018155	.029327	.058863	-.007712
15	-.043895	-.022540	.021740	-.002029	.025595	.015652
16	-.081055	-.047305	.028284	-.056993	.038461	.030263
17	-.005398	-.035506	.024178	-.010139	.005376	-.018630
18	-.035796	-.028669	-.000181	.033264	.029683	.021077
19	-.101955	-.059101	.011910	-.036916	.105024	.027708
20	-.023013	.017974	.006800	-.046940	.041511	-.029893
21	.031240	.061777	.040991	.067895	-.054596	-.055508
22	.039304	.008372	-.000875	.058290	-.012334	-.005563
23	-.004847	-.020566	-.002007	.038453	.033581	.050029
24	.008752	-.054665	.031653	-.000173	.004496	.029627
25	-.034297	.013476	.023449	-.060764	.036373	-.036605
26	-.022695	.059592	-.030345	-.059651	-.010189	-.032734
27	.041144	.020008	-.040816	.015371	-.117833	.001532
28	.066059	.020553	-.050575	.037885	-.095083	-.008689
29	.048590	-.006694	-.042090	.038570	-.044986	.028777
30	-.006311	-.001042	-.027379	-.042907	.003312	.036978

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	.029433	.036769	-.076843	.212750	-.025261	-.033065
2	.242539	.090757	-.296059	.187312	-.432180	-.106429
3	.321807	.109400	-.102664	.222258	-.414048	-.198778
4	.089337	.034646	.260389	.107561	.179129	-.155441
5	-.078053	-.007798	.199162	.080077	.453655	-.034911
6	-.075382	.006248	.069404	.215835	.433594	.016846
7	-.107560	-.019800	.183250	-.167705	.444503	.058619
8	-.106943	-.051492	.539497	-.452426	.384105	.125550
9-11	.009161	.023962	.171462	-.051324	-.014357	-.042985
12-14	.144298	.055780	.330414	.271311	-.436121	-.052897
15-21	.019111	.052964	.400572	-.260079	-.253090	-.164801
22-30	-.047074	.045246	.265888	-.120805	-.159225	-.260662

RUN NO. 71A 16M 10-17-62 1936-2048 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIARIANCE

M	U	V	W	T
	0.22170 10E 00	0.82940 10E-01	0.26255 10E-01	0.16768 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.284807	.043319	-.060475	.268525
2	.037825	-.164291	-.055621	.051285
3	.018342	-.060393	-.042116	.006335
4	-.050955	-.031335	-.110861	-.064518
5	-.066134	-.003578	-.026379	-.038652
6	-.050934	.040985	-.045840	-.073666
7	-.113872	-.024615	-.096429	-.113565
8	-.046171	-.061209	-.007836	.020020
9	-.058127	-.116864	-.021385	-.013604
10	-.124715	.053570	.008329	-.091055
11	-.157417	.003262	-.067025	-.073897
12	-.189849	-.086593	-.096084	-.172024
13	-.171783	-.112444	-.046443	-.175437
14	-.178851	-.057491	.011632	-.144062
15	-.156826	.049979	-.084456	-.186726
16	-.016158	.045952	.164030	-.054769
17	.037595	.030591	.072614	-.069479
18	.093709	-.030973	.108524	-.019442
19	.101234	-.052015	.008044	-.015784
20	.085458	.040063	-.024250	.062015
21	.026175	.088152	.014540	.030766
22	.078087	-.007725	.042948	.130632
23	.078361	.023569	-.080304	.032618
24	.122673	-.095444	.023099	-.017605
25	.042473	-.013693	-.073964	-.040539
26	.054497	.005351	.056653	.009701
27	.049765	.012501	-.097820	.062078
28	.064666	-.007064	-.023017	.055880
29	.008350	.097220	-.028170	.128756
30	.013553	-.038639	.033468	.119118

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.002076	.027243	.002541	.002134
1	.082797	.185369	.016866	.087133
2	.175985	.240474	.046782	.134062
3	.214973	.315307	.105912	.130623
4	.117539	.258272	.104048	.072892
5	.081326	.204210	.068959	.078582
6	.132800	.260805	.098111	.114553
7	.149936	.330542	.137190	.107594
8	.104443	.358253	.109450	.083228
9-11	.085479	.437946	.091350	.059978
12-14	.089723	.400753	.117851	.069827
15-21	.080319	.430933	.115085	.055566
22-30	.074105	.399924	.181035	.063995

RUN NO. 718 16M 10-17-62 2051-2204 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.06 M/SEC	WIND DIRECTION	310 DEG
STABLE	SIGMA A	8.0 DEG	SOLAR RADIATION	0
LAND	SIGMA E	4.8 DEG	NET RADIATION	-0.15

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

VARIANCES

U	0.72780E 00	0.68393E 00	0.45682E-00	0.45914E-00
V	0.50514E 00	0.39492E-00	0.36409E-00	0.15279E-00
W	0.17420E-00	0.17085E-00	0.16381E-00	0.54840E-01
T	0.62256E-01	0.26422E-01	0.20439E-01	0.15344E-01
E	0.70357E 00	0.62486E 00	0.49236E-00	

GUSTINESS RATIOS

U	0.16860	0.16344	0.13357	0.13391
V	0.14046	0.12419	0.11925	0.07725
W	0.08249	0.08169	0.07999	0.04628

COVARIANCES

U,V	-0.36902E-01	-0.40908E-01	-0.32991E-01	-0.20335E-01
U,W	-0.14217E-00	-0.13630E-00	-0.11044E-00	-0.87012E-01
U,T	0.83758E-01	0.87747E-01	0.52200E-01	0.66306E-01
V,W	0.15999E-01	0.77315E-02	0.56417E-02	0.30725E-02
V,T	-0.40418E-01	0.10266E-02	0.17267E-02	-0.16630E-02
W,T	-0.39263E-01	-0.31082E-01	-0.26636E-01	-0.16016E-01
WE	-0.28116E-01	-0.20063E-01	-0.20429E-01	

NORMALIZED COVARIANCES

U,V	-0.06086	-0.07871	-0.08089	-0.07678
U,W	-0.39928	-0.39875	-0.40371	-0.54835
U,T	0.39348	0.65275	0.54023	0.78998
V,W	0.05393	0.02976	0.02310	0.03357
V,T	-0.22792	0.01005	0.02002	-0.03435
W,T	-0.37702	-0.46261	-0.46034	-0.55214



RUN NO. 718 16M 10-17-62 2051-2204 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.40785 10E 00	0.27359 10E 00	0.96626 10E-01	0.24425 10E 00	0.86266 10E-01	0.57868 10E-01
0	-.080804	-.403677	.540249	.023101	.019920	-.460405
1	-.064097	-.350325	.493836	.016529	.011174	-.361336
2	-.043777	-.267012	.404990	.010990	-.003979	-.230896
3	-.029955	-.196585	.318023	.006572	-.018817	-.145030
4	-.026368	-.141303	.245619	.005502	-.026887	-.086821
5	-.028754	-.093220	.182444	.001120	-.024094	-.044714
6	-.025608	-.043888	.120435	-.004182	-.026264	-.005746
7	-.016186	-.012666	.076713	.006231	-.034834	.027798
8	-.010377	.005573	.047571	.024035	-.040682	.045392
9	-.009457	.015924	.017689	.029562	-.039707	.049524
10	-.014555	.022841	-.011206	.035280	-.031642	.050794
11	-.018179	.039756	-.040405	.034661	-.019754	.048452
12	-.020350	.061182	-.067001	.026462	-.018533	.050660
13	-.017294	.073664	-.083351	.024894	-.025056	.052715
14	-.007589	.077664	-.090417	.026284	-.018985	.050779
15	.008732	.076803	-.100902	.018096	.007291	.045905
16	.031041	.080982	-.116565	.010266	.005925	.045054
17	.042144	.085800	-.127436	-.001004	.016077	.047385
18	.039773	.095191	-.137242	-.012511	.024775	.049005
19	.032079	.094955	-.142212	-.028291	.029993	.053112
20	.029196	.094836	-.145357	-.044442	.027734	.061372
21	.032429	.095778	-.148951	-.045792	.026753	.076509
22	.030725	.092812	-.141915	-.046049	.031704	.076280
23	.035086	.091897	-.133569	-.045141	.034262	.071602
24	.029196	.090030	-.129530	-.046978	.034372	.073756
25	.024139	.088691	-.129018	-.049600	.035303	.069816
26	.027037	.093080	-.128718	-.037887	.032874	.072367
27	.028296	.101345	-.126455	-.021564	.024616	.083764
28	.020473	.092299	-.124969	-.000397	.013288	.095166
29	.014709	.076036	-.115019	.021255	.001351	.095515
30	.010633	.054716	-.093103	.034746	-.007425	.074385
31	.013313	.025229	-.069947	.036344	-.001588	.039059
32	.021961	.004404	-.043911	.018576	.000028	.015687
33	.030152	-.004755	-.021746	-.000366	.003882	-.007035
34	.039110	-.017787	-.000586	-.012590	.003625	-.038444
35	.048518	-.034727	.023565	-.024699	.011536	-.061298
36	.045733	-.050169	.044482	-.034704	.023761	-.079424
37	.032927	-.056885	.055257	-.031371	.023555	-.077818
38	.010257	-.048488	.052941	-.021896	.013649	-.064405
39	-.011916	-.040487	.041145	-.013732	.006491	-.046984
40	-.026057	-.030131	.028600	-.011940	.011498	-.031609
41	-.031646	-.023766	.025864	-.015174	.015344	-.019820
42	-.037506	-.023232	.023117	-.012517	.012668	-.005746
43	-.041599	-.020840	.017423	-.000681	.003718	.006761
44	-.045630	-.017505	.008445	.004337	-.005305	.007804
45	-.044272	-.016247	.007827	.010846	-.016887	.010743
46	-.048922	-.022398	.013787	.027741	-.030128	.002189
47	-.059174	-.027789	.022390	.038418	-.036877	-.012827
48	-.056930	-.020424	.027607	.042375	-.032062	-.021517
49	-.042916	-.018870	.028225	.030920	-.027043	-.027583
50	-.029289	-.020556	.024377	.027359	-.033533	-.031804
51	-.022970	-.022467	.023827	.020305	-.035936	-.036884
52	-.017228	-.016244	.022175	.011703	-.020561	-.027020
53	-.005868	-.003852	.012225	-.005338	-.000702	-.011685
54	.008998	.007437	.009069	-.012757	.014811	.000997
55	.021995	.011444	.006876	-.008821	.020551	.006891
56	.026427	.012707	.001024	-.006416	.021890	.017654
57	.023982	.015068	-.008810	-.005968	.019501	.024438
58	.014875	.015708	-.014290	.001464	.011072	.023148
59	.008953	.015911	-.018554	.011151	.004038	.021577
60	.005870	.009557	-.021821	.008499	.000014	.026314

RUN NO. 718 16M 10-17-62 2051-2204 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.40785 10E 00	0.27359 10E 00	0.96626 10E-01	0.24425 10E 00	0.86266 10E-01	0.57868 10E-01
1	-.015588	-.024102	.035237	-.005788	.010963	-.058142
2	-.021772	-.015633	.057999	-.014964	.016015	-.099166
3	-.016655	.006667	.069201	-.010658	.016337	-.114960
4	-.008179	.017219	.083636	-.011742	.020159	-.119478
5	.002424	.011686	.098699	-.009922	.025380	-.113471
6	.008229	.004265	.111184	-.008677	.026353	-.099094
7	.004587	.013033	.116282	-.014058	.032117	-.090190
8	.000848	.025615	.113328	-.016164	.042313	-.078432
9	.006649	.026613	.102821	-.012081	.043248	-.059823
10	.018576	.020458	.094605	-.007410	.037974	-.047262
11	.028400	.014155	.093590	.001247	.019925	-.039918
12	.033944	.008986	.093387	.011390	.002923	-.038268
13	.043490	.010384	.088900	.030701	-.005516	-.034280
14	.044301	.010724	.080463	.043171	-.010432	-.035104
15	.049641	.011889	.072003	.040300	-.014692	-.033734
16	.054160	.018942	.063370	.035103	-.017851	-.024096
17	.053563	.018810	.050397	.023716	-.025123	-.017969
18	.051131	.012731	.032304	.022795	-.032993	-.011860
19	.048813	.005304	.019117	.020780	-.039472	-.002747
20	.055113	-.006613	.020407	.015932	-.035427	.003596
21	.022396	-.013696	.018841	.013310	-.031482	.003094
22	.006212	-.018910	.014368	.011854	-.029176	-.000056
23	-.008384	-.022431	.001891	.006616	-.015827	.003999
24	-.018712	-.022386	-.013351	-.000909	.005009	.013913
25	-.025174	-.016155	-.023551	.002828	.011891	.025536
26	-.025001	-.010602	-.030154	.012301	.006609	.027607
27	-.030349	-.010562	-.034132	.012326	.000960	.023494
28	-.038739	-.005982	-.039324	.014009	-.002125	.018402
29	-.047715	-.001717	-.048446	.010256	.002453	.026771
30	-.047932	.000177	-.058043	.015393	.007013	.037345
31	-.051984	-.005434	-.060815	.014404	.013340	.052188
32	-.059758	-.010483	-.059837	.005539	.020121	.060495
33	-.058875	-.015775	-.056119	-.011110	.025156	.065940
34	-.055364	-.010095	-.049029	-.031910	.030494	.061509
35	-.052754	-.000527	-.046569	-.047233	.034089	.054600
36	-.045132	.009724	-.044542	-.049552	.028648	.047743
37	-.032555	.013883	-.041095	-.032735	.019041	.033218
38	-.025204	.012847	-.029379	-.018655	.012058	.016893
39	-.015748	.009239	-.016148	-.015531	.007042	.001967
40	-.002428	.006941	-.009561	-.016714	.006735	-.009937
41	.006559	.004885	-.005793	-.021680	.021528	-.018413
42	.002714	-.001188	.000725	-.033557	.038327	-.021520
43	-.006606	-.007135	.002138	-.035226	.040200	-.023599
44	-.008006	-.011695	.008082	-.027506	.040094	-.029600
45	-.012624	-.017095	.012341	-.013419	.031856	-.038135
46	-.006737	-.020697	.017770	.003947	.013613	-.039697
47	.001845	-.021150	.024339	.009585	.000654	-.028384
48	.009343	-.008199	.027523	.005080	-.001978	-.019131
49	.011897	.014026	.025884	.004111	.004178	-.022275
50	.009890	.025711	.026512	-.021604	.006526	-.024410
51	.005147	.022477	.031598	-.008218	.008180	-.024187
52	.001709	.010390	.037727	-.013762	.002495	-.021459
53	.000583	.002355	.038651	-.015618	-.007457	-.016218
54	.002527	-.003225	.031480	-.012797	-.018175	-.013655
55	.012467	-.007010	.025844	-.005643	-.017613	-.002798
56	.022178	-.010613	.019534	-.001590	-.016882	.007454
57	.026927	-.012933	.011209	-.000001	-.022282	.006636
58	.031888	-.005175	.003514	.000999	-.031390	.003664
59	.032131	.002775	-.004022	.012845	-.042234	.011105
60	.025869	.004619	-.016795	.016375	-.044336	.021210

RUN NO. 718 16M 10-17-62 2051-2204 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARANCE

M	U	V	W	T
	0.45683 10E 00	0.36412 10E 00	0.16385 10E 00	0.20438 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.827472	.710472	.651761	.808302
2	.612845	.398436	.318870	.555191
3	.450567	.199483	.145599	.378842
4	.337220	.074379	.056731	.259097
5	.252208	.001654	-.007647	-.168738
6	.178961	-.049437	-.068307	.094758
7	.113285	-.080505	-.108381	.028556
8	.069046	-.102843	-.118391	-.026640
9	.036143	-.123213	-.093478	-.060382
10	-.003691	-.130912	-.082022	-.078119
11	-.043076	-.127100	-.092312	-.090236
12	-.082917	-.126924	-.094161	-.109266
13	-.118452	-.108468	-.103177	-.128537
14	-.153362	-.090164	-.102440	-.136282
15	-.189665	-.075861	-.083664	-.141617
16	-.222596	-.058832	-.062952	-.149272
17	-.238700	-.043510	-.049351	-.163272
18	-.236398	-.040139	-.061972	-.172970
19	-.231903	-.047689	-.078356	-.175884
20	-.227674	-.052978	-.076115	-.174798
21	-.223887	-.053981	-.064528	-.173945
22	-.215375	-.068146	-.059901	-.172784
23	-.211052	-.083535	-.066289	-.175675
24	-.209982	-.089236	-.082256	-.191572
25	-.204208	-.092249	-.088320	-.201102
26	-.195181	-.106508	-.099941	-.201074
27	-.188862	-.124881	-.117775	-.193152
28	-.182979	-.114763	-.126714	-.190252
29	-.167812	-.087940	-.132784	-.184013
30	-.143404	-.065158	-.114201	-.151893
31	-.105176	-.050938	-.048971	-.102422
32	-.070993	-.042313	-.000341	-.052558
33	-.047228	-.027481	.021759	-.003179
34	-.022062	-.008830	.041269	.035533
35	-.002690	.006604	.055178	.067367
36	.016986	.018274	.074330	.098935
37	.041413	.011588	.081329	.120099
38	.057413	.008492	.070322	.121736
39	.064933	.020222	.056360	.104221
40	.072422	.036109	.056120	.080417
41	.080053	.040676	.058963	.063697
42	.078156	.046441	.044337	.053428
43	.070825	.036738	.027768	.047055
44	.060288	.016385	.020536	.040557
45	.047573	-.010905	.010664	.025840
46	.034425	-.039127	.018097	.023864
47	.028842	-.039709	.019634	.036898
48	.026168	-.020663	.009232	.047174
49	.029871	-.020766	-.006142	.045393
50	.034946	-.026358	.001018	.043233
51	.038893	-.022141	.001198	.038733
52	.034368	-.000911	-.018891	.028494
53	.024130	.035128	-.021439	.015682
54	.010035	.053647	-.025009	.007631
55	-.002237	.051215	-.017293	.001781
56	-.005911	.048407	-.018452	-.013170
57	-.004593	.050190	-.030205	-.029673
58	-.004040	.049383	-.029361	-.041246
59	-.004047	.040822	-.018034	-.047175
60	-.005466	.031958	-.008566	-.051415

RUN NO. 718 16M 10-17-62 2051-2204 EST  
 61 POINT RUNNING MEAN, NL 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	-.023955	-.007893	.008628	.006627	-.007182	-.014591
1	-.409819	-.093309	.068578	.174717	-.079983	-.154890
2	-.726476	-.153063	.089717	.243690	-.100533	-.255107
3	-.626410	-.191628	.100230	.156069	-.063989	-.325741
4	-.145142	-.127795	.064089	-.048156	.016882	-.221799
5	-.115735	-.074936	.036123	-.212766	.067025	-.153190
6	.034213	-.077903	.033447	-.268033	.090644	-.210699
7-8	-.046514	-.059673	.022983	.113670	.023065	-.171574
9-11	-.179972	-.037490	.014521	.041308	.018094	-.106893
12-15	-.004427	-.020213	.007442	.045972	.013093	-.060929
16-20	-.095135	-.007421	.003185	-.013480	.006838	-.039322
21-27	-.044678	-.008464	.002286	.009356	.007777	-.031825
28-36	-.006137	-.003595	.000859	.011205	-.002020	-.015322
37-47	-.012232	-.001475	.000191	-.001733	.001471	-.010060
48-60	-.008612	-.001131	.000201	.002754	.000451	-.004593

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
0	.017896	.029431	.191559	.123260	.023760	-.042111
1	.556616	.106055	.333848	.189455	-.016315	-.116715
2	.632697	.189258	.418678	.027346	.039655	-.186589
3	-.120915	.161148	.232482	-.177064	.117828	-.126736
4	-.555812	.022260	.090285	-.143235	.104465	-.082221
5	-.326036	-.078029	.079515	-.125476	.053720	-.105657
6	-.048533	-.025246	.042107	-.094110	-.011457	-.069468
7-8	-.010894	-.020747	.018839	.063258	-.012694	-.051372
9-11	-.062000	-.040998	-.003337	-.031461	-.000255	-.014948
12-15	-.082734	-.028171	.008835	-.002527	.011014	-.010155
16-20	.000008	-.071493	.008722	-.008313	-.000897	-.002936
21-27	.010125	-.013750	.003001	-.000324	.003055	-.002141
28-36	.003376	-.005180	-.000476	.009223	-.001241	.001601
37-47	.002981	-.000183	-.000795	.004380	.000023	.000159

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-01	10E-02
0	.056942	.012172	.003321	.016572
1	.493024	.166037	.051919	.159330
2	.670213	.242339	.094636	.242988
3	.751720	.293604	.129211	.293517
4	.481998	.251054	.100792	.192217
5	.285048	.243139	.089091	.125410
6	.244617	.284147	.114228	.144986
7-8	.168487	.227497	.091598	.107739
9-11	.149147	.141528	.070050	.071539
12-15	.086698	.108037	.049000	.041061
16-20	.056019	.074894	.030055	.029580
21-27	.038653	.046875	.030026	.020736
28-36	.018899	.031197	.017393	.010928
37-47	.013612	.020290	.011702	.006150
48-60	.008751	.013042	.008123	.003515

RUN NO. 71B 16M 10-17-62 2051-2204 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
	0.26479 10E 00	0.15859 10E 00	0.83874 10E-01	0.91568 10E-01	0.48428 10E-01	0.29004 10E-01
0	-.076796	-.548660	.790550	.033554	-.034340	-.552216
1	-.040711	-.159800	.441549	.062253	-.048171	-.123745
2	.013982	-.045441	.214999	-.058038	.042121	-.064401
3	.043214	-.011555	.077594	-.028415	.041797	.005935
4	.017892	-.033435	.001238	-.044645	.031044	-.029765
5	-.005850	.052717	-.132168	.023438	.021950	.049719
6	.057154	.057988	-.195796	-.027455	.044077	.081609
7	.063144	.066062	-.229447	-.001763	.042297	.078139
8	.017739	.154862	-.248148	-.038059	.034338	.106572
9	.000227	.076020	-.155781	-.014599	-.011376	.056007
10	-.042339	.019327	-.070527	.042863	-.035676	-.002038
11	-.030496	.068875	-.168093	.085557	-.032521	.099608
12	-.061800	.095758	-.200429	.084105	-.045033	.110633
13	.023683	.057978	-.094607	-.057656	-.030293	.038756
14	.007159	.069520	-.094630	-.048177	-.033207	.061162
15	.002949	-.041429	.008649	.036734	-.040922	-.023474
16	-.013021	-.001665	.009704	.013796	-.041951	.038633
17	.027677	.019417	.083808	-.046013	.007878	.018285
18	-.033284	.015408	.093345	-.021563	.003182	-.007657
19	-.012553	-.067344	.167983	.008885	.029902	-.114207
20	-.067228	-.057263	.173045	.026269	-.060438	-.080674
21	-.049563	-.099016	.127064	.070715	-.061582	-.083782
22	-.057605	-.048379	.034418	.097616	-.045541	-.049016
23	.055041	-.003355	-.021058	-.039267	.082048	-.004523
24	.099935	.055621	-.086847	-.108891	.127417	.059705
25	.082889	-.023111	-.038097	-.094620	.075426	-.008983
26	.006139	.060468	-.080530	-.088432	.049246	.010620
27	-.009792	.046644	-.097740	-.049140	.027416	.112216
28	-.020043	-.045772	.005855	.013872	.008111	-.046067
29	-.005416	-.031358	.016277	.021231	-.050062	-.062629
30	-.019510	.016918	.028503	.022532	-.076506	.009585

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-01	10E-02	10E-03	10E-02
0	.010376	-.020466	.001735	.000401	.027512	-.002734
1	.148786	-.321481	.028406	-.022064	.467524	-.049495
2	.120566	-.641031	.066145	-.050180	.616245	-.109409
3	-.099948	-.944713	.111534	-.026720	.082253	-.164641
4	-.243281	-.719958	.089873	.015062	-.589396	-.117681
5	-.369592	-.488387	.055185	.103637	-.710729	-.082865
6	-.476616	-.448047	.054147	.142940	-.604918	-.093569
7	-.093784	-.320273	.039960	.007690	-.091936	-.067879
8	.089679	-.283467	.020363	-.008934	-.155231	-.050774
9-11	-.144745	-.299625	.014200	.107645	-.246479	-.041010
12-14	-.243130	-.367128	.023831	.022758	-.361940	-.075964
15-21	.015471	-.322239	.012697	.015232	-.013032	-.051094
22-30	-.032737	-.288464	.011148	-.063111	.239687	-.072296

RUN NO. 718 16M 10-17-62 2051-2204 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
	0.26479 10E 00	0.15859 10E 00	0.83874 10E-01	0.91568 10E-01	0.48428 10E-01	0.29004 10E-01
1	.020232	.045132	-.102680	.037420	.043483	-.122400
2	-.035859	-.011486	-.057387	.026079	-.020894	-.015254
3	-.031961	.021503	.003499	.040154	-.011092	.009368
4	.032150	.023165	.004977	-.011998	.005581	-.011737
5	.065796	.059589	.015746	.015776	-.063194	-.064086
6	.085015	.023170	-.024662	.060555	-.093987	-.006019
7	.092632	.058423	-.030612	.067986	-.070528	-.018637
8	.078410	.047792	-.019551	.025552	-.024855	-.046458
9	.067310	.027465	.003178	.056156	-.017382	-.035094
10	-.011650	-.005668	-.038245	-.024662	.007605	-.013590
11	-.012842	.010961	.063158	.000171	.020740	-.028134
12	-.021270	-.032687	.028236	.034034	-.029061	.000167
13	-.046638	-.023157	.008311	-.015603	.023048	.014928
14	-.073583	-.019523	.013071	-.090536	.062297	.015572
15	-.037396	-.045396	.018831	.001343	.049849	.012709
16	-.096736	-.031862	-.003779	-.115601	.110697	.044195
17	-.057552	.001569	-.028141	-.020934	.089467	.019497
18	-.105084	.019848	-.037891	-.064752	.099692	.009039
19	-.055955	.035257	-.068998	-.035095	.019850	.034827
20	-.021555	-.032475	-.001681	.020626	-.001456	.015769
21	-.003605	-.000985	.011304	-.032695	-.029075	.005473
22	.034679	.001241	-.005861	.024497	-.040729	-.010580
23	.054176	.021078	-.007259	.010804	-.053677	.008960
24	.095448	-.008443	-.011291	.002965	-.038167	-.010944
25	.145161	-.027336	.009838	.117253	-.144943	.004201
26	.012219	.000493	.008473	-.012969	-.047023	-.009214
27	.037301	-.014456	-.006435	.002138	-.041933	.036980
28	.067642	.022811	.014250	.083823	-.052657	-.032875
29	.030393	.026083	-.003452	.043641	-.046971	-.023144
30	.040811	-.014952	.023331	.035526	-.064449	-.008738

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	.051770	.123206	.046271	.01503	.012636	-.232260
2	.581912	.202860	.054437	.138893	-.073185	-.407579
3	.877215	.269096	.005029	.192261	-.129203	-.401267
4	.119171	.149914	-.030235	.027327	-.011347	-.094952
5	-.317157	-.057093	.061390	-.054683	.047793	.028791
6	-.262464	-.109959	.146138	-.005493	.014636	-.077672
7	-.294659	-.025572	.123183	.011727	.042819	-.153347
8	-.093957	.009113	.082662	.004828	.070264	-.178603
9-11	.141318	.028145	.034854	.074009	-.002020	-.174691
12-14	.121302	.017581	.102572	.018545	-.007305	-.301140
15-21	.056834	.069002	.052613	-.006865	.033152	-.307805
22-30	-.114260	.097681	.006127	.047828	.007360	-.172946

RUN NO. 718 16M 10-17-62 2051-2204 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.45861 10E 00	0.15289 10E 00	0.54841 10E-01	0.15339 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.497669	.085644	-.049196	.379372
2	.227023	.008263	-.006808	.158813
3	.068438	-.088433	-.083297	.026199
4	-.010054	-.117734	.071615	.016677
5	-.159161	-.062576	-.079184	-.116585
6	-.222629	.005199	.001779	-.215472
7	-.273479	-.058777	.011236	-.211001
8	-.300568	.079050	-.110069	-.179987
9	-.196703	-.064112	-.101285	-.127933
10	-.079235	-.054373	.026733	-.054515
11	-.154339	-.058177	-.104032	-.195838
12	-.202592	-.137023	-.009900	-.214892
13	-.114740	-.115178	-.039979	-.086280
14	-.083422	-.044201	-.018144	-.097295
15	.040400	-.050374	-.050908	-.004276
16	.058214	.019251	-.014005	-.012576
17	.062709	-.003551	-.084300	.077551
18	.087933	-.051313	-.029404	.078761
19	.148163	.018470	.002633	.187953
20	.173632	.108468	.041746	.172437
21	.161797	.029150	.080248	.102898
22	.074464	.114844	.076623	.008464
23	-.010904	.051702	-.017739	-.013004
24	-.091754	-.015843	-.073725	-.096486
25	-.049805	.024134	-.028876	-.070514
26	-.095731	.039311	-.004962	-.059584
27	-.092879	.099350	-.066679	-.073495
28	-.036076	.041097	.079909	.055309
29	-.038305	-.043425	.026656	.049170
30	.010241	-.037079	-.066335	.022526

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.012368	.036991	.010230	.003315
1	.169642	.366353	.140832	.054999
2	.398680	.657509	.202982	.119531
3	.692402	.791486	.237079	.194111
4	.590372	.501360	.183102	.153633
5	.385503	.505119	.173526	.097289
6	.344705	.765969	.170907	.107367
7	.250220	.928360	.126540	.089111
8	.152752	.956137	.177412	.054098
9-11	.119394	.662618	.226466	.036293
12-14	.163253	.547701	.217640	.068984
15-21	.103351	.565239	.259837	.039954
22-30	.096787	.873685	.361577	.048227

RUN NO. 72A 16M 10-17-62 2251-0006 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.16 M/SEC	WIND DIRECTION	314 DEG
STABLE	SIGMA A	6.3 DEG	SOLAR RADIATION	0
LAND	SIGMA E	4.2 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
<b>VARIANCES</b>				
U	0.48519E-00	0.35931E-00	0.26814E-00	0.22267E-00
V	0.20850E-00	0.18240E-00	0.17999E-00	0.66866E-01
W	0.89981E-01	0.89616E-01	0.82888E-01	0.32216E-01
T	0.16275E-00	0.19156E-01	0.15551E-01	0.10014E-01
E	0.39183E-00	0.31569E-00	0.26551E-00	

**GUSTINESS RATIOS**

U	0.16744	0.14409	0.12448	0.11343
V	0.10976	0.10267	0.10198	0.06216
W	0.07211	0.07196	0.06921	0.04315

**COVARIANCES**

U,V	-0.16399E-01	-0.19747E-02	-0.18303E-03	-0.44565E-02
U,W	-0.85200E-01	-0.88130E-01	-0.69954E-01	-0.54067E-01
U,T	0.49353E-01	0.51634E-01	0.36766E-01	0.35503E-01
V,W	0.72105E-02	0.83300E-02	0.61410E-02	0.58128E-02
V,T	0.35321E-01	-0.35110E-03	0.23516E-03	0.82958E-04
W,T	-0.25503E-01	-0.20120E-01	-0.17349E-01	-0.92951E-02
WE	-0.14941E-01	-0.65026E-02	-0.61948E-02	

**NORMALIZED COVARIANCES**

U,V	-0.05156	-0.00771	-0.00083	-0.03652
U,W	-0.40776	-0.49113	-0.66923	-0.63835
U,T	0.17563	0.62237	0.56936	0.75185
V,W	0.05264	0.06515	0.05028	0.12524
V,T	0.19175	-0.00594	0.00444	0.00321
W,T	-0.21075	-0.48561	-0.48323	-0.51751



RUN NO. 72A 16M 10-17-62 2251-0006 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21970 10E 00	0.14908 10E 00	0.64585 10E-01	0.12211 10E 00	0.52900 10E-01	0.35895 10E-01
0	-.000822	-.469336	.569241	.050382	.004283	-.483147
1	-.006528	-.406447	.515464	.040112	.002148	-.381218
2	-.007984	-.295152	.409621	.029973	.004829	-.237342
3	-.006009	-.197800	.308181	.026891	.008218	-.137823
4	.000076	-.123853	.218911	.020722	.012000	-.075978
5	.007836	-.072951	.146064	.014235	.021197	-.032689
6	.012527	-.036353	.088849	.016584	.027180	-.007044
7	.018086	-.002433	.041479	.018997	.025964	.011089
8	.025832	.024089	-.000113	.003436	.022264	.029362
9	.027112	.049873	-.034392	-.018442	.023930	.044488
10	.016623	.063142	-.059210	-.032501	.028294	.058544
11	.009401	.068227	-.075305	-.031857	.024665	.070266
12	.003355	.073191	-.087529	-.019529	.016344	.079909
13	-.009694	.081285	-.096306	-.008110	.004300	.089351
14	-.025570	.093172	-.101065	-.009216	-.009805	.102302
15	-.043125	.101369	-.098656	-.002695	-.016169	.099232
16	-.049753	.103221	-.095994	.014965	-.023689	.088099
17	-.054215	.102253	-.097153	.033475	-.034790	.080173
18	-.051453	.099215	-.099555	.039225	-.042851	.070916
19	-.029884	.097125	-.104240	.022108	-.035981	.063863
20	-.004308	.095377	-.109295	-.006548	-.024787	.057878
21	.013848	.096715	-.119194	-.032786	-.013899	.052504
22	.021007	.091350	-.127973	-.039160	-.009526	.054459
23	.025062	.090070	-.130890	-.038358	-.007088	.059723
24	.023368	.077605	-.125184	-.031821	-.012331	.057562
25	.013951	.065794	-.117349	-.020544	-.020623	.054251
26	.014554	.064836	-.114546	-.020251	-.024310	.045509
27	.014254	.067071	-.104984	-.003715	-.030012	.036897
28	.007180	.065900	-.092904	.014880	-.034467	.032902
29	-.003160	.050944	-.075895	.028696	-.032650	.029939
30	-.014933	.028072	-.067640	.032544	-.027979	.016368
31	-.018292	.000950	-.059007	.023945	-.024510	-.007435
32	-.017384	-.014562	-.044206	.002851	-.028396	-.020098
33	-.013979	-.018037	-.027587	-.011724	-.025547	-.020564
34	-.012631	-.020981	-.011181	-.018674	-.019440	-.018007
35	-.008816	-.015527	-.002580	-.013781	-.015778	-.011003
36	-.004348	-.013094	-.005022	-.006069	-.013255	-.002461
37	-.002003	-.018977	-.009005	-.000196	-.008699	-.001874
38	-.004300	-.024151	-.006401	-.007375	-.002542	-.006108
39	-.007345	-.020478	.000836	-.014987	-.002686	-.011317
40	-.000399	-.023061	.006566	-.019854	.002115	-.016351
41	.005939	-.024552	.005966	-.019754	.015213	-.017039
42	.012052	-.028007	.006682	-.012745	.028734	-.019384
43	.023802	-.035319	.014357	-.014637	.033693	-.023667
44	.039777	-.040250	.025461	-.024110	.036630	-.030452
45	.050848	-.050761	.033007	-.039271	.043819	-.033787
46	.052338	-.061674	.040167	-.043038	.054389	-.036535
47	.042634	-.063287	.039077	-.034816	.059304	-.034200
48	.028997	-.057241	.033858	-.016050	.046874	-.028152
49	.011930	-.053759	.031008	.007277	.030666	-.025488
50	.001286	-.049867	.025737	.019213	.032461	-.023357
51	-.004238	-.033354	.019400	.013392	.043045	-.017033
52	-.003849	-.018711	.011270	.017066	.039306	-.009372
53	-.013841	-.013616	.005091	.020892	.025291	-.004003
54	-.023242	-.006545	-.003493	.023370	.012729	-.000304
55	-.022480	.005935	-.014021	.016013	.008574	.003161
56	-.011957	.027291	-.021955	.008561	.004923	.010134
57	.005065	.051120	-.028731	.002285	.007406	.013703
58	.022431	.068751	-.040165	-.002605	.017309	.021028
59	.026465	.071977	-.050051	-.004630	.017596	.031371
60	.020784	.066835	-.054504	.000598	.008715	.034322

RUN NO. 72A 16M 10-17-62 2251-0006 EST  
 61 PCINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21970 10E 00	0.14908 10E 00	0.64585 10E-01	0.12211 10E 00	0.52900 10E-01	0.35895 10E-01
1	-.003871	-.023120	.035668	.006600	-.018716	-.054172
2	-.001823	-.019868	.054799	.005961	-.027657	-.080917
3	.006582	-.015756	.066817	.005217	-.026787	-.080323
4	.014120	-.016121	.073753	.013103	-.025793	-.074079
5	.013329	-.018390	.080977	.024012	-.030798	-.069233
6	.016211	-.018253	.084470	.036312	-.040882	-.070689
7	.013590	-.017847	.081354	.041149	-.053940	-.068644
8	.013892	-.020511	.070957	.041028	-.066708	-.060606
9	.015850	-.020751	.054563	.030517	-.065160	-.043333
10	.023647	-.014930	.044322	.024120	-.050061	-.032669
11	.022615	-.009035	.041974	.023097	-.037640	-.030648
12	.014732	-.004472	.035130	.018506	-.026175	-.025063
13	.014540	.005916	.028943	.006156	-.015459	-.016113
14	.016213	.012587	.026734	-.002556	-.008911	-.013729
15	.020177	.016629	.023747	-.006091	-.013610	-.012042
16	.016224	.015946	.015226	-.006055	-.010046	-.006804
17	.010451	.023824	.007836	.000189	-.002308	-.005104
18	.011955	.027762	.003587	.002241	.000236	-.004240
19	.009326	.016098	.004728	-.005603	.003145	.001182
20	-.005602	.004962	.008333	-.008748	.001908	.012130
21	-.015606	.000212	.008927	-.015958	.006535	.015900
22	-.016987	.003106	.009201	-.018256	.007703	.017466
23	-.014502	.007093	.007451	-.021892	.014362	.010529
24	-.010405	.002308	.009623	-.021853	.018555	-.003108
25	-.009819	-.002819	.008060	-.022671	.017761	-.007920
26	-.007193	.004065	-.000096	-.006238	.012033	-.007492
27	-.008006	.016200	-.012383	.005225	.007984	.000641
28	-.006191	.022520	-.021088	.003444	.004953	.008916
29	.003260	.024657	-.026367	-.000589	.009978	.018273
30	.013793	.016913	-.025635	-.002926	.012502	.020507
31	.011893	.010261	-.017485	-.005883	.005561	.014245
32	.005329	.007867	-.010472	-.011083	.006636	.008440
33	.002472	.014139	-.016342	-.010097	.008482	.006073
34	.000822	.015898	-.018333	-.012854	.009864	.006647
35	.000342	.008869	-.010528	.007028	.010561	.001879
36	.003268	.007525	-.006111	.017854	.000563	-.009176
37	-.001319	.006470	-.006858	.013133	-.005775	-.014213
38	-.002899	.004093	-.002002	.017425	-.011225	-.015927
39	-.000224	.004957	.001026	.007069	-.014026	-.016632
40	.003615	.005853	.002702	-.006845	-.010818	-.006270
41	.006190	.006664	.002352	-.010083	-.007315	-.000108
42	.004238	.000571	.005718	-.015699	.000452	.003426
43	.002713	-.013278	.011905	-.009704	.002528	.007214
44	.005786	-.029424	.014997	-.001689	.002070	.012140
45	.005445	-.034171	.011882	.005462	-.000001	.018136
46	.003065	-.027597	.006860	.004782	.000305	.022534
47	.003403	-.017641	.004466	.010757	-.003168	.019688
48	.003967	-.015225	.004743	.027513	.002425	.018290
49	-.002749	-.018524	.009438	.030822	.017190	.015563
50	-.009098	-.018559	.017657	.032180	.019931	.003020
51	-.015344	-.025450	.018483	.020674	.023512	-.003181
52	-.018018	-.024916	.014020	.008030	.025581	-.001295
53	-.023603	-.019239	.007196	-.007621	.024638	.002899
54	-.022396	-.019962	.004239	-.009321	.019711	-.000257
55	-.020239	-.019004	.005997	-.008693	.014268	-.004139
56	-.015832	-.013849	.005679	-.005580	.009279	-.008398
57	-.011939	-.003358	.005537	-.005429	.011002	-.009317
58	-.010811	.007069	-.003147	-.002531	.006074	-.007910
59	-.013716	.008823	-.012476	-.002643	-.000792	.002601
60	-.026421	.003369	-.013787	-.008759	.003940	.003250

RUN NO. 72A 16M 10-17-62 2251-0006 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.26823 10E 00	0.17995 10E 00	0.82856 10E-01	0.15551 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.826156	.701699	.654747	.795795
2	.604047	.408248	.311230	.536352
3	.429732	.229433	.130630	.358803
4	.294603	.119168	.045946	.228862
5	.191164	.038569	-.002028	.134467
6	.104469	-.021669	-.016458	.065715
7	.029098	-.057404	-.029918	.012460
8	-.032479	-.079227	-.041006	-.031564
9	-.079397	-.096725	-.051021	-.068125
10	-.112602	-.112325	-.054409	-.093369
11	-.130626	-.107264	-.059765	-.109533
12	-.143375	-.098551	-.076028	-.123578
13	-.152456	-.092180	-.096414	-.136317
14	-.149120	-.107786	-.130944	-.146661
15	-.151268	-.134874	-.150580	-.140729
16	-.155314	-.150847	-.160876	-.129469
17	-.166446	-.146474	-.168777	-.126452
18	-.173749	-.141968	-.151196	-.128849
19	-.175079	-.146145	-.122017	-.133108
20	-.184410	-.142916	-.086770	-.143854
21	-.197030	-.140434	-.063805	-.148376
22	-.198548	-.133051	-.056067	-.154470
23	-.188338	-.129928	-.053024	-.163365
24	-.166327	-.124189	-.064094	-.157744
25	-.153641	-.120267	-.080650	-.147295
26	-.148207	-.112927	-.090252	-.136995
27	-.144136	-.105695	-.094383	-.125982
28	-.135802	-.093138	-.095201	-.114327
29	-.117953	-.055895	-.085261	-.102659
30	-.093994	-.023353	-.043957	-.089445
31	-.064333	-.001551	.018218	-.061922
32	-.038716	.001262	.042264	-.026448
33	-.023464	-.001238	.028057	-.001489
34	-.009452	.006482	.02670.	.007367
35	.004288	.017231	.023842	.004516
36	.007012	.014694	.014443	-.001997
37	.011606	.022260	.014950	-.011176
38	.018735	.042435	.014727	-.012179
39	.019921	.052579	.014682	-.007649
40	.027430	.057004	.000752	.000348
41	.034178	.059933	-.008370	.004169
42	.044133	.062299	.000741	.011337
43	.060286	.066971	.023968	.016089
44	.073941	.060219	.050517	.021899
45	.072099	.070179	.059990	.018957
46	.073852	.077936	.058911	.018518
47	.078241	.078981	.055056	.018830
48	.078314	.063343	.051462	.014654
49	.075188	.045164	.046272	.015127
50	.060436	.028993	.032994	.016986
51	.035551	.019281	.019681	.012719
52	.011261	.028418	-.000743	.001322
53	-.003323	.031182	-.003759	-.008950
54	-.016192	.032177	.013066	-.013412
55	-.038178	.036470	.011057	-.020487
56	-.065029	.045596	-.008657	-.029290
57	-.085658	.052187	-.022877	-.027860
58	-.101623	.042655	-.030600	-.029246
59	-.117583	.016694	-.040806	-.031478
60	-.120239	.004414	-.048116	-.027159

RUN NO. 72A 16M 10-17-62 2251-0006 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	-.017943	-.003657	.042302	.007180	-.055737	-.005869
1	-.061431	-.043512	.407333	.086787	.137425	-.077444
2	.043001	-.079812	.544265	.074622	.612767	-.143586
3	.097362	-.108098	.604478	.065673	.473256	-.206339
4	.084166	-.084052	.435801	.079124	-.08132	-.182683
5	.090430	-.058864	.314953	.044479	-.106923	-.142253
6	-.100123	-.048117	.278447	.048792	-.246375	-.116657
7-8	-.244707	-.040301	.217706	.103509	-.341080	-.091180
9-11	.049946	-.025636	.097248	-.063836	.071249	-.062156
12-15	-.004235	-.014648	.061517	.025278	-.052493	-.051475
16-20	.017266	-.009694	.031012	.025052	.012348	-.030245
21-27	.005532	-.003907	.013534	-.010502	.018499	-.018258
28-36	.004587	-.002054	.007608	.009272	-.006185	-.010869
37-47	.003745	-.001064	.003027	.002537	.011484	-.005233
48-60	.003272	-.000322	.000603	.001344	.004296	-.002740

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-03	10E-02	10E-02	10E-03	10E-03
1	.099348	.726734	.087155	.014831	-.326473	-.318300
2	.104140	.086319	.109857	.042751	-.527316	-.443858
3	.137620	-.861442	.140475	.105717	-.789305	-.610655
4	.129862	-.828836	.109815	.120770	-.767780	-.649825
5	.040191	-.802352	.079725	.085675	-.443282	-.521903
6	-.039839	-.973492	.079772	.032693	-.235592	-.412952
7-8	-.028814	-.291214	.050488	.003440	-.047367	-.305950
9-11	.011355	.132852	.017740	-.022161	.106040	-.211215
12-15	-.009861	-.203982	.001412	-.013463	-.011821	-.082768
16-20	-.017343	-.198848	.006332	-.003100	-.129992	-.094180
21-27	-.006145	-.095553	.005437	.009777	-.009592	-.058668
28-36	-.007007	-.117413	.001165	.003804	-.013059	-.009211
37-47	.004201	-.052243	.000555	.000071	.008282	.000968
48-60	-.002439	-.010311	.000610	-.001196	-.000702	.004763

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.022771	.002427	.018113	.012082
1	.222866	.066519	.289631	.123102
2	.325410	.138233	.523505	.166416
3	.387943	.190455	.721327	.193392
4	.287538	.149544	.619446	.150756
5	.211346	.112133	.476539	.112902
6	.186110	.104942	.402847	.103996
7-8	.151628	.099209	.333000	.087552
9-11	.083110	.074443	.364841	.051051
12-15	.049949	.045150	.253811	.037363
16-20	.033979	.036020	.202167	.022570
21-27	.020324	.022656	.135044	.014690
28-36	.011931	.016615	.090225	.009419
37-47	.007913	.010588	.057988	.005668
48-60	.004990	.007665	.037050	.002909

RUN NO. 72A 16M 10-17-62 2251-0006 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
	0.12201 10E-00	0.84715 10E-01	0.47239 10E-01	0.46413 10E-01	0.25881 10E-01	0.17969 10E-01
0	-.036524	-.638224	.751562	.125240	.003205	-.517282
1	.009584	-.170283	.304281	-.004532	.028709	-.092390
2	-.014314	-.061280	.122429	-.003594	-.023339	-.035939
3	.016166	-.072437	.024233	.009680	-.020397	-.043321
4	.035300	-.028100	-.041189	-.029381	.060315	-.008281
5	.036525	-.034405	-.086569	-.016144	.103389	-.026207
6	.027043	.142610	-.129835	.013918	.034520	.069128
7	-.029155	.076751	-.106744	.023429	-.040611	.056447
8	-.058111	.060037	-.058919	.055689	-.039597	.030863
9	-.025182	.168824	-.132158	-.017016	-.034467	.105054
10	-.020056	.167153	-.156745	.030209	-.015195	.122558
11	-.011174	.141923	-.115487	-.027732	.010822	.080718
12	-.036823	.117574	-.096190	.020052	-.014743	.104524
13	.039108	.115381	-.126282	-.025752	-.014613	.108999
14	.050090	.111202	-.104145	-.075324	.005840	.097537
15	-.040675	-.001897	-.042915	.058115	-.034172	.028466
16	-.013896	-.011663	-.035289	-.028690	-.071563	.016220
17	.030193	-.051399	-.006375	-.069670	.018567	-.029038
18	.065135	-.065683	.043155	-.073425	.013590	-.035646
19	.029163	-.096294	.102896	-.024001	.035701	-.075514
20	-.009150	-.044567	.087059	.006401	.009241	-.054080
21	.013534	-.048829	.053199	-.006894	-.041838	-.078062
22	.063606	-.078664	.088289	-.009971	.044608	-.104592
23	.020209	-.083117	.109078	-.037739	.034057	-.062269
24	.039339	-.070666	.087095	.017294	.055187	-.090315
25	-.047388	-.050279	.067732	.043768	-.011933	-.074069
26	-.067249	-.040760	.026280	.078624	-.033303	-.047970
27	-.060907	.098893	-.031472	.036626	-.001620	.028422
28	-.048076	.048302	.001721	.008280	-.028146	.017500
29	.021674	.087377	-.018388	-.007468	.007936	.105148
30	-.013454	.078249	-.070996	-.054472	.012747	.148310

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-02
0	.008742	.000764	.003758	.007239	.034047	.000156
1	-.024592	-.179717	.132938	.446278	.193433	-.025622
2	.014074	-.496026	.319486	.389683	.245766	-.079995
3	.106423	-.724092	.442957	-.105005	.191047	-.108104
4	.039931	-.443253	.307014	-.167914	-.063351	-.052415
5	-.061925	-.174896	.229553	.201159	-.158867	-.022810
6	-.118910	-.157510	.239470	.317108	-.230126	-.030814
7	-.156985	-.206572	.217528	.418689	-.346063	-.035864
8	-.103595	-.181524	.177175	.517111	-.293760	-.031012
9-11	.020393	-.157046	.126280	.187171	.221214	-.030187
12-14	.063397	-.200206	.096264	-.028900	.322891	-.033991
15-21	-.027425	-.189263	.099879	.365718	-.102806	-.035131
22-30	-.055580	-.230847	.104060	.376059	-.079620	-.046410

RUN NO. 72A 16M 10-17-62 2251-0006 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED QUADRATURE COVARIANCE

K	U,V	U,W	U,T	V,W	V,T	W,T
	0.12201 10E-00	0.84715 10E-01	0.47239 10E-01	0.46413 10E-01	0.25881 10E-01	0.17969 10E-01
1	.009486	.004744	.087697	.033219	-.036727	-.084977
2	-.004942	-.018039	.089147	-.026404	.012521	-.005156
3	-.000616	.003907	.077622	.027775	.024419	-.015126
4	-.023302	-.050353	.079021	-.030786	.018392	-.004154
5	-.036571	-.055247	.077449	.002558	.052622	.025140
6	-.058526	-.035670	.047952	-.058009	.048892	-.007453
7	.019938	-.052808	.019772	.003110	-.019036	.018263
8	-.010533	-.049252	.021316	-.056613	.034765	.042633
9	-.008225	-.045195	.041608	.047697	-.021915	-.017074
10	-.000632	-.047762	-.033062	.038225	.030410	.058104
11	-.039645	-.025021	-.008951	-.023297	.072530	.014529
12	.045414	-.028073	-.039553	.093025	.010957	.040190
13	.001502	.024735	-.041332	-.042194	-.038972	.013042
14	.043246	.016851	-.056422	.050448	-.067411	.009593
15	.036861	.052629	-.046315	.000101	-.043070	-.016011
16	.059308	.071090	-.019909	.006900	-.072347	-.043399
17	.065818	.077487	-.053844	.050596	-.060888	-.050190
18	-.065185	.047621	-.028252	-.104398	.034342	-.020945
19	.059551	.027157	-.031455	.030649	-.039372	-.001649
20	-.015783	.004998	.006066	.005003	-.005231	.040432
21	.003691	-.037815	.057597	.025438	.004550	.014580
22	-.036429	-.001342	.009704	-.067110	.016270	-.002482
23	-.054649	.008883	.007366	-.025338	.039441	-.025605
24	.006339	-.002721	.011502	.011929	.031112	-.025350
25	.007572	-.000225	-.019940	.008411	-.010878	.030621
26	.009210	-.027615	.024061	-.010319	.018947	-.015815
27	-.029074	.003054	.020262	-.075898	.070828	-.005435
28	.002946	-.024752	.015100	.049310	.004199	.005705
29	.038374	-.038870	.040049	-.013041	-.050358	-.010185
30	-.040066	-.017252	-.013982	-.049593	.028192	.003700

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	.030719	-.084997	.015559	.117112	.010923	.112658
2	-.076553	-.175603	.086236	-.035009	.269879	.113913
3	-.161503	-.175625	.156252	-.379616	.408769	.019618
4	-.050988	.005247	.118743	-.377112	.040455	-.165299
5	.050987	.082576	.056061	-.000321	-.160340	-.192396
6	.000156	.002740	.049356	.285326	.059253	-.038079
7	-.009403	-.013679	.045317	.333782	.149070	-.026717
8	.051395	.038570	.034973	.227419	-.084036	-.170370
9-11	.060817	.022121	.020251	-.051622	-.222422	-.099690
12-14	-.042285	-.001236	.018659	.043602	.026783	-.101918
15-21	.025978	-.011746	.016346	.156493	-.151902	-.107842
22-30	.013212	.036402	.008283	.372678	-.028111	-.102921

RUN NO. 72A 16M 10-17-62 2251-0006 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.22270 10E 00	0.66849 10E-01	0.32225 10E-01	0.10020 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.370323	-.051038	.074783	.334079
2	.156690	-.080355	-.002182	.099750
3	.069454	-.101423	.024480	.000273
4	-.012127	-.002585	-.022144	-.082759
5	-.071964	.076871	.076176	-.117865
6	-.191518	-.104341	-.136647	-.119548
7	-.118085	-.046679	-.001473	-.129445
8	-.117003	-.121769	-.053537	-.058823
9	-.211867	.104453	-.207630	-.135511
10	-.217510	.028336	-.190637	-.195055
11	-.179880	-.004721	-.134484	-.088075
12	-.154914	-.001614	-.090299	-.062909
13	-.167972	-.051488	-.086794	-.115492
14	-.174364	-.018233	-.038226	-.115469
15	-.019998	-.100000	-.038981	-.017415
16	-.007229	-.009029	.015873	-.027410
17	.010515	-.056785	.034253	.013376
18	.098082	-.032671	.051183	.024854
19	.151736	.050157	.056164	.073629
20	.086256	.034454	.047974	.089191
21	.056237	-.017176	.101762	.045144
22	.091728	-.011949	.065012	.060368
23	.118813	.021747	-.011354	.106713
24	.049545	-.002229	-.016350	.076839
25	.067889	.028893	.060816	.061889
26	.012744	-.086639	.062905	.055437
27	-.078294	.033577	-.061503	.012566
28	-.027116	.041777	-.028473	.033819
29	-.050632	.042185	-.111974	-.004440
30	-.054082	-.024668	-.102071	-.055220

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.004197	.020990	.002415	.002128
1	.089426	.155760	.079256	.033060
2	.201403	.171405	.181013	.071051
3	.290728	.173259	.261859	.100651
4	.203789	.166480	.173886	.079408
5	.121889	.239444	.075729	.063675
6	.118407	.289195	.067142	.062576
7	.117631	.218870	.092167	.058566
8	.098311	.150631	.124368	.051412
9-11	.072111	.256244	.136222	.042047
12-14	.064146	.415579	.119605	.027754
15-21	.067820	.279260	.131551	.033320
22-30	.073123	.441190	.190538	.032475

RUN NO. 728 16M 10-18-62 0006-0122 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.79 M/SEC	WIND DIRECTION	319 DEG
STABLE	SIGMA A	6.7 DEG	SOLAR RADIATION	0
LAND	SIGMA E	4.0 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
<b>VARIANCES</b>				
U	0.51300E 00	0.39380E-00	0.35039E-00	0.21422E-00
V	0.30420E-00	0.24530E-00	0.23657E-00	0.78643E-01
W	0.10829E-00	0.10678E-00	0.10377E-00	0.32964E-01
T	0.79138E-01	0.22910E-01	0.19897E-01	0.12116E-01
E	0.46274E-00	0.37298E-00	0.34537E-00	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>GUSTINESS RATIOS</b>				
U	0.14953	0.13101	0.12358	0.09663
V	0.11514	0.10340	0.10154	0.05855
W	0.06870	0.06822	0.06725	0.03790

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>COVARIANCES</b>				
U,V	0.20527E-02	-0.12166E-01	-0.16281E-01	-0.75237E-02
U,W	-0.96193E-01	-0.95651E-01	-0.91115E-01	-0.49566E-01
U,T	0.23665E-01	0.54804E-01	0.45248E-01	0.36493E-01
V,W	0.15135E-01	0.13675E-01	0.15091E-01	0.95461E-02
V,T	-0.43480E-01	-0.23605E-02	-0.37632E-02	-0.12799E-02
W,T	-0.23878E-01	-0.23021E-01	-0.21859E-01	-0.10632E-01
WE	-0.18610E-01	-0.12501E-01	-0.10913E-01	

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
<b>NORMALIZED COVARIANCES</b>				
U,V	0.00520	-0.03914	-0.05655	-0.05797
U,W	-0.40812	-0.46645	-0.47783	-0.58983
U,T	0.11745	0.57698	0.54192	0.71631
V,W	0.08339	0.08450	0.09632	0.18749
V,T	-0.28024	-0.03149	-0.05485	-0.04146
W,T	-0.25794	-0.46544	-0.48106	-0.53202



RUN NO. 728 16M 10-18-62 0006-0122 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.28789 10E 00	0.19068 10E 00	0.83482 10E-01	0.15671 10E 00	0.68609 10E-01	0.45442 10E-01
0	-.056662	-.477831	.542010	.096277	-.054850	-.480908
1	-.056701	-.412625	.492851	.080559	-.053681	-.378543
2	-.057115	-.296347	.392843	.067805	-.053644	-.246120
3	-.053929	-.197786	.291851	.063513	-.047049	-.161199
4	-.046518	-.122780	.204685	.064703	-.033157	-.093970
5	-.035945	-.061998	.135447	.060318	-.016331	-.039698
6	-.021709	-.011207	.081657	.041183	.002077	-.000769
7	-.003822	.027153	.039903	.013777	.011903	.021054
8	.019671	.050029	.007118	-.006572	.018756	.031021
9	.036795	.062357	-.015547	-.042731	.027490	.039679
10	.048107	.067440	-.032935	-.065774	.029568	.043534
11	.049603	.070636	-.047933	-.068539	.023057	.048549
12	.042418	.072126	-.060400	-.054974	.018311	.053223
13	.034454	.066981	-.078967	-.039034	.008854	.051478
14	.027903	.057736	-.096072	-.027644	-.003474	.064196
15	.022425	.054978	-.112984	-.017713	-.002324	.067746
16	.014385	.072387	-.126680	-.016415	.004052	.073110
17	.007821	.099142	-.131857	-.014141	.006500	.075359
18	.002998	.112546	-.137135	-.008114	.003527	.084519
19	-.002615	.122277	-.140554	-.002831	.006192	.089495
20	-.013874	.115176	-.139014	-.007974	.009530	.084869
21	-.018738	.095670	-.137311	-.017051	.010163	.080013
22	-.012097	.079908	-.134018	-.009926	.012019	.076284
23	-.004762	.075065	-.131464	-.017724	.014349	.079866
24	.003864	.075838	-.126054	-.030813	.014297	.087601
25	.012880	.080749	-.126749	-.028370	.019639	.094501
26	.020084	.085160	-.127486	-.019559	.022692	.099944
27	.028888	.080071	-.118154	-.025612	.024628	.080183
28	.035428	.070493	-.099587	-.026590	.025191	.073311
29	.040990	.049935	-.075065	-.027561	.019923	.061839
30	.040780	.027409	-.046041	-.026694	.013122	.034746
31	.037705	.018308	-.026179	-.029808	.005309	.012316
32	.029262	.009796	-.015659	-.024323	-.001137	.002769
33	.019131	-.002689	-.006946	-.016488	-.002134	-.001628
34	.001780	-.012256	-.000107	-.004400	-.001043	-.005969
35	-.022958	-.018131	.004710	.006040	-.009412	-.011835
36	-.037683	-.025553	.007427	.025420	-.013518	-.014727
37	-.045555	-.028501	.014207	.029787	-.010350	-.017069
38	-.048024	-.036219	.024369	.029077	-.013181	-.023037
39	-.051209	-.044232	.032287	.026793	-.019626	-.031666
40	-.051525	-.036149	.034809	.019832	-.026321	-.034344
41	-.053344	-.020511	.032183	.026956	-.035203	-.036407
42	-.051361	-.015131	.030134	.040162	-.048717	-.040644
43	-.043032	-.019599	.032258	.032229	-.053248	-.044607
44	-.025567	-.026726	.035663	.025850	-.049950	-.047914
45	-.012576	-.041415	.047265	.022304	-.048536	-.056057
46	-.008695	-.061359	.055385	.022810	-.038570	-.060723
47	-.001712	-.060035	.048892	.021566	-.022439	-.058850
48	.008405	-.044256	.035539	.017532	-.006752	-.044475
49	.013236	-.030304	.028742	.010157	.002887	-.026387
50	.014869	-.021723	.020003	.002866	.008281	-.016027
51	.019418	-.004455	.002380	-.001447	.011769	-.000790
52	.012867	.014661	-.011409	-.002128	.010332	.012461
53	-.000341	.026754	-.022370	.007337	.006408	.016116
54	-.003006	.026594	-.031284	.009587	.006008	.014285
55	.006482	.030586	-.038779	.000503	.011470	.018755
56	.020747	.035341	-.041492	-.010662	.030983	.020264
57	.029277	.033282	-.038382	-.016303	.044030	.013778
58	.032288	.037025	-.042236	-.002677	.037352	.017007
59	.030009	.036637	-.048305	.005944	.035096	.030647
60	.026903	.031245	-.050262	-.005299	.033257	.026956

RUN NO. 72B 16M 10-18-62 0006-0122 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.28789 10E 00	0.19068 10E 00	0.83482 10E-01	0.15671 10E 00	0.68609 10E-01	0.45442 10E-01
1	-.007514	-.024774	.031540	.027888	-.005128	-.049451
2	.002586	-.019349	.051041	.037796	-.010582	-.072615
3	.005318	-.011984	.066946	.028979	-.012142	-.072759
4	.001764	-.009677	.076852	.016875	-.008590	-.071237
5	-.002437	-.008647	.077680	.012098	-.010293	-.072901
6	-.011520	-.005546	.071006	.012133	-.015863	-.070351
7	-.020284	-.004102	.061770	.005098	-.020908	-.060464
8	-.013942	-.006701	.053740	-.003384	-.022808	-.048317
9	-.010367	-.008263	.051966	.001485	-.026478	-.037996
10	-.009892	.005065	.049897	.004482	-.028641	-.029430
11	-.011364	.010404	.054481	-.001171	-.027044	-.027303
12	-.011321	.016933	.054915	-.003946	-.022928	-.030346
13	-.010492	.022087	.052288	-.006494	-.018925	-.033863
14	-.008678	.019059	.050268	-.012525	-.012756	-.034545
15	-.007963	.014354	.049976	-.017086	-.000608	-.029883
16	-.008732	.008983	.044652	-.018700	.009124	-.016144
17	-.009802	.009827	.031803	-.008133	.004852	-.002057
18	-.011143	.008905	.021478	-.013368	.007794	.005734
19	-.018267	.000732	.013452	-.022482	.009363	.010961
20	-.018701	-.008647	.009603	-.023552	.009117	.014758
21	-.017668	-.016930	.007560	-.015392	.014595	.020640
22	-.007556	-.018628	.009203	-.007189	.020528	.013636
23	.000442	-.018999	.009736	-.003361	.020027	.001753
24	.008067	-.013485	.003538	-.000887	.025579	.002167
25	.019115	-.006170	-.001298	.008471	.022115	.000158
26	.035432	-.009554	-.003012	.012452	.011876	-.003100
27	.046589	-.002726	-.005620	.014386	.000588	-.006370
28	.051753	.007459	-.010794	.022190	-.018014	-.011633
29	.047676	.019447	-.020237	.022678	-.029329	-.009993
30	.041231	.030822	-.030515	.022293	-.031634	-.005837
31	.036804	.042900	-.035158	.028538	-.037130	.001524
32	.036664	.041723	-.035351	.027935	-.038479	.011134
33	.029385	.036418	-.033311	.016493	-.027886	.024096
34	.021429	.032940	-.031838	.002772	-.017748	.033925
35	.021125	.034202	-.031006	.005157	-.004878	.031306
36	.017191	.028975	-.029364	.013108	-.003084	.024075
37	.006108	.020526	-.027266	.009703	.001496	.013888
38	.001114	.004742	-.022018	.009993	.006533	.015718
39	-.001205	-.009454	-.020251	.012946	.004602	.026071
40	-.006075	-.022458	-.016198	.015474	-.000067	.030854
41	-.003240	-.027513	-.009397	.018002	.000333	.023788
42	-.010131	-.034817	-.004467	.019669	.006525	.021482
43	-.024610	-.038902	-.005367	.010622	.013688	.021896
44	-.036161	-.034372	-.012301	-.009932	.017553	.021310
45	-.044321	-.013074	-.014972	-.027340	.016230	.013579
46	-.040882	-.005917	-.010905	-.040000	.017051	.006632
47	-.034392	-.011055	-.004273	-.033372	.008250	.000732
48	-.021558	-.016043	.001862	-.013853	-.007019	-.004729
49	-.008929	-.021416	.006739	-.001116	-.027207	-.004537
50	.006029	-.024223	.010458	.010851	-.040716	-.002899
51	.010565	-.024447	.017227	-.013647	-.041100	-.007267
52	.002804	-.019413	.019829	.007113	-.032024	-.012322
53	-.002312	-.009911	.024008	.003407	-.021348	-.013696
54	.009973	-.003857	.021056	.000561	.002409	-.018177
55	-.012436	-.002531	.013336	-.003174	.025630	-.016605
56	-.009209	-.007897	.014023	-.008468	.031687	-.017657
57	-.006099	-.003372	.010706	-.015667	.032181	-.021113
58	-.004008	.002427	.004112	-.019453	.030821	-.021091
59	-.005896	.002400	-.001056	-.028766	.033044	-.014777
60	-.007635	-.000965	-.008308	-.018454	.027260	-.004159

RUN NO. 728 16M 10-18-62 0006-0122 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.35030 10E 00	0.23660 10E 00	0.10380 10E 00	0.19895 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.821303	.678627	.644389	.805740
2	.596757	.362329	.289576	.565173
3	.419449	.177738	.125600	.387859
4	.280540	.065660	.044766	.255827
5	.171839	-.016305	-.007037	.155684
6	.087603	-.068543	-.051598	.078718
7	.025200	-.093832	-.099699	.034289
8	-.023979	-.104953	-.116745	.007636
9	-.061483	-.118500	-.106508	-.023670
10	-.093570	-.127040	-.082583	-.052673
11	-.122979	-.104919	-.076279	-.077147
12	-.140500	-.083651	-.078325	-.102104
13	-.147116	-.069790	-.068504	-.130104
14	-.152589	-.069942	-.039831	-.158277
15	-.163508	-.075932	-.040177	-.173216
16	-.179213	-.075430	-.072025	-.179166
17	-.194523	-.077641	-.090915	-.182342
18	-.209574	-.085701	-.100572	-.188860
19	-.218965	-.093313	-.108717	-.187989
20	-.220601	-.099036	-.114144	-.176813
21	-.213673	-.096202	-.103268	-.175770
22	-.208489	-.087153	-.094864	-.179835
23	-.206257	-.090047	-.090590	-.189593
24	-.203338	-.103868	-.098479	-.197062
25	-.198935	-.106381	-.103273	-.204380
26	-.192662	-.108850	-.103017	-.197644
27	-.180123	-.107188	-.092741	-.181364
28	-.160008	-.096068	-.077657	-.165219
29	-.125425	-.081086	-.060431	-.134945
30	-.083710	-.036013	-.037914	-.095632
31	-.043253	.013603	-.024988	-.056520
32	-.009310	.036177	-.007454	-.034307
33	.016127	.053730	.010999	-.012386
34	.032310	.045678	.010921	-.002126
35	.040642	.025007	.017546	.004650
36	.048021	.026912	.020622	.009822
37	.058614	.034848	.028943	.017024
38	.066411	.032105	.055864	.033836
39	.074746	.018199	.067264	.051711
40	.072444	.010218	.048725	.064940
41	.056087	.002121	.032319	.075178
42	.042508	.002090	.050025	.080792
43	.041408	-.002565	.049087	.084274
44	.047800	-.000601	.033922	.082864
45	.064389	.004831	.027629	.083558
46	.080585	-.007418	.042786	.082053
47	.085900	-.023154	.060209	.072597
48	.090004	-.027779	.053850	.061231
49	.081038	-.022187	.034167	.053214
50	.063327	-.007944	.021570	.037698
51	.035186	.001165	.007890	.017960
52	.008606	.007615	-.014858	-.000818
53	-.007309	.078942	-.028334	-.015096
54	-.016077	.040306	-.019640	-.021601
55	-.026664	.040138	-.015451	-.025052
56	-.042385	.039170	-.013886	-.025837
57	-.059654	.039731	-.005889	-.033009
58	-.067351	.046614	-.016059	-.048157
59	-.069221	.040709	-.025792	-.059143
60	-.067298	.029853	-.019455	-.053758

RUN NO. 728 16M 10-18-62 0006-0122 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	-.015276	-.002525	.045638	.001792	-.056887	-.005103
1	-.052010	-.053520	.466929	.080411	-.150291	-.115151
2	-.230690	-.100740	.687332	.222476	-.519925	-.221907
3	-.401781	-.134285	.816669	.313447	-.811864	-.285917
4	-.245862	-.100447	.556582	.220087	-.366157	-.197749
5	-.345491	-.070702	.338153	.227930	-.437201	-.141699
6	-.547590	-.067043	.285217	.270084	-.721310	-.144586
7-8	-.080569	-.060999	.243271	.096982	-.512673	-.131159
9-11	.050550	-.040465	.156302	-.066156	-.107248	-.090064
12-15	.064096	-.014718	.072735	-.034760	.103347	-.051897
16-20	-.018062	-.010848	.037758	.039992	.011092	-.029924
21-27	.008289	-.007267	.016100	.011214	.030837	-.022228
28-36	-.000811	-.002850	.007100	.007200	-.005260	-.015507
37-47	.000340	-.001172	.002334	.007305	.001332	-.007835
48-60	-.001453	-.000389	.001259	.002976	-.004617	-.003735

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	.115579	.082767	.117818	.028631	-.333426	-.335187
2	-.100401	.018681	.190093	-.037755	-.198751	-.666803
3	-.299720	-.046878	.208863	-.040574	-.301732	-.789357
4	-.053987	.042458	.115398	.076638	-.607340	-.668172
5	.179947	.020454	.066962	.127864	-.578724	-.691036
6	.020537	-.167365	.064145	.074760	.077238	-.503400
7-8	-.073126	-.074323	.041266	.022307	.193058	-.213610
9-11	.070286	-.000813	.046365	.048197	.065835	-.349268
12-15	.014573	-.021964	.019578	.042273	-.097941	-.060985
16-20	-.011006	-.033522	-.001115	.021280	-.019718	-.090683
21-27	-.025332	-.012213	.002252	.019773	-.013320	-.070018
28-36	-.007352	-.018392	.002077	.001631	.020381	-.017668
37-47	-.015450	-.008464	.001487	.001012	.000121	.001725
48-60	-.003498	-.001242	.000482	.000451	-.005704	-.000385

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.019889	.004487	.014128	.014883
1	.255226	.086047	.308752	.158698
2	.424674	.144365	.604297	.242178
3	.538353	.196070	.820583	.286932
4	.378919	.168874	.632015	.193405
5	.240677	.131854	.513819	.130297
6	.224876	.149166	.583536	.122549
7-8	.196641	.150690	.597967	.099256
9-11	.118869	.103108	.455559	.070562
12-15	.069303	.064261	.278141	.046538
16-20	.043212	.049917	.234133	.025695
21-27	.026851	.032328	.202725	.016618
28-36	.016530	.024489	.115135	.011561
37-47	.010418	.015290	.077107	.006439
48-60	.007034	.010463	.044432	.004150

RUN NO. 728 16M 10-18-62 0006-0122 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
	0.12977 10E 00	0.84023 10E-01	0.50923 10E-01	0.50903 10E-01	0.30850 10E-01	0.19975 10E-01
0	-.057977	-.589903	.716629	.187534	-.041487	-.532296
1	.023436	-.331940	.193942	-.038921	.023946	-.039410
2	.018073	.059786	-.010938	-.014117	.007053	.045170
3	.050868	.053441	-.038305	-.039817	.042196	.067167
4	-.058737	-.013536	-.032738	.065963	-.041038	-.021057
5	.015752	-.020920	-.053116	-.014754	.036258	-.028825
6	.071523	.036224	-.112853	-.037085	.068569	.057387
7	-.013266	-.073118	.029111	-.010271	-.014257	-.046414
8	.022571	-.020621	.011013	.012425	.026037	.000322
9	-.038822	.081887	-.077528	.081461	-.033437	.027674
10	.003383	.098862	-.070696	-.079700	-.026013	.066118
11	-.039386	.071432	-.104669	-.020003	-.035222	.063397
12	.002007	.019139	-.038756	-.000971	-.035911	.032915
13	.024558	.019537	-.034905	-.005716	-.011981	-.004994
14	-.029471	.126071	-.083030	.021799	-.044470	.092905
15	.016228	.014710	-.002268	-.021911	.022371	.046642
16	-.036629	.081349	-.085565	-.019710	-.021103	.123777
17	-.023373	.042455	-.036112	.004767	-.049476	.036095
18	.073536	.000607	.008112	-.029374	.046684	.031925
19	.054286	-.002116	.042466	-.053370	.042072	.003454
20	-.082811	-.089037	.089172	.037336	-.018674	-.091729
21	-.038936	-.013766	.006159	-.013400	-.022247	-.047736
22	-.011185	-.071894	.018659	.048942	-.021154	-.063047
23	-.023945	-.061396	-.006734	.048446	-.023254	-.049614
24	-.019568	.053204	-.049582	-.023905	.028700	.077262
25	-.013182	-.022781	.021278	.002199	-.041822	-.000590
26	-.016247	-.059287	.055495	.041164	-.019265	-.033429
27	.003657	-.039656	.073106	-.008410	.015045	-.058614
28	.024556	-.078274	.042764	-.050376	-.008032	-.086339
29	-.062002	-.026615	-.006411	.081128	-.035989	-.018119
30	-.001681	-.070111	.040033	-.009766	.031498	-.038126

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	.010069	.000437	.010764	-.009715	-.015080	.009587
1	.086429	-.137890	.140149	.132581	.190615	-.322063
2	.053144	-.263880	.218275	.266582	.267539	-.583582
3	.028565	-.252702	.259079	.175037	.181397	-.506576
4	-.002118	-.081923	.192678	.056118	-.104053	-.161642
5	-.074641	-.075155	.174049	.208356	-.312245	-.268440
6	-.056076	-.148970	.217165	.166879	-.190159	-.447437
7	-.007813	-.164059	.214755	.201511	-.021775	-.331784
8	-.011732	-.242646	.212845	.436600	.041069	-.472934
9-11	.025142	-.279051	.165687	.054365	.065024	-.555240
12-14	-.107061	-.197827	.139392	.794390	-.146266	-.558271
15-21	-.045912	-.234891	.140367	.529569	-.080949	-.434709
22-30	-.067723	-.265450	.126739	.686182	-.141267	-.566600

RUN NO. 723 16M 10-18-62 000E-0122 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
	0.12977 10E-00	0.84023 10E-01	0.50923 10E-01	0.50903 10E-01	0.30850 10E-01	0.19975 10E-01
1	.000179	.010443	.102526	.040582	-.030756	-.091910
2	.005364	.016296	.023804	-.014312	.011136	.026325
3	.077467	.014836	.014904	.098085	-.067301	.002922
4	-.008836	-.030856	-.015941	.044536	.002861	.056018
5	-.007727	-.023911	.003826	.032892	-.048881	-.003645
6	-.009778	-.007584	-.013973	-.044581	.028594	-.031530
7	.015931	.012996	-.015833	.027492	.000761	.004591
8	-.026981	.012178	.020732	.008483	.004750	-.066846
9	.060545	-.000076	.022720	.120275	-.065629	-.030787
10	.076133	.031750	.026316	.055410	-.070596	-.043768
11	.036278	.044165	-.018784	.041053	-.020832	-.011493
12	-.057688	-.001067	.001857	-.015271	.013285	-.014077
13	-.000913	.014691	-.001387	-.024049	.035350	-.019716
14	-.005090	.009737	-.004653	-.055144	-.007028	-.034910
15	.029994	.025590	-.071012	.036249	-.042556	.028310
16	-.054860	.029880	-.032991	-.007336	.029674	-.005984
17	-.041604	-.005163	.015996	-.063141	.037486	-.017268
18	-.062866	.033925	.039248	-.034270	.040611	-.039777
19	-.066500	-.038308	-.003281	-.052352	.088553	.071199
20	.019728	.000638	-.015047	-.014191	-.003738	.043400
21	.015144	-.003570	.046641	-.021914	-.023956	.022056
22	.026746	-.048335	.021533	.008723	-.014955	.079555
23	.069005	-.017669	.035606	-.017666	-.013081	.028580
24	.013837	-.016806	.012411	-.041769	.022850	.009392
25	-.056952	.022026	-.018618	-.032207	.059788	.006334
26	-.017884	.035318	.015612	-.012858	.049215	-.047346
27	.021865	-.024066	-.003900	-.034701	-.016077	.026540
28	.038209	-.009706	-.005898	.057977	-.028656	-.002268
29	.037562	.019177	.002299	.014432	.020895	-.021373
30	.037305	.001382	-.011891	.078441	-.066559	-.053825

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	.039443	.701206	.043561	.560694	-.203730	-.212792
2	.111702	.272528	.087322	.962620	-.361500	-.206802
3	.104539	-.407340	.312954	.730066	-.245896	.021388
4	-.050214	-.463043	.157707	.038309	.052969	.167741
5	-.046799	-.031112	-.073503	-.088540	.028115	.101300
6	.099106	.051310	.265936	.283150	-.204590	.106801
7	.101875	.332121	.624118	.627309	-.209210	-.007888
8	.114613	.587424	.592210	.765926	-.254920	-.149690
9-11	-.024135	.306865	.438287	-.243049	.134401	-.169983
12-14	.007466	.182095	.297501	-.260620	-.061267	-.159600
15-21	-.057722	-.179989	.340990	.214979	-.018419	-.109266
22-30	.094319	.121345	.264830	.572515	-.312598	-.185970

RUN NO. 728 16M 10-18-62 0006-0122 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.21421 10E 00	0.78619 10E-01	0.32958 10E-01	0.12106 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.212702	-.037645	-.048672	.262391
2	-.080631	-.101524	-.051232	.003972
3	-.045620	-.051326	-.099683	-.055021
4	-.017463	-.025359	.036094	-.020763
5	-.050494	-.056661	.040915	-.041952
6	-.141556	.094748	-.025911	-.108841
7	.001950	-.001904	.019706	-.020705
8	.026734	-.134319	.050555	-.016962
9	-.110052	.019643	-.095282	-.023182
10	-.078714	-.088655	-.162419	-.067686
11	-.092001	.020642	-.097948	-.113910
12	-.024133	-.003530	-.070816	-.045700
13	-.062636	-.015699	.013888	-.041694
14	-.132652	-.094401	-.157256	-.117016
15	.012141	.028988	-.003915	-.088745
16	-.014263	.020464	-.117131	-.150367
17	-.037738	-.000550	-.012196	-.075711
18	.028103	.044111	-.033643	.004135
19	.039099	.014979	-.049057	.010218
20	.073757	-.112997	.046587	.093878
21	-.068711	-.089681	.111302	.078026
22	-.055764	-.050124	.110479	.037231
23	-.032022	-.029699	.121926	-.007066
24	-.042505	-.019203	-.101398	-.047193
25	.039810	.092790	.029397	-.031462
26	.075795	.046311	.035482	.008057
27	.071934	.043277	.089907	.065562
28	.082243	-.015323	.073993	.040631
29	-.005754	.013765	.055998	.024542
30	.025837	-.041330	.062266	.043975

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-03
0	.007377	.025703	.000123	.063231
1	.079336	.201991	.077758	.606895
2	.108168	.205982	.147297	.778058
3	.130234	.230533	.145948	.795750
4	.111459	.259111	.059717	.552546
5	.091181	.201823	.051647	.621073
6	.108935	.194641	.071548	.782007
7	.120895	.287890	.085073	.634503
8	.104608	.269634	.149332	.585634
9-11	.095090	.404488	.155726	.537246
12-14	.088877	.308434	.146151	.557091
15-21	.092397	.434593	.144906	.428388
22-30	.081757	.438858	.223546	.430655

RUN NO. 72C 14M 10-18-62 0122-0238 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.31 M/SEC	WIND DIRECTION	314 DEG
STABLE	SIGMA A	6.9 DEG	SOLAR RADIATION	0
LAND	SIGMA E	3.8 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	0.43946E-00	0.29766E-00	0.26176E-00	0.15025E-00
V	0.25919E-00	0.19118E-00	0.17837E-00	0.86422E-01
W	0.77090E-01	0.73113E-01	0.72259E-01	0.17417E-01
T	0.85022E-01	0.21990E-01	0.19669E-01	0.10583E-01
E	0.38787E-00	0.28098E-00	0.25620E-00	

GUSTINESS RATIOS

U	0.15381	0.12659	0.11871	0.08994
V	0.11812	0.10145	0.09799	0.05980
W	0.06442	0.06274	0.06237	0.03062

COVARIANCES

U,V	0.29733E-01	0.73348E-03	-0.28643E-03	-0.93862E-03
U,W	-0.67237E-01	-0.66237E-01	-0.62275E-01	-0.26671E-01
U,T	0.74073E-01	0.49186E-01	0.41245E-01	0.27976E-01
V,W	0.70174E-02	0.22052E-02	0.42722E-02	0.11898E-02
V,T	0.16821E-01	0.43893E-02	0.30848E-02	0.99065E-03
W,T	-0.17795E-01	-0.18091E-01	-0.17373E-01	-0.63838E-02
WE	-0.39016E-02	-0.53362E-02	-0.40853E-02	

NORMALIZED COVARIANCES

U,V	0.08810	0.00307	-0.00133	-0.00940
U,W	-0.36530	-0.44899	-0.45281	-0.52136
U,T	0.38321	0.60795	0.57482	0.70158
V,W	0.04964	0.01865	0.03763	0.03499
V,T	0.11331	0.06770	0.05208	0.03736
W,T	-0.21981	-0.45120	-0.46083	-0.47020



RUN NO. 72C 16M 10-18-62 0122-0238 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.21608 10E 00	0.13753 10E 00	0.71758 10E-01	0.11353 10E 00	0.59238 10E-01	0.37704 10E-01
0	-.001315	-.452737	.574829	.037520	.052054	-.460804
1	-.005296	-.379585	.513202	.032827	.037640	-.353007
2	-.007758	-.251838	.390250	.015464	.022845	-.208426
3	-.009217	-.139608	.268727	.000913	.010950	-.104626
4	-.011262	-.060878	.166841	-.008895	-.004250	-.033020
5	-.018321	-.008567	.093876	-.004943	-.023782	.012139
6	-.024017	.033289	.039164	-.008025	-.034368	.035292
7	-.022534	.062758	-.002125	-.005370	-.032868	.054955
8	-.020868	.071362	-.030199	-.001306	-.027318	.065460
9	-.011564	.075201	-.047276	-.009085	-.011577	.061615
10	-.001340	.077356	-.055811	-.014033	.006070	.059863
11	-.001935	.078978	-.068526	-.003708	.009182	.059322
12	-.008639	.073045	-.080816	.006089	.006595	.054308
13	-.009753	.065919	-.084865	.011024	.004636	.052285
14	-.008575	.052082	-.081253	.014561	.003612	.048083
15	-.006950	.035831	-.077936	.012355	.003982	.039481
16	-.004608	.018822	-.074544	.016149	.002173	.026071
17	.006394	.008294	-.076185	.011335	.006413	.016790
18	.018557	.011757	-.083738	.010810	.010022	.012145
19	.029643	.023506	-.095141	.005231	.011471	.010199
20	.032237	.034606	-.103602	-.000933	.007495	.018274
21	.031592	.046388	-.111829	-.019713	.014893	.028731
22	.033972	.060325	-.128059	-.027497	.017206	.039959
23	.032910	.076012	-.145654	-.030588	.017333	.059905
24	.030595	.087029	-.152170	-.027771	.010493	.076112
25	.027498	.084763	-.147845	-.023573	.003165	.085589
26	.026403	.077473	-.139239	-.029947	.007162	.086861
27	.023477	.067928	-.124188	-.029362	.007636	.068699
28	.018130	.047968	-.106690	-.030338	.003492	.047690
29	.012488	.032732	-.084479	-.019012	-.000942	.034904
30	.009763	.030034	-.062129	-.007989	.001265	.030089
31	.000657	.024779	-.040317	.006365	-.002460	.025159
32	-.002699	.016851	-.019331	.017079	-.008445	.016940
33	-.002284	.006306	-.003888	.018602	-.006118	-.000257
34	-.000700	-.015848	.009538	.005642	-.000937	-.018105
35	.003724	-.029183	.022139	-.005503	.010361	-.031662
36	.004162	-.036912	.034211	-.008885	.019221	-.034370
37	.001151	-.049307	.043712	-.004964	.022386	-.033723
38	-.006704	-.049543	.044884	.005827	.009801	-.027142
39	-.018710	-.039082	.040125	.010733	-.002755	-.018788
40	-.023901	-.022490	.029945	.013836	-.010874	-.007297
41	-.026391	-.005266	.017155	.019427	-.015186	-.002781
42	-.034164	-.009476	.010283	.029571	-.024678	-.003124
43	-.035822	-.012835	.003724	.034097	-.040955	.000264
44	-.031095	-.005529	.001798	.034098	-.043326	.002703
45	-.019151	-.006479	.006973	.030497	-.035100	.001166
46	-.012234	-.008809	.024117	.022644	-.026922	-.002005
47	-.003407	-.012808	.044529	.015329	-.014738	-.010699
48	.003406	-.016586	.055547	.005829	-.005476	-.031630
49	.006631	-.021016	.062718	-.003957	.000577	-.043965
50	.011452	-.024588	.064570	-.011079	-.000138	-.045136
51	.012417	-.031804	.057614	-.012538	-.004342	-.046696
52	.016018	-.022680	.048167	-.021842	-.005497	-.052378
53	.012113	-.015256	.038959	-.020399	-.004641	-.046992
54	-.001727	-.008096	.028272	-.007537	-.001733	-.040147
55	-.011614	-.006029	.023990	.003045	-.000708	-.022895
56	-.021170	-.000674	.008120	.009585	-.005036	-.009733
57	-.031519	.014357	-.010922	.021060	-.011909	.005973
58	-.040734	.028393	-.025145	.021728	-.019627	.011802
59	-.040111	.036920	-.040866	.022205	-.018349	.017562
60	-.024923	.037283	-.052772	.022249	-.009401	.020539

RUN NO. 72C 16M 10-18-62 0122-0238 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.21608 10E 00	0.13753 10E 00	0.71758 10E-01	0.11353 10E 00	0.59238 10E-01	0.37704 10E-01
1	.000418	-.023045	.041663	.006102	.015777	-.046842
2	.002447	-.020115	.070317	.003037	.028418	-.071405
3	.008453	-.016205	.082318	.007288	.032202	-.075537
4	.019508	-.012358	.077337	.011164	.031279	-.073040
5	.027367	.000548	.067710	.020357	.024913	-.069096
6	.029631	.015349	.053502	.031691	.020063	-.059719
7	.026611	.018237	.041360	.024258	.022862	-.041782
8	.030958	.006798	.033371	.031028	.017546	-.014448
9	.037603	-.009813	.022998	.015435	.007794	.009179
10	.032245	-.012136	.012788	-.006980	.006878	.023657
11	.034163	-.014675	.007032	-.011114	.002676	.025819
12	.032173	-.015810	.006069	-.005042	-.003326	.014984
13	.032496	-.010150	.014046	.008324	-.013027	-.004887
14	.029216	-.001101	.022874	.020735	-.018613	-.012886
15	.028152	.008242	.028040	.022023	-.017011	-.023691
16	.027323	.018692	.024483	.019689	-.015008	-.042198
17	.025759	.017035	.024429	.010646	-.009130	-.051344
18	.025326	.008561	.034504	.007451	-.000068	-.046725
19	.020007	-.009469	.043230	.013682	.014273	-.034196
20	.003556	-.024830	.041256	.028585	.021489	-.020652
21	-.002829	-.029629	.037004	.034609	.022907	-.019840
22	-.006257	-.022536	.031479	.029031	.022153	-.020437
23	-.008857	-.013832	.022614	.013001	.017672	-.018984
24	-.009903	-.005100	.012075	-.001293	.004590	-.009598
25	-.009748	.003009	-.000813	-.007931	-.003621	-.004570
26	-.020818	.006178	-.014667	-.011618	-.004455	.010010
27	-.026106	.009204	-.028005	-.019908	-.002397	.017059
28	-.037230	.007996	-.040508	-.027713	-.001603	.021698
29	-.045372	.013329	-.047937	-.030085	.000296	.027482
30	-.044771	.022513	-.053735	-.031379	-.000109	.030028
31	-.037967	.024176	-.054664	-.019994	.003094	.024476
32	-.029968	.014226	-.047467	-.018785	.002038	.021962
33	-.023204	.007470	-.034657	-.009311	-.000986	.013119
34	-.012194	.000489	-.020376	.010009	-.005238	.006044
35	.000761	-.003444	-.004162	.019016	-.009997	-.001653
36	.014345	-.003872	.015289	.019486	-.018521	-.014793
37	.019126	.002961	.024349	.014650	-.017620	-.015311
38	.016384	.016687	.016286	.019541	-.011063	-.017371
39	.010592	.018833	.006737	.016934	.003946	-.009436
40	.003090	.017021	-.002234	.010366	.016165	.005641
41	-.005953	.010915	-.003348	-.001443	.020336	.014612
42	-.005455	.006057	-.006845	-.001555	.021936	.014744
43	-.001200	.006451	-.013152	.003539	.021669	.010374
44	.006817	.013110	-.015558	.005516	.012085	.001253
45	.016387	.019510	-.016830	-.001992	-.005501	-.010343
46	.016841	.029243	-.021402	-.015188	-.007785	-.014996
47	.013159	.039992	-.020521	-.020844	-.005824	-.015591
48	.018194	.034492	-.016942	-.015715	-.013730	-.021287
49	.018009	.022455	-.002752	-.004853	-.026628	-.023699
50	.017838	.004040	.017626	-.004540	-.027972	-.020719
51	.010170	-.002244	.029027	-.006126	-.025741	-.007616
52	.002324	-.008012	.038873	-.003331	-.024745	-.000061
53	.001685	-.017353	.045561	.003442	-.024474	.003256
54	-.005829	-.022594	.052741	-.003976	-.015580	-.001965
55	-.015348	-.020325	.059822	-.014793	-.001760	-.004348
56	-.018404	-.028743	.061639	-.017645	-.001319	-.004638
57	-.019358	-.031251	.056812	-.018445	-.007391	-.000684
58	-.014203	-.038969	.043456	-.014586	-.015018	.013511
59	-.012373	-.043906	.027049	-.010638	-.017813	.028264
60	-.018733	-.048888	.008351	-.016394	-.011522	.043905

RUN NO. 72C 16M 10-18-62 0122-0238 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOVARIANCE

M	U	V	W	T
	0.26174 10E 00	0.17838 10E 00	0.72261 10E-01	0.19673 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.812654	.675256	.602679	.795715
2	.575745	.352488	.238109	.543938
3	.391662	.165408	.060047	.359122
4	.245535	.059715	-.027673	.217786
5	.134083	-.006360	-.070186	.113051
6	.048576	-.058354	-.088155	.040134
7	-.011949	-.095819	-.117265	-.014578
8	-.059198	-.120012	-.110550	-.055013
9	-.098515	-.119876	-.102064	-.083051
10	-.126043	-.116154	-.096125	-.096551
11	-.146844	-.108685	-.084029	-.098395
12	-.163612	-.094092	-.070701	-.100978
13	-.167993	-.080955	-.065726	-.106102
14	-.157483	-.070791	-.055981	-.104340
15	-.144553	-.067148	-.045443	-.104104
16	-.137911	-.062571	-.039581	-.110802
17	-.144163	-.067139	-.007708	-.113157
18	-.157200	-.063851	-.004452	-.120874
19	-.164265	-.049279	-.010941	-.129481
20	-.167333	-.056198	-.019517	-.139489
21	-.175439	-.077290	-.044467	-.153478
22	-.190941	-.092988	-.063423	-.172468
23	-.210247	-.092469	-.075426	-.193759
24	-.224148	-.092197	-.090980	-.203096
25	-.216349	-.107162	-.086741	-.199863
26	-.193359	-.108928	-.073424	-.199385
27	-.167929	-.104007	-.068718	-.185621
28	-.142258	-.103825	-.063204	-.160987
29	-.115194	-.084670	-.060018	-.133558
30	-.078283	-.056789	-.051425	-.107060
31	-.029490	-.029246	-.025631	-.066590
32	.015698	-.020347	-.006661	-.022977
33	.046592	-.004748	-.004735	.010254
34	.069101	.019142	.004930	.026149
35	.084123	.036852	.018413	.033877
36	.102186	.062029	.029215	.028109
37	.122871	.063959	.035336	.018238
38	.124001	.050696	.032051	.002393
39	.105294	.040338	.021683	-.005271
40	.082507	.037396	.012712	-.016298
41	.065711	.037276	.016974	-.019584
42	.052045	.036236	.033131	-.019127
43	.045678	.035717	.028234	-.019617
44	.043235	.034011	.012250	-.018644
45	.042438	.022124	-.000595	-.004872
46	.039570	.006042	-.003121	.021280
47	.047962	.002630	-.004622	.055259
48	.049195	.000320	.008552	.081506
49	.041149	-.003821	.028811	.089220
50	.031076	-.000752	.025003	.088859
51	.021730	.009808	.026959	.089278
52	.006319	.018266	.030529	.086853
53	-.007741	.012891	.022215	.080167
54	-.012721	-.001165	.004247	.063623
55	-.017692	-.011282	-.012450	.035979
56	-.030565	-.007127	.011373	.013973
57	-.050255	-.008183	.016362	-.004566
58	-.074812	-.001236	.004562	-.023667
59	-.092718	-.000886	.002131	-.041361
60	-.106441	-.015386	.017031	-.047907

RUN NO. 72C 16M 10-18-62 0122-0238 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-02
0	.007440	-.023016	.030943	-.026759	.055503	-.004422
1	-.053869	-.288465	.353242	.046632	.175266	-.069406
2	-.178418	-.501245	.542469	.493746	-.092637	-.122652
3	-.195945	-.662656	.635011	.509422	-.132943	-.154872
4	.018534	-.521476	.428652	-.301217	.124383	-.122224
5	.123061	-.456636	.287509	-.304272	.205889	-.110819
6	.073245	-.589008	.321804	.378550	.341715	-.143807
7-8	-.000937	-.532742	.296101	.820251	.318176	-.131636
9-11	.032086	-.241402	.139320	.133976	.371806	-.071182
12-15	.016545	-.183000	.091284	.192902	.111185	-.054927
16-20	-.017145	-.086639	.038271	.203702	-.043560	-.031744
21-27	.009142	-.055098	.020717	-.015434	.043048	-.020106
28-36	.003458	-.019389	.006602	.012508	.030236	-.010183
37-47	-.001633	-.010328	.003510	.003273	.010890	-.007058
48-60	.003065	-.005020	.000937	-.020318	.013668	-.003631

QUADRATURE SPECTRUM

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
1	.101158	.145001	.067697	.632302	.184184	-.373770
2	.218150	-.418838	.109454	.696088	.177469	-.402656
3	.341768	-.221352	.123651	.736341	.154715	-.413722
4	.183648	.145014	.054930	.320051	.165166	-.176237
5	-.042573	.093821	.013459	-.277581	.247137	-.070151
6	-.049305	-.154731	.061020	.069244	.499160	-.307656
7-8	.030950	-.266139	.113242	.722516	.370051	-.646127
9-11	-.007946	.070625	.042067	-.082597	-.022554	-.366027
12-15	-.021126	-.723197	.018679	-.309198	.137616	.011412
16-20	-.015836	-.087223	.011667	.146246	.027296	-.051651
21-27	-.005721	.022567	.000148	-.034330	.010452	-.051350
28-36	.008050	-.133797	.000327	.062144	-.010086	-.011505
37-47	-.000067	-.055821	-.000520	.022614	-.003920	-.003384
48-60	-.001029	-.012153	.000816	-.010642	.000516	-.002637

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.014664	.005424	.011697	.011270
1	.159471	.064874	.178348	.149155
2	.279153	.107619	.302944	.217700
3	.378067	.142701	.396731	.243721
4	.271907	.115366	.344510	.173650
5	.175262	.102110	.350126	.124174
6	.195613	.124848	.447493	.133690
7-8	.169638	.110722	.428600	.130014
9-11	.082750	.073706	.294632	.070307
12-15	.058526	.049655	.248186	.044279
16-20	.033055	.038885	.180931	.028359
21-27	.021284	.027268	.136282	.017234
28-36	.013499	.017016	.087445	.011356
37-47	.008312	.011609	.064425	.007117
48-60	.005205	.008045	.039855	.004305

RUN NO. 72C 16M 10-18-62 0122-0238 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
	0.99961 10E-01	0.51186 10E-01	0.39894 10E-01	0.34045 10E-01	0.26535 10E-01	0.13588 10E-01
0	-.009390	-.521057	.701260	.034949	.037333	-.469829
1	-.023952	-.037611	.179872	.005330	.036920	-.022285
2	.039412	-.068922	.071731	-.037110	.079060	-.074932
3	.016850	.040516	-.055594	-.000103	-.014724	.028233
4	-.027750	-.015779	-.068397	.031497	-.002975	.004756
5	.024815	.046244	-.043339	.006530	-.053654	-.007578
6	-.033833	.055540	-.127691	.019141	-.032370	.051593
7	.008291	.042482	-.088926	-.041379	-.013985	.078734
8	.040717	.000127	-.019408	.005434	.028574	.010194
9	.000689	.047637	-.008463	.049968	-.012557	.064798
10	.016541	.012050	-.031041	-.054820	.008338	.022039
11	-.003310	.076558	-.055172	.031045	-.016946	.093618
12	.024010	.019419	-.020931	-.015117	.032989	.029491
13	.004515	.082196	-.020299	.041266	-.004487	.043508
14	.071138	.070551	-.066662	-.025505	.053185	.087745
15	-.032083	.031363	-.050899	.006430	-.035283	.018810
16	-.015466	-.006352	.004650	-.004903	-.021745	-.045855
17	.036430	-.034483	.060967	.039450	-.005102	-.068645
18	-.026045	-.066661	.085535	.033116	-.005787	-.113393
19	.074245	.033452	-.003417	-.041196	.055232	.008869
20	.009033	-.055494	-.013658	-.009522	-.007494	-.065370
21	.006074	-.003751	.010160	.008056	.026302	-.017804
22	.036957	-.020416	-.021543	-.106513	.028853	.006096
23	-.060395	.024413	-.033858	-.058655	-.039552	.036385
24	-.028761	-.004960	-.084222	-.011494	-.022811	.017440
25	-.001172	-.016105	-.038933	.044733	-.025503	-.012186
26	-.024643	-.019030	-.005662	.019454	-.023497	.024382
27	-.041184	.075893	-.020286	.011566	-.036104	.069136
28	-.065433	.028464	.056418	.050204	-.043345	.013193
29	-.035309	.020492	-.014510	.046467	-.030191	.071653
30	-.051136	.011585	.018027	.043736	-.023542	.008887

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	.343344	-.006519	.014539	.026123	.081393	-.018039
1	.392765	-.086554	.108694	.129213	.242438	-.159840
2	-.399788	-.144212	.136751	-.013691	.135605	-.325617
3	-.197093	-.190511	.200248	-.046033	.224387	-.551740
4	-.002522	-.134953	.203487	.083596	.276507	-.397279
5	.066554	-.097216	.175458	-.064520	.322210	-.167667
6	.277624	-.137054	.203316	-.073794	.321317	-.264701
7	-.093216	-.151059	.194955	.035610	.116401	-.327680
8	-.166465	-.098542	.126951	-.108081	.050086	-.177223
9-11	-.449791	-.078821	.104686	.054564	-.120111	-.199101
12-14	-.280696	-.090267	.116172	.291253	-.147323	-.245582
15-21	-.397217	-.089367	.068082	.139638	-.060826	-.165325
22-30	.651858	-.170366	.126768	-.075659	.079800	-.459551

RUN NO. 72C 16M 10-18-62 0122-0238 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
	0.99961 10E-01	0.51186 10E-01	0.39894 10E-01	0.34045 10E-01	0.26535 10E-01	0.13588 10E-01
1	.080259	.004479	.064990	.079671	-.007409	-.065178
2	.004058	.011712	.071326	.069431	.013304	-.090872
3	-.033443	-.011513	.056610	-.043165	-.042184	.006417
4	.014496	.004353	.024611	.027307	-.031797	.007941
5	.011363	-.054057	.055889	-.008787	-.061056	.014694
6	-.029318	-.099571	.018515	-.025523	-.006299	.097737
7	-.017227	-.036932	-.016898	-.007293	.047610	.042289
8	-.007448	-.086358	.010708	.022406	.068635	.046974
9	-.019689	-.038947	.068943	.094971	.003724	-.047196
10	-.038753	-.036925	.072577	-.030774	-.011113	-.036646
11	-.085638	-.019615	.034168	-.040030	.069038	-.005969
12	-.038039	.027384	-.015573	-.017638	.071048	-.026190
13	-.008840	.045736	.016055	.002482	-.016042	-.009287
14	-.053365	.063016	-.018125	-.035196	.009117	-.017222
15	.000132	.029893	-.030111	-.017202	.013798	-.001644
16	-.013281	.017331	-.027287	-.010105	.055450	.018144
17	-.015582	-.026854	.003547	-.076789	.043081	.006926
18	.013185	.008546	.005340	.012076	-.001996	-.034198
19	-.014788	.025461	-.002422	.036164	.003744	.006035
20	-.015836	-.031963	.005708	-.011094	.026119	-.005430
21	.084647	-.003565	-.063833	.081896	-.086970	.047243
22	.027372	-.007904	-.017091	.021132	-.060870	-.027748
23	.002483	-.016967	-.016433	-.001039	-.010181	.025101
24	.016921	-.055135	-.036318	.020641	-.015797	.061190
25	-.074407	-.013519	-.061295	-.088440	.054807	.001811
26	.031805	.064519	.002506	.068223	-.055931	-.025892
27	-.012352	.012283	.011402	.005794	.033249	-.020233
28	-.015194	-.046590	.002951	.001302	.052566	.021314
29	-.023989	.041649	-.029904	-.012354	-.034713	.011403
30	-.057197	.002792	-.038103	-.107764	.047889	.016516

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	-.185422	-.070212	.621034	-.064262	.366779	.017385
2	-.098043	-.087139	.756934	.067602	.117049	.041108
3	.039916	-.102199	.583691	.287058	-.261146	.098762
4	.099967	-.028099	.281743	.148695	-.333810	.050499
5	.039387	.065436	.179756	-.105595	-.216725	-.084456
6	.010001	.077783	.363105	.095923	-.232440	-.218037
7	-.004821	.036327	.695669	.314015	-.025570	-.308747
8	.018628	-.000724	.565417	.362760	.159686	-.255590
9-11	.056438	.009169	.030655	.374160	.215074	-.086026
12-14	.043736	-.017764	.265784	.123915	-.050295	-.070864
15-21	.108683	.014725	.002976	.294974	-.023658	-.043907
22-30	-.003315	-.015512	.108277	-.221366	-.116472	.054145

RUN NO. 72C 16M 10-18-62 0122-0238 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.15029 10E 00	0.66488 10E-01	0.17433 10E-01	0.10590 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.215862	.097240	-.042752	.218345
2	.082537	-.003557	.087747	.040113
3	-.005399	-.008514	-.078666	-.125122
4	-.021907	-.001604	.030635	-.142881
5	-.071026	-.002342	-.094777	-.047698
6	-.133466	-.118341	.002426	-.134447
7	-.058470	.033731	-.139323	-.060803
8	-.001646	.084024	-.005104	.000464
9	-.003308	.006929	-.160792	-.037537
10	-.062388	.004363	.035445	-.043281
11	-.054395	-.005941	-.145589	-.091031
12	-.071274	.073302	.009507	-.065061
13	-.084094	-.113365	-.111099	.004758
14	-.104562	-.129780	-.069075	-.077833
15	-.056709	-.044183	-.037406	-.051713
16	-.029710	-.021411	.068207	.026073
17	-.000930	.042553	-.006595	.076627
18	-.002824	-.055792	.056394	.129762
19	-.012906	.027801	-.021044	-.001290
20	-.025512	.071823	.143320	-.010155
21	-.043380	-.044123	.032321	.008019
22	.040432	-.025289	.064389	-.017887
23	.012078	-.170214	-.053263	-.046623
24	-.035600	-.004767	.032210	-.118324
25	-.066047	-.049038	.044075	-.038452
26	.010486	-.011430	.074925	.000253
27	.006529	.003282	-.114516	-.004876
28	.037611	-.095840	-.075598	.066496
29	-.005037	.041848	-.077951	-.097860
30	.025755	-.023796	-.066066	.026543

POWER SPECTRUM

K	U	V	W	T
	10E-02	10E-02	10E-02	10E-03
0	.114104	.097121	.003283	.038200
1	.848181	.421809	.033290	.298765
2	.931444	.289890	.068196	.411203
3	.993485	.248513	.102490	.647520
4	.847340	.212953	.078449	.654592
5	.814048	.249329	.058015	.542749
6	.924683	.377138	.065115	.683958
7	.908404	.362788	.063850	.762666
8	.688746	.235267	.052759	.613513
9-11	.461104	.232285	.059024	.498032
12-14	.553859	.244149	.059639	.440906
15-21	.525517	.292284	.068943	.273896
22-30	.677165	.356119	.126791	.502973

RUN NO. 72F 16M 10-18-62 0510-0626 EST

GROSS STATISTICS

CLEAR	WIND SPEED	4.48 M/SEC	WIND DIRECTION	324 DEG
STABLE	SIGMA A	5.5 DEG	SOLAR RADIATION	0.01
LAND	SIGMA E	3.3 DEG	NET RADIATION	-0.14

	WITH NO RUNNING MEAN	WITH 301 POINT RUNNING MEAN	WITH 61 POINT RUNNING MEAN	301 PT RUN MEAN 10 PT BLOCK AVG
VARIANCES				
U	0.43283E-00	0.28332E-00	0.25033E-00	0.13755E-00
V	0.18542E-00	0.17328E-00	0.16276E-00	0.51220E-01
W	0.65236E-01	0.64140E-01	0.63293E-01	0.14983E-01
T	0.61166E-01	0.24464E-01	0.20477E-01	0.12537E-01
E	0.34174E-00	0.26038E-00	0.23819E-00	

GUSTINESS RATIOS

U	0.14685	0.11801	0.11168	0.08279
V	0.09612	0.09292	0.09005	0.05052
W	0.05701	0.05653	0.05616	0.02732

COVARIANCES

U,V	-0.18865E-01	-0.18832E-02	-0.37065E-02	0.49370E-02
U,W	-0.53126E-01	-0.53518E-01	-0.52105E-01	-0.23162E-01
U,T	0.18983E-02	0.52331E-01	0.43547E-01	0.30462E-01
V,W	0.79307E-02	0.79514E-02	0.70067E-02	0.10354E-02
V,T	-0.56368E-02	-0.43884E-02	-0.42459E-02	0.40220E-03
W,T	-0.18585E-01	-0.16641E-01	-0.16309E-01	-0.57982E-02
WE	-0.68499E-02	-0.37423E-02	-0.42360E-02	

NORMALIZED COVARIANCES

U,V	-0.06659	-0.00850	-0.01836	0.05882
U,W	-0.31616	-0.39700	-0.41395	-0.51021
U,T	0.01167	0.62858	0.60822	0.73353
V,W	0.07211	0.07542	0.06903	0.03738
V,T	-0.05293	-0.06740	-0.07355	0.01587
W,T	-0.29422	-0.42011	-0.45302	-0.42305



RUN NO. 72F 16M 10-18-62 0510-0626 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20185 10E 00	0.12589 10E 00	0.71607 10E-01	0.10148 10E 00	0.57723 10E-01	0.36903 10E-01
0	-.018266	-.413851	.608220	.068927	-.073399	-.452906
1	-.015093	-.333727	.533687	.038948	-.052470	-.323681
2	-.014190	-.207193	.398765	.021977	-.020924	-.171125
3	-.007185	-.121217	.279411	.008893	.007444	-.078970
4	.006812	-.065360	.188952	-.002056	.027950	-.028647
5	.022675	-.026932	.119003	-.007866	.033885	-.002445
6	.038701	.003120	.054742	-.024245	.036507	.018115
7	.053254	.034473	-.007655	-.049384	.040976	.043662
8	.047004	.049938	-.055742	-.061402	.043527	.058425
9	.028364	.060182	-.085094	-.058552	.038410	.061854
10	.021560	.067926	-.103861	-.037112	.024602	-.057351
11	.008356	.061226	-.113186	-.023085	.015850	.050602
12	-.009715	.054604	-.121489	-.005852	.008637	.055866
13	-.017598	.056552	-.122307	.006717	-.001077	.063217
14	-.019475	.054781	-.115824	.014070	-.011526	.065537
15	-.017325	.055103	-.112056	.019742	-.022729	.051085
16	-.016340	.046132	-.098121	.030904	-.037073	.031717
17	-.024069	.030893	-.083075	.051714	-.052636	.009804
18	-.031159	.031031	-.080484	.052184	-.053121	.003699
19	-.034744	.032432	-.088415	.050692	-.044652	.013947
20	-.036355	.028090	-.102009	.043559	-.037872	.026371
21	-.035492	.038118	-.115789	.031760	-.023578	.044031
22	-.029294	.050237	-.120315	.018095	-.013694	.047992
23	-.023285	.057129	-.123602	.009451	-.010948	.057498
24	-.015868	.057583	-.128146	-.006590	-.005209	.066184
25	-.002172	.058057	-.123029	-.015981	.002204	.063183
26	.009710	.060863	-.109482	-.019393	.009888	.054333
27	.014965	.056794	-.084650	-.007219	.021206	.036570
28	.016561	.046714	-.057811	-.006132	.031865	.025835
29	.009541	.029313	-.033492	-.000102	.079187	.014011
30	.009988	.011363	-.009078	.008232	.015227	-.011642
31	.012474	-.006940	.014318	.010538	.003313	-.034462
32	.022797	-.028664	.035137	.000727	.007071	-.039534
33	.024614	-.032199	.048901	-.009684	.013131	-.036059
34	.019114	-.025272	.061037	-.015843	.019894	-.034556
35	.016300	-.016819	.066672	-.016192	.025610	-.032110
36	.023877	-.009453	.062478	-.024734	.031110	-.027148
37	.023314	-.010914	.051627	-.032858	.026755	-.024396
38	.014795	-.014429	.030644	-.017125	.013679	-.025618
39	.005411	-.019990	.024610	-.007023	.002370	-.027890
40	.001582	-.013417	.017187	-.011825	-.003012	-.022270
41	.002424	-.005899	.005095	-.026091	-.000275	-.010222
42	.009413	.009082	-.016879	-.039324	.007087	.009746
43	.007773	.017078	-.034320	-.035394	.014578	.023488
44	-.002804	.017915	-.049483	-.008454	.009509	.023509
45	-.017049	.019611	-.063057	.010543	.002928	.026058
46	-.013716	.026773	-.072781	.015508	-.001686	.029563
47	-.009073	.025291	-.069169	.011844	-.001380	.030138
48	-.008579	.028598	-.060704	.005248	-.005077	.025860
49	-.009367	.028974	-.047955	-.001628	-.013103	.023339
50	-.010906	.031074	-.036138	-.006188	-.018600	.027947
51	-.016324	.030617	-.020856	-.008585	-.018215	.034032
52	-.027627	.018473	-.010543	-.001517	-.020132	.025167
53	-.026857	.007144	-.002086	-.003733	-.020778	.015215
54	-.028700	.000761	.001823	-.013497	-.028400	.009435
55	-.028347	.006060	.001901	-.013642	-.034535	.017982
56	-.018087	.003414	.005246	-.007069	-.028333	.020432
57	-.000034	-.014171	.016174	-.003528	-.017499	-.000717
58	.009848	-.025513	.021402	-.006395	-.013063	-.016503
59	.015075	-.023962	.023525	-.011070	-.012962	-.016908
60	.017969	-.012594	.017566	-.006541	-.014446	-.010214

RUN NO. 72F 16M 10-18-62 0510-0626 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.20185 10E 00	0.12589 10E 00	0.71607 10E-01	0.10148 10E 00	0.57723 10E-01	0.36003 10E-01
1	-.015016	-.013713	.043175	.003116	-.009188	-.048333
2	-.020438	-.009383	.069423	.000143	-.001626	-.066400
3	-.021754	.006429	.077636	-.001789	.007739	-.061113
4	-.023452	.031429	.072188	-.005678	.015657	-.057009
5	-.030813	.040512	.068878	.000553	.015232	-.059520
6	-.031807	.035876	.069965	.005293	.015737	-.058274
7	-.038999	.025558	.072511	.007453	.014962	-.059983
8	-.044377	.022696	.078093	-.003018	.020895	-.061807
9	-.046305	.018729	.086783	-.010668	.029439	-.054143
10	-.039393	.013199	.089821	-.019004	.031371	-.054080
11	-.026380	.008590	.089028	-.008001	.021801	-.060094
12	-.016528	.007867	.087052	.007359	.011164	-.060104
13	-.013548	.006300	.085434	.004872	.008884	-.052708
14	-.020969	.009314	.077886	-.008413	.017994	-.038004
15	-.021953	.006689	.068917	-.011363	.023695	-.025790
16	-.026046	.004006	.061109	-.029716	.023577	-.025297
17	-.022816	.008258	.052643	-.040378	.027188	-.026725
18	-.016845	.019675	.039616	-.033179	.027515	-.020509
19	-.008191	.018770	.023036	-.024495	.018774	-.016380
20	-.003472	.008631	.015221	-.013917	.001968	-.003302
21	-.002959	-.006030	.010726	-.011453	-.005082	.016794
22	.003582	-.009072	.005749	-.002513	-.001845	.024394
23	.009372	-.011473	.002000	.012630	-.011567	.023229
24	.017755	-.009835	-.003911	.017163	-.019809	.018658
25	.025115	-.003694	-.010049	.018921	-.026717	.013310
26	.025541	-.010068	-.014619	.019320	-.037297	.019129
27	.019595	-.021246	-.016212	.018335	-.035005	.026626
28	.010477	-.020042	-.019806	.004053	-.029118	.027223
29	.008634	-.009487	-.026455	-.014357	-.030822	.032268
30	.018007	.001093	-.031988	-.005227	-.038083	.034932
31	.027285	.016572	-.038536	.011170	-.043054	.030401
32	.031218	.022542	-.044957	.026231	-.045575	.026591
33	.034459	.022618	-.043594	.028736	-.044231	.021538
34	.026748	.016410	-.032319	.013589	-.036707	.013727
35	.026858	.013637	-.027209	.006160	-.037194	.005626
36	.024732	.020987	-.030716	.008212	-.033496	-.004487
37	.025794	.022691	-.032644	.023363	-.027289	-.002606
38	.020689	.019404	-.028700	.033035	-.020517	-.005959
39	.016940	.009530	-.019354	.038889	-.015380	-.016649
40	.011030	-.003736	-.005116	.029076	-.011352	-.014592
41	-.006980	-.011765	.004515	.005078	.002651	-.010207
42	-.014685	-.016166	.009685	-.007617	.004086	-.008900
43	-.010694	-.022028	.007769	-.007924	-.000259	-.004702
44	-.003564	-.022434	-.001692	.000309	-.003180	.011407
45	.006248	-.019368	-.007410	.010064	-.006362	.016747
46	.006337	-.019087	-.006421	.000997	-.006091	.015393
47	.009413	-.017934	-.010998	.009841	-.009900	.013314
48	.015463	-.013150	-.020934	.009436	-.010815	.003434
49	.014727	-.014209	-.025374	-.005034	-.002844	-.001809
50	.012267	-.007941	-.026478	-.018150	.005667	.005296
51	.005716	-.011293	-.021614	-.020695	.008595	.005045
52	-.006453	-.012822	-.015605	-.015123	.015235	.008347
53	-.015119	-.011426	-.013576	-.008128	.026732	.016584
54	-.018279	-.011845	-.017714	.006509	.026116	.016435
55	-.017354	-.014335	-.026894	.009244	.024228	.020030
56	-.006388	-.011220	-.036643	.006507	.023259	.025743
57	-.000664	-.011366	-.038717	-.007204	.021187	.034513
58	-.004471	-.015630	-.030272	-.021397	.021995	.034049
59	-.005240	-.024387	-.013724	-.027655	.021420	.025826
60	-.004661	-.022282	.002461	-.025774	.021044	.019092

RUN NO. 72F 16M 10-18-62 0510-0626 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.25039 1OE 00	0.16271 1OE 00	0.63299 1OE-01	0.20478 1OE-01
0	1.000000	1.000000	1.000000	1.006700
1	.800523	.647707	.581331	.773243
2	.552218	.312975	.205420	.502719
3	.364681	.130035	.036737	.327531
4	.230713	.037867	-.030342	.207393
5	.125528	-.008769	-.053104	.127159
6	.043277	-.021077	-.055417	.062975
7	-.021527	-.033433	-.087131	.016569
8	-.071553	-.074617	-.094411	-.020774
9	-.107613	-.089044	-.087046	-.053255
10	-.129945	-.099771	-.074754	-.079563
11	-.141072	-.100704	-.052249	-.109093
12	-.150255	-.099581	-.040718	-.143639
13	-.159487	-.089847	-.050237	-.169199
14	-.151575	-.088994	-.048996	-.178162
15	-.139736	-.088781	-.042094	-.165840
16	-.127454	-.103105	-.049344	-.143020
17	-.114593	-.106836	-.043267	-.121158
18	-.106602	-.127849	-.032534	-.121913
19	-.111213	-.132651	-.029264	-.141034
20	-.110578	-.126414	-.035360	-.161758
21	-.114675	-.114761	-.049263	-.183204
22	-.124719	-.116943	-.053853	-.185140
23	-.137918	-.098058	-.058617	-.181579
24	-.146851	-.078125	-.073947	-.172795
25	-.146986	-.049155	-.088413	-.156701
26	-.143702	-.029051	-.096750	-.137790
27	-.129041	-.033768	-.088209	-.116799
28	-.112530	-.046202	-.088198	-.095359
29	-.095177	-.034433	-.073802	-.073169
30	-.070511	-.021861	-.040718	-.046513
31	-.039161	-.019977	.007162	-.013823
32	-.006246	.001671	.031577	.019115
33	.011618	.023814	.041910	.040972
34	.018899	.025976	.027042	.057755
35	.019318	.034096	.005968	.063254
36	.021691	.048010	-.020669	.053496
37	.021947	.040594	-.015357	.038817
38	.021990	.033170	.014991	.026747
39	.023161	.022232	.027393	.025174
40	.017135	.026151	.014575	.024526
41	.001452	.031177	.009556	.020712
42	-.028971	.021551	-.002519	.004276
43	-.057717	.001367	-.022171	-.014226
44	-.072179	-.023921	-.009709	-.033249
45	-.078103	-.035496	-.003130	-.046968
46	-.074794	-.017356	.002771	-.051713
47	-.062303	.004826	.018543	-.044314
48	-.052956	.033602	.031768	-.027159
49	-.040389	.060736	.024004	-.010420
50	-.034370	.047488	.002540	.002297
51	-.022446	.022804	-.017574	.007843
52	-.008111	.018330	-.030284	.004164
53	.008420	.019834	-.022527	.007335
54	.012593	.012876	-.003145	.011756
55	.008251	-.015368	-.003621	.001589
56	.005299	-.034540	-.012456	.000462
57	.016033	-.052739	.011531	.022608
58	.026616	-.052918	.020663	.042579
59	.029322	-.045842	.022677	.047790
60	.023639	-.023118	.023343	.036923

RUN NO. 72F 16M 10-18-62 0510-0626 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	.005871	-.024483	.031622	.003047	.020963	-.006360
1	.019015	-.289448	.335564	.021698	-.029374	-.059507
2	.065015	-.410495	.476481	-.026462	.094973	-.089338
3	.182842	-.557407	.656018	-.076427	.464692	-.140524
4	.113546	-.498376	.565249	-.017181	.292424	-.132196
5	-.115538	-.376298	.352974	.085121	-.386938	-.095159
6	-.213721	-.418205	.352749	.143905	-.833757	-.113387
7-8	-.157821	-.374506	.313669	.146584	-.711862	-.113774
9-11	-.087397	-.189778	.114156	.013184	-.217930	-.054858
12-15	.023889	-.132924	.081233	-.002875	-.234730	-.054183
16-20	.018513	-.091097	.047595	.010353	-.091525	-.032347
21-27	-.001371	-.056302	.031528	.019139	-.063539	-.026048
28-36	.005091	-.029539	.009235	.003771	-.013509	-.012766
37-47	-.006250	-.013674	.004836	.008183	-.015975	-.008572
48-60	-.002402	-.003831	.002045	.006939	-.010507	-.004779

QUADRATURE SPECTRUM

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
1	-.040435	.690140	.151160	-.031386	-.281286	-.342058
2	-.223387	.661696	.223264	-.545397	.475708	-.614405
3	-.311245	.709953	.244001	-.493083	.804074	-.880648
4	-.171515	.972087	.139745	.198212	.220607	-.698700
5	-.054323	.520854	.047251	.410017	-.199587	-.277414
6	-.053730	-.061228	.031332	.296071	-.078290	-.132585
7-8	-.033648	.517276	.013291	-.111489	.060752	-.153886
9-11	.004718	-.110049	.033645	.012951	-.047872	-.143667
12-15	.002556	-.280871	.025770	-.064797	-.034560	-.123523
16-20	-.027277	-.304172	.013050	.018816	-.030289	-.052388
21-27	-.003633	-.145668	.004174	.071034	-.052973	-.065460
28-36	-.007398	.031338	.000487	-.006100	-.016615	-.024069
37-47	.001118	-.025485	.000435	-.007628	-.010044	.003272
48-60	-.002370	-.031661	.000596	.034416	-.012375	-.001923

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-01	10E-02	10E-02
0	.015979	.003055	.012295	.012671
1	.186591	.051348	.182881	.139806
2	.246524	.093589	.277344	.202975
3	.299686	.136380	.347412	.261785
4	.256741	.122483	.295506	.210270
5	.193272	.090419	.268612	.132294
6	.194566	.081362	.329949	.123784
7-8	.154370	.080285	.341061	.111564
9-11	.081023	.066389	.260165	.060575
12-15	.057058	.049230	.206162	.058042
16-20	.034312	.040997	.171201	.029563
21-27	.023226	.025260	.131381	.022796
28-36	.013767	.017765	.080481	.013692
37-47	.007952	.011448	.060383	.008375
48-60	.005669	.008434	.037136	.004830

RUN NO. 72F 16M 10-18-62 0510-0626 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
	0.83976 10E-01	0.45389 10E-01	0.41529 10E-01	0.27707 10E-01	0.25350 10E-01	0.13702 10E-01
0	.058791	-.510309	.733518	.037370	.015866	-.423171
1	.028149	-.036480	.204761	-.038028	.013473	.004647
2	-.016326	.048705	.047003	.063248	-.019708	.030804
3	.036273	.023250	.046472	-.044766	.015519	-.004623
4	.023623	.098866	-.039208	-.061483	.020844	.071277
5	-.014822	.129222	-.111279	-.008161	-.037285	.120896
6	-.015985	-.047624	.019547	.038433	-.044725	-.002019
7	.005311	-.018397	-.014204	.034834	.038832	-.003463
8	.010184	-.022809	-.034206	.063913	.039591	-.011568
9	.032455	-.060254	-.006175	-.073256	.090573	-.054028
10	-.009729	.051358	-.054904	-.027044	-.008942	.009363
11	.009990	.055721	-.105242	.007179	-.019036	.011103
12	-.031067	.052835	-.116936	.009528	-.002405	.012220
13	-.044875	.074567	-.141922	.030354	-.033378	.085642
14	.005216	.024175	-.146169	.006565	-.015760	.064840
15	-.024851	-.029897	-.051324	.047677	-.025069	.003756
16	-.057121	.003133	-.097932	.046635	-.063541	-.035195
17	-.001519	-.055048	-.020721	-.038294	-.008360	-.080525
18	.008262	-.076328	.036411	-.036575	-.008057	-.084042
19	.010632	.064715	-.029961	-.041092	.002503	.020892
20	-.029766	-.000184	-.016285	-.069989	-.015275	.055689
21	-.036168	-.020210	.003222	.039128	-.021938	.001091
22	-.000495	.000461	.024814	.042808	.013986	.017508
23	.030399	.012414	-.020592	-.003734	-.004084	.057529
24	-.013480	-.020961	.066206	.053378	-.052654	.002610
25	-.020974	-.032551	.045774	-.035304	-.057208	-.016153
26	.045059	.007834	.033452	-.053878	.042353	-.019399
27	-.040493	.027070	.066788	.039950	-.029747	-.035629
28	.016403	-.039753	.152049	-.047180	.047933	-.047378
29	.047705	-.026217	.137417	.010675	.044249	-.008231
30	.015342	-.004651	.053415	.005640	.030283	.028344

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	.054865	-.001449	.010196	.008558	-.008472	.002608
1	.834529	-.026680	.186610	-.001297	.167768	-.045163
2	.803177	-.057082	.262241	-.072785	.106910	-.102044
3	.326052	-.084997	.243987	-.102716	-.116622	-.179584
4	-.053767	-.066646	.137347	.018317	-.194313	-.185165
5	.144121	-.058154	.124676	.044157	.000543	-.162734
6	.500871	-.123175	.188261	-.140151	.259836	-.374723
7	.511921	-.206715	.219234	.046088	.257733	-.552808
8	.054278	-.194527	.168038	.463011	.109387	-.328049
9-11	-.237480	-.094779	.108959	.204986	-.183727	-.166100
12-14	.365744	-.063017	.083553	-.337764	.076839	-.114759
15-21	.522700	-.134053	.133818	-.118483	.124830	-.364544
22-30	-.181981	-.094587	.091581	.375900	-.094114	-.295384

RUN NO. 72F 16M 10-18-62 0510-0626 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
	0.22976 10E-01	0.45389 10E-01	0.41529 10E-01	0.27707 10E-01	0.25350 10E-01	0.13702 10E-01
1	-.038287	.086095	.124665	.029516	-.028636	-.140903
2	.046866	.004571	.077763	-.047865	-.087134	-.012990
3	.061054	.001619	.008689	.068378	-.137033	.038358
4	.064588	-.014538	.001082	.021363	-.089847	.011141
5	.033301	-.013329	-.034571	-.017850	-.024952	.039466
6	-.047659	-.037724	-.001078	-.087745	.048357	.018956
7	-.049511	.039704	.055523	-.082728	.020740	-.078341
8	-.045271	.036392	-.003006	-.021536	.067986	.005758
9	.040538	-.020200	.007146	-.015570	-.050729	.019122
10	.075909	.037510	-.026513	.068328	-.127131	.003724
11	.054395	.012913	-.010347	.042608	-.102941	-.027321
12	.063001	-.019026	-.028777	.038280	-.075603	.032404
13	.043641	-.099450	.004442	.033067	-.045025	.048563
14	.071170	-.015863	-.037157	.026904	-.034844	.022107
15	-.064167	.028741	-.028184	-.110145	.083057	.004686
16	-.040476	.040535	-.002969	-.016778	.015937	-.034325
17	-.003220	.045097	.010423	-.028475	-.007886	-.079713
18	-.027305	.003228	-.024365	-.061960	.037441	-.004248
19	-.024180	-.043736	.004950	.067167	.035670	.031797
20	-.022525	-.046874	-.018162	.008864	.093332	.097376
21	-.017291	-.028667	.003637	.051693	.012871	.044456
22	.074322	.046037	-.026500	.043063	-.082638	-.003459
23	-.011182	-.043764	.009956	-.045099	.057514	.011735
24	.023577	.044514	-.034354	-.042512	.055057	-.015163
25	-.016904	.024106	.026354	.002614	.056454	-.075873
26	-.053905	.031498	.001695	.049939	.032885	-.014842
27	-.040118	.019240	.017265	.045994	-.024596	-.007611
28	.024215	-.042554	-.010276	-.018757	-.064162	.056762
29	.030429	.054698	.021576	.015341	-.065335	-.062665
30	.020626	-.024272	.055701	.025176	-.018159	-.015302

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	.120122	-.026954	-.153493	-.118115	-.590527	.047845
2	.090045	.057881	.161289	-.121156	-.586858	-.004234
3	.018956	.113576	.398714	-.158513	-.260304	-.013342
4	-.040471	.075946	.382864	-.235401	-.005599	-.021354
5	.058072	-.012423	.261151	-.024242	-.362175	-.031584
6	.198677	-.230818	.216663	.538131	-.865066	.068448
7	.159289	.103426	.385194	.661110	-.878002	-.011819
8	.029836	.798574	.568601	.118515	-.422158	-.227177
9-11	-.090868	.290199	.727262	-.224274	.212871	-.181036
12-14	-.057635	.311910	.354883	-.200712	.088571	-.178137
15-21	-.035903	.318341	.304295	.119571	.055210	-.176794
22-30	-.027398	.182262	.013582	.265640	-.034623	-.043127

RUN NO. 72F 16M 10-18-62 0510-0626 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T
	0.13757 10E 00	0.51261 10E-01	0.14975 10E-01	0.12536 10E-01
0	1.000000	1.000000	1.000000	1.000000
1	.231508	.034307	-.023322	.306706
2	.033187	-.080319	-.084641	.071242
3	-.043140	.008452	-.131702	.050679
4	-.112030	-.041509	-.166565	-.032949
5	-.147368	-.017366	-.134219	-.074109
6	.053023	-.015896	.037990	-.002768
7	.019973	-.001011	.047017	-.050970
8	-.023473	-.022405	.027260	-.073915
9	-.019543	-.052921	.080676	-.019880
10	-.101541	.000837	-.018854	-.030296
11	-.163630	-.001453	-.100053	-.098860
12	-.111480	-.109069	-.088470	-.134262
13	-.125787	-.123248	-.062413	-.220753
14	-.055352	-.072824	-.006759	-.227546
15	.017601	.059367	.023215	-.129101
16	-.068349	.030180	.088533	-.125187
17	-.012652	-.039151	.068859	-.070228
18	-.015740	.065721	.055174	.028138
19	-.069797	-.002810	-.054290	-.018580
20	-.013250	-.126036	-.040789	-.055252
21	.029202	.043161	.023798	.001240
22	.017077	.030906	-.058409	.044099
23	.001125	.022928	-.036791	-.020251
24	.086407	-.066198	.041797	.046852
25	.057141	-.006172	.040563	.066693
26	.022875	.104377	-.008397	.118844
27	.017393	-.005991	-.068289	.147006
28	.108215	.020714	-.024523	.207059
29	.116815	-.029243	.072670	.156633
30	.041098	-.067279	-.034843	.072225

POWER SPECTRUM

K	U	V	W	T
	10E-01	10E-02	10E-02	10E-02
0	.004776	.030326	.001230	.005386
1	.060986	.181538	.011052	.086988
2	.085160	.196793	.018421	.115865
3	.089072	.216503	.034002	.100565
4	.064444	.171908	.037886	.055727
5	.056258	.136934	.034442	.057517
6	.067863	.177100	.063879	.082935
7	.095336	.246412	.112689	.083628
8	.105289	.223870	.112099	.053274
9-11	.061849	.198534	.066065	.048691
12-14	.039534	.206326	.055800	.042419
15-21	.056064	.258894	.071324	.047726
22-30	.049296	.277205	.088835	.038041

RUN NO. 76A 16M 10-24-62 1451-1606 EST

GROSS STATISTICS

CLEAR	WIND SPEED	6.54 M/SEC	WIND DIRECTION	290 DEG
TRANSITIONAL	SIGMA A	14.2 DEG	SOLAR RADIATION	0.29
LAND	SIGMA E	5.6 DEG	NET RADIATION	0.02

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

VARIANCES

U	0.20908E 01	0.13288E 01	0.87103E 00	0.94019E 00
V	0.28934E 01	0.14617E 01	0.79200E 00	0.10117E 01
W	0.36781E-00	0.35985E-00	0.32144E-00	0.14062E-00
T	0.11960E-00	0.75324E-02	0.37489E-02	0.58180E-02
N	0.62077E 00	0.33891E-00	0.12592E-00	0.28240E-00
RHO(W)	0.23867E-01	0.10638E-01	0.39767E-02	0.88126E-02
E	0.26760E 01	0.15755E 01	0.99224E 00	

GUSTINESS RATIOS

U	0.22109	0.17626	0.14270	0.14826
V	0.26009	0.18487	0.13608	0.15380
W	0.09273	0.09172	0.08669	0.05734

COVARIANCES

U,V	-0.24208E-00	-0.65595E-01	-0.11996E-01	-0.72921E-01
U,W	-0.31429E-00	-0.23372E-00	-0.19596E-00	-0.15131E-00
U,T	-0.10668E-01	-0.56998E-01	-0.26974E-01	-0.47177E-01
V,W	0.38229E-01	0.13844E-01	0.11238E-02	0.17447E-01
V,T	-0.14477E-00	0.36023E-01	0.16158E-01	0.27911E-01
W,T	0.14940E-01	0.11691E-01	0.74227E-02	0.83905E-02
U,N	-0.52889E 00	-0.23927E-00	-0.94872E-01	-0.20485E-00
U,RHO(W)	-0.88619E-01	-0.49128E-01	-0.20241E-01	-0.41820E-01
V,N	-0.74252E-01	-0.26416E-01	-0.28028E-01	-0.13471E-01
V,RHO(W)	-0.37169E-01	0.19091E-02	-0.18048E-02	0.25939E-02
W,N	0.10905E-00	0.96018E-01	0.74157E-01	0.58666E-01
W,RHO(W)	0.20480E-01	0.17787E-01	0.13469E-01	0.11078E-01
T,N	0.63014E-01	0.22262E-01	0.81397E-02	0.17952E-01
T,RHO(W)	0.31005E-01	0.49592E-02	0.19864E-02	0.39541E-02
N,RHO(W)	0.11277E-00	0.59528E-01	0.22103E-01	0.49499E-01
WE	0.35855E-01	0.54755E-01	0.33920E-01	

NORMALIZED COVARIANCES

U,V	-0.09842	-0.04706	-0.01444	-0.07477
U,W	-0.35840	-0.33798	-0.37035	-0.41613
U,T	-0.02133	-0.56971	-0.47205	-0.63787
V,W	0.03706	0.01909	0.00223	0.04626
V,T	-0.24610	0.34330	0.29654	0.36381
W,T	0.07123	0.22456	0.21383	0.29335
U,N	-0.46425	-0.35654	-0.28647	-0.39756
U,RHO(W)	-0.39671	-0.41321	-0.34392	-0.45943
V,N	-0.05540	-0.03753	-0.08875	-0.02520
V,RHO(W)	-0.14144	0.01531	-0.03216	0.02747
W,N	0.22822	0.27495	0.36860	0.29440
W,RHO(W)	0.21859	0.28748	0.37672	0.31469
T,N	0.23127	0.44061	0.37464	0.44288
T,RHO(W)	0.58033	0.55401	0.51448	0.55222
N,RHO(W)	0.92650	0.99142	0.98773	0.99222



RUN NO. 76A 16M 10-24-62 1451-1606 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.83056 10E 00	0.52922 10E 00	0.57162 10E-01	0.50452 10E 00	0.54494 10E-01	0.34723 10E-01
0	-.014480	-.370374	-.472049	.002220	.296683	.213753
1	-.015748	-.334010	-.432501	.007044	.246472	.198358
2	-.019679	-.271036	-.365928	.021497	.178397	.168600
3	-.022774	-.215709	-.306167	.024149	.128256	.137166
4	-.024008	-.168262	-.253485	.019643	.095696	.107507
5	-.030086	-.122531	-.206299	.014166	.075233	.078346
6	-.035238	-.088804	-.164888	.008200	.064183	.051102
7	-.038276	-.062787	-.127726	.010373	.057715	.035327
8	-.032976	-.031500	-.096851	.017205	.047888	.026654
9	-.024986	-.005001	-.063740	.022448	.034940	.021606
10	-.019267	.016938	-.034807	.018514	.029491	.009822
11	-.016386	.032633	-.005808	.010175	.025998	-.005824
12	-.009098	.044173	.024350	.009654	.026215	-.020024
13	.001028	.057799	.052966	.003899	.020139	-.028867
14	.007499	.073218	.072886	.003630	.004676	-.033950
15	.001700	.085813	.090622	-.000745	-.009051	-.040638
16	-.005799	.101005	.102671	.006569	-.016991	-.044415
17	-.007243	.115876	.109654	.014679	-.023564	-.045429
18	-.006834	.120855	.116040	.007743	-.025745	-.047561
19	-.002301	.118199	.121804	.004406	-.028180	-.049324
20	-.004505	.118090	.123619	-.000814	-.026036	-.049959
21	-.004826	.116183	.129456	-.002937	-.020011	-.053625
22	.006293	.116546	.141410	-.010164	-.023808	-.057861
23	.016830	.118066	.157225	-.015371	-.037113	-.062807
24	.024638	.115404	.167117	-.015700	-.054909	-.069735
25	.026156	.109287	.167547	-.016973	-.067068	-.078556
26	.021657	.093296	.160722	-.021767	-.071291	-.079226
27	.019387	.080055	.145704	-.029965	-.077389	-.076475
28	.018855	.066964	.130596	-.032668	-.078679	-.064883
29	.026737	.061479	.118640	-.030233	-.074233	-.055315
30	.030742	.046584	.104760	-.023310	-.067016	-.049401
31	.031080	.031840	.088124	-.018842	-.060528	-.038986
32	.029240	.017314	.069040	-.016120	-.058932	-.027400
33	.027956	.006820	.051756	-.014301	-.055784	-.020376
34	.021531	-.007451	.033169	-.014763	-.051468	-.007382
35	.019194	-.020229	.017135	-.012559	-.048454	.000254
36	.023036	-.026604	.007278	-.022903	-.045530	-.003536
37	.020312	-.032508	.000490	-.033872	-.035893	-.002824
38	.012643	-.041395	-.004650	-.034970	-.038273	.004400
39	.003810	-.042908	-.004660	-.033961	-.042563	.012378
40	-.002906	-.048571	.001134	-.027987	-.036227	.025572
41	-.003852	-.053018	.003261	-.018769	-.028763	.034907
42	-.002229	-.043460	.003297	-.011800	-.025529	.035216
43	.001226	-.026607	.007003	-.007644	-.030448	.030431
44	.000583	-.014342	.005321	.003346	-.031935	.027518
45	-.002075	-.008286	.008228	.018265	-.030084	.021536
46	-.002699	-.001471	.005872	.032068	-.027960	.011168
47	-.001833	.005736	-.004290	.031018	-.030915	.002054
48	-.001273	.008015	-.016969	.022556	-.036823	-.003332
49	.001043	.011314	-.021801	.015149	-.041096	.000033
50	.004584	.012562	-.018124	.018093	-.042965	.007350
51	.012057	.009008	-.007835	.027991	-.047168	.013925
52	.016821	.005766	-.005978	.030403	-.041377	.016330
53	.011600	.005426	-.005851	.027600	-.029935	.011790
54	.000189	.004557	-.011654	.026704	-.019742	.009955
55	-.007863	.008687	-.020331	.016686	-.005665	-.000733
56	-.007977	.009413	-.024706	.014967	.001081	-.011857
57	-.007205	.008457	-.029195	.012423	.000618	-.015824
58	-.010380	.004127	-.033776	.011674	.002208	-.006519
59	-.020901	.002520	-.034422	.015983	.009892	-.002807
60	-.025160	.005763	-.025134	.019351	.017493	-.006456

RUN NO. 76A 16M 10-24-62 1451-1606 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)
	0.33123	0.58861	0.31577	0.56114	0.20120	0.35755	0.21732	0.38620	0.22378
	10E 00	10E-01	10E 00	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
0	-.286542	-.343966	-.088818	-.032003	.368530	.376582	.374525	.514425	.987692
1	-.268078	-.320206	-.074282	-.027180	.298663	.309338	.305065	.421820	.797545
2	-.227159	-.271123	-.061490	-.026869	.206024	.218632	.214231	.302344	.590803
3	-.184013	-.221356	-.053313	-.027795	.132986	.145800	.152585	.220168	.464302
4	-.139866	-.171852	-.045396	-.026106	.086668	.098138	.109106	.162550	.377821
5	-.103744	-.130581	-.038855	-.023542	.056316	.065176	.081926	.125950	.308487
6	-.076467	-.098504	-.036119	-.022852	.032307	.038427	.064288	.100827	.249098
7	-.053317	-.070791	-.032036	-.020014	.022848	.027042	.042709	.071072	.192467
8	-.032280	-.046107	-.021606	-.012078	.008268	.012124	.025546	.045906	.138768
9	-.010713	-.020516	-.012513	-.005930	-.008980	-.004681	.010922	.023947	.086657
10	.006609	.000306	-.001855	.003095	-.025287	-.021653	-.003954	.004048	.035590
11	.023820	.021053	.001198	.005331	-.035885	-.034312	-.014804	-.011150	-.009276
12	.038836	.040012	.000135	.004500	-.038517	-.039151	-.027795	-.027797	-.045560
13	.051517	.056404	-.003542	.000059	-.039669	-.041808	-.043916	-.047902	-.082094
14	.061583	.069012	-.001647	-.000713	-.044293	-.046792	-.053452	-.062128	-.113085
15	.072096	.081776	-.000879	-.002257	-.050091	-.053212	-.058482	-.070249	-.131054
16	.082134	.093119	.007400	.004059	-.055823	-.059082	-.058286	-.072370	-.142925
17	.084861	.096698	.018053	.012751	-.057910	-.060951	-.052968	-.068607	-.150550
18	.080961	.094120	.019052	.013436	-.061997	-.065215	-.047717	-.064923	-.154654
19	.076684	.091152	.022406	.016028	-.063743	-.067301	-.048740	-.067570	-.167469
20	.072861	.087840	.035483	.028479	-.063426	-.067027	-.046289	-.065755	-.179538
21	.070900	.086783	.046080	.039335	-.065415	-.069301	-.041125	-.061044	-.187090
22	.064520	.083041	.043056	.035871	-.061140	-.066133	-.030350	-.051505	-.189207
23	.064842	.086140	.036668	.027683	-.057147	-.063303	-.024092	-.048831	-.194332
24	.067769	.090549	.037109	.025301	-.060006	-.067172	-.031594	-.060763	-.204849
25	.069484	.092391	.036292	.022606	-.060643	-.069362	-.052305	-.085459	-.214067
26	.065056	.087100	.031250	.017342	-.059508	-.068365	-.064876	-.100321	-.219726
27	.054162	.074544	.024232	.009870	-.057151	-.065724	-.056016	-.092802	-.213377
28	.042684	.061605	.019818	.005436	-.049103	-.056171	-.047157	-.083969	-.191469
29	.036778	.054306	.024105	.010260	-.039432	-.045510	-.041668	-.077776	-.170091
30	.021786	.038000	.030624	.017452	-.032540	-.038171	-.032575	-.066850	-.143668
31	.007947	.022395	.034299	.021689	-.028464	-.032645	-.018001	-.049581	-.108434
32	-.001849	.010101	.029794	.017732	-.021651	-.024348	-.011574	-.040760	-.087347
33	-.009095	.000598	.026420	.015121	-.024538	-.026084	-.005322	-.031882	-.081064
34	-.014606	-.007757	.017990	.008021	-.021039	-.020852	.007085	-.015514	-.063289
35	-.017493	-.013139	.020757	.011003	-.010327	-.009623	.019603	.000235	-.044237
36	-.021516	-.018463	.019947	.010743	-.003873	-.004296	.032234	.015688	-.021420
37	-.021764	-.019774	.018477	.011166	-.003524	-.003777	.036665	.023204	-.011973
38	-.021805	-.020800	.007180	.000313	-.001739	-.000993	.030848	.019309	-.006863
39	-.023035	-.021989	-.006298	-.012926	.006102	.007710	.016996	.006370	-.011830
40	-.023561	-.021447	-.013440	-.018470	.021848	.024539	.003793	-.005902	-.016395
41	-.019387	-.017217	-.017407	-.020810	.033123	.036490	-.002350	-.009578	-.007579
42	-.007937	-.006597	-.024951	-.027346	.033924	.037393	.000417	-.003727	.003578
43	.004256	.005324	-.026558	-.029896	.020240	.023967	.005141	.003002	.008860
44	.009457	.009913	-.016600	-.021072	.010371	.014232	-.000336	-.001703	.005929
45	.012471	.013150	-.002536	-.007550	.018068	.020274	-.014828	-.017106	.003747
46	.011992	.012206	.001008	-.003817	.023568	.023623	-.026806	-.028841	.006178
47	.007563	.006288	-.009629	-.014243	.076208	.024679	-.038721	-.038613	.001234
48	.006747	.003276	-.020529	-.025387	.025539	.023057	-.039561	-.038458	-.000046
49	.008665	.004105	-.022376	-.027798	.018763	.017487	-.036467	-.035726	-.001262
50	.014718	.010412	-.020456	-.026237	.013306	.013428	-.037448	-.038264	.001133
51	.025092	.021713	-.021826	-.028033	.015343	.016422	-.041165	-.043288	.006815
52	.030211	.026696	-.023199	-.028386	.018602	.020075	-.041397	-.043199	.008432
53	.035246	.031333	-.019724	-.023333	.005535	.007410	-.042068	-.043415	-.004858
54	.033012	.028348	-.016596	-.018666	-.008306	-.005829	-.043356	-.044232	-.013973
55	.028050	.022250	-.017500	-.017231	-.023444	-.021768	-.044556	-.044672	-.023406
56	.023090	.016902	-.017849	-.016496	-.039640	-.038512	-.043844	-.043495	-.033227
57	.024000	.017061	-.024278	-.022433	-.044113	-.043455	-.041990	-.040780	-.035302
58	.024193	.016425	-.026147	-.023813	-.039156	-.037364	-.026489	-.023220	-.025966
59	.027897	.019754	-.020356	-.017141	-.039110	-.036842	-.013766	-.007542	-.017056
60	.036649	.029363	-.016529	-.012288	-.037167	-.035356	-.022362	-.014589	-.031986

RUN NO. 76A 16M 10-24-62 1451-1606 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

N	U,V	U,W	U,T	V,W	V,T	W,T
	0.83056 10E 00	0.52922 10E 00	0.57162 10E-01	0.50452 10E 00	0.54494 10E-01	0.34723 10E-01
1	.018472	-.047581	-.036784	.003619	.030574	.004901
2	.037494	-.068885	-.053942	.003843	.044784	.017988
3	.046340	-.074194	-.063629	.003891	.054239	.023145
4	.052809	-.064234	-.069540	.011203	.059286	.028975
5	.062408	-.056205	-.071329	.019245	.064184	.025143
6	.072988	-.043190	-.073283	.024787	.072389	.017162
7	.074757	-.025151	-.077293	.027055	.074813	.017261
8	.069871	-.014099	-.083947	.022244	.076168	.022087
9	.061894	-.014215	-.087521	.012623	.071184	.028930
10	.056776	-.015484	-.088461	.006840	.064737	.034914
11	.046578	-.017808	-.087598	.005718	.055375	.027899
12	.030401	-.025288	-.083935	.008655	.036203	.019901
13	.018794	-.026631	-.076212	.013234	.023712	.016470
14	.011610	-.020064	-.063787	.014234	.021091	.013338
15	.005828	-.010581	-.053818	.015538	.023409	.017633
16	.003296	.000087	-.043946	.012283	.023061	.027746
17	.000473	.008403	-.032609	.007202	.017841	.035973
18	.001612	.015168	-.022165	.015121	.015425	.037515
19	.003141	.009355	-.019646	.020458	.016778	.032952
20	.008837	-.004612	-.014288	.017859	.021091	.021135
21	.010577	-.013405	-.007807	.010012	.025519	.007638
22	.011599	-.018270	-.001871	.006447	.029123	-.000612
23	.011637	-.020811	.002384	.006757	.030075	-.006813
24	.011327	-.025919	.010126	.002603	.031828	-.008131
25	.009676	-.022180	.013627	-.001088	.027989	-.007207
26	.003022	-.017958	.015225	-.010457	.011790	-.004655
27	-.007490	-.020534	.016630	-.016545	-.008225	-.004836
28	-.012101	-.020839	.018094	-.011182	-.015468	-.009816
29	-.005462	-.017794	.022935	-.004293	-.012284	-.011529
30	.007032	-.005631	.027502	.001007	-.011439	-.004332
31	.016573	.008462	.031173	.009431	-.011736	.003494
32	.019017	.026775	.037672	.016936	-.008789	.004902
33	.021174	.036298	.047040	.019741	-.008569	-.000174
34	.021625	.040121	.049926	.018504	-.006792	-.003577
35	.020134	.045903	.048087	.018509	-.001865	.000873
36	.019201	.041498	.049625	.018804	.009674	.003628
37	.024415	.035040	.054272	.012964	.021958	-.001970
38	.026533	.025145	.054874	.006482	.025381	-.008610
39	.025604	.018389	.050757	-.000967	.024508	-.009411
40	.015566	.015242	.037771	-.003141	.022526	-.009175
41	.001204	.019806	.021265	-.012086	.020862	-.004048
42	-.005340	.024346	.002723	-.019710	.018005	.000316
43	-.000944	.020022	-.006919	-.020208	.015098	.004535
44	.005503	.010003	-.006973	-.009056	.007764	-.002932
45	.008860	-.008389	-.005233	.002238	.004408	-.008606
46	.006245	-.019403	-.004609	.009496	.002048	-.006689
47	.009012	-.018201	-.006838	.016311	.003067	-.003648
48	.014242	-.012383	-.011845	.022124	.006941	-.001393
49	.016111	-.004345	-.018350	.023870	.010046	-.002727
50	.011425	.003958	-.026654	.020651	.008270	-.001631
51	.006518	.019166	-.027280	.010974	.011282	.006688
52	.002557	.031215	-.025877	.002889	.014562	.019423
53	-.005332	.040053	-.026350	.002121	.010697	.026085
54	-.014321	.042281	-.030108	.008024	.001625	.022569
55	-.020894	.037073	-.033274	.010726	-.003403	.014936
56	-.025876	.025631	-.037233	-.003301	-.010287	.011605
57	-.033129	.015725	-.041632	-.010545	-.017116	.013502
58	-.031001	.004730	-.040898	-.018908	-.017524	.013688
59	-.024293	-.004360	-.040862	-.029276	-.017930	.013336
60	-.023411	-.011299	-.038031	-.037994	-.017163	.010299

RUN NO. 76A 16M 10-24-62 1451-1606 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)
	0.33123	0.58861	0.31577	0.56114	0.20120	0.35755	0.21732	0.38620	0.22378
	10E 00	10E-01	10E 00	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
1	-.017126	-.022067	.001431	.006502	.006589	.007042	-.019930	-.018462	.003353
2	-.039652	-.045804	.003513	.010880	.029669	.030651	-.023198	-.021468	.003891
3	-.055000	-.061763	.008211	.016791	.033416	.034895	-.024009	-.022102	.004065
4	-.056312	-.063848	.009925	.019382	.031455	.033947	-.028569	-.026269	.004795
5	-.056196	-.063919	.012142	.022300	.022308	.024933	-.029290	-.026902	.004904
6	-.059835	-.067698	.015070	.026237	.021399	.022671	-.027685	-.025410	.004714
7	-.063384	-.071660	.016484	.027990	.021296	.022645	-.025887	-.023808	.004419
8	-.059292	-.068882	.016168	.028131	.011649	.014375	-.025271	-.023268	.004263
9	-.054984	-.065501	.007924	.019671	.003185	.007720	-.022365	-.020534	.003772
10	-.050455	-.061572	-.001026	.010289	.000020	.005661	-.020784	-.019088	.003532
11	-.044683	-.056099	-.005427	.004650	-.011652	-.006194	-.018793	-.017182	.003183
12	-.038269	-.049596	-.012009	-.004574	-.017616	-.013110	-.020498	-.018671	.003407
13	-.032545	-.042964	-.020372	-.014465	-.017016	-.013078	-.023910	-.021954	.003993
14	-.022656	-.031599	-.023049	-.017341	-.015180	-.011791	-.023269	-.021369	.003942
15	-.014457	-.022300	-.014943	-.009584	-.009404	-.005910	-.019967	-.018436	.003373
16	-.009433	-.016040	-.007451	-.002517	-.004579	.000061	-.014907	-.013730	.002321
17	.001181	-.004269	-.002100	.001393	.000663	.006415	-.014575	-.013500	.002201
18	.008863	.004579	.008307	.010623	.004851	.010657	-.014438	-.013465	.002314
19	.009704	.005798	.020385	.021791	.001693	.007074	-.011216	-.010457	.001836
20	.013833	.010455	.026647	.028181	-.001112	.002592	-.005482	-.005182	.000905
21	.017863	.015386	.022178	.024728	-.005587	-.003655	-.002422	-.002458	.000415
22	.019472	.017898	.021478	.024656	-.008851	-.008122	.000412	.000134	.000023
23	.022999	.021861	.028281	.031131	-.008500	-.008929	.003330	.002855	-.000721
24	.027718	.027565	.034109	.036808	-.007400	-.008253	.008059	.007296	-.001412
25	.027337	.027754	.038783	.040494	-.007376	-.008138	.013326	.012147	-.002212
26	.027725	.028373	.032578	.032099	-.012159	-.011916	.014938	.013697	-.002346
27	.023150	.024347	.027188	.023546	-.008701	-.008650	.015897	.014527	-.002603
28	.015545	.017593	.033759	.028296	-.012864	-.013512	.022137	.020216	-.003672
29	.015289	.018177	.044206	.038609	-.012613	-.013547	.029699	.027192	-.004978
30	.017077	.020564	.049395	.043691	-.003288	-.003594	.036374	.033538	-.004131
31	.015991	.020025	.049747	.043883	.009802	.009738	.038890	.035846	-.006611
32	.023980	.028569	.050794	.045302	.010365	.010499	.035853	.033043	-.006012
33	.033596	.039024	.051629	.046039	.011150	.010378	.031060	.028604	-.005230
34	.032742	.038650	.044654	.039965	.010416	.009054	.025279	.023199	-.004385
35	.031989	.037621	.038907	.035525	.008095	.007456	.022846	.020985	-.004143
36	.024843	.031185	.044270	.042552	.012464	.012113	.027623	.025617	-.004081
37	.011272	.019253	.053302	.052927	.021628	.019783	.032395	.030212	-.005533
38	.003136	.011766	.051092	.051448	.025641	.022421	.033428	.031078	-.005750
39	.001151	.009186	.036892	.038063	.015731	.013145	.027915	.025939	-.004831
40	-.000943	.005208	.025680	.027286	.009110	.006866	.021756	.020278	-.003757
41	-.001194	.002204	.014530	.016479	.004351	.003288	.020648	.019360	-.003479
42	-.003751	-.003215	.004736	.007101	.001525	.001478	.016583	.015453	-.002630
43	-.007025	-.007827	-.001323	.001045	.002430	.003166	.008683	.008260	-.001352
44	-.004086	-.005076	-.005317	-.003754	-.007049	-.007008	-.003501	-.003028	.000707
45	.001702	.000582	-.013485	-.011829	-.010279	-.010783	-.014062	-.012762	.002532
46	.003376	.002322	-.016709	-.015256	-.008398	-.008640	-.020619	-.019000	.003536
47	.007375	.005682	-.024148	-.021981	-.009390	-.009314	-.026721	-.024769	.004441
48	.012157	.009240	-.024799	-.021813	-.009139	-.008661	-.029533	-.027316	.004868
49	.014386	.010238	-.022144	-.018840	-.005658	-.005714	-.032466	-.029940	.005370
50	.015149	.009555	-.021767	-.018576	-.002173	-.002318	-.036823	-.033841	.006234
51	.018833	.012866	-.025446	-.021357	.002325	.003296	-.032372	-.029625	.005530
52	.015979	.010369	-.026659	-.021957	.011264	.013632	-.027962	-.025561	.004636
53	.010358	.005033	-.021406	-.017735	.016785	.019804	-.021157	-.019361	.003440
54	.007242	.001421	-.018597	-.016781	.019996	.022226	-.015683	-.014428	.002484
55	.008405	.002041	-.024942	-.023625	.017700	.018694	-.015615	-.014399	.002357
56	.006405	-.000446	-.034682	-.033856	.009441	.010527	-.016954	-.015685	.002674
57	.000289	-.006787	-.040824	-.040679	.002212	.004132	-.017946	-.016615	.003000
58	-.009074	-.015469	-.040220	-.040293	.000683	.002956	-.017430	-.015995	.002939
59	-.023475	-.028818	-.042413	-.042455	-.003848	-.001093	-.018883	-.017278	.003330
60	-.031415	-.035580	-.047204	-.046625	-.012927	-.010051	-.019340	-.017864	.003768

RUN NO. 76A 16M 10-24-62 1451-1606 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTO-COVARIANCE

M	U	V	W	T	N	RHO(W)
	0.87123 10E 00	0.79180 10E 00	0.32147 10E 00	0.37505 10E-02	0.12593 10E 00	0.39768 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.850533	.785542	.700173	.832207	.807240	.808213
2	.667061	.545840	.398109	.621530	.600263	.596863
3	.519524	.385057	.227135	.471115	.474535	.466198
4	.396203	.287181	.130040	.367302	.388866	.376588
5	.295370	.214816	.059328	.298376	.318759	.306401
6	.219806	.152637	.006907	.246059	.257751	.247245
7	.153436	.099709	-.019293	.187835	.200465	.189846
8	.095196	.061342	-.045413	.132597	.145476	.135989
9	.034397	.021494	-.060156	.082980	.091804	.084069
10	-.022831	-.011727	-.068426	.046213	.039379	.033428
11	-.079701	-.038466	-.074736	.014697	-.007166	-.010591
12	-.125848	-.048364	-.078767	-.013147	-.044027	-.046947
13	-.162722	-.053726	-.091720	-.044173	-.080623	-.084092
14	-.190444	-.067355	-.102583	-.075459	-.112424	-.115149
15	-.213911	-.085108	-.116062	-.096151	-.131105	-.132993
16	-.232070	-.109112	-.139423	-.109631	-.144163	-.144173
17	-.247582	-.134884	-.153286	-.116144	-.153425	-.150558
18	-.259621	-.137502	-.153987	-.123723	-.158913	-.153640
19	-.259634	-.131434	-.131760	-.133645	-.172547	-.165969
20	-.261950	-.132910	-.123624	-.137384	-.185983	-.176853
21	-.260224	-.137123	-.113302	-.138205	-.195145	-.182985
22	-.255928	-.139599	-.107704	-.140424	-.199216	-.183498
23	-.250959	-.153464	-.117316	-.158489	-.205877	-.187815
24	-.240807	-.161952	-.121783	-.188701	-.215768	-.199633
25	-.228363	-.163743	-.119949	-.221506	-.221982	-.212300
26	-.216854	-.163366	-.123848	-.241109	-.225848	-.219997
27	-.198000	-.148128	-.123537	-.244683	-.220540	-.212919
28	-.179467	-.126749	-.120079	-.240537	-.198485	-.191164
29	-.164694	-.113715	-.112135	-.234296	-.176429	-.170287
30	-.143182	-.108066	-.089203	-.218854	-.149443	-.144083
31	-.105125	-.101571	-.060904	-.195509	-.114058	-.108559
32	-.065880	-.068994	-.035608	-.177728	-.092369	-.087639
33	-.031116	-.064399	-.023460	-.159410	-.086676	-.080364
34	-.001367	-.048202	-.005158	-.130507	-.069644	-.061231
35	.014314	-.046062	.015733	-.105870	-.051283	-.040988
36	.021589	-.046406	.024564	-.084109	-.028811	-.017350
37	.033237	-.037378	.029854	-.063893	-.019383	-.007361
38	.048618	-.032474	.040158	-.054811	-.012770	-.003321
39	.054490	-.032596	.048042	-.055064	-.015542	-.010176
40	.050818	-.033116	.049092	-.055214	-.018042	-.016495
41	.049403	-.029326	.044361	-.043289	-.007387	-.008967
42	.046059	-.030807	.050680	-.023651	.004146	.002358
43	.033123	-.039888	.056575	-.009646	.008917	.008449
44	.023909	-.045521	.060300	-.007921	.006565	.005112
45	.017729	-.040646	.063382	-.019746	.006819	.000520
46	.016731	-.029597	.058603	-.023233	.011468	.000914
47	.018734	-.020338	.058003	-.015604	.008214	-.005241
48	.019632	-.011543	.048568	-.009486	.007018	-.006451
49	.013378	-.009598	.027585	-.010659	.005074	-.007041
50	-.000220	-.017718	.005147	-.020268	.008061	-.005448
51	-.017994	-.028125	.003863	-.030914	.01479	-.000924
52	-.018402	-.029249	.016529	-.029672	.016435	.000721
53	-.008808	-.025832	.020328	-.027612	.002114	-.011533
54	.006009	-.025746	.017198	-.025215	-.007427	-.020174
55	.021786	-.022719	-.004489	-.020976	-.017500	-.028900
56	.031203	-.022520	-.019990	-.018991	-.028364	-.037653
57	.037388	-.025163	-.019186	-.012527	-.030768	-.039285
58	.039523	-.026175	-.009813	.007098	-.023435	-.027760
59	.035908	-.029056	-.005725	.029844	-.016220	-.016773
60	.034060	-.034579	-.008903	.035115	-.030913	-.031672

RUN NO. 76A 16M 10-24-62 1451-1606 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

COSPECTRUM

K	U,V	U,W	V,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-02	10E-02	10E-02
0	-.016067	-.019718	-.057733	.023355	.045019	.013374
1	-.122300	-.222554	-.491736	.487404	.319450	.113701
2	-.104181	-.336976	-.575784	.512605	.271700	.146967
3	-.041771	-.408756	-.550253	.104721	.182504	.149116
4	.016996	-.261875	-.305446	-.156926	.094052	.078736
5	.006171	-.124488	-.148730	-.024784	.075897	.045496
6	-.005438	-.106944	-.133695	-.014662	.087620	.051204
7-8	.022844	-.081617	-.092382	.031617	.062246	.033314
9-11	.024614	-.051856	-.046048	-.046380	.057089	.018249
12-15	-.006212	-.024314	-.035189	.014803	.030692	.011327
16-20	.000532	-.018291	-.016344	-.093242	.027461	.000854
21-27	.001700	-.006889	-.010407	-.039997	.010971	.002883
28-36	-.000387	-.005769	-.005873	-.009839	.008191	.000996
37-47	-.000624	-.001643	-.002521	-.001425	.004024	.000181
48-60	.000072	-.001056	-.001093	.011760	.002437	.000342

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
1	.154078	-.359947	-.087047	.427640	.126506	.350999
2	.110237	-.621362	-.164587	.289300	.103840	.369908
3	.125664	-.527055	-.192610	.247114	.105928	.345898
4	.142565	-.278716	-.102500	.189912	.080971	.174431
5	.112901	-.550021	-.056168	.084048	.053440	.028659
6	.076449	-.745188	-.039953	-.033789	.060090	-.023941
7-8	.046137	-.247355	-.002819	.167165	.034937	.101513
9-11	-.013558	-.411232	-.012578	-.042724	-.003624	.018079
12-15	.000632	-.218104	-.016038	-.074865	.003317	.054782
16-20	.005688	-.065222	-.005684	.003389	.008594	-.011953
21-27	.004185	-.052291	-.002561	.024157	.003685	-.022628
28-36	-.002695	-.013360	-.002367	.006045	.000499	-.000527
37-47	-.001158	-.010975	-.001321	-.002374	.001327	-.008390
48-60	-.000772	-.010417	-.000288	-.001008	.000069	-.000512

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E-01	10E-03	10E-01	10E-03
0	.009706	.014746	.012525	.086832	.028692	.091347
1	.100351	.100851	.167013	.631512	.192341	.596124
2	.138721	.102530	.273668	.627889	.203941	.624176
3	.157682	.097717	.336198	.517716	.193178	.598268
4	.104964	.068464	.244003	.294191	.116999	.371406
5	.058559	.047944	.187819	.223880	.070252	.227214
6	.047360	.042989	.187571	.224585	.061200	.201787
7-8	.032888	.035843	.151947	.137271	.043899	.139854
9-11	.022064	.024274	.132494	.099130	.026614	.088851
12-15	.015407	.015576	.081575	.067179	.022732	.073621
16-20	.008563	.012841	.064651	.051902	.016328	.052672
21-27	.005101	.007995	.044553	.029848	.011145	.035423
28-36	.003466	.004765	.030485	.016490	.007415	.022840
37-47	.002373	.003104	.018323	.011183	.004846	.015116
48-60	.001479	.002126	.013409	.006310	.002949	.008877

RUN NO. 76A 16M 10-24-62 1551-1606 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-02	10E-02	10E-02	10E-03	10E-02
0	-.020555	-.043728	-.049895	-.003437	.073429	.014346	.020014	.047912	.050577
1	-.134291	-.305773	-.513148	-.292310	.650518	.126362	.102065	.277013	.333656
2	-.159532	-.361571	-.667616	-.631692	.884830	.170649	.096680	.267425	.351767
3	-.192243	-.410396	-.560051	-.607051	.992268	.188735	.108554	.267803	.336051
4	-.139384	-.281363	-.196042	-.157114	.691548	.127262	.082322	.186161	.206455
5	-.073403	-.146360	-.098656	-.028396	.511350	.091935	.053739	.127086	.124808
6	-.056254	-.115710	-.098287	-.009161	.455217	.083633	.052092	.124438	.109634
7-8	-.036778	-.076211	-.108125	-.068274	.362909	.065365	.030095	.073100	.077378
9-11	-.023031	-.045673	-.028153	.053655	.255376	.045014	.025090	.058409	.047991
12-15	-.012328	-.026221	-.027088	.009664	.180712	.031711	.017851	.040900	.040468
16-20	-.005908	-.012600	-.044354	-.024664	.126952	.020992	.012253	.029181	.028958
21-27	-.001671	-.004598	-.009752	.002590	.058348	.010131	.007625	.017715	.019658
28-36	-.000810	-.002395	-.010544	-.002664	.037770	.006394	.003908	.009315	.012882
37-47	-.000563	-.001366	-.013420	-.014842	.017226	.002840	.002772	.006525	.008470
48-60	.000146	.000072	-.006974	-.006966	.016771	.002828	.001220	.003098	.005060

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-03	10E-04	10E-04
1	-.034701	-.020501	.615484	.123398	-.007462	.048278	.016484	.026285	-.035050
2	-.396101	-.093331	.036106	.024693	-.018371	.032510	-.205018	-.336615	.353558
3	-.692855	-.147353	-.272119	-.025542	.039066	.122516	-.308305	-.503300	.534414
4	-.603906	-.117343	.023250	.018205	.117159	.222286	-.100658	-.162225	.174385
5	-.361619	-.069175	.182860	.039313	.096784	.164850	-.026851	-.043649	.050902
6	-.235817	-.045610	.140284	.033240	.078170	.125973	-.065684	-.108197	.120903
7-8	-.073338	-.012587	.134070	.028019	.139524	.247827	-.059006	-.097408	.098895
9-11	-.058528	-.011856	-.065795	-.011368	.035715	.061982	-.041393	-.067733	.070610
12-15	-.032334	-.008184	-.014584	-.001837	.007981	.023095	-.014007	-.023063	.024852
16-20	-.019594	-.004193	.005460	.002382	.016774	.025880	-.009564	-.016221	.017456
21-27	.005596	.000469	.002504	.000997	-.006114	-.013767	-.008944	-.014800	.015310
28-36	.020800	.003079	-.006202	-.000860	-.016671	-.027416	-.012967	-.021417	.021488
37-47	.001017	-.000108	-.000242	.000159	-.008245	-.015130	-.004265	-.006879	.007943
48-60	-.001450	-.000303	.002115	.000328	-.005972	-.010530	-.000118	-.000232	.000158

RUN NO. 76A 16M 10-24-62 1451-1606 EST  
 301 PCINT RUNNING MEAN, 10 PCINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

P	U,V	U,W	U,T	V,W	V,T	W,T
	0.97456 10E 00	0.36322 10E 00	0.73903 10E-01	0.37682 10E 00	0.76672 10E-01	0.28576 10E-01
0	-.074825	-.416576	-.638360	.046300	.364036	.293623
1	-.065199	-.137111	-.440368	.041357	.263409	.158473
2	-.032860	.036522	-.236217	-.000891	.182532	.032225
3	-.017843	.028948	-.142908	-.003667	.090142	-.023108
4	-.025874	.024107	-.076589	-.026344	.053205	-.028818
5	-.026845	.065898	-.030721	.013692	.024193	-.060514
6	-.051152	.034147	-.023051	-.013177	.041374	-.058781
7	-.060047	.017419	-.007375	-.007681	.048652	-.042841
8	-.039240	-.017726	.011224	-.042474	.036361	-.007045
9	-.040032	-.038461	.018124	-.072206	-.000015	.019196
10	-.056268	.008808	.056524	.014977	-.012718	-.019640
11	-.049485	.041030	.141442	-.013510	-.037291	-.073978
12	-.010907	.027539	.158229	.005076	-.088801	-.044116
13	.045109	.012201	.143835	-.005291	-.163885	-.012729
14	.107138	-.014637	.137198	.022100	-.187512	.004269
15	.115165	.007268	.122282	.033833	-.179341	.015932
16	.123219	-.060733	.094076	.009474	-.159042	.047356
17	.141017	-.028498	.091497	.005219	-.153929	.077153
18	.150064	.012681	.105902	-.027713	-.137473	.070772
19	.135039	.032432	.142186	-.002961	-.111099	.009473
20	.107674	.058580	.147378	.019682	-.100033	-.036098
21	.070335	.022225	.148400	-.000731	-.110513	-.010622
22	.089584	.068650	.178680	-.023476	-.113684	-.057708
23	.113302	.094315	.186938	-.052510	-.132485	-.118894
24	.044924	.069399	.139029	-.003678	-.136101	-.052994
25	.035051	-.000590	.107687	-.032322	-.118343	.002517
26	-.010013	-.066149	.052118	-.029055	-.083326	.031434
27	-.087627	-.076717	-.003093	.005334	-.012978	.018394
28	-.136081	.047133	-.012921	.023172	.088913	-.079966
29	-.135925	.053939	-.031442	.026478	.153710	-.067888
30	-.074200	.051421	-.030289	.009814	.123925	-.091982

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	-.009593	-.014710	-.115041	-.053043	.048826	.090344
1	-.459131	-.002333	-.993310	-.025496	.759279	.452020
2	-.301149	-.057492	-.831982	.101322	.654345	.450642
3	.131610	-.067064	-.559869	.332758	.285278	.844552
4	.151781	-.100246	-.375567	.488952	.081162	.970338
5	-.080792	-.084072	-.249580	.246103	.142150	.549695
6	-.132889	-.092240	-.270545	.007370	.260038	.664282
7	-.052364	-.130663	-.338791	-.042036	.221989	.973794
8	-.002255	-.111206	-.259465	.112674	.118973	.665748
9-11	-.059655	-.060090	-.131533	.261831	.086237	.255970
12-14	.007805	-.078085	-.119834	.030730	.010280	.415385
15-21	-.009383	-.063285	-.069689	-.014056	.027746	.169231
22-30	.007307	-.030184	-.032036	-.029177	.031719	.092217



RUN NO. 76A 16M 10-24-62 1451-1606 EST  
 301 PCINT 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)
	0.51503 10E 00	0.91008 10E-01	0.53432 10E 00	0.94417 10E-01	0.19914 10E 00	0.35189 10E-01	0.40519 10E-01	0.71599 10E-02	0.49897 10E-01
0	-.397749	-.459517	-.025211	.027473	.294595	.314807	.443043	.552259	.992019
1	-.271157	-.314041	-.006291	.031052	.097796	.112490	.329241	.403753	.748859
2	-.182183	-.202445	.019538	.043801	.031372	.032718	.250666	.295293	.551802
3	-.145086	-.154899	.035037	.045913	-.010940	-.013760	.164020	.181862	.371624
4	-.089488	-.093819	.039357	.045071	-.028465	-.030393	.089719	.096756	.214630
5	-.031286	-.033813	.047086	.047656	-.037167	-.042551	.024031	.024428	.081778
6	-.008309	-.011537	.073525	.074482	-.068200	-.070849	.004926	.003462	-.031818
7	-.007204	-.008244	.098454	.098452	-.046378	-.048427	.004936	.002701	-.113135
8	-.028161	-.024450	.113190	.110199	-.016015	-.015892	.037583	.025961	-.157860
9	-.013491	-.010129	.098586	.091460	.012333	.014522	.035857	.029528	-.189022
10	.019190	.025730	.081989	.074039	-.024414	-.024983	.007954	-.003788	-.219518
11	.077749	.092534	.026569	.019484	-.045964	-.053432	-.048449	-.065390	-.273508
12	.062231	.080285	-.020299	-.031547	-.019185	-.023927	-.068571	-.089082	-.290330
13	.038222	.056225	-.110677	-.125947	.016510	.013607	-.077167	-.096556	-.289163
14	.037157	.053789	-.167811	-.182256	.012263	.012645	-.113032	-.132128	-.290957
15	.034991	.049580	-.208690	-.219730	.050561	.048908	-.135536	-.151592	-.236281
16	.036756	.047795	-.196634	-.206135	.062763	.064453	-.130268	-.142187	-.168370
17	.110081	.115515	-.172736	-.182963	.027188	.036074	-.155637	-.164334	-.162513
18	.168410	.171592	-.123291	-.134530	-.018971	-.007666	-.174953	-.186209	-.163822
19	.194788	.201626	-.045233	-.058250	-.076551	-.069869	-.202315	-.220674	-.175345
20	.217062	.222813	-.018852	-.031938	-.072826	-.072617	-.216302	-.234550	-.138570
21	.234968	.239312	-.014422	-.028774	-.027266	-.026879	-.215229	-.234271	-.084086
22	.257044	.264962	-.004983	-.020447	-.032844	-.038924	-.223838	-.247149	-.059937
23	.230325	.241094	-.021214	-.038289	-.029864	-.044789	-.215678	-.242080	-.046477
24	.198925	.204955	-.004962	-.023191	-.029963	-.035607	-.196044	-.220810	-.067120
25	.156506	.161093	.008456	-.008215	.030069	.027649	-.151841	-.171584	-.041182
26	.104463	.105082	.021132	.008224	.053280	.053555	-.102788	-.116351	-.024218
27	.063466	.059242	.051954	.046993	.017541	.018984	-.068526	-.075982	-.037616
28	.051845	.047218	.087702	.094379	-.089246	-.094243	-.041143	-.043044	-.079392
29	-.066729	-.066013	.091238	.107144	-.051866	-.058020	.037847	.037389	-.029135
30	-.125053	-.120895	.038300	.053274	-.071987	-.079502	.082872	.083617	.013551

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-01	10E-01	10E-02	10E-02	10E-02	10E-02	10E-02	10E-01
0	-.068014	-.013151	.004287	.015577	.035643	.007427	.059438	.012475	.011556
1	-.593892	-.114861	.226575	.505378	.276897	.053278	.545194	.111046	.105538
2	-.383310	-.077432	.174820	.402206	.261570	.050398	.381909	.079741	.108611
3	-.175962	-.038559	-.115231	-.139771	.406342	.080638	.165569	.038805	.089865
4	-.207513	-.040521	-.259138	-.412458	.638884	.120958	.146261	.033179	.052809
5	-.143267	-.027764	-.060692	-.075524	.491784	.089647	.152494	.032136	.0322.9
6	-.072012	-.016455	.091361	.193741	.284402	.057815	.133877	.028908	.024302
7	-.116234	-.024968	.028244	.082803	.450254	.090542	.116838	.026327	.020775
8	-.107168	-.022157	-.038423	-.043693	.444788	.084606	.064263	.015657	.014425
9-11	-.012750	-.004422	-.015913	-.011582	.136903	.027186	.010176	.004287	.007328
12-14	-.045282	-.009524	-.017903	-.027409	.262768	.050649	.023806	.005701	.006742
15-21	-.035840	-.007092	-.001220	.003107	.154301	.028413	.016442	.003666	.004390
22-30	-.022270	-.004197	-.001790	.002311	.204531	.035154	.019777	.004418	.004715

RUN NO. 76A 16M 10-24-62 1451-1606 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
	0.97456 10E 00	0.36322 10E 00	0.73903 10E-01	0.37682 10E 00	0.76672 10E-01	0.28576 10E-01
1	.061378	-.017432	-.061375	.032983	.073447	.064143
2	.077978	-.039699	-.011320	.032667	.102648	.043931
3	.085880	-.022022	.003428	.024144	.109291	.045044
4	.059745	.010880	-.006289	-.017557	.114689	.046346
5	.036088	-.022837	-.034740	-.012246	.098126	.038652
6	-.013059	-.052103	-.043394	-.061853	.048931	.000897
7	-.029609	-.084458	-.031719	-.064557	.009270	-.017608
8	-.021807	-.046769	-.022298	-.019788	-.019120	-.043181
9	-.059624	-.006614	-.050627	-.038129	-.071022	-.018200
10	-.043655	-.019855	-.060277	-.028524	-.100941	-.016493
11	-.026916	-.016192	-.057893	.015699	-.094432	-.020893
12	-.045836	-.004185	-.072752	-.013253	-.092954	-.032049
13	-.030070	.010887	-.055715	.011567	-.050552	-.032924
14	.000803	.003635	-.094225	.064837	-.021494	-.025709
15	.022931	-.004487	-.098926	.100846	.006778	-.047597
16	-.032023	.037823	-.097245	.042142	-.007194	.001706
17	-.020020	.029689	-.091064	.019673	-.007488	.024527
18	-.009709	.012345	-.067111	.028712	-.001712	.045341
19	.002582	.023448	.019471	.024435	-.015906	.049807
20	.014864	.039860	.082390	.007236	-.015952	.016792
21	.035764	.065408	.083374	-.008628	-.005352	.050695
22	.013943	-.023981	.068607	-.087864	-.014593	.033168
23	-.014462	-.049789	.079374	-.074587	-.050158	-.003382
24	-.031014	.002457	.077224	-.047147	-.077755	.003441
25	-.082146	.014486	.060881	-.087831	-.100518	.002820
26	-.086156	-.005243	.032276	-.084410	-.100644	.014599
27	-.025245	-.044517	.000896	-.029795	-.061965	-.017872
28	.023656	-.009645	-.010785	.019050	-.020860	.009875
29	.034420	.041555	.016848	.032857	.016000	-.004779
30	.072721	.008466	.027838	.018016	.040625	.001011

QUADRATURE SPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
1	-.094454	-.403963	-.332461	-.033434	-.107096	-.091822
2	.003337	-.610223	-.160332	-.326214	.067078	-.060417
3	.131672	-.537006	.068577	-.630923	.235522	.339817
4	.239279	-.077770	.032086	.121309	.354685	.586864
5	.218272	.079450	-.073105	.630228	.267922	.340337
6	.178517	.110501	.012490	.393770	.097933	.246532
7	.105607	.151475	.018894	.281471	.002206	.323611
8	.042605	-.029577	-.040133	.260855	-.004611	.168087
9-11	.030686	-.288575	-.016875	.119571	.026553	-.013931
12-14	.010355	-.147084	-.064421	.061203	.010380	.123487
15-21	.006339	.110568	-.030377	-.017517	.013144	.103422
22-30	.015350	-.007628	-.015603	.104089	.001698	.054021

RUN NO. 76A 16M 10-24-62 1451-1606 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)
	0.51503 10E 00	0.91008 10E-01	0.53432 10E 00	0.94417 10E-01	0.19914 10E 00	0.35189 10E-01	0.40519 10E-01	0.71599 10E-02	0.49897 10E-01
1	-.036690	-.042846	.016363	.025770	-.001414	.007407	-.007460	-.006953	.000932
2	-.035577	-.034343	.034303	.046331	-.022440	-.015303	.005991	.005065	-.001275
3	-.054077	-.050073	.036612	.048851	-.018853	-.010952	.013010	.011855	-.002102
4	-.073536	-.069369	.001128	.016572	-.024348	-.016364	.006816	.006112	-.001194
5	-.092515	-.090539	-.035149	-.019076	-.079202	-.022295	-.008172	-.007856	.000383
6	-.114308	-.111921	-.069490	-.058144	-.031546	-.029294	-.016407	-.015388	.001909
7	-.111110	-.107531	-.071224	-.065187	-.053245	-.051924	-.023414	-.022101	.002933
8	-.060194	-.058529	-.075853	-.073599	-.036868	-.040609	-.060276	-.056775	.008123
9	-.002858	-.009157	-.095153	-.098708	-.042860	-.041890	-.129689	-.121275	.017905
10	.047522	.035791	-.080541	-.089225	-.080364	-.076633	-.160080	-.149348	.022123
11	.069947	.057418	-.075499	-.083756	-.050456	-.049739	-.153093	-.142757	.021084
12	.084465	.068396	-.081972	-.089696	-.039350	-.041390	-.144358	-.134329	.019737
13	.084580	.070062	-.037071	-.041718	.000156	-.004355	-.110167	-.101834	.015508
14	.063813	.045580	.004514	.001051	.046865	.040379	-.090962	-.084426	.013016
15	.057147	.038845	.037678	.035751	.046585	.037084	-.070814	-.065911	.010286
16	.066638	.048188	.051143	.046016	.063873	.059626	-.063491	-.059166	.009194
17	.060157	.043126	.042712	.038140	.066954	.065615	-.047173	-.043825	.006985
18	.051994	.038888	.002566	.001753	.037824	.041441	-.047200	-.043985	.006946
19	.066044	.063764	-.029380	-.029817	.034873	.039658	-.058392	-.053712	.008627
20	.086377	.091957	-.057783	-.055630	-.018134	-.015099	-.050372	-.046283	.007199
21	.069072	.075390	-.063171	-.058597	-.034413	-.024849	-.025503	-.022833	.003749
22	-.011495	-.001491	-.060022	-.057205	-.031565	-.024884	.023808	.022559	-.003210
23	-.067637	-.051783	-.045377	-.048661	-.005455	-.006292	.086445	.080794	-.012124
24	-.066528	-.050997	-.010085	-.020032	.005101	.004942	.104821	.097465	-.014765
25	-.066987	-.053786	-.000140	-.013838	-.013080	-.011758	.072646	.067762	-.010425
26	-.082311	-.072342	-.001102	-.014868	-.029891	-.025468	.041362	.038719	-.005843
27	-.109187	-.101946	.013605	.003976	-.034547	-.034519	.029334	.027741	-.004014
28	-.117825	-.111157	.018572	.014421	.003460	.004156	.039865	.037559	-.005866
29	-.108562	-.098796	.043365	.042619	.012095	.010541	.066102	.061960	-.009111
30	-.098865	-.088490	.049284	.051446	.021332	.020825	.073340	.068627	-.009776

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-01	10E-02	10E-02	10E-03	10E-02	10E-03	10E-03
1	.045286	.017305	-.197335	-.345120	-.283991	-.481831	-.290528	-.478393	.494779
2	-.119038	-.222043	-.121860	-.190245	-.397471	-.663759	-.116593	-.193093	.190939
3	-.232642	-.369237	-.054687	-.049499	-.349399	-.518904	.062092	.101135	-.116080
4	-.133104	-.213234	.076712	.186858	.091518	.247933	.097958	.160938	-.170278
5	-.031695	-.065787	.137371	.271396	.235420	.443722	.056586	.093186	-.097380
6	.048831	.081392	.046215	.093179	-.056813	-.052454	-.004811	-.007550	.006096
7	.081138	.136595	.008389	.014217	-.157058	-.202702	-.052632	-.086768	.089008
8	.019174	.025104	.049987	.081172	-.003639	.023984	-.018318	-.031151	.032180
9-11	-.023604	-.041723	.009754	.021062	.026544	.040200	.012200	.019983	-.020246
12-14	-.010299	-.027672	-.008988	-.012272	-.025085	-.021068	-.012927	-.021199	.021063
15-21	-.005658	-.014857	-.004827	-.005499	.009154	.032170	-.003577	-.005712	.006785
22-30	-.005132	-.011413	.002689	.004701	.036439	.071345	-.001147	-.001680	.001922

RUN NC. 76A 16M 10-24-62 1451-1606 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.93936 10E 00	0.10111 10E 01	0.14044 10E 00	0.58143 10E-02	0.28238 10E 00	0.88170 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.531536	.631382	.192441	.695724	.755766	.752905
2	.234896	.394085	-.017195	.443219	.555668	.554481
3	.164582	.200153	-.099152	.207517	.374638	.371347
4	.094282	.028026	-.056309	.093474	.216921	.213499
5	.012057	-.075349	-.066417	.012089	.083532	.080206
6	-.006864	-.145915	-.146029	-.010485	-.035277	-.028775
7	-.072366	-.138117	-.141287	-.017509	-.122549	-.104619
8	-.110072	-.122371	-.079363	-.019363	-.174023	-.143417
9	-.127512	-.155479	-.040447	-.028679	-.208173	-.172031
10	-.179873	-.172583	-.062600	-.077907	-.236583	-.205283
11	-.209014	-.171880	-.102522	-.143085	-.285792	-.264429
12	-.207539	-.163769	-.054056	-.180259	-.300875	-.283335
13	-.178867	-.119430	-.009936	-.176058	-.298561	-.283112
14	-.144497	-.095615	-.016627	-.193034	-.295227	-.289616
15	-.129630	-.062751	.070939	-.180269	-.233456	-.241184
16	-.055586	-.043200	.134002	-.143813	-.161064	-.176935
17	-.041117	-.031603	.087482	-.134251	-.151153	-.174405
18	-.083907	-.102592	.026124	-.163858	-.149735	-.178569
19	-.066838	-.124887	-.009219	-.226384	-.157748	-.194372
20	-.056368	-.131718	-.046054	-.235597	-.116559	-.161658
21	-.035039	-.130989	.009211	-.243544	-.058394	-.110668
22	-.078291	-.103346	-.016329	-.274105	-.030763	-.090423
23	-.083845	-.129645	-.027095	-.291981	-.017304	-.077378
24	-.057745	-.108791	-.091296	-.273957	-.042425	-.093549
25	-.045533	-.041134	.048687	-.217457	-.021317	-.062406
26	-.019123	.015179	.138712	-.147328	-.010441	-.038934
27	-.002004	.088294	.111791	-.087714	-.030254	-.045502
28	-.062842	.139869	-.117031	-.032604	-.078986	-.080053
29	-.050474	.185363	-.053298	.014927	-.036777	-.022064
30	-.021727	.181408	-.128661	.043634	.002070	.024396

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E-01	10E-02	10E-01	10E-02
0	.013977	.015946	.002884	.015674	.064281	.021091
1	.121813	.137632	.021999	.123417	.584965	.192630
2	.128826	.141388	.045178	.097780	.620241	.192422
3	.120089	.141111	.091518	.067416	.529009	.154493
4	.079502	.125089	.107712	.053400	.306215	.092438
5	.045923	.087822	.077513	.041202	.180712	.058342
6	.040985	.062569	.064678	.040273	.134308	.044792
7	.047374	.061038	.081893	.041502	.114370	.038620
8	.043668	.049041	.073561	.029380	.081025	.026415
9-11	.032544	.022471	.055671	.015095	.043485	.012798
12-14	.029281	.016771	.072355	.010356	.038417	.012096
15-21	.024030	.015117	.048347	.005540	.024987	.007851
22-30	.014893	.016432	.060757	.006788	.026594	.008520

RUN NO. 76A 40M 10-24-62 1451-1606 EST

GROSS STATISTICS

CLEAR	WIND SPEED	7.55 M/SEC	WIND DIRECTION	296 DEG
TRANSITIONAL	SIGMA A	13.0 DEG	SOLAR RADIATION	0.29
LAND	SIGMA E	6.6 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	0.26965E 01	0.16821E 01	0.99514E 00	0.11733E 01
V	0.30717E 01	0.13813E 01	0.80037E 00	0.93695E 00
W	0.57659E 00	0.53692E 00	0.47196E-00	0.24397E-00
T	0.10634E-00	0.59776E-02	0.28341E-02	0.47787E-02
N	0.61644E 00	0.11864E-00	0.55269E-01	0.94687E-01
RHO(W)	0.30605E-01	0.42758E-02	0.20215E-02	0.34157E-02
E	0.31724E 01	0.18006E 01	0.11337E 01	

GUSTINESS RATIOS

U	0.21750	0.17178	0.13213	0.14347
V	0.23214	0.15567	0.11849	0.12821
W	0.10057	0.09705	0.09099	0.06542

COVARIANCES

U,V	0.86645E-01	0.21825E-00	0.38529E-01	0.20859E-00
U,W	-0.47681E-00	-0.31448E-00	-0.18309E-00	-0.23471E-00
U,T	-0.95433E-01	-0.57234E-01	-0.25678E-01	-0.48103E-01
V,W	-0.57504E-01	-0.81347E-01	-0.47247E-01	-0.52529E-01
V,T	-0.15891E-00	0.50946E-02	0.48522E-02	0.20193E-02
W,T	0.22201E-01	0.14751E-01	0.71336E-02	0.11870E-01
U,N	-0.44834E-00	-0.18004E-00	-0.74340E-01	-0.16193E-00
U,RHO(W)	-0.89821E-01	-0.39313E-01	-0.16573E-01	-0.34797E-01
V,N	-0.72334E 00	-0.73660E-01	-0.20536E-01	-0.64687E-01
V,RHO(W)	-0.14582E-00	-0.11191E-01	-0.25346E-02	-0.10269E-01
W,N	0.98269E-01	0.67513E-01	0.49452E-01	0.41915E-01
W,RHO(W)	0.19911E-01	0.13591E-01	0.93327E-02	0.89072E-02
T,N	0.19428E-00	0.16112E-01	0.80103E-02	0.12908E-01
T,RHO(W)	0.50066E-01	0.36682E-02	0.18000E-02	0.29370E-02
N,RHO(W)	0.13436E-00	0.22226E-01	0.10439E-01	0.17744E-01
WE	0.34989E-00	0.20605E-00	0.13413E-00	

NORMALIZED COVARIANCES

U,V	0.03011	0.14318	0.04317	0.19894
U,W	-0.38240	-0.33092	-0.26716	-0.43869
U,T	-0.17822	-0.57077	-0.48351	-0.64242
V,W	-0.04321	-0.09446	-0.07687	-0.10987
V,T	-0.27804	0.05607	0.10188	0.03018
W,T	0.08966	0.26038	0.19505	0.34764
U,N	-0.34775	-0.40302	-0.31698	-0.48581
U,RHO(W)	-0.31267	-0.46356	-0.36951	-0.54967
V,N	-0.52566	-0.18196	-0.09764	-0.21718
V,RHO(W)	-0.47560	-0.14562	-0.06301	-0.18153
W,N	0.16483	0.26750	0.30619	0.27578
W,RHO(W)	0.14988	0.28366	0.30214	0.30856
T,N	0.75883	0.60504	0.64003	0.60681
T,RHO(W)	0.87759	0.72557	0.75201	0.72697
N,RHO(W)	0.97817	0.98683	0.98763	0.98664

RUN NO. 76A 40M 10-24-62 1451-1606 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.89248 10E 00	0.68534 10E 00	0.53105 10E-01	0.61470 10E 00	0.47631 10E-01	0.36576 10E-01
0	.043033	-.267024	-.483265	-.077143	.101935	-.195128
1	.042483	-.247533	-.443439	-.061470	.077689	.180038
2	.045259	-.206054	-.379098	-.049007	.047741	.149822
3	.044173	-.159138	-.321082	-.042345	.027464	.113527
4	.027757	-.116192	-.266437	-.078064	.018680	.080826
5	.014741	-.076517	-.207927	-.015940	.014385	.057332
6	.003079	-.049611	-.160685	-.007960	.010281	.046509
7	-.006533	-.033557	-.118419	-.006347	.011180	.035981
8	-.007415	-.028878	-.078188	-.006145	.005390	.021032
9	-.003448	-.030988	-.042828	-.009451	.001054	.008312
10	-.002106	-.022201	-.004876	-.011089	-.001049	-.002508
11	-.003345	-.001053	.029004	-.009777	-.001252	-.019761
12	.006057	.014477	.058243	-.017505	-.005406	-.027795
13	.013414	.022829	.076739	-.023360	-.013791	-.027977
14	.013454	.029490	.088953	-.015427	-.017423	-.027160
15	.010179	.033902	.098140	-.001471	-.022085	-.023071
16	.008687	.044116	.107233	.005969	-.023263	-.020928
17	.007197	.049084	.116297	.008172	-.018691	-.024139
18	.003015	.060334	.118376	.011733	-.011441	-.027906
19	-.005506	.071387	.121960	.017521	-.004479	-.034111
20	-.012435	.088817	.128994	.021547	-.004920	-.042292
21	-.017287	.096588	.134906	.021622	-.011278	-.047538
22	-.018424	.096607	.143662	.012532	-.019483	-.048367
23	-.018142	.101606	.148336	.003493	-.023946	-.047378
24	-.010969	.097708	.144575	.002553	-.028325	-.046997
25	-.012205	.095582	.136438	.005621	-.032867	-.048157
26	-.007834	.087162	.127673	.011587	-.036072	-.045151
27	.001847	.071495	.119144	.016684	-.029280	-.037613
28	-.000972	.059653	.104915	.014133	-.016430	-.028250
29	-.007957	.044161	.089195	.012559	-.008288	-.010160
30	-.009820	.034786	.071820	.018131	.000283	.002071
31	-.008426	.026460	.051297	.018914	.013302	.007024
32	-.004020	.015441	.030628	.012955	.018572	.010705
33	-.000098	-.002667	.011392	.005916	.020172	.012760
34	.001365	-.015799	-.008370	.006844	.024200	.013700
35	-.002127	-.022278	-.018486	.015555	.032230	.014547
36	-.004157	-.021282	-.025062	.018986	.036959	.008102
37	-.003535	-.014265	-.027655	.015525	.040069	.002458
38	-.009291	-.010793	-.029207	.012192	.037204	-.002340
39	-.014181	-.014023	-.026899	.010678	.026409	-.004190
40	-.015603	-.019612	-.027186	.011143	.012480	-.005656
41	-.014313	-.024407	-.025823	.010742	-.006126	-.006034
42	-.016714	-.022112	-.017684	.018428	-.018440	-.009467
43	-.016196	-.016046	-.006099	.018721	-.025829	-.009258
44	-.018805	-.015616	.001240	.016818	-.034051	-.006094
45	-.019879	-.016772	.006014	.015203	-.041082	-.010791
46	-.013564	-.026656	.014158	.022995	-.041689	-.010375
47	-.007964	-.029662	.025406	.028981	-.037916	-.009853
48	-.005072	-.021355	.028888	.025693	-.036848	-.006306
49	.001231	-.019431	.029320	.021061	-.038006	-.004320
50	.007974	-.013745	.027961	.014700	-.035081	-.010559
51	.006967	-.006758	.030119	.010691	-.033425	-.014946
52	.001190	-.001866	.032444	.004577	-.031717	-.014459
53	.001421	.001696	.041931	-.011888	-.030045	-.015595
54	-.000481	.005341	.046334	-.024799	-.021181	-.021965
55	.002347	.011215	.046952	-.023784	-.010718	-.028160
56	.002051	.019575	.046224	-.011829	-.003392	-.026614
57	-.003368	.025945	.043520	-.008184	.002121	-.018340
58	-.000490	.029891	.038570	.000723	.007822	-.014272
59	.003508	.030375	.031422	.016693	.011305	-.009767
60	.001272	.033539	.024455	.024382	.009496	-.010920

RUN NO. 76A 40M 10-24-62 1451-1606 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)
	0.23454 10E 00	0.44854 10E-01	0.21036 10E 00	0.40230 10E-01	0.16154 10E 00	0.30893 10E-01	0.12517 10E-01	0.23938 10E-02	0.10572 10E-01
0	-.317010	-.369704	-.097823	-.063138	.306008	.302294	.639972	.752008	.987565
1	-.308283	-.354290	-.094033	-.064771	.264334	.263537	.572449	.666462	.867473
2	-.285126	-.321422	-.082763	-.061402	.194366	.197569	.468511	.542897	.693831
3	-.255454	-.284090	-.064324	-.049659	.134135	.138756	.374969	.433954	.541667
4	-.218184	-.241108	-.040836	-.031239	.084102	.089285	.292766	.338781	.413047
5	-.180600	-.197052	-.021275	-.015305	.052022	.056885	.222500	.257562	.309783
6	-.146144	-.157804	-.008697	-.005423	.034318	.039501	.166820	.193225	.227123
7	-.117736	-.124942	-.001944	.000587	.021308	.025964	.118656	.137478	.158498
8	-.089939	-.092872	.000173	.001132	.000480	.004721	.070306	.080187	.093424
9	-.057522	-.058025	.005840	.005079	-.018130	-.014066	.024653	.026721	.033411
10	-.018441	-.016575	.011384	.009470	-.036515	-.032326	-.009397	-.013286	-.012830
11	.014320	.018431	.018497	.015456	-.057414	-.053720	-.036834	-.044857	-.050718
12	.038863	.045461	.022654	.018227	-.069450	-.065463	-.056552	-.068363	-.080874
13	.055934	.063951	.019698	.014220	-.070817	-.066760	-.074543	-.089263	-.104599
14	.070371	.078667	.017066	.011542	-.065617	-.062285	-.088858	-.105351	-.124223
15	.087419	.095035	-.010763	-.005213	-.060693	-.057279	-.103036	-.121075	-.140464
16	.097985	.106029	.003010	-.001625	-.058474	-.054719	-.120236	-.138819	-.160321
17	.103596	.112613	-.000416	-.003824	-.056261	-.053477	-.137829	-.156066	-.183560
18	.112864	.121125	-.000793	-.002873	-.056122	-.054099	-.152195	-.169791	-.205686
19	.124897	.132002	.004520	.003030	-.055362	-.054946	-.161192	-.177286	-.225484
20	.137159	.143689	.011941	.009452	-.057354	-.058170	-.171724	-.188404	-.243363
21	.147579	.153710	.021415	.016181	-.059605	-.061167	-.178647	-.196344	-.254172
22	.153334	.160465	.021357	.014473	-.061769	-.063046	-.183470	-.202157	-.259725
23	.147812	.156781	.015943	.009074	-.062895	-.063835	-.180788	-.200855	-.256003
24	.136386	.146230	.012691	.005702	-.063392	-.064081	-.171657	-.192766	-.240779
25	.124034	.133823	.011831	.003819	-.062617	-.063688	-.163754	-.185702	-.225514
26	.109775	.119719	.010921	.002291	-.051581	-.053504	-.153942	-.175819	-.208948
27	.098403	.108440	.015242	.007224	-.038880	-.041115	-.145482	-.166450	-.196320
28	.083144	.092273	.019106	.013178	-.029066	-.030868	-.134744	-.153929	-.185324
29	.070539	.078069	.020616	.016070	-.014212	-.014459	-.118267	-.135615	-.164882
30	.060572	.065881	.025976	.022422	.000870	.000780	-.097565	-.112068	-.136291
31	.050133	.052913	.034276	.032223	.008969	.008900	-.072801	-.084020	-.101416
32	.036022	.036600	.033270	.032489	.013817	.014027	-.052386	-.060351	-.070706
33	.019911	.019013	.026356	.026851	.022450	.021901	-.031302	-.035097	-.042871
34	.004867	.002399	.024446	.26009	.027835	.026796	-.012923	-.012671	-.020413
35	-.004264	-.007613	.028810	.031250	.030157	.029168	.003991	.006944	-.000762
36	-.015495	-.018611	.030651	.033613	.028682	.026656	.016059	.021207	.013262
37	-.024049	-.026297	.029561	.033307	.027072	.024039	.024225	.030868	.021869
38	-.027761	-.029712	.022881	.026727	.029016	.024601	.028356	.034366	.022849
39	-.033485	-.034059	.008443	.011954	.031705	.026584	.033584	.038063	.024863
40	-.041740	-.041253	-.002827	-.000518	.032049	.026684	.036980	.039610	.025616
41	-.043815	-.042683	-.018116	-.017456	.031931	.026382	.037649	.038118	.026189
42	-.043174	-.040518	-.027176	-.027742	.024331	.019238	.037583	.035791	.028216
43	-.036656	-.032522	-.033051	-.034136	.016804	.012869	.033596	.030347	.022588
44	-.037833	-.031969	-.039762	-.041483	.012638	.010070	.020148	.014163	.006014
45	-.040546	-.033170	-.041222	-.044207	.011403	.008037	.005869	-.003585	-.010028
46	-.041405	-.032109	-.037112	-.040836	.010909	.007552	-.004092	-.016648	-.024388
47	-.038580	-.027543	-.032972	-.036431	.008601	.005642	-.009685	-.024013	-.033681
48	-.032281	-.021512	-.029859	-.033188	.008300	.005818	-.014009	-.029239	-.034199
49	-.031523	-.020665	-.032354	-.035484	.008063	.001786	-.012522	-.028147	-.028890
50	-.032678	-.022041	-.036323	-.038356	.002397	-.000261	-.014255	-.029349	-.026232
51	-.025667	-.015639	-.038213	-.039553	-.007181	-.009441	-.015643	-.029602	-.025431
52	-.011731	-.003380	-.039062	-.039968	-.010622	-.012141	-.018843	-.032092	-.026569
53	.003866	.011741	-.043432	-.043455	-.013266	-.014440	-.022405	-.035115	-.024559
54	.011742	.019246	-.043985	-.041974	-.017330	-.019137	-.021328	-.032133	-.020485
55	.016210	.023154	-.035320	-.032348	-.026714	-.028688	-.012185	-.021290	-.012478
56	.021784	.027987	-.019474	-.017076	-.031274	-.032379	-.000233	-.007976	-.002974
57	.025274	.030613	-.006613	-.004873	-.033162	-.032459	.005332	-.000667	.001047
58	.025900	.030020	.002421	.004298	-.035228	-.033256	.003964	.000112	.002285
59	.024399	.027167	.010069	.011413	-.042383	-.038320	-.001722	.004185	-.000344
60	.027012	.028014	.014552	.014397	-.047875	-.043160	-.009341	-.011213	-.008971

RUN NO. 76A 40M 10-24-62 1451-1606 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.89248 10E 00	0.68534 10E 00	0.531 10E-01	0.61470 10E 00	0.47631 10E-01	0.36576 10E-01
1	.027772	-.011521	-.029291	.012289	.015501	-.003887
2	.052113	-.025449	-.044297	.033372	.032378	-.003431
3	.067272	-.034920	-.050860	.041598	.049428	-.004466
4	.076412	-.044215	-.055103	.028470	.062296	-.006447
5	.075780	-.046182	-.054280	.012080	.068019	-.008099
6	.074311	-.046604	-.055909	.009279	.071520	-.009461
7	.066956	-.045604	-.060188	.002172	.072362	-.010248
8	.072617	-.044432	-.056886	.001215	.076526	-.019783
9	.083920	-.038214	-.051990	.007496	.079673	-.026476
10	.095216	-.041460	-.046908	.021392	.076216	-.034053
11	.093865	-.045054	-.041911	.042203	.072573	-.033327
12	.083886	-.045184	-.037837	.059192	.063111	-.027667
13	.069913	-.039691	-.032658	.068153	.052732	-.021976
14	.059145	-.042253	-.028570	.064585	.040903	-.020719
15	.052364	-.050600	-.023223	.058285	.026490	-.017940
16	.051025	-.058899	-.021329	.051705	.019832	-.008862
17	.054712	-.062159	-.013697	.047239	.021264	-.006417
18	.058321	-.055233	-.006474	.048522	.026026	-.008025
19	.065049	-.035738	-.003765	.047211	.034083	-.011795
20	.072553	-.015514	.005580	.047211	.048674	-.012045
21	.073935	-.001476	.017733	.047789	.055853	-.012180
22	.069019	.006834	.024701	.047409	.063435	-.015243
23	.064414	.015902	.022086	.041780	.068083	-.013489
24	.061168	.022747	.020132	.027240	.068326	-.008405
25	.049417	.021716	.015875	.003125	.060833	-.001339
26	-.036349	.022187	.014837	-.014010	.049991	.001477
27	.024857	.027232	.015926	-.019330	.039324	-.003476
28	.012584	.028958	.017672	-.028175	.025646	-.005932
29	.003968	.036460	.017713	-.033334	.016095	-.002230
30	-.005916	.037324	.016244	-.030525	.012026	-.001313
31	-.014766	.035264	.020786	-.022832	.008687	.002059
32	-.020128	.028930	.026077	-.012909	.000809	.011367
33	-.023242	.026244	.021553	.003374	-.007276	.016877
34	-.024323	.014552	.014090	.005873	-.014801	.016611
35	-.021921	.005407	.008449	-.004634	-.019269	.010254
36	-.018643	.010028	.002968	-.006185	-.014817	.011444
37	-.017618	.010661	-.001680	-.003950	-.008741	.016524
38	-.018025	.013275	-.002815	-.003428	-.007315	.016793
39	-.019263	.011240	-.003280	-.012217	-.005294	.006746
40	-.014929	.007860	-.009883	-.021018	-.002488	-.001716
41	-.008490	.000311	-.016941	-.021446	-.002697	-.006944
42	-.007357	-.003993	-.019961	-.014229	-.004371	-.007282
43	-.008141	-.011418	-.022410	-.011779	-.007247	-.001184
44	-.010230	-.016476	-.028150	-.010979	-.002619	.005208
45	-.016552	-.010133	-.037107	-.010455	-.002649	.015199
46	-.022274	-.005216	-.040313	-.007174	-.006428	.022187
47	-.029824	-.001360	-.039757	-.005655	-.006798	.020361
48	-.032181	.001800	-.041464	-.010835	-.007620	.022487
49	-.029839	.006121	-.040863	-.012036	-.011849	.018302
50	-.026843	.009655	-.043363	-.007732	-.017830	.014104
51	-.019950	.015642	-.044844	.000700	-.017525	.012966
52	-.015933	.023714	-.039001	.011101	-.019292	.012740
53	-.020529	.021454	-.038096	.012920	-.019355	.009428
54	-.019658	.014943	-.027808	.005142	-.018738	.006869
55	-.019224	.001870	-.018601	.000490	-.020040	.003144
56	-.023124	-.014996	-.010121	.003908	-.027924	-.000987
57	-.024429	-.031570	-.003513	.009958	-.035970	-.009931
58	-.030874	-.038643	-.000639	.015967	-.037828	-.011879
59	-.028242	-.037765	.004374	.015704	-.031069	-.004808
60	-.016510	-.034887	.009617	.010680	-.016638	-.000716



RUN NO. 76A 40M 10-24-62 1451-1606 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)
	0.23454	0.44854	0.21036	0.40230	0.16154	0.30893	0.12517	0.23938	0.10572
	10E 00	10E-01	10E 00	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
1	-.025159	-.027502	-.008618	-.004056	.014096	.011236	.029390	.025369	-.005796
2	-.045251	-.047807	-.011695	-.003292	.010551	.008270	.026798	.023223	-.005265
3	-.060140	-.062406	-.013173	-.000916	.003649	.002314	.017145	.015071	-.003289
4	-.071986	-.073328	-.011558	.003299	-.009340	-.009012	.007137	.006411	-.001253
5	-.076294	-.076987	-.009047	.006643	-.018172	-.016858	-.001857	-.001169	.000608
6	-.074082	-.075465	-.000849	.014160	-.023739	-.021901	-.007592	-.006002	.001775
7	-.073018	-.075473	.007194	.021244	-.025598	-.023955	-.012376	-.010121	.002692
8	-.066480	-.069125	.012736	.026857	-.028922	-.028759	-.014590	-.012047	.003098
9	-.062895	-.065096	.018562	.032419	-.034881	-.035070	-.018169	-.015143	.003710
10	-.062292	-.063496	.023305	.035709	-.034432	-.035974	-.024379	-.020452	.004985
11	-.062186	-.062202	.026636	.037693	-.031059	-.032773	-.025381	-.021512	.005140
12	-.055321	-.055586	.031719	.040085	-.022118	-.023827	-.022129	-.018706	.004570
13	-.049105	-.049289	.034866	.040449	-.011530	-.013678	-.018483	-.015656	.003860
14	-.045056	-.044841	.032156	.035686	-.005200	-.008170	-.014942	-.012769	.003194
15	-.045820	-.044403	.024469	.026273	-.000378	-.003432	-.011325	-.009657	.002506
16	-.048437	-.046104	.013168	.015325	.005734	.003603	-.011910	-.010153	.002538
17	-.046819	-.042865	.007869	.011158	.007710	.005344	-.010935	-.009384	.002212
18	-.041937	-.036944	.010705	.014552	.007704	.004894	-.008050	-.006897	.001615
19	-.033228	-.029281	.017897	.022350	.006258	.002632	-.002929	-.002383	.000516
20	-.020713	-.016655	.025673	.031965	.002544	-.000606	-.000129	.000006	-.000124
21	-.004688	-.000574	.030042	.037281	-.002006	-.004425	-.001995	-.001558	.000220
22	.009619	.013027	.033595	.041800	-.007613	-.009858	-.004346	-.003378	.000666
23	.020966	.022386	.039478	.047711	-.006686	-.008797	-.005948	-.004844	.000929
24	.024333	.024976	.043444	.051169	-.001899	-.003518	-.005920	-.004903	.000867
25	.027927	.027261	.040557	.047061	.002506	.001678	-.004556	-.003798	.000636
26	.035535	.033620	.033289	.038628	-.000978	-.000953	-.005165	-.004286	.000809
27	.045564	.042583	.026333	.030490	-.006676	-.006863	-.006964	-.005793	.001208
28	.050614	.047190	.022856	.024618	-.011699	-.011754	-.006449	-.005448	.001025
29	.048816	.045764	.021609	.021497	-.018498	-.016633	-.004122	-.003638	.000538
30	.046046	.043009	.022214	.021246	-.021316	-.018858	.000070	-.000191	-.000398
31	.046005	.043887	.023248	.021599	-.014058	-.011846	.002843	.002097	-.000913
32	.039270	.039204	.021266	.018201	-.001513	.000935	.003081	.002179	-.000910
33	.029407	.029953	.013127	.009491	.005672	.008166	.005739	.004449	-.001313
34	.019019	.019600	.001164	-.002150	.008421	.010586	.009929	.008219	-.002122
35	.005441	.006632	-.005500	-.008830	.005565	.006995	.016006	.013431	-.003471
36	-.004347	-.003022	-.004914	-.007398	.006024	.007744	.019868	.016829	-.004254
37	-.012597	-.011242	-.003106	-.004647	.007479	.010114	.022791	.019457	-.004787
38	-.012797	-.011383	-.002666	-.003936	.004470	.007603	.027528	.023532	-.005751
39	-.002314	-.002442	-.005640	-.005954	-.003770	-.001826	.029190	.024873	-.006105
40	.003394	.001228	-.007461	-.006875	-.016393	-.014507	.026199	.022324	-.005503
41	.000421	-.002942	-.008847	-.008121	-.023189	-.021420	.023758	.020434	-.005034
42	-.005791	-.009068	-.010384	-.009664	-.024667	-.022759	.019757	.017037	-.004100
43	-.005585	-.009242	-.009022	-.009009	-.023063	-.020068	.015566	.013397	-.003178
44	-.003439	-.008778	-.003143	-.003048	-.016858	-.013280	.010918	.009401	-.002182
45	-.006509	-.013126	.002354	.001568	-.007051	-.002733	.006240	.005263	-.001364
46	-.007961	-.015095	.001395	-.000035	.004359	.008349	.002089	.001436	-.000597
47	-.007812	-.014981	.001154	-.000316	.007883	.011135	-.000812	-.000865	.000137
48	-.014346	-.020830	.003281	.001457	.002749	.007146	-.001123	-.000947	.000328
49	-.018500	-.024140	.004326	.001194	.001143	.004962	.002540	.002155	-.000309
50	-.021234	-.027093	.003342	-.001057	.003201	.005897	.004859	.004067	-.000668
51	-.025173	-.031060	.005417	.000711	.006303	.008536	.006743	.005711	-.000959
52	-.023642	-.028575	.000580	-.003916	.010517	.012143	.007424	.006647	-.000770
53	-.021955	-.027120	-.006519	-.009896	.013731	.014058	.004492	.004223	-.000122
54	-.015350	-.019229	-.011405	-.014168	.014673	.014348	.002407	.002299	.000105
55	-.009794	-.012467	-.014854	-.017355	.011671	.010897	.000428	.000500	.000355
56	-.005696	-.007150	-.022207	-.025107	.010937	.009113	-.001336	-.001091	.000705
57	-.002694	-.003391	-.028284	-.031832	.005894	.002705	-.001048	-.000927	.000716
58	-.003217	-.003000	-.031280	-.034816	.002220	-.000824	-.000433	-.000482	.000481
59	-.006998	-.005069	-.025804	-.028665	.002760	.001373	.001429	.001566	-.000026
60	-.011398	-.007711	-.012960	-.014646	.002154	.001656	.006799	.005686	-.001021

RUN NO. 76A 40M 10-24-62 1451-1606 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.99505 10E 00	0.80048 10E 00	0.47203 10E 00	0.28341 10E-02	0.55283 10E-01	0.20219 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.751592	.805642	.739702	.863211	.875952	.879402
2	.575447	.577726	.455617	.694221	.698065	.705350
3	.451039	.415999	.273770	.553071	.542586	.552855
4	.357133	.296823	.151746	.431666	.412328	.423021
5	.269703	.198982	.080129	.329912	.308692	.317801
6	.194473	.122788	.034121	.247749	.225437	.233901
7	.127267	.074914	.010848	.176972	.157105	.163511
8	.072262	.034025	-.005400	.099386	.092771	.095978
9	.036129	.010372	-.014742	.029003	.033465	.033777
10	.001833	-.008648	-.036729	-.024172	-.012427	-.014007
11	-.027893	-.039307	-.070685	-.063930	-.050137	-.052884
12	-.064356	-.073043	-.100521	-.095881	-.080725	-.083473
13	-.103515	-.106076	-.121183	-.122612	-.104064	-.108127
14	-.131303	-.122180	-.131330	-.141345	-.123465	-.128283
15	-.150987	-.127769	-.137146	-.160239	-.139158	-.145264
16	-.172230	-.126883	-.148362	-.175456	-.158283	-.165846
17	-.191333	-.128215	-.162773	-.186400	-.181516	-.189033
18	-.209553	-.128959	-.165222	-.193734	-.204079	-.210666
19	-.202799	-.132093	-.166354	-.192625	-.224981	-.229212
20	-.212114	-.142868	-.185755	-.203575	-.243336	-.246761
21	-.221479	-.154139	-.199116	-.214444	-.254396	-.257460
22	-.225023	-.178177	-.195236	-.222390	-.259725	-.263495
23	-.224906	-.199171	-.190943	-.225853	-.255797	-.260265
24	-.228389	-.200608	-.185555	-.224904	-.240153	-.245600
25	-.215699	-.206399	-.176012	-.223471	-.224394	-.230943
26	-.200169	-.210938	-.161815	-.216277	-.207390	-.214742
27	-.191457	-.196696	-.142882	-.206394	-.194868	-.201843
28	-.181853	-.177588	-.129778	-.190233	-.184603	-.189843
29	-.161310	-.159584	-.108023	-.169787	-.164713	-.168560
30	-.134195	-.138458	-.070222	-.141769	-.136122	-.139345
31	-.088151	-.107671	-.033719	-.107842	-.101162	-.103862
32	-.057941	-.082327	-.009838	-.077833	-.070198	-.072696
33	-.030514	-.063320	.006304	-.042372	-.042807	-.043652
34	-.013206	-.043535	.026013	-.010111	-.020992	-.019793
35	-.004025	-.029539	.034732	.014939	-.002157	.001100
36	.002736	-.014632	.054948	.034922	.011345	.015390
37	.017901	.004774	.068402	.048710	.019519	.025250
38	.019374	.021942	.067860	.049945	.019982	.026529
39	.026272	.031549	.070063	.046399	.021291	.028842
40	.035848	.034181	.080509	.039595	.021432	.029758
41	.045304	.023929	.088825	.030055	.022072	.029822
42	.048143	.019283	.070607	.019878	.024625	.030921
43	.045294	.014643	.069309	.009731	.018812	.025143
44	.045604	.005365	.079309	-.013182	.002609	.007678
45	.043057	-.003957	.083311	-.039796	-.012710	-.009759
46	.040910	-.007564	.084907	-.062417	-.027241	-.024549
47	.032881	-.017353	.075973	-.075815	-.036868	-.033913
48	.023830	-.019415	.062798	-.084040	-.036642	-.035247
49	.008473	-.009752	.055205	-.084460	-.030603	-.030630
50	.002378	.006388	.053029	-.083070	-.026906	-.028742
51	-.003631	.018012	.046103	-.078924	-.025661	-.028071
52	-.017349	.033368	.034233	-.078815	-.026268	-.029472
53	-.027379	.049330	.016691	-.079035	-.023173	-.028281
54	-.032631	.055113	-.000211	-.068858	-.018755	-.024123
55	-.039576	.062732	-.009453	-.054200	-.011515	-.015103
56	-.055103	.065220	-.011913	-.038412	-.003170	-.004348
57	-.050092	.056235	-.013493	-.025428	.000258	.000525
58	-.039156	.037241	-.013260	-.016577	.001902	.001863
59	-.024697	.012494	-.025956	-.013458	.000120	-.001231
60	-.020166	-.023437	-.039537	-.015373	-.008200	-.010031

RUN NO. 76A 40M 10-24-62 1451-1606 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-03	10E-02
0	.168231	-.035389	-.061436	-.014240	.060447	.020220
1	.997787	-.259484	-.427572	-.100283	.420210	.110632
2	.753396	-.336126	-.491481	-.078773	.449553	.110378
3	.521612	-.365414	-.533088	-.050435	.697634	.123159
4	.379585	-.197077	-.339649	-.031176	.514640	.090667
5	.217498	-.074418	-.167448	-.015865	.064385	.047187
6	.278324	-.081889	-.146435	-.013978	.272015	.040386
7-8	.562766	-.108560	-.097991	-.022768	.238565	.043507
9-11	.180226	-.058180	-.036774	-.031437	.127090	.012328
12-15	-.058808	-.039276	-.029895	-.002214	.150470	.015454
16-20	-.089163	-.001492	-.012746	-.003081	.112874	.005837
21-27	-.035641	-.006700	-.008174	-.001174	.053240	.000878
28-36	-.014017	-.000781	-.006070	-.003207	.036156	.000098
37-47	.030272	-.000412	-.002585	-.003224	.010118	.000489
48-60	-.000420	-.000857	-.001293	-.001287	.016049	.000399

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	.368785	-.074617	-.042217	.119326	.175608	-.274857
2	.336579	-.125996	-.061123	.123050	.137324	-.337641
3	.223925	-.152698	-.113338	.084137	.083248	-.252640
4	.079935	-.075571	-.089292	-.002512	.041307	-.090803
5	.056371	.008417	-.045677	-.047980	.052418	-.020955
6	.094526	.011565	-.031323	-.031928	.066569	-.019222
7-8	.045194	-.027768	-.015254	.021857	.012542	.081221
9-11	.003911	-.020347	-.015432	.025195	-.008334	.050204
12-15	.035443	.001896	-.005367	.023067	.006468	-.047400
16-20	-.004503	.004146	-.005491	.000229	-.001478	.000954
21-27	.000259	-.000850	-.002784	-.000467	-.001915	-.001065
28-36	-.000433	-.000272	-.000628	-.0005830	.000107	-.007467
37-47	.000339	.001242	-.001211	-.000251	.000341	-.000151
48-60	-.001817	.001086	.000168	-.000819	-.000324	-.000001

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E-01	10E-03	10E-02	10E-03
0	.014358	.011240	.020494	.058993	.105551	.038558
1	.115327	.090529	.262130	.412349	.782455	.287555
2	.144420	.107595	.470066	.457636	.904291	.335640
3	.155018	.109139	.601270	.486733	.950624	.354889
4	.096799	.070454	.399225	.323449	.616790	.228680
5	.054706	.048425	.243874	.185972	.343799	.126460
6	.048450	.050968	.243360	.178998	.310407	.114813
7-8	.039124	.039253	.233609	.120360	.261134	.094095
9-11	.025737	.024547	.176850	.062433	.144208	.051267
12-15	.015967	.018232	.141659	.040217	.087924	.030773
16-20	.010635	.009107	.080626	.028641	.052281	.018817
21-27	.009353	.007169	.056423	.015665	.026540	.009206
28-36	.006798	.004654	.033855	.010588	.017026	.006128
37-47	.005777	.002585	.024338	.006476	.010051	.003574
48-60	.005018	.001898	.015201	.004681	.006221	.002170

RUN NO. 76A 40M 10-24-62 1451-1606 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-02	10E-02	10E-02	10E-03	10E-02
0	-.017668	-.039445	-.037005	-.049310	.050775	.011761	.015031	.034754	.019882
1	-.137034	-.297584	-.263572	-.356486	.351771	.076685	.115899	.260637	.148145
2	-.182848	-.383656	-.350263	-.499206	.552909	.110020	.140977	.309477	.172394
3	-.199815	-.419054	-.291981	-.363896	.798107	.152739	.151066	.331216	.181778
4	-.110356	-.239696	-.177809	-.203489	.628401	.119088	.093967	.209874	.117358
5	-.042981	-.099398	-.269553	-.430145	.388423	.072046	.050051	.114186	.065051
6	-.028312	-.071453	-.230765	-.331687	.348061	.064200	.045860	.106065	.058829
7-8	-.020592	-.050499	-.141543	-.189256	.280313	.053366	.035780	.079422	.049005
9-11	-.003774	-.012416	-.048588	-.057847	.118302	.021342	.018944	.041762	.026892
12-15	-.006524	-.015830	-.053111	-.061756	.131212	.024013	.010564	.024256	.016223
16-20	-.000830	-.003540	.008973	.034497	.066840	.011962	.007027	.016415	.009765
21-27	.000693	-.000255	.006896	.020842	.025973	.004375	.002955	.007183	.004857
28-36	-.000496	-.001823	.000482	.007288	.014588	.002422	.002179	.005398	.003164
37-47	-.000106	-.000563	-.001923	-.001705	.008126	.001429	.001111	.002916	.001853
48-60	.000119	-.000038	.001037	.004179	.003502	.000644	.000651	.001854	.001126

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-04	10E-04	10E-04
1	-.289944	-.055143	.403028	.962735	-.117573	-.239045	-.419003	-.066707	.061837
2	-.499882	-.093178	.223305	.604630	-.080534	-.187302	-.868257	-.139193	.151250
3	-.708223	-.136535	.012671	.167867	-.089201	-.183786	-.543888	-.086030	.104282
4	-.453631	-.090295	-.079595	-.056598	-.099734	-.174524	.032984	.006922	.000694
5	-.103109	-.025081	-.016524	.065167	-.082798	-.139050	-.039664	-.004952	.008759
6	-.056028	-.014823	-.012348	.098186	-.054996	-.096031	.184495	.032824	-.031809
7-8	-.179557	-.032272	-.102976	-.144356	.051852	.097500	.592859	.097937	-.099157
9-11	-.061408	-.012694	-.048588	-.094100	.055991	.101419	.368816	.060289	-.059810
12-15	-.018900	-.003951	-.004954	.003021	.011302	.010240	.248044	.040801	-.043028
16-20	.008247	.000411	.002390	.001064	.021226	.033872	.245567	.040365	-.041461
21-27	-.000609	-.001392	-.003188	-.008885	.008998	.014557	.116067	.019167	-.019338
28-36	-.000999	-.000203	-.004515	-.006568	.002877	.003483	.093114	.015177	-.015586
37-47	-.000399	-.000318	-.000129	.000481	.003671	.006093	.048979	.008063	-.008268
48-60	-.000530	-.000133	-.001653	-.003112	.002963	.004741	.012490	.002181	-.002005

RUN NO. 76A 40M 10-24-62 1451-1606 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
	0.10481 10E 01	0.53500 10E 00	0.74847 10E-01	0.47801 10E 00	0.66875 10E-01	0.34135 10E-01
0	.199007	-.438709	-.642689	-.109890	.030195	.347737
1	.159753	-.269783	-.433684	-.072887	.010106	.218453
2	.119996	-.122876	-.255732	-.014374	.000138	.135699
3	.069431	-.057114	-.170013	.007817	.023821	.066252
4	.024171	-.020164	-.075161	.064107	.036631	-.039530
5	-.006007	.059674	.034392	.055819	.036940	-.071640
6	-.038786	.104537	.059563	.059685	.079511	-.097772
7	-.074556	.095332	.089851	.040861	.093044	-.090802
8	-.074998	.071407	.102169	.019032	.074508	-.077601
9	-.084798	.020959	.117584	.013938	.055969	.003438
10	-.128673	.013906	.115687	.039781	.067620	-.032849
11	-.143918	.061677	.129264	-.000386	.078501	-.018733
12	-.120198	.077418	.117044	-.034786	.045677	.012978
13	-.092869	.037756	.079672	.004399	-.023997	.036777
14	-.020195	.016089	.052477	-.013857	-.119536	.035026
15	-.009014	-.008715	.042590	-.003595	-.107216	.016383
16	.031468	.017196	.018723	-.040955	-.085562	-.051942
17	.073300	.057190	.021202	-.079997	-.095666	-.026405
18	.117052	.034091	.051336	-.100202	-.114273	-.032792
19	.084747	.042584	.072298	-.031382	-.085524	-.076217
20	.070009	.053142	.058217	-.014717	-.093486	-.072113
21	.049734	.019150	.029226	.018408	-.086109	-.044710
22	.053141	.020664	.030229	.006497	-.086157	-.041202
23	.029479	.023894	.011477	.028705	-.069724	-.002577
24	.002214	-.017245	-.008537	.008445	-.092435	.033707
25	-.028420	-.034909	.007483	.035949	-.133586	.029410
26	-.037342	-.060381	.017521	-.008988	-.140498	.050660
27	-.026694	-.046369	-.004803	-.005992	-.073217	.045021
28	-.022576	-.014971	-.002497	.016778	-.005119	.024107
29	.006771	-.018110	.046392	-.038947	-.010934	.035549
30	.012024	.025283	.057202	.006443	.002019	-.054772

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-01	10E-02	10E-01	10E-02	10E-02
0	.010297	-.030859	-.116144	.001502	.033059	.020882
1	.137671	-.243860	-.733455	.041218	.319863	.126579
2	.406852	-.269712	-.732503	.013791	.118544	.116997
3	.681962	-.289339	-.747362	-.077653	-.161480	.131863
4	.391378	-.285036	-.598235	-.113212	-.172178	.180598
5	.033078	-.248717	-.394448	-.070080	-.022075	.179236
6	.055295	-.181167	-.246668	-.075831	.061284	.105504
7	.132250	-.152724	-.228780	-.079424	.014124	.067734
8	.099149	-.109556	-.206642	-.032298	-.024696	.052200
9-11	.010887	-.030734	-.100502	-.026112	.037410	.015171
12-14	.041037	-.092965	-.090448	.000495	-.026669	.024380
15-21	.004245	-.044228	-.088138	-.011932	.023833	.018523
22-30	.014004	-.025342	-.042373	.000331	.000120	.016252

RUN NO. 76A 40M 10-24-62 1451-1606 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)
	0.33318 10E 00	0.63302 10E-01	0.29770 10E 00	0.56560 10E-01	0.15195 10E 00	0.28869 10E-01	0.21258 10E-01	0.40389 10E-02	0.17979 10E-01
0	-.485995	-.549695	-.217293	-.181565	.275847	.308535	.607192	-.727191	.986894
1	-.345333	-.385604	-.160094	-.136212	.102547	.132293	.388790	-.471795	.650880
2	-.183328	-.210033	-.139321	-.120058	.048028	.068922	.214337	-.270906	.393505
3	-.135715	-.152157	-.080332	-.064108	.032428	.041620	.132467	-.172913	.244732
4	-.085861	-.089607	-.042238	-.029067	-.006356	-.013624	.065566	-.088126	.119789
5	-.010201	-.002112	-.012515	-.003037	-.023698	-.034565	-.010022	-.008809	-.025040
6	.051512	.056363	.062919	.070325	-.075039	-.084479	-.036995	-.038623	-.091134
7	.088219	.094412	.123662	.125738	-.054667	-.065265	-.068720	-.076990	-.149316
8	.105800	.111740	.131517	.128356	-.043725	-.053607	-.078278	-.092578	-.184083
9	.105733	.114700	.155082	.144982	-.011644	-.008750	-.062378	-.083573	-.184964
10	.097945	.107960	.158548	.150511	-.059566	-.058301	-.064893	-.085698	-.187909
11	.095010	.108535	.128037	.126660	-.033292	-.032207	-.062979	-.082612	-.182648
12	.078096	.091478	.089342	.086278	.013281	.014542	-.048957	-.064979	-.169960
13	.026065	.038641	.002021	-.002646	.047704	.048737	-.045287	-.060938	-.157890
14	-.006878	.005079	-.104870	-.114253	.061094	.059432	-.033837	-.051216	-.119636
15	-.046528	-.031434	-.117848	-.122881	.062644	.056981	.011001	-.006197	-.024738
16	-.046672	-.053715	-.098091	-.101356	.044405	.027878	.039385	.024219	.054364
17	-.030355	-.021980	-.090565	-.097700	.044743	.033879	.022303	.006083	.050384
18	.031687	.038104	-.076687	-.089389	.025211	.014993	-.032257	-.051093	.000847
19	.095771	.097121	-.029204	-.042569	-.065552	-.072492	-.104884	-.122077	-.044016
20	.103053	.100923	-.000942	-.020187	-.081684	-.085244	-.107943	-.119961	-.056290
21	.104354	.095675	-.012936	-.029208	-.108475	-.102311	-.119505	-.126521	-.063489
22	.130690	.119261	.004930	-.013262	-.098201	-.093463	-.138884	-.146625	-.083544
23	.139441	.123171	.014347	-.002638	-.060811	-.053164	-.120680	-.124554	-.067739
24	.129110	.110095	.023237	.000399	-.025137	-.015247	-.088059	-.092708	-.072842
25	.131453	.115143	.025403	-.005456	-.018014	-.009417	-.094434	-.110618	-.073356
26	.104593	.094156	.000047	-.028998	.017313	.025337	-.076256	-.096934	-.052009
27	.071932	.061740	.002578	-.013474	.002822	.011012	-.044063	-.058785	-.042155
28	.043314	.037354	.054361	.045445	-.032605	-.024845	-.039569	-.053034	-.074127
29	.000581	.010208	.007952	.004218	.028761	.031348	.002819	-.014375	-.008086
30	-.015054	-.001273	-.014021	-.011451	.012537	.000135	-.009933	-.022787	-.017429

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-03	10E-02
0	-.044957	-.093712	-.009700	-.010070	.061450	.013720	.041578	.095403	.045555
1	-.281486	-.587993	-.040320	-.010782	.321698	.074619	.220428	.517523	.262932
2	-.228738	-.501017	-.090113	-.127670	.202763	.053219	.164217	.397587	.257143
3	-.251921	-.541168	-.203906	-.362090	.363287	.081932	.159827	.376747	.285819
4	-.257298	-.523989	-.193334	-.345961	.647942	.136973	.161772	.359931	.229908
5	-.126258	-.274009	-.046577	-.080149	.395653	.095454	.102231	.231840	.126993
6	-.042672	-.111964	.037409	.071307	.106195	.035437	.063003	.144099	.086696
7	-.062137	-.140968	.009080	.016910	.203705	.044942	.070206	.149488	.090907
8	-.064488	-.140923	-.026269	-.047405	.198775	.041370	-.053302	.117231	.065498
9-11	-.035755	-.075370	-.004349	-.000858	.078430	.015487	.034013	.075138	.041116
12-14	-.045759	-.090701	-.017258	-.033051	.160869	.030498	.029655	.061268	.034091
15-21	-.027631	-.060608	.001649	.006747	.127192	.024085	.024528	.055255	.030807
22-30	-.006819	-.018603	-.012733	-.020757	.129239	.024104	.013436	.030379	.019569

RUN NO. 76A 40M 10-24-62 1451-1606 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
	0.10481 10E 01	0.53500 10E 00	0.74847 10E-01	0.47801 10E 00	0.66875 10E-01	0.34135 10E-01
1	.118441	-.052422	-.057737	.073994	.092137	-.027452
2	.146997	-.068298	-.073560	.114751	.126209	-.033334
3	.124094	-.023157	-.088387	.070527	.130771	-.017006
4	.084476	-.054236	-.122181	.050080	.095368	-.016399
5	.029796	-.037582	-.133781	.051547	.058936	-.010925
6	.015797	-.067853	-.097613	.008904	.019730	-.007789
7	-.022924	-.014682	-.082029	-.013592	-.029409	-.010812
8	-.058380	-.010670	-.055479	-.037436	-.082487	-.006724
9	-.084487	-.002238	-.078092	-.003161	-.148905	-.011867
10	-.124920	.023867	-.055418	-.022795	-.193292	-.002097
11	-.087307	.033035	-.027251	-.017602	-.161922	-.035126
12	-.048649	.037261	.007557	.044459	-.124106	-.028937
13	-.050190	.015052	-.012607	.068751	-.105209	-.001698
14	-.007534	-.015525	.000231	.029334	-.059456	-.000247
15	-.005019	-.031222	-.022928	.016852	-.023169	.001243
16	-.015079	-.002600	-.034719	.030493	-.010554	.006012
17	-.013766	.001243	-.036527	.021148	-.011341	-.001903
18	.023504	-.010728	-.032263	.026920	.017268	-.010160
19	.030756	-.009325	.025673	-.024557	.012522	-.016512
20	-.000114	-.019389	.052079	-.038836	-.012471	-.066990
21	-.013989	.020679	.052444	-.037379	-.006489	-.030570
22	-.031955	-.015632	.037088	-.039303	-.035797	-.039262
23	-.012698	.004397	.045415	-.026267	-.020238	-.008368
24	-.038229	-.000741	.035484	-.064389	-.036306	-.023716
25	-.037576	-.011394	-.002185	-.047760	-.011323	-.001929
26	-.036301	-.024886	-.024588	-.071026	-.038776	.023389
27	-.013116	.020214	-.036533	-.048529	-.032047	.088890
28	.035452	-.010399	-.035948	-.006085	.026165	.025575
29	.074904	.000919	.014650	.057956	.094005	-.074989
30	.076017	.008662	.045728	.121698	.090804	-.044774

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	-.206168	-.048488	-.338192	.067827	-.321940	-.456504
2	-.020753	-.051881	-.310754	.059219	-.091504	-.176626
3	.234153	-.084902	-.247198	.032909	.195688	-.166115
4	.455816	-.103021	-.178478	.081808	.391155	-.137514
5	.422241	-.071970	-.117282	.132261	.313557	-.023957
6	.255820	-.015638	-.008503	.104005	.120394	-.215055
7	.149490	.010162	-.008883	.057704	.024390	-.244589
8	.090356	-.006899	-.045262	.028592	.016882	-.063449
9-11	.128024	-.027258	.021117	.030949	.054344	-.074654
12-14	.036253	-.033597	-.023995	.016601	.007391	-.060409
15-21	.015818	-.006367	-.020297	.004419	.004260	-.022694
22-30	.002877	.019171	-.002629	-.006808	.008244	.008344

RUN NO. 76A 40M 10-24-62 1451-1606 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)
	0.33318	0.63302	0.29770	0.56560	0.15195	0.28869	0.21258	0.40389	0.17979
	10E 00	10E-01	10E 00	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
1	-.081054	-.082188	.026346	.040930	-.035500	-.036203	.013168	.011390	-.002428
2	-.099694	-.102171	.044478	.062719	-.021521	-.024442	.041082	.035582	-.007504
3	-.108108	-.112242	.036361	.056882	-.026014	-.025230	.058252	.050568	-.010833
4	-.147812	-.153151	-.015175	.005488	-.007710	-.009639	.072287	.062939	-.013455
5	-.151250	-.158235	-.022011	-.008130	.008722	.005447	.061207	.052920	-.011194
6	-.153527	-.152999	-.063067	-.050962	.037164	.031124	.051914	.045034	-.009145
7	-.117410	-.118539	-.076610	-.072810	.028503	.022486	.023428	.020214	-.003599
8	-.080458	-.080487	-.087600	-.092867	.039556	.032091	-.008893	-.008081	.001703
9	-.053509	-.061636	-.090649	-.108897	.019565	.014235	-.051282	-.044612	.010286
10	.020707	.006436	-.114724	-.138188	.003712	.003018	-.078376	-.067445	.015638
11	.058917	.044709	-.083869	-.104895	-.025340	-.029058	-.073941	-.063188	.014886
12	.098860	.087022	-.052596	-.070125	-.036675	-.037679	-.105775	-.091193	.021141
13	.095306	.079531	-.036505	-.052939	-.022224	-.019475	-.111847	-.096563	.022215
14	.080386	.069414	-.036369	-.043321	-.008815	-.007227	-.089202	-.076400	.017517
15	.061581	.047993	-.003208	-.007065	.011510	.010520	-.080301	-.068670	.015821
16	.051099	.036939	.018809	.014312	.021129	.019345	-.085413	-.073188	.016827
17	.034519	.022393	.007655	.004203	-.004571	-.004224	-.072880	-.062283	.014951
18	.000387	-.006257	-.001649	.002184	-.003843	-.005919	-.058490	-.050150	.011707
19	.018901	.021269	-.000515	.001811	-.017703	-.018671	-.044187	-.037947	.009084
20	.026980	.033588	-.035982	-.033622	-.045336	-.052243	-.021851	-.018615	.004745
21	.026655	.033515	-.041518	-.037409	-.042607	-.042692	.006756	.006138	-.000737
22	-.023756	-.013813	-.073216	-.070730	-.017652	-.022918	.041005	.035973	-.007254
23	-.051849	-.036346	-.037873	-.037301	.032925	.027269	.067217	.058504	-.012591
24	-.070003	-.053944	-.045121	-.046652	.020706	.013432	.065122	.056473	-.012772
25	-.085122	-.073850	-.010785	-.011651	.024457	.020711	.064611	.055582	-.013192
26	-.104501	-.094873	-.012915	-.018929	.023149	.024243	.057661	.049421	-.011898
27	-.127443	-.117430	.010313	.002934	.071204	.079212	.058915	.051450	-.011793
28	-.119635	-.110678	.046724	.046043	.036926	.036957	.065497	.056947	-.013013
29	-.070480	-.057570	.121421	.124008	-.047670	-.056360	.095437	.082707	-.019281
30	-.043724	-.027622	.136229	.136230	-.038582	-.042257	.094100	.081215	-.019386

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-01	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	-.052997	-.146784	-.132661	-.274091	-.003360	-.081053	-.733049	-.119278	.129248
2	-.126688	-.262277	-.072027	-.135276	.059372	.068796	.029886	.004979	-.000601
3	-.211352	-.390438	-.019378	-.000254	.064151	.079770	.774072	.126834	-.124473
4	-.149111	-.276658	.048396	.144773	-.022257	-.055918	.604829	.099482	-.096868
5	-.045433	-.095960	.069776	.167417	-.089285	-.145802	.206641	.034375	-.033028
6	.017417	.025890	.032637	.073734	-.216158	-.386736	.040485	.006987	-.006021
7	.016865	.025570	.017413	.032428	-.205160	-.377171	-.095596	-.015611	.015766
8	-.014211	-.031313	.016950	.030289	-.024920	-.051974	-.068947	-.011354	.010233
9-11	-.010817	-.014316	.011295	.027419	-.012034	-.032362	-.024847	-.004336	.003919
12-14	-.013585	-.026857	-.002029	-.002038	-.009460	-.024061	-.005441	-.000773	.001634
15-21	-.009044	-.018072	-.003369	-.004658	-.029959	-.055261	-.019249	-.003182	.002866
22-30	.000975	.001287	.005551	.010543	-.030333	-.049459	-.010197	-.001729	.001475



RUN NO. 76A 40M 10-24-62 1451-1606 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIARIANCE

M	U	V	W	T	N	RHO(W)
	0.11731 10E 01	0.93650 10E 00	0.24399 10E 00	0.47755 10E-02	0.94632 10E-01	0.34159 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.595599	.595452	.204009	.672140	.662392	.657723
2	.327056	.350013	-.015902	.423310	.405280	.394794
3	.184766	.191492	-.033424	.285799	.252154	.246612
4	.073649	.073663	.011101	.153507	.122969	.121654
5	-.057744	-.022339	-.049919	-.002353	-.026842	-.023198
6	-.112135	-.102473	-.127804	-.035862	-.096983	-.086308
7	-.173431	-.173987	-.192969	-.088702	-.156936	-.144361
8	-.177276	-.183351	-.117897	-.123136	-.194745	-.177778
9	-.184738	-.198631	.037863	-.147084	-.199622	-.176595
10	-.218893	-.177688	-.012338	-.146268	-.201903	-.179994
11	-.197453	-.154875	-.019419	-.138848	-.195954	-.175072
12	-.188332	-.148433	-.020588	-.110645	-.184965	-.160265
13	-.165238	-.157206	-.088362	-.108113	-.172063	-.148788
14	-.132855	-.148437	.017995	-.106963	-.130148	-.114083
15	-.079714	-.113126	-.009375	-.077472	-.031319	-.022555
16	-.040534	-.030649	-.134421	-.046350	.053727	.051771
17	-.006272	.008445	-.033875	-.063428	.052946	.044793
18	-.006785	-.026801	.042911	-.113691	.008450	-.009575
19	-.012781	-.076529	.000837	-.155279	-.026591	-.062574
20	-.004719	-.048517	.010890	-.131076	-.040006	-.072842
21	.029631	-.030211	-.084211	-.116505	-.046156	-.079900
22	.025589	-.120075	-.041850	-.133590	-.064493	-.101528
23	-.012425	-.077534	.078103	-.100378	-.050643	-.083349
24	.003053	-.090639	.090249	-.081857	-.063908	-.081553
25	-.005895	-.104311	-.012924	-.145080	-.063316	-.085308
26	-.026670	-.062317	.047865	-.152298	-.042255	-.064670
27	-.030226	.036211	.020989	-.098141	-.037365	-.049321
28	-.002432	.087444	.012313	-.088645	-.075470	-.075748
29	-.066871	.121652	.091904	-.079150	-.008838	-.010938
30	-.013619	.086203	-.027948	-.068126	-.017138	-.020289

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E 00	10E 00	10E-01	10E-03	10E-01	10E-03
0	.015889	.013795	.010020	.157528	.023411	.091160
1	.130014	.118550	.089542	.904901	.137188	.520351
2	.160680	.130038	.118302	.745116	.139472	.490399
3	.182195	.138083	.145484	.667901	.157384	.533878
4	.134543	.110168	.154620	.553596	.123253	.438789
5	.084784	.069600	.162890	.375964	.066810	.247810
6	.066043	.053140	.145433	.239428	.046317	.166744
7	.058276	.044762	.109321	.202047	.048076	.174720
8	.046883	.029518	.067130	.174435	.034311	.127662
9-11	.031844	.027909	.079464	.113046	.021513	.088329
12-14	.028577	.020755	.144850	.073666	.017651	.066526
15-21	.023560	.016463	.095793	.086514	.016199	.060105
22-30	.017045	.015819	.091353	.048349	.010517	.037361

RUN NO. 76A 16M 10-24-62 1451-1606 EST  
 RUN NO. 76A 40M 10-24-62 1451-1606 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	.609005	.679429	.559336	.736273	.814702	.807786
1	.508586	.697193	.458271	.697338	.735793	.730352
2	.444045	.587979	.514908	.493099	.599329	.576892
3	.397227	.485877	.557148	.304085	.495467	.459941
4	.358901	.444516	.515816	.289438	.490165	.462462
5	.298344	.477851	.424948	.448024	.522779	.512795
6	.203176	.483924	.432337	.464222	.464946	.453677
7-8	.180316	.357337	.360044	.391171	.416259	.416746
9-11	.079399	.158117	.282624	.141421	.238819	.226141
12-15	.072262	.177384	.297906	.188493	.239683	.241227
16-20	.174176	.131611	.260685	.196149	.192935	.198948
21-27	.092244	.098393	.099848	.154094	.141948	.137600
28-36	.092617	.116021	.105905	.128726	.090109	.080844
37-47	.136784	.089818	.101068	.124433	.096597	.110380
48-60	.087909	.102986	.092091	.130985	.094573	.112530

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	.844092	.908039	.578577	.878849	.817657	.831313
1	.823282	.881441	.673417	.841643	.890541	.884686
2	.735346	.881829	.602636	.761745	.903737	.878839
3	.686874	.907222	.561548	.716849	.895405	.870995
4	.720820	.906475	.581241	.811827	.895818	.889088
5	.726156	.851301	.652296	.824838	.821192	.824859
6	.660318	.816867	.549263	.799465	.784337	.803406
7	.586497	.785184	.560141	.811049	.850937	.860445
8	.462443	.743929	.553677	.785450	.836410	.825671
9-11	.397110	.653974	.323327	.612440	.603551	.592893
12-14	.419101	.608171	.571008	.305479	.561067	.537107
15-21	.411132	.338659	.535508	.336107	.457948	.431700
22-30	.330785	.403764	.283440	.328423	.428948	.416478

RUN NO. 768 16M 10-24-62 1606-1702 EST

GROSS STATISTICS

CLEAR	WIND SPEED	3.98 M/SEC	WIND DIRECTION	289 DEG
STABLE	SIGMA A	9.9 DEG	SOLAR RADIATION	0.04
LAND	SIGMA E	4.8 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
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VARIANCES

U	0.72328E 00	0.53750E 00	0.31571E-00	0.39617E-00
V	0.52138E 00	0.37469E-00	0.22056E-00	0.24596E-00
W	0.11144E-00	0.10796E-00	0.10163E-00	0.40910E-01
T	0.18289E-00	0.11300E-01	0.95861E-02	0.62681E-02
N	0.54934E 00	0.26818E-00	0.12933E-00	0.20212E-00
RHO(W)	0.70192E-01	0.56162E-02	0.21090E-02	0.45671E-02
E	0.67805E 00	0.51033E 00	0.31895E-00	

GUSTINESS RATIOS

U	0.21368	0.18421	0.14118	0.15815
V	0.18142	0.15380	0.11800	0.12461
W	0.08387	0.08256	0.08010	0.05082

COVARIANCES

U,V	-0.13319E-01	-0.50240E-01	-0.11694E-01	-0.38060E-01
U,W	-0.79974E-01	-0.84512E-01	-0.54550E-01	-0.57940E-01
U,T	0.86052E-01	0.28346E-01	0.22698E-01	0.21231E-01
V,W	-0.32804E-02	-0.76302E-02	-0.83282E-02	0.44376E-03
V,T	0.11109E-00	0.76582E-02	0.19189E-02	0.61116E-02
W,T	-0.44567E-02	-0.12831E-01	-0.12161E-01	-0.63430E-02
U,N	-0.64349E-01	-0.15669E-00	-0.90193E-01	-0.12453E-00
U,RHO(W)	0.44070E-02	-0.20693E-01	-0.10796E-01	-0.16649E-01
V,N	-0.12302E-00	0.17862E-01	0.64737E-03	0.16653E-01
V,RHO(W)	-0.85465E-03	0.42281E-02	0.43088E-03	0.37820E-02
W,N	0.64232E-01	0.53887E-01	0.43445E-01	0.29984E-01
W,RHO(W)	0.97162E-02	0.65703E-02	0.49784E-02	0.37930E-02
T,N	0.13756E-03	-0.33169E-01	-0.28759E-01	-0.17939E-01
T,RHO(W)	0.31777E-01	-0.34565E-02	-0.30324E-02	-0.18441E-02
N,RHO(W)	0.89796E-01	0.38050E-01	0.16131E-01	0.29916E-01
WE	-0.28382E-01	-0.30509E-01	-0.98725E-02	

NORMALIZED COVARIANCES

U,V	-0.02169	-0.11195	-0.04431	-0.12193
U,W	-0.28170	-0.35083	-0.30453	-0.45512
U,T	0.23660	0.36373	0.41258	0.42606
V,W	-0.01361	-0.03794	-0.05563	0.00442
V,T	0.35974	0.11770	0.04173	0.15565
W,T	-0.03122	-0.36737	-0.38960	-0.39611
U,N	-0.10209	-0.41270	-0.44636	-0.44007
U,RHO(W)	0.03647	-0.37662	-0.41840	-0.39140
V,N	-0.22987	0.05635	0.00383	0.07469
V,RHO(W)	-0.00833	0.09217	0.01998	0.11284
W,N	0.25961	0.31670	0.37894	0.32974
W,RHO(W)	0.20483	0.26683	0.34005	0.27749
T,N	0.00043	-0.60254	-0.81678	-0.50399
T,RHO(W)	0.52291	-0.43390	-0.67442	-0.34466
N,RHO(W)	0.85260	0.98045	0.97675	0.98461

RUN NO. 768 16M 10-24-62 1606-1702 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26389 10E 00	0.17916 10E 00	0.55021 10E-01	0.14971 10E 00	0.45978 10E-01	0.31215 10E 01
0	-.044149	-.304271	.412385	-.055644	.041684	-.389480
1	-.026720	-.267784	.392093	-.046287	.029055	-.325954
2	-.006631	-.206545	.341280	-.022299	.013160	-.231229
3	-.006189	-.141908	.275926	-.004569	.005643	-.151045
4	-.001644	-.084857	.220630	-.006529	.004744	-.092294
5	.002030	-.054373	.170256	-.005232	.004135	-.057865
6	.007233	-.033644	.128762	.008567	-.001976	-.030006
7	.015856	-.021956	.096010	.017854	-.009246	-.006289
8	.019031	-.016811	.068645	.016065	-.006377	.008495
9	.017072	-.003795	.046069	.013671	.003118	.016882
10	.014622	.016466	.022901	.013765	.009247	.022653
11	.012295	.030983	-.005232	.012457	.008002	.026299
12	.007540	.044849	-.040180	.000811	.012237	.042072
13	.003500	.048684	-.067226	-.017245	.011462	.048494
14	-.002959	.040925	-.088455	-.035291	.008903	.060530
15	-.013124	.030000	-.104766	-.047912	.003770	.073900
16	-.017742	.021465	-.117042	-.050420	-.005564	.077597
17	-.031119	.027828	-.128434	-.033682	-.016541	.074078
18	-.050316	.048540	-.148001	-.015290	-.026755	.076260
19	-.062246	.066975	-.168348	-.008238	-.027508	.090190
20	-.065215	.078335	-.186167	-.001529	-.019093	.100226
21	-.062247	.092935	-.198952	.006106	-.012296	.112875
22	-.045584	.093154	-.199913	.015251	-.014817	.116286
23	-.024963	.088028	-.198388	.014229	-.011377	.114241
24	-.012444	.080316	-.196691	.010936	-.001076	.112171
25	-.007140	.076786	-.186314	.003832	.009967	.108960
26	.006245	.078312	-.161182	-.000992	.008772	.097601
27	.017764	.081564	-.132349	-.006693	.008146	.084945
28	.020882	.079266	-.110920	-.003845	.009421	.069549
29	.022365	.084251	-.089164	.005581	.000293	.053142
30	.018986	.082743	-.068387	.020330	-.007007	.035926
31	.016586	.068740	-.049278	.035906	-.009747	.021145
32	.017125	.053926	-.031436	.053159	-.010809	.002144
33	.017997	.037502	-.017539	.062706	-.012282	-.018561
34	.016059	.019422	-.007547	.064487	-.011535	-.033583
35	.019815	.001814	.005881	.066654	-.010746	-.039203
36	.024944	-.012069	.023909	.067915	-.009794	-.038854
37	.026896	-.022697	.042597	.070651	-.012893	-.044082
38	.025602	-.030647	.052474	.076722	-.023735	-.051525
39	.027947	-.040194	.058051	.069784	-.028636	-.057633
40	.026590	-.052705	.065507	.053308	-.027012	-.054932
41	.026050	-.059912	.075600	.033718	-.016508	-.046575
42	.021881	-.056466	.078498	.018319	-.006994	-.040484
43	.020808	-.045589	.072997	.010025	.000868	-.037440
44	.020688	-.043422	.067969	-.006324	.008827	-.040137
45	.015405	-.051962	.060847	-.023527	.019208	-.045931
46	.014773	-.053868	.048195	-.034913	.033779	-.045333
47	.016295	-.052949	.035125	-.050643	.041830	-.016432
48	.015559	-.042594	.019665	-.060100	.041491	-.019377
49	.007931	-.020091	.006050	-.064982	.037457	-.000230
50	-.002789	-.001897	-.010667	-.054980	.029275	.020790
51	-.010447	.005538	-.021941	-.043384	.025692	.027430
52	-.017037	.010634	-.025550	-.031024	.025383	.022177
53	-.014186	.012551	-.029577	-.026309	.028650	.019580
54	-.006694	.018049	-.030185	-.027422	.033023	.019447
55	-.003716	.021151	-.027570	-.028720	.042934	.014988
56	-.004448	.012998	-.025682	-.024422	.057896	.009461
57	.008392	.007300	-.022155	-.022575	.057096	-.006210
58	.025104	-.004586	-.008402	-.034042	.046825	-.021438
59	.032460	-.019495	.003755	-.049884	.036034	-.029378
60	.036560	-.034189	.018173	-.055241	.026070	-.038638

RUN NO. 768 16M 10-24-62 1606-1702 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)
	0.20213	0.25813	0.16891	0.21571	0.11467	0.14644	0.35217	0.44975	0.16522
	10E 00	10E-01	10E 00	10E-01	10E 00	10E-01	10E-01	10E-02	10E-01
0	-.446279	-.418377	.003915	.019792	.378800	.339835	-.816682	-.674372	.976729
1	-.414518	-.384946	.004084	.015356	.313842	.280027	-.670779	-.551590	.793584
2	-.349200	-.320245	.004373	.009973	.217319	.192191	-.479209	-.391040	.579914
3	-.277232	-.292428	.005045	.008281	.136835	.119039	-.342367	-.277967	.430666
4	-.213104	-.191133	.002453	.004971	.078360	.065923	-.245943	-.198048	.327450
5	-.156832	-.137732	-.002882	-.002062	.043863	.034754	-.168120	-.134182	.254053
6	-.114357	-.098739	-.002482	-.003923	.019324	.013671	-.097173	-.075362	.192764
7	-.083867	-.072051	.004283	.001832	.006054	.005653	-.047393	-.035854	.147126
8	-.060463	-.052285	.011064	.011359	.000775	.004313	-.020733	-.016563	.107568
9	-.041769	-.036777	.013830	.018450	-.006145	-.001564	.000257	-.001034	.068145
10	-.018206	-.014900	.013930	.021074	-.009738	-.004024	.027981	.021556	.022975
11	.012058	.013441	.015860	.022991	-.014091	-.008362	.058542	.047102	-.019728
12	.044461	.041809	.015003	.023854	-.037717	-.032966	.087151	.070578	-.050726
13	.073331	.068623	.014653	.023251	-.045426	-.040378	.110722	.090397	-.078946
14	.096138	.090153	.010777	.017712	-.051104	-.043253	.139943	.114935	-.118049
15	.110093	.102078	.011203	.016320	-.060286	-.049594	.159569	.130364	-.148715
16	.123089	.114196	.015521	.018538	-.061274	-.049158	.174967	.140143	-.171938
17	.134958	.125069	.030501	.033407	-.058519	-.046705	.187742	.147374	-.189322
18	.150147	.137426	.044905	.047817	-.061897	-.050218	.200281	.156973	-.206706
19	.164949	.148844	.050464	.054622	-.079076	-.067350	.215016	.170533	-.226102
20	.175251	.155445	.045079	.051081	-.039594	-.077276	.227272	.182201	-.242451
21	.183225	.161171	.038218	.044798	-.103776	-.091160	.234000	.188907	-.251391
22	.182732	.160068	.035993	.040837	-.108126	-.095422	.225895	.180773	-.244295
23	.175943	.152052	.026904	.030386	-.100257	-.086139	.213455	.167911	-.230272
24	.166266	.140217	.012618	.015763	-.090949	-.074984	.197269	.152928	-.210864
25	.151002	.124519	-.004956	-.002613	-.085508	-.069158	.175349	.134086	-.187393
26	.125094	.100414	-.012777	-.013335	-.074224	-.058730	.151175	.114433	-.167554
27	.097898	.076432	-.022529	-.026132	-.065514	-.052479	.120879	.090975	-.148890
28	.078184	.059029	-.028147	-.032755	-.052799	-.041804	.092959	.070152	-.132085
29	.057350	.040214	-.024146	-.030792	-.044509	-.037316	.067577	.050805	-.112441
30	.034176	.018540	-.024139	-.033525	-.038334	-.035862	.035971	.024266	-.078207
31	.012456	-.002026	-.028123	-.039995	-.029510	-.029938	.002055	-.004463	-.038147
32	-.004214	-.016626	-.035284	-.049471	-.009891	-.011886	-.021926	-.025145	-.007141
33	-.015488	-.026030	-.040590	-.056955	.013402	.010015	-.028636	-.029343	.000527
34	-.019226	-.027302	-.041771	-.058006	.028611	.023857	-.028982	-.027269	-.003538
35	-.021769	-.025496	-.036056	-.050156	.032308	.026359	-.036995	-.032443	-.001382
36	-.025382	-.023209	-.033934	-.047060	.028597	.021923	-.043587	-.035298	-.000750
37	-.035268	-.028833	-.030675	-.044347	.031105	.023182	-.050418	-.037391	.002139
38	-.039893	-.031377	-.021537	-.036580	.038617	.029992	-.054923	-.037652	.006871
39	-.044639	-.035654	-.014937	-.029895	.044732	.035670	-.059577	-.038674	.008601
40	-.050206	-.040039	-.016050	-.030648	.042302	.034096	-.066994	-.043780	.008897
41	-.052492	-.039562	-.020502	-.032409	.035689	.028830	-.059417	-.035532	-.004324
42	-.050759	-.035987	-.020107	-.028384	.029522	.023163	-.044444	-.020519	-.024725
43	-.040982	-.025607	-.022731	-.028805	.026337	.019872	-.034938	-.010198	-.035482
44	-.032809	-.017008	-.030401	-.035662	.024838	.016857	-.032523	-.008716	-.035060
45	-.026333	-.011358	-.038161	-.041807	.031107	.022390	-.022777	-.000616	-.045261
46	-.016796	-.003983	-.051113	-.052903	.032070	.023986	-.005027	.012451	-.060910
47	-.005152	.005849	-.055455	-.055212	.024456	.017755	.008539	.021510	-.069125
48	.004998	.013083	-.045236	-.042359	.012726	.009254	.013533	.021738	-.065123
49	.015903	.022097	-.033999	-.029520	-.002921	-.003437	.015591	.019474	-.053222
50	.030939	.035183	-.021283	-.016283	-.019031	-.016037	.027559	.027695	-.052213
51	.039572	.042161	-.013623	-.007841	-.023076	-.018868	.036879	.036382	-.057171
52	.040551	.042156	-.005950	.001568	-.019704	-.016426	.030975	.031863	-.052393
53	.039859	.039781	-.000117	.010104	-.021125	-.019297	.020146	.021740	-.046620
54	.031932	.029580	.001450	.013816	-.018068	-.015494	.021047	.018832	-.038146
55	.021747	.017394	-.006099	.007833	-.009229	-.005631	.026306	.018446	-.027382
56	.015853	.010339	-.023530	-.008790	-.002230	.000982	.019642	.010524	-.009356
57	.013294	.008344	-.027808	-.014962	.014966	.017366	.003691	-.003493	.009488
58	.004445	.002269	-.018444	-.006791	.022650	.021655	-.006339	-.010016	.019170
59	-.005909	-.006465	-.011186	-.001063	.021156	.016477	-.007526	-.010600	.019455
60	-.021400	-.020782	.003571	.014526	.024768	.017364	-.014416	-.016038	.024184

RUN NO. 768 16M 10-24-62 1606-1702 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.26389 10E 00	0.17916 10E 00	0.55021 10E-01	0.14971 10E 00	0.45978 10E-01	0.31215 10E-01
1	-.005356	-.021765	.016443	-.017332	.007140	-.026072
2	-.002068	-.022819	.029205	-.027323	.013995	-.046516
3	-.000689	-.021751	.041593	-.041050	.023039	-.056127
4	.010099	-.022146	.046962	-.051037	.033052	-.064131
5	.022058	-.017692	.046133	-.043748	.036781	-.069169
6	.028051	-.015061	.045613	-.032025	.042623	-.058897
7	.030185	-.016066	.042015	-.022923	.052645	-.043352
8	.029207	-.008550	.038172	-.021650	.056873	-.027901
9	.022384	-.004700	.037223	-.018695	.054885	-.019233
10	.018250	-.003495	.034273	-.010682	.052569	-.014297
11	.017787	-.001574	.029479	-.007494	.051144	-.014596
12	.023005	.002246	.027707	-.006038	.041485	-.019937
13	.026742	.008396	.026777	.001762	.034393	-.017602
14	.032060	.019447	.021512	.010001	.020501	-.014985
15	.035716	-.001422	.014790	.017225	.010276	-.009353
16	.038454	.000997	.003143	.017590	.001610	-.001870
17	.028275	.008983	-.008807	.011748	.001211	.002089
18	.019073	.015430	-.019700	.003886	-.005065	.000897
19	.020148	.015271	-.029293	.005462	-.013120	-.003700
20	.025395	.006511	-.032033	.011672	-.019757	-.012089
21	.032473	-.008872	-.028345	.024367	-.025166	-.012555
22	.038137	-.028967	-.026352	.028914	-.030901	-.003193
23	.042125	-.029735	-.030835	.018590	-.029921	-.000552
24	.042395	-.026686	-.035299	.011759	-.026503	.008381
25	.040093	-.029132	-.036100	-.000061	-.025494	.006301
26	.034597	-.023719	-.033678	-.012369	-.031891	.006202
27	.026294	-.014222	-.029636	-.018886	-.035102	.008771
28	.016500	-.008377	-.023286	-.011822	-.031358	.001949
29	.006073	-.008259	-.016805	-.009101	-.026725	-.011523
30	-.000053	.000322	-.003726	-.004458	-.021802	-.018241
31	-.000924	.006409	.005893	-.001435	-.021405	-.017135
32	-.007435	.009473	.005612	-.000269	-.012678	-.012351
33	-.014450	.011057	.003511	.004662	-.004338	-.004283
34	-.018677	.015363	.003576	.002784	-.003001	.002249
35	-.019472	.018314	.003071	-.007688	-.007088	.015866
36	-.019745	.020543	-.001182	-.021956	-.010506	.028550
37	-.022849	.023365	-.006035	-.036230	-.003026	.035192
38	-.023313	.019258	-.005347	-.037494	.005693	.036076
39	-.027787	.015797	-.004595	-.033559	.012140	.030198
40	-.030852	.013540	.003836	-.033463	.016665	.017209
41	-.033546	.014474	.011667	-.041467	.021977	.012392
42	-.033650	.024085	.014742	-.044551	.024215	.010425
43	-.037320	.021397	.019085	-.034900	.024536	.007765
44	-.038772	.008157	.024762	-.026276	.028074	.002286
45	-.048607	.007373	.026291	-.030824	.035088	-.003991
46	-.054570	.011250	.023944	-.031761	.041828	-.008632
47	-.053428	.010182	.021477	-.030820	.047532	-.009933
48	-.053084	.007155	.019264	-.028549	.046934	-.011518
49	-.056977	.000762	.018519	-.026350	.045668	-.014845
50	-.058121	-.012064	.017468	-.024543	.037566	-.014022
51	-.055333	-.021012	.013585	-.006077	.021465	-.009277
52	-.046221	-.030167	.011151	.019401	.012972	-.004701
53	-.031981	-.027654	.006591	.045863	.006821	-.000009
54	-.012748	-.024271	.002469	.060667	.005531	.001198
55	.003799	-.026347	-.000641	.069264	.001242	-.005719
56	.017388	-.030692	-.010473	.067369	-.005293	-.004425
57	.018151	-.031474	-.021360	.054502	-.010960	.002036
58	.015125	-.031762	-.029127	.048279	-.021567	.006390
59	.014251	-.024107	-.033448	.037106	-.029011	.015411
60	.015360	-.009990	-.032785	.025128	-.034948	.021077

RUN NO. 768 16M 10-24-62 1606-1702 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)
	0.20213 10E 00	0.25813 10E-01	0.16891 10E 00	0.21571 10E-01	0.11467 10E 00	0.14644 10E-01	0.35217 10E-01	0.44975 10E-02	0.16522 10E-01
1	-.003941	.001206	.000922	.003499	.004058	-.004358	.049637	.063360	-.018443
2	-.007030	.001972	.002807	.008473	.024263	.014340	.054043	.068798	-.019905
3	-.013070	-.001237	-.004722	.002320	.035216	.024756	.048083	.062159	-.017938
4	-.015598	-.002844	-.014701	-.006554	.042633	.031286	.045156	.057543	-.016604
5	-.018402	-.006803	-.018635	-.010172	.049385	.037640	.042036	.053604	-.015536
6	-.018844	-.007450	-.026290	-.017757	.036444	.024476	.037464	.048038	-.014122
7	-.014058	-.002435	-.035472	-.025880	.021210	.010770	.031429	.040468	-.011876
8	-.011563	-.000679	-.040177	-.030354	.010405	.002905	.029855	.038396	-.011058
9	-.009523	.001799	-.032454	-.021132	.005423	-.000196	.027986	.035992	-.010387
10	-.005878	.005283	-.024145	-.011537	.000979	-.004202	.024958	.032197	-.009336
11	-.002113	.008124	-.020916	-.007774	.005380	.001504	.021383	.027421	-.007829
12	-.000350	.009639	-.015264	-.004051	.011850	.007860	.018948	.024232	-.006967
13	.000862	.010834	-.009536	.000421	.009207	.005150	.021673	.027595	-.007897
14	.005611	.015099	.000190	.007862	.004194	-.000561	.023153	.029584	-.008650
15	.014481	.024122	.007061	.013070	-.002233	-.006749	.019367	.024819	-.007339
16	.027560	.036547	.009760	.013158	-.009682	-.013368	.013369	.016985	-.004972
17	.037442	.044715	.004552	.005857	-.008774	-.010692	.006533	.008151	-.002285
18	.043162	.048230	.011510	.012452	-.002523	-.003067	.000894	.001125	-.000349
19	.053028	.057369	.016284	.015678	-.005010	-.007704	-.002239	-.002809	.000727
20	.054346	.058001	.023755	.022696	-.000098	-.004640	-.001306	-.001641	.000494
21	.049215	.052796	.036829	.037451	-.002845	-.008219	.000851	.001112	-.000242
22	.045002	.048019	.049656	.052000	-.013211	-.017570	.001273	.001362	-.000172
23	.047124	.049089	.051602	.054865	-.017008	-.021524	.000131	-.000049	.000191
24	.046739	.046901	.049877	.053604	-.023864	-.027248	-.002593	-.003474	.001085
25	.044214	.043428	.046246	.049372	-.021332	-.024843	-.002809	-.003658	.001114
26	.038510	.037191	.050113	.051961	-.016766	-.019366	-.002418	-.002875	.000562
27	.033348	.031952	.048732	.049197	-.016619	-.018437	-.002443	-.002823	.000548
28	.021652	.019264	.039825	.039422	-.005150	-.006104	-.002763	-.003193	.000619
29	.010378	.007442	.032861	.032202	.015695	.015561	-.002641	-.003268	.000770
30	-.001421	-.002903	.028304	.028081	.028935	.030107	-.001463	-.001972	.000444
31	-.008408	-.008535	.029882	.030458	.030158	.032463	.000914	.000827	-.000261
32	-.008660	-.008905	.020425	.021688	.024736	.027384	.004706	.005719	-.001581
33	-.010333	-.011606	.010690	.012195	.014593	.017013	.007357	.009316	-.002718
34	-.015943	-.018607	.004595	.004760	.005506	.009005	.005707	.007273	-.002156
35	-.018992	-.022823	.006762	.005936	-.005772	-.001800	.002771	.003646	-.001308
36	-.015756	-.020370	.006769	.004929	-.010020	-.008951	.003399	.004524	-.001480
37	-.010668	-.015871	-.002677	-.004294	-.018922	-.011246	.007997	.010591	-.003240
38	-.012675	-.018175	-.010803	-.011752	-.022228	-.015126	.014233	.018673	-.005583
39	-.013865	-.019465	-.020038	-.021348	-.019024	-.013553	.018230	.023822	-.007083
40	-.016943	-.020159	-.029022	-.031056	-.009331	-.005562	.019521	.025225	-.007313
41	-.016653	-.016768	-.037898	-.040454	-.007259	-.004538	.019264	.024861	-.007233
42	-.014472	-.012521	-.041295	-.044042	-.007230	-.005427	.015340	.019839	-.005905
43	-.015817	-.012671	-.042267	-.045097	-.008244	-.007815	.011461	.014944	-.004742
44	-.020083	-.016084	-.047483	-.050408	-.003760	-.004074	.012031	.015722	-.004876
45	-.021713	-.017800	-.058319	-.061534	.005777	.006098	.014099	.018126	-.005287
46	-.021230	-.018252	-.065822	-.068493	.017217	.018956	.010497	.013395	-.003897
47	-.017641	-.014750	-.072420	-.074776	.024123	.027268	.003608	.004532	-.001203
48	-.014483	-.011644	-.071506	-.073852	.026925	.030308	-.004285	-.005591	.001740
49	-.012101	-.008881	-.071029	-.073792	.026542	.028426	-.011377	-.014601	.004241
50	-.010429	-.007194	-.060832	-.064020	.014158	.012833	-.013995	-.017797	.004886
51	-.007378	-.004710	-.042852	-.046871	.003014	.000673	-.013898	-.017683	.004865
52	-.008542	-.007207	-.034598	-.039187	-.000362	-.001947	-.013297	-.016988	.004854
53	-.007674	-.007562	-.024328	-.028247	-.004760	-.005939	-.012593	-.015990	.004692
54	-.004395	-.004895	-.020767	-.024322	-.003158	-.003464	-.015993	-.020455	.006109
55	.001122	.001070	-.017869	-.022388	.004886	.004421	-.023838	-.030688	.009063
56	.012877	.012300	-.016270	-.022566	.002760	.002126	-.030009	-.038695	.011268
57	.017698	.014401	-.012680	-.019981	.001978	.003681	-.034399	-.044316	.013033
58	.018159	.012196	-.005358	-.014875	.004959	.008689	-.031949	-.041111	.012142
59	.021314	.014515	.002381	-.007868	.005715	.012912	-.030059	-.038401	.011161
60	.026622	.021485	.012721	.003267	.005480	.014876	-.026102	-.033261	.009684

RUN NO. 768 16M 10-24-62 1606-1702 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(M)
	0.31579 10E 00	0.22052 10E 00	0.10164 10E 00	0.95864 10E-02	0.12938 10E 00	0.21100 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.846072	.778655	.691381	.827461	.814564	.810902
2	.660790	.530107	.375489	.599783	.592053	.596979
3	.513475	.364688	.180305	.432867	.435650	.448059
4	.393756	.251718	.046948	.315947	.326873	.345863
5	.298783	.155933	-.019005	.219175	.247013	.275614
6	.220966	.075253	-.039714	.132859	.178553	.219005
7	.157082	.013490	-.055048	.067404	.128503	.175228
8	.097948	-.030811	-.060583	.027554	.089984	.131556
9	.042502	-.053134	-.063039	-.003505	.053168	.086815
10	-.015250	-.067254	-.077873	-.038784	.010048	.037106
11	-.068621	-.083530	-.095892	-.075599	-.032133	-.008110
12	-.113487	-.096387	-.114181	-.111289	-.064631	-.039052
13	-.146612	-.106108	-.127806	-.139128	-.093623	-.067636
14	-.166873	-.117106	-.133530	-.173777	-.132706	-.108509
15	-.184268	-.113499	-.125567	-.199248	-.162544	-.141797
16	-.204360	-.116002	-.115704	-.225605	-.185312	-.167686
17	-.225149	-.116267	-.099941	-.249679	-.202749	-.187086
18	-.238710	-.104903	-.097596	-.267639	-.219798	-.205963
19	-.252796	-.088562	-.112360	-.282466	-.239026	-.226008
20	-.260543	-.078850	-.112177	-.293852	-.255290	-.242632
21	-.270745	-.090138	-.106759	-.299308	-.263992	-.251926
22	-.281535	-.110113	-.107089	-.293177	-.256135	-.245802
23	-.298427	-.131471	-.096038	-.284321	-.241744	-.232440
24	-.305918	-.142737	-.088307	-.268713	-.221808	-.213292
25	-.301261	-.148085	-.095779	-.244041	-.197136	-.190199
26	-.292981	-.164552	-.095554	-.213667	-.174653	-.172048
27	-.277074	-.180356	-.091318	-.172442	-.151216	-.156984
28	-.242773	-.180281	-.073099	-.132322	-.129065	-.143393
29	-.208276	-.150397	-.057234	-.096298	-.107352	-.125194
30	-.168745		-.059583	.058587	-.071559	-.091069
31	-.114976	-.058141	-.036258	-.019103	-.030420	-.050454
32	-.072575	-.019630	-.000829	.008222	.000698	-.018386
33	-.032217	-.007952	.034358	.019976	.008665	-.010181
34	-.007700	-.010281	.068131	.026346	.005715	-.014748
35	.009686	-.012286	.076141	.039774	.009781	-.013966
36	.019127	-.007242	.075812	.055374	.012193	-.014320
37	.028149	-.012340	.063820	.073211	.016529	-.011538
38	.038662	-.023180	.043381	.088052	.021348	-.005280
39	.049401	-.022095	.029967	.101384	.024096	-.003529
40	.061190	-.020867	.025988	.113923	.026239	-.004745
41	.065413	-.023883	.028661	.110239	.013583	-.018434
42	.072719	-.030855	.029843	.098603	-.006617	-.039043
43	.079381	-.043628	.037385	.093070	-.017659	-.049090
44	.075647	-.037053	.054555	.088787	-.018079	-.047941
45	.070055	-.024060	.072699	.077395	-.028849	-.058083
46	.064350	-.022084	.077273	.051291	-.046188	-.073294
47	.056805	-.028867	.066112	.029153	-.056719	-.080192
48	.037342	-.028809	.027783	.012579	-.055054	-.074973
49	.019414	-.023161	-.029771	-.000480	-.046291	-.060694
50	.005309	-.029076	-.075306	-.019224	-.048976	-.056392
51	-.009062	-.032441	-.092213	-.028675	-.055376	-.059720
52	-.009861	-.038164	-.098820	-.020503	-.049896	-.055335
53	.000195	-.045359	-.090974	-.010478	-.042303	-.051589
54	.009859	-.042662	-.075297	-.021375	-.035917	-.041883
55	.016769	-.022316	-.050948	-.040804	-.029009	-.028248
56	.026341	-.009043	-.021743	-.039423	-.012954	-.068157
57	.030609	.001393	.008557	-.022129	.006215	.011053
58	.030161	.012472	.025954	-.005200	.016675	.021054
59	.042327	.015128	.040623	-.003850	.017510	.020919
60	.057314	.009209	.025705	.005513	.023236	.024889



RUN NO. 768 16M 10-24-62 1606-1702 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	-.053151	-.032966	.018899	.006931	-.001563	-.002850
1	-.237797	-.516047	.304049	-.153229	.120559	-.075995
2	.012815	-.851917	.497360	-.138653	.242345	-.153409
3	.257803	-.916118	.572756	.082130	.155005	-.203405
4	.099045	-.447428	.298311	.076583	.112551	-.123158
5	-.216645	-.318746	.096901	-.107714	.109739	-.058936
6	-.333765	-.427134	.089113	-.064214	-.121647	-.070841
7-8	-.126567	-.316532	.097772	-.140627	.074927	-.073392
9-11	.008054	-.167667	.047303	-.023810	.202582	-.044830
12-15	-.025176	-.161377	.035462	-.011730	.001558	-.030377
16-20	-.027487	-.045393	.005359	-.019746	.031127	-.015792
21-27	-.028781	-.019778	.005601	-.024313	.056629	-.010008
28-36	-.018385	-.007715	.000025	-.002093	.012390	-.003891
37-47	-.016225	-.010965	-.001268	.003750	.010648	-.002897
48-60	.000861	-.004243	.000668	.000004	.005444	-.001407

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	.408797	-.038352	-.051659	-.069119	.080261	-.220753
2	.457478	-.069970	.234380	.015215	.320999	-.319027
3	.135301	-.014368	.850247	-.078462	.902559	-.351145
4	-.063242	.018115	.961375	-.169029	.805285	-.297782
5	.026195	-.103183	.561454	-.131009	.331719	-.358562
6	.072979	-.151731	.172964	-.126333	.106068	-.299996
7-8	-.005162	-.042047	.060546	-.055276	-.052477	-.213370
9-11	-.003432	-.031323	.136609	-.049655	-.067194	-.132269
12-15	-.073772	-.009400	.032479	-.022984	.006710	-.047296
16-20	-.002237	-.021917	.017179	.012679	-.005056	.017913
21-27	-.000619	-.012922	-.013741	.008779	-.004617	-.013379
28-36	.000643	-.006976	.001556	-.006905	.002019	-.007957
37-47	-.007692	-.005644	.008570	-.004185	.003356	.007412
48-60	-.004385	-.002171	.001429	.000895	.001153	-.001370

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-02	10E-01	10E-03
0	.028600	.025025	.025609	.005201	.018811	.040781
1	.365013	.213067	.356578	.075555	.151500	.293579
2	.532137	.242658	.651685	.130504	.182932	.316757
3	.581999	.254184	.951649	.168597	.206121	.329001
4	.340955	.194974	.781711	.111171	.142008	.222127
5	.179352	.152413	.591150	.053501	.067827	.104837
6	.175348	.157524	.609890	.044836	.051209	.076129
7-8	.138602	.121891	.530749	.046450	.054394	.079439
9-11	.072693	.072435	.424878	.031267	.039082	.058834
12-15	.055774	.045942	.347910	.019439	.027455	.043435
16-20	.032147	.030738	.203381	.011136	.016438	.028605
21-27	.020010	.023063	.134729	.008568	.011088	.017059
28-36	.012746	.014372	.089007	.004457	.006597	.011004
37-47	.008783	.008844	.068947	.002588	.004241	.007415
48-60	.005813	.006060	.039773	.001572	.002702	.004990

RUN NO. 76B 16M 10-24-62 1606-1702 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-02	10E-03	10E-02	10E-03	10E-02
0	-.011684	-.015787	.032816	.053149	.025908	.037247	-.019418	-.022698	.027367
1	-.115106	-.135334	.243270	.418101	.309698	.373634	-.235715	-.253912	.206631
2	-.168433	-.189043	.058951	.137073	.519819	.582453	-.371886	-.381108	.234344
3	-.204474	-.234694	-.164721	-.245913	.660694	.724719	-.479300	-.490479	.253522
4	-.126405	-.154568	-.135161	-.204864	.412900	.459127	-.335330	-.354823	.173723
5	-.046319	-.058702	.022021	.054278	.209683	.239720	-.162764	-.172987	.082548
6	-.032740	-.037811	.106612	.154176	.238220	.266159	-.130765	-.135769	.060988
7-8	-.039320	-.047187	-.009879	-.002208	.251621	.283436	-.140724	-.149226	.064453
9-11	-.023339	-.029856	-.003366	.028690	.171078	.199958	-.096094	-.102338	.047002
12-15	-.016470	-.020762	.019971	.031292	.130732	.161228	-.062908	-.069008	.033921
16-20	-.002990	-.003977	-.005155	-.003072	.052474	.057823	-.032840	-.034187	.021137
21-27	-.002683	-.003411	-.007077	-.001438	.036346	.041771	-.026692	-.028693	.013479
28-36	-.000938	-.001574	.002665	.006597	.017755	.022175	-.014084	-.015304	.008344
37-47	-.000210	-.000569	-.000007	.001720	.009797	.011194	-.008242	-.008974	.005488
48-60	-.000324	-.000454	-.000338	.000489	.004925	.005901	-.004714	-.005087	.003583

QUANTUM 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-02	10E-03	10E-02	10E-03	10E-03	10E-04	10E-04
1	.287344	.464609	.163357	.278995	.010192	-.022473	.362448	.593126	-.638205
2	.191548	.354246	.056948	.147664	.029132	-.008177	.292781	.477442	-.506016
3	-.089812	-.000629	-.249133	-.250080	.065285	.045433	.379175	.619756	-.657332
4	-.282746	-.296303	-.242105	-.254543	.090698	.096135	.398566	.652559	-.697101
5	-.173933	-.187584	-.051134	-.025131	.101014	.103104	.247751	.404632	-.432982
6	-.005991	.020246	.000559	.018599	.051374	.032931	.194023	.316796	-.337591
7-8	.024125	.050095	.009164	.004975	.047025	.040735	.159330	.258235	-.273496
9-11	-.018464	-.006907	.036803	.048280	.032128	.029712	.160633	.260145	-.279258
12-15	.005425	.015108	.017691	.029305	.010337	.009775	.090458	.143444	-.152958
16-20	.002275	.007721	.005237	.007300	-.019172	-.028078	.085284	.139203	-.148282
21-27	.002693	.002156	.003312	.004356	-.003980	-.009154	.048369	.079215	-.086834
28-36	-.002300	-.003745	-.002022	-.003101	-.000611	-.002308	.039552	.064463	-.068090
37-47	-.000388	.000984	-.003818	-.005728	-.008136	-.012213	.018909	.031217	-.034611
48-60	-.001187	-.001504	-.000329	-.000459	.000455	.000356	.004785	.007640	-.007908

RUN NO. 768 16M 10-24-62 1606-1702 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
	0.31204 10E 00	0.12731 10E 00	0.49832 10E-01	0.10031 10E 00	0.39263 10E-01	0.16019 10E-01
0	-.121971	-.455100	.426055	.004424	.155658	-.395957
1	-.091115	-.218468	.191871	.032928	.156507	-.064698
2	-.110592	-.153360	-.020937	.049882	.116897	.070774
3	-.040897	-.031211	-.056798	.073341	.117551	.057702
4	-.011366	-.134294	.031407	.075751	.072288	-.067714
5	.012773	-.059332	-.043415	-.035460	.078957	.023250
6	.004310	-.008167	-.038972	-.039266	.004787	-.003183
7	-.002165	.041603	-.017221	-.010769	-.107299	.073601
8	-.025745	.079117	-.045841	-.005106	-.146702	.020942
9	-.010072	.146351	-.105981	-.024934	-.139220	.034315
10	.063722	.115590	-.048518	.014872	-.123736	-.031088
11	.108424	.094111	.001153	-.057635	-.111544	-.002151
12	.108691	.109943	-.041211	-.017743	-.047315	-.023956
13	.085609	.117266	-.055478	-.008181	-.083465	-.009850
14	.045417	.108501	-.007322	-.049440	-.091987	.043186
15	-.012228	.094589	.026622	-.020172	-.130905	.004448
16	.047919	.074509	.040138	-.053519	-.073477	-.007433
17	.006362	.031428	.083356	.015437	-.021442	.010644
18	-.008263	.010785	.082866	-.011589	-.040706	.006565
19	-.023349	-.021149	.037248	.053163	-.062651	-.020639
20	-.022411	-.021134	.007576	.05707	.025942	.061413
21	.010378	-.095497	-.007922	.0427	.097281	-.020722
22	-.001157	-.080369	-.005403	.017563	.087916	-.019490
23	.012228	-.082755	.016996	.015441	.126090	-.014765
24	-.073565	-.065267	.025376	.062582	.110643	.087871
25	-.115001	-.028196	-.014677	.081656	.061557	.063199
26	-.132589	.008637	-.094117	-.006409	.032635	.044904
27	-.081742	-.028341	-.130638	-.041589	.091895	.005997
28	-.069522	-.019784	-.096233	-.076954	.073419	.006004
29	-.089583	-.037477	-.076031	.024012	.058750	-.071482
30	-.067803	.043141	-.108493	.000146	.073102	-.041907

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03
0	-.007598	-.089889	.023834	.019993	-.010661	-.040646
1	-.068587	-.704735	.086204	.110465	.098501	-.238071
2	-.104475	-.944292	.109610	.164194	.235350	-.194213
3	-.095764	-.937579	.210887	.167363	.239921	-.243634
4	-.029072	-.411205	.190444	.049353	.103775	-.301307
5	.002475	-.189972	.103447	.028895	.048658	-.310735
6	-.018059	-.155670	.102565	.032121	-.014256	-.284338
7	-.057893	-.084102	.134569	-.024139	-.068366	-.174868
8	-.046323	-.126609	.115786	-.094801	-.045965	-.145608
9-11	.015100	-.263081	.134214	-.114822	.026582	-.341234
12-14	.000709	-.198739	.094667	-.023668	.013899	-.444317
15-21	.003543	-.079705	.074325	.023452	-.002497	-.300027
22-30	-.011120	-.182024	.025234	-.025155	-.007401	-.206544

RUN NO. 768 16M 10-24-62 1606-1702 EST  
 301 PCINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED COSPECTRUM COVARIANCE

M	U <sub>r</sub> N	U <sub>r</sub> RHO(W)	V <sub>r</sub> N	V <sub>r</sub> RHO(W)	W <sub>r</sub> N	W <sub>r</sub> RHO(W)	T <sub>r</sub> N	T <sub>r</sub> RHO(W)	N <sub>r</sub> RHO(W)
	0.28294 10E 00	0.42535 10E-01	0.22293 10E 00	0.33513 10E-01	0.90954 10E-01	0.13673 10E-01	0.35601 10E-01	0.53520 10E-02	0.30388 10E-01
0	-.440124	-.391417	.074700	.112850	.329658	.277399	-.503884	-.344552	.984461
1	-.271037	-.255805	.054920	.091164	.136135	.135025	-.173492	-.116569	.750952
2	-.123137	-.138021	.042730	.070231	.038869	.056902	.031644	.030258	.518987
3	-.078303	-.096842	-.014436	.007741	.001635	.013254	.061372	.057696	.363092
4	-.064101	-.063576	-.024883	-.012745	.037678	.027432	.031416	.050151	.213675
5	.018174	.010519	-.038427	-.025506	-.023889	-.021119	.105099	.096710	.056208
6	.039241	.034427	-.004126	-.003483	-.043095	-.047501	.094107	.079161	-.037281
7	.063265	.065246	.021506	.001871	-.076446	-.068620	.060957	.051841	-.128423
8	.109542	.109864	.020416	-.007452	-.036091	-.034971	.055827	.039345	-.227049
9	.144412	.134543	-.006263	-.035424	-.056048	-.053716	.081473	.046360	-.314212
10	.130053	.131042	-.043466	-.072259	-.037117	-.046263	.065976	.034042	-.391469
11	.126251	.137640	-.075068	-.104238	-.052669	-.057729	-.005611	-.012322	-.430863
12	.135523	.139206	-.085182	-.102624	-.049565	-.058881	.031131	.006222	-.436817
13	.141953	.143568	-.059416	-.081202	-.088685	-.099020	.085302	.049734	-.436058
14	.127797	.137807	-.024807	-.045548	-.103846	-.104342	.062217	.038653	-.395732
15	.082436	.095404	.035877	.012212	-.052455	-.055897	.011051	.009462	-.313860
16	.041342	.053757	.041266	.030221	-.039735	-.045175	-.001004	-.008666	-.214155
17	-.004458	.012731	.022467	.020470	.010558	.013768	-.078347	-.072648	-.101663
18	.008237	.025948	.031257	.025851	.022815	.025615	-.110823	-.093026	-.016457
19	.001855	.009436	.052126	.044416	.017682	.015072	-.069451	-.057228	.052013
20	-.014068	-.013405	.022676	.030406	-.032990	-.023530	-.023897	-.029348	.122707
21	-.033394	-.037546	-.001239	.018547	.056181	.057305	-.037196	-.033731	.184926
22	-.061949	-.068264	.013910	.032509	.072301	.075093	-.085547	-.065871	.244126
23	-.113352	-.119626	-.032608	-.009932	.095163	.100838	-.066264	-.056214	.249129
24	-.111065	-.115577	-.033371	-.014273	.029237	.049393	-.014405	-.004393	.181014
25	-.076259	-.086310	-.012956	-.001647	.028033	.043334	-.034230	-.010605	.160125
26	-.036673	-.059018	-.025675	-.021707	.022646	.033140	-.033560	-.013061	.135961
27	-.003853	-.030484	-.042505	-.027672	.026560	.030164	.011419	.010764	.081688
28	-.013466	-.033719	-.023098	-.009935	.027524	.030541	.065384	.054495	.017136
29	-.018213	-.035174	-.024141	-.014369	.075022	.066886	.018758	.023665	-.006142
30	.007408	-.013829	-.020116	-.007563	.080725	.079442	.014242	.009403	-.055240

COSPECTRUM

K	U <sub>r</sub> N	U <sub>r</sub> RHO(W)	V <sub>r</sub> N	V <sub>r</sub> RHO(W)	W <sub>r</sub> N	W <sub>r</sub> RHO(W)	T <sub>r</sub> N	T <sub>r</sub> RHO(W)	N <sub>r</sub> RHO(W)
	10E-01	10E-02	10E-02	10E-02	10E-02	10E-03	10E-02	10E-03	10E-02
0	.000350	.004674	-.025592	-.006059	-.008022	-.020308	.008357	.015063	.031438
1	-.108487	-.162982	.033112	.022211	.139075	.186103	.019697	.067402	.459456
2	-.209323	-.323508	.234529	.078878	.332793	.510736	-.074742	-.040518	.713806
3	-.231245	-.341049	.422944	.110649	.380458	.579633	-.169233	-.163508	.710150
4	-.124538	-.169853	.176024	.046665	.207037	.285510	-.141520	-.154356	.291121
5	-.066730	-.090846	-.119171	-.011291	.172718	.228499	-.113717	-.137299	.119817
6	-.054170	-.070842	.114032	.016134	.201910	.281207	-.138377	-.173119	.136411
7	-.056646	-.069290	.430928	.058673	.165667	.240418	-.133590	-.158906	.121993
8	-.046971	-.056414	.412825	.059614	.086098	.115082	-.085245	-.094241	.096132
9-11	-.044442	-.049139	.013017	.006909	.106246	.113779	-.094389	-.099688	.060050
12-14	-.030091	-.033044	-.038154	-.003861	.136544	.146557	-.069134	-.068158	.035923
15-21	-.030317	-.036563	-.009005	-.002045	.086242	.088001	-.072522	-.074630	.036052
22-30	-.010904	-.013168	.035068	.004691	.071335	.080293	-.038389	-.038631	.017768

RUN NO. 76B 16M 10-24-62 1606-1702 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
	0.31204 10E 00	0.12731 10E 00	0.49832 10E-01	0.10031 10E 00	0.39263 10E-01	0.16011 10E-01
1	.102291	-.001146	.081895	-.037056	.041249	-.106517
2	.179777	.000351	.068975	.027929	-.002313	-.076889
3	.203679	.000079	.103779	.022004	.003591	-.106025
4	.219322	.060955	.140705	.021938	.023330	-.071741
5	.235323	-.002780	.168862	.105195	.037555	-.136350
6	.307173	-.004470	.154690	.159613	-.016452	-.090238
7	.299413	.015466	.175541	.139842	-.028297	-.108779
8	.249408	-.018999	.168406	.111875	-.009673	-.093451
9	.231075	-.062404	.134323	.095739	-.040789	-.091177
10	.145709	-.017696	.095414	.042956	-.068871	-.028579
11	.037717	.021465	.044822	.037824	-.032338	-.040379
12	-.064512	-.042106	.005979	-.071614	.014807	-.020325
13	-.170319	-.092303	-.066735	-.069832	.030944	.098593
14	-.202900	-.078864	-.133060	-.049379	.004242	.106195
15	-.185433	-.051399	-.096715	-.047922	.009408	.075542
16	-.158701	-.061637	-.077645	-.097128	.031990	.067113
17	-.163420	-.047818	-.118634	-.095691	.034422	.083341
18	-.161317	-.014948	-.087110	-.085771	.011717	.073082
19	-.220525	.044179	-.063798	-.133037	.061027	.041947
20	-.176977	.048637	-.078161	-.087824	.047213	.049987
21	-.069963	.045277	-.091094	-.014694	-.038873	.070760
22	-.029610	-.005857	-.010036	.009677	-.026325	.015217
23	-.028659	.000134	.020910	-.032323	.046234	-.040482
24	.002695	.019190	.023871	-.009710	.005658	-.014428
25	.013475	.011945	.007830	.024361	-.045586	-.026399
26	-.024812	.071548	-.000118	.008715	-.043180	-.073420
27	.019984	.012935	.071476	.044225	-.018310	-.081118
28	.050846	.012210	.072516	.027901	.002282	-.012756
29	.068370	-.057079	.057669	.126319	-.021092	-.011279
30	.068766	-.015661	.089393	.097258	-.000601	-.062141

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	.142181	-.263035	.185698	.121378	-.028273	-.291128
2	.347050	-.065480	.335880	.421434	-.244717	-.708852
3	.385112	.177982	.348515	.444406	-.096879	-.842788
4	.132855	.141758	.103693	.051816	.445434	-.318578
5	-.031801	-.032306	-.041948	-.166029	.501915	-.001594
6	-.039927	.005908	-.034709	-.189146	.202581	-.030931
7	.003747	.081590	.010037	-.174288	-.033419	-.144816
8	.055343	-.027999	.034770	-.065159	-.188252	-.178120
9-11	.020116	-.071237	.005305	.001387	.033461	-.070493
12-14	.017720	-.002039	.011786	.051448	-.031436	-.099139
15-21	-.003604	.033671	.026262	-.079313	.209538	-.055987
22-30	-.004194	-.050223	.010827	-.006951	.113176	-.124756

RUN NO. 768 16M 10-24-62 1606-1702 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)
	0.28294 10E 00	0.42535 10E-01	0.22293 10E 00	0.33513 10E-01	0.90954 10E-01	0.13673 10E-01	0.35601 10E-01	0.53520 10E-02	0.30388 10E-01
1	-.039043	-.025674	.038772	.050436	.048781	.031211	.056125	.061118	-.011620
2	-.040948	-.030166	.111590	.120808	.042024	.030106	.047035	.051512	-.009470
3	-.097888	-.085259	.136086	.148375	.098272	.085102	.050105	.054322	-.009711
4	-.149503	-.133646	.148341	.165813	.091005	.084421	.042497	.046680	-.008468
5	-.186179	-.168291	.154320	.175856	.127367	.111267	.017208	.018489	-.002634
6	-.197559	-.183263	.212502	.227922	.105830	.096891	-.006127	-.006473	.002169
7	-.220879	-.204355	.237028	.252852	.087245	.072951	.020622	.022304	-.003505
8	-.197206	-.179667	.221386	.238998	.074388	.061774	.027553	.029923	-.005235
9	-.154912	-.141150	.197580	.206836	.075396	.063547	.047055	.051044	-.009075
10	-.118998	-.109764	.155612	.155321	.043185	.041290	.057305	.062653	-.011658
11	-.036953	-.030948	.071161	.071166	.033954	.028604	.073857	.080419	-.014959
12	.026836	.030450	-.009588	-.007218	-.008962	-.013790	.071452	.077915	-.014611
13	.067193	.059867	-.064239	-.063631	-.112410	-.102640	.044430	.048597	-.009675
14	.120070	.103989	-.082247	-.088418	-.112667	-.100786	-.006828	-.007403	.000774
15	.137883	.130454	-.099018	-.106024	-.105769	-.100278	-.015241	-.016140	.002505
16	.154710	.152293	-.152984	-.159995	-.112577	-.108713	-.031962	-.034767	.006218
17	.188248	.181129	-.196086	-.206630	-.122523	-.115874	-.040791	-.044234	.007964
18	.210032	.210459	-.183950	-.197531	-.102819	-.096653	-.017661	-.020071	.003978
19	.192961	.196620	-.224702	-.232230	-.061321	-.058516	.000056	-.000254	.000239
20	.159459	.157743	-.194223	-.201711	-.061422	-.056997	-.021023	-.023159	.004256
21	.134821	.128320	-.102682	-.119634	-.079482	-.071886	-.057397	-.062107	.011629
22	.067269	.071447	-.054218	-.064698	-.083470	-.087999	-.063436	-.068857	.012988
23	.041008	.049693	-.051641	-.047539	-.047156	-.059428	-.059160	-.063828	.011683
24	.008993	.015486	-.011541	-.011600	-.011302	-.015831	-.054467	-.058589	.010738
25	-.018102	-.017768	.007616	-.001185	.030430	.027025	-.056352	-.061448	.011440
26	-.062414	-.068081	-.000947	-.009338	.080233	.072400	-.037392	-.041194	.007703
27	-.126036	-.122514	.026416	.025698	.090423	.081553	-.015695	-.017228	.003165
28	-.142800	-.140364	.065712	.071717	.074799	.078347	-.010142	-.010456	.001855
29	-.139826	-.140465	.098626	.103055	.034821	.036401	-.002388	-.003132	.000638
30	-.171336	-.167873	.101012	.109664	.078340	.072739	.029032	.031480	-.006162

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-01	10E-02	10E-02	10E-03	10E-03	10E-03	10E-03
1	-.068994	-.079757	.093989	.153454	.016712	-.023235	.726842	.119170	-.123114
2	-.233495	-.323125	.208361	.336789	.391953	.518350	.817552	.133900	-.135930
3	-.233195	-.320583	.187886	.305638	.484732	.646786	.294490	.048200	-.043073
4	-.032635	-.035355	.022632	.044525	.151268	.192490	-.114264	-.018819	.024225
5	.043183	.063400	-.030443	-.041375	-.029995	-.049570	.093183	.015491	-.018151
6	.035752	.052622	-.014658	-.020772	-.011799	-.025486	.469267	.077229	-.084982
7	.028024	.047541	-.006897	-.012067	.061820	.075526	.637226	.104207	-.111604
8	.006481	.016769	.018420	.026618	.033259	.023192	.282280	.046188	-.050259
9-11	.003746	.007262	.011342	.019181	-.037359	-.073906	.086856	.014191	-.016148
12-14	-.000686	.000816	.000722	.000752	.026283	.026122	.000272	.000158	.000252
15-21	-.007967	-.008441	-.006219	-.006544	.006772	.001230	.116397	.019129	-.021768
22-30	-.004230	-.005210	-.004962	-.006153	.046807	.054549	.043451	.006662	-.006490

RUN NO. 768 16M 10-24-62 1606-1702 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVIANCE

M	U	V	W	T	N	RHO(W)
	0.39604 10E 00	0.24585 10E 00	0.40926 10E-01	0.62703 10E-02	0.20214 10E 00	0.45683 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.596173	.621615	-.007600	.354088	.723435	.792430
2	.330441	.440856	.017362	-.019331	.471706	.570043
3	.211427	.243755	-.025120	-.043258	.322865	.405996
4	.199921	.090596	.064486	.080335	.190759	.242315
5	.094629	-.014611	-.083410	-.084373	.032089	.080638
6	.041157	-.054231	.020733	-.113699	-.052028	-.024274
7	-.055547	-.144322	-.020519	-.072385	-.129547	-.128992
8	-.199058	-.231018	-.003241	-.103619	-.219499	-.238640
9	-.264602	-.295029	-.095059	-.205934	-.304422	-.332055
10	-.269141	-.384275	.012358	-.184950	-.372422	-.418684
11	-.264009	-.430408	-.069562	-.030283	-.395506	-.470660
12	-.265995	-.408954	-.162718	-.136981	-.407876	-.473273
13	-.251938	-.402917	-.030541	-.211917	-.417128	-.463836
14	-.228321	-.279733	-.103213	-.143341	-.375873	-.422068
15	-.133687	-.155744	-.064814	-.014228	-.290598	-.339415
16	-.093401	-.086543	-.006439	-.041880	-.196353	-.234917
17	-.016167	-.076953	-.018491	.056728	-.078321	-.125732
18	-.042484	-.009592	-.062722	.132810	.005836	-.036999
19	.024599	.030780	.025345	.088578	.060796	.045011
20	.098781	.099488	-.025910	-.016950	.117315	.127476
21	.080934	.160863	.133885	.034589	.176837	.194373
22	.070973	.214735	.089017	.133821	.240320	.252263
23	.072225	.195310	.079020	.078153	.241489	.259465
24	.092802	.180596	-.083589	.054377	.169427	.195665
25	.014298	.159826	.028391	.130350	.153716	.171912
26	-.031276	.169234	-.025586	.116322	.131126	.145359
27	-.049130	.153966	-.001739	-.006145	.072663	.091319
28	-.034992	.113905	-.056342	-.080941	.003494	.029726
29	-.062141	.081539	.111472	.017343	-.009426	-.001602
30	-.154373	.064406	-.056200	-.029506	-.053565	-.058047

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-03	10E-01	10E-02
0	.082716	.002159	.020701	.008155	.018389	.005389
1	.566391	.246881	.158361	.207324	.279157	.076217
2	.670590	.472944	.204991	.474403	.444802	.115917
3	.679268	.519104	.210007	.650824	.452706	.113170
4	.347761	.251965	.115012	.440527	.193330	.044863
5	.137084	.102546	.106709	.280413	.085361	.017205
6	.113667	.096036	.143571	.306499	.098115	.019300
7	.121139	.123810	.148942	.340241	.088904	.017168
8	.139420	.127737	.161214	.257994	.067860	.014085
9-11	.158534	.059170	.136311	.312940	.046711	.008105
12-14	.099691	.033774	.152556	.260035	.029294	.004691
15-21	.081187	.037756	.187400	.252478	.029771	.004597
22-30	.055829	.043741	.262087	.139675	.014947	.002233

RUN NO. 768 40M 10-24-62 1606-1702 EST

GROSS STATISTICS

CLEAR	WIND SPEED	5.24 M/SEC	WIND DIRECTION	294 DEG
STABLE	SIGMA A	9.8 DEG	SOLAR RADIATION	0.04
LAND	SIGMA E	4.8 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
<b>VARIANCES</b>				
U	0.80348E 00	0.61964E 00	0.36114E-00	0.43730E-00
V	0.81671E 00	0.48865E-00	0.27545E-00	0.33960E-00
W	0.17833E-00	0.17821E-00	0.16191E-00	0.76615E-01
T	0.89835E-01	0.65896E-02	0.50982E-02	0.41666E-02
N	0.35675E-00	0.11978E-00	0.60334E-01	0.91561E-01
RHO(W)	0.16084E-01	0.21526E-02	0.90260E-03	0.17329E-02
E	0.89925E 00	0.64334E 00	0.39925E-00	

GUSTINESS RATIOS

U	0.17106	0.15022	0.11468	0.12620
V	0.17247	0.13340	0.10016	0.11121
W	0.08059	0.08056	0.07679	0.05282

COVARIANCES

U,V	-0.66780E-01	-0.18618E-01	-0.14405E-01	-0.14920E-01
U,W	-0.93016E-01	-0.93836E-01	-0.59799E-01	-0.74963E-01
U,T	-0.15451E-01	0.22103E-01	0.17289E-01	0.16830E-01
V,W	-0.36935E-01	-0.30524E-01	-0.19168E-01	-0.11745E-01
V,T	0.10212E-00	0.74529E-02	0.43224E-02	0.52309E-02
W,T	-0.92021E-02	-0.13247E-01	-0.11398E-01	-0.69505E-02
U,N	-0.19686E-00	-0.13014E-00	-0.68754E-01	-0.10856E-00
U,RHO(W)	-0.34828E-01	-0.17486E-01	-0.82791E-02	-0.14881E-01
V,N	-0.51318E-02	-0.35767E-01	-0.56397E-02	-0.32119E-01
V,RHO(W)	0.16668E-01	-0.45534E-02	-0.17704E-03	-0.43319E-02
W,N	0.49929E-01	0.46450E-01	0.37430E-01	0.27279E-01
W,RHO(W)	0.65748E-02	0.53153E-02	0.41567E-02	0.32646E-02
T,N	0.69840E-01	-0.22089E-01	-0.15300E-01	-0.14885E-01
T,RHO(W)	0.26828E-01	-0.24773E-02	-0.16240E-02	-0.17165E-02
N,RHO(W)	0.70265E-01	0.15777E-01	0.72298E-02	0.12405E-01
WE	-0.16290E-01	-0.10797E-01	0.10891E-01	

NORMALIZED COVARIANCES

U,V	-0.08244	-0.03383	-0.04567	-0.03872
U,W	-0.24573	-0.28238	-0.24730	-0.40954
U,T	-0.05751	0.34590	0.40293	0.39428
V,W	-0.09678	-0.10344	-0.09077	-0.07281
V,T	0.37700	0.13134	0.11534	0.13906
W,T	-0.07270	-0.38654	-0.39672	-0.38902
U,N	-0.36769	-0.47770	-0.46578	-0.54255
U,RHO(W)	-0.30637	-0.47879	-0.45856	-0.54058
V,N	-0.00951	-0.14784	-0.04375	-0.18215
V,RHO(W)	0.14543	-0.14039	-0.01123	-0.17857
W,N	0.19796	0.31792	0.37871	0.32571
W,RHO(W)	0.12277	0.27137	0.34384	0.28332
T,N	0.39013	-0.78624	-0.87237	-0.76207
T,RHO(W)	0.70579	-0.65774	-0.75708	-0.63879
N,RHO(W)	0.92762	0.98253	0.97971	0.98484



RUN NO. 768 40M 10-24-62 1606-1702 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED COSPECTRUM COVARIANCE

M	U,V	U,W	U,T	V,W	V,T	W,T
	0.31541 10E 00	0.24179 10E 00	0.42907 10E-01	0.21118 10E 00	0.37474 10E-01	0.28727 10E-01
0	-.046012	-.247330	.402892	-.090807	.115277	-.396814
1	-.044479	-.224469	.381429	-.070306	.094119	-.329707
2	-.030669	-.179327	.330724	-.040721	.058708	-.225666
3	-.025455	-.141997	.279288	-.017460	.031992	-.142960
4	-.019119	-.118891	.233290	.007785	.014823	-.089421
5	-.018936	-.089827	.199783	.025742	.009647	-.051562
6	-.015838	-.062768	.163061	.035115	.004787	-.026903
7	-.016394	-.039770	.131587	.040276	-.000828	-.013586
8	-.020157	-.018755	.093562	.050069	-.007495	-.001231
9	-.028726	-.005920	.054880	.050624	-.011579	.007730
10	-.027854	.007073	.015057	.033882	-.013122	.009386
11	-.030235	.026520	-.018440	.016368	-.017953	.014944
12	-.020276	.046016	-.045456	.009675	-.028443	.026556
13	-.002909	.052955	-.074166	-.002493	-.030330	.029476
14	.005855	.067090	-.101375	-.011445	-.029128	.031094
15	.008734	.065744	-.116669	-.012813	-.022788	.038867
16	.014384	.069645	-.141979	-.016510	-.012134	.047324
17	.016747	.073207	-.164154	-.017482	.001268	.055490
18	.018483	.068815	-.174609	-.019034	.010217	.057713
19	.019577	.062814	-.179114	-.026451	.011821	.056865
20	.017863	.066045	-.183599	-.038735	.005911	.061981
21	.0012590	.069143	-.191171	-.038446	-.001596	.084398
22	.000680	.081424	-.200340	-.028532	-.011597	.106396
23	-.001498	.087764	-.200224	-.016198	-.024856	.118229
24	-.007843	.093838	-.190236	.002726	-.038570	.119337
25	-.007602	.091200	-.171601	.024847	-.050756	.109982
26	-.015298	.092490	-.157499	.032919	-.057371	.097310
27	-.017395	.079378	-.139386	.027851	-.056300	.088030
28	-.015331	.056693	-.116182	.027402	-.045045	.073739
29	-.016336	.025975	-.089149	.019502	-.036718	.058207
30	-.013186	-.003188	-.054864	.013673	-.028180	.041562
31	-.009260	-.019050	-.026237	.005068	-.020476	.023260
32	-.008081	-.020301	-.011133	-.000669	-.012817	.015820
33	-.008912	-.011873	-.005232	-.006562	-.005163	.014740
34	-.014781	.004780	-.001082	-.010449	.002785	.007832
35	-.011935	.020631	.001394	-.006523	.011551	.004833
36	.000402	.027169	.002907	.002684	.014549	.005203
37	.005120	.011623	.010666	.003153	.013319	.008028
38	.009811	.003875	.021048	.007306	.011740	.010988
39	.025125	-.014767	.040995	.008573	.010101	.007906
40	.035204	-.033740	.057665	.008096	.010626	.002588
41	.042651	-.046326	.070261	.004272	.005676	.004421
42	.042175	-.040373	.061048	-.006384	.006276	.012610
43	.031639	-.038716	.042358	-.010343	.013758	.022791
44	.038257	-.034975	.038146	-.004391	.021136	.017662
45	.040881	-.030212	.046422	.009443	.020157	.006979
46	.040929	-.020541	.050912	.019034	.019728	-.005085
47	.048112	-.018362	.056355	.012690	.026422	-.018695
48	.052213	-.008875	.046843	-.002178	.040918	-.026423
49	.054896	-.004417	.041352	-.014289	.051364	-.030042
50	.058464	.004117	.032842	-.019223	.056884	-.023970
51	.054487	.014742	.022863	-.014636	.062208	-.012650
52	.049873	.016574	.014347	.000203	.066050	-.003551
53	.031020	.010969	.016535	-.001085	.059922	-.005927
54	.018342	.002048	.019443	.000478	.051208	-.020972
55	.013361	-.007196	.027763	-.005613	.044635	-.039309
56	.002132	-.009901	.030952	-.017382	.037555	-.051705
57	-.001510	-.003188	.021529	-.017741	.023643	-.055010
58	-.011960	-.000720	.007364	-.003825	.008831	-.051249
59	-.010749	-.010850	.007847	.013330	-.000157	-.041222
60	-.003807	-.008432	.001715	.024794	-.012425	-.032045

RUN NO. 768 40M 10-24-62 1606-1702 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)
	0.14759 10E 00	0.18056 10E-01	0.12890 10E 00	0.15770 10F-01	0.98817 10E-01	0.12089 10E-01	0.17535 10E-01	0.21452 10E-02	0.73791 10E-02
0	-.465758	-.458327	-.043648	-.011173	.378729	.343664	-.872326	-.756907	.979632
1	-.440365	-.433106	-.036785	-.010912	.323055	.296782	-.762371	-.671218	.849599
2	-.379752	-.372835	-.019364	-.001892	.226076	.209576	-.576881	-.511814	.656022
3	-.318941	-.312467	-.001660	.011182	.145599	.136011	-.418449	-.371944	.495500
4	-.267042	-.262012	.009466	.019198	.096279	.092142	-.306399	-.272409	.382676
5	-.227029	-.222283	.013114	.021941	.062389	.062414	-.228291	-.202821	.303306
6	-.183893	-.179354	.010363	.016166	.039467	.041437	-.168756	-.150305	.235758
7	-.145872	-.141398	.010706	.014422	.022949	.024718	-.117479	-.106122	.175967
8	-.108264	-.106820	.015047	.017564	.010161	.012793	-.065677	-.060455	.118136
9	-.069868	-.071157	.018150	.019956	-.001004	.001841	-.016438	-.017313	.059844
10	-.029278	-.033136	.018808	.020043	-.008367	-.007413	.023209	.019629	.008578
11	.007489	.002279	.019370	.018808	-.023315	-.025372	.062082	.056003	-.041960
12	.034328	.027001	.021024	.016343	-.036387	-.037888	.095348	.084571	-.078371
13	.063128	.053927	.019150	.012836	-.033234	-.032392	.116774	.101487	-.100502
14	.088680	.077214	.015838	.008720	-.028643	-.025502	.133783	.115665	-.118371
15	.108066	.096848	.008346	.001511	-.033952	-.029627	.149997	.128504	-.139975
16	.132074	.118529	-.001520	-.007356	-.043497	-.038589	.168719	.143123	-.160175
17	.152551	.137160	-.014325	-.018900	-.052772	-.047463	.183022	.153877	-.177910
18	.169466	.155528	-.020542	-.023691	-.058449	-.054181	.191316	.162404	-.197015
19	.177623	.164472	-.019624	-.022071	-.063668	-.061456	.196870	.168007	-.207733
20	.180877	.166766	-.015326	-.018770	-.073212	-.071932	.206114	.176020	-.219478
21	.188498	.173636	-.009404	-.013691	-.091576	-.087077	.220430	.185858	-.226663
22	.190979	.173115	-.002948	-.009012	-.110151	-.103182	.231761	.193645	-.228865
23	.190581	.173502	.005774	-.002492	-.125077	-.118682	.237341	.198746	-.234348
24	.185301	.170394	.021052	.012661	-.128821	-.123530	.230031	.194441	-.230181
25	.176456	.166453	.033145	.024072	-.126301	-.124115	.208826	.178066	-.214508
26	.167590	.160209	.038741	.028807	-.113879	-.112518	.184696	.157528	-.195349
27	.150938	.145221	.038612	.029009	-.100439	-.098188	.161991	.139477	-.174929
28	.127127	.122893	.035240	.028970	-.081702	-.079092	.137961	.119632	-.151711
29	.101848	.100207	.031999	.027866	-.063477	-.060635	.113662	.098553	-.127799
30	.068294	.069337	.025733	.022722	-.045506	-.043346	.086294	.074818	-.100373
31	.042430	.046388	.017973	.015084	-.028201	-.027748	.052748	.045740	-.066281
32	.026043	.030438	.008467	.005682	-.019351	-.019255	.025949	.023463	-.040041
33	.021284	.026555	.000036	-.002310	-.015158	-.013900	.010807	.011594	-.030253
34	.021419	.028107	-.005207	-.005840	-.006059	-.004542	.007450	.010202	-.031973
35	.023509	.032005	-.016525	-.017367	.001454	.004212	.009404	.011341	-.030467
36	.025512	.035231	-.025413	-.028385	.005862	.010137	.010960	.010241	-.026284
37	.021615	.033221	-.033865	-.040131	.003940	.008589	.012755	.011842	-.025418
38	.014570	.028149	-.034619	-.041791	-.000149	.003951	.013996	.015036	-.030156
39	.000040	.016644	-.034709	-.042658	-.003920	-.002403	.006278	.011311	-.032507
40	-.015544	.002738	-.034607	-.042429	-.005268	-.006180	.000023	.008717	-.036589
41	-.024264	-.003583	-.030341	-.038397	-.006611	-.007517	.005365	.014746	-.046254
42	-.015209	.004755	-.031042	-.039053	-.010169	-.008871	.018335	.026696	-.066030
43	.000902	.018598	-.035362	-.041396	-.020717	-.019215	.031484	.040432	-.084486
44	.007312	.025575	-.038657	-.042784	-.025773	-.028029	.030166	.041310	-.084848
45	-.006166	.011304	-.032069	-.034094	-.019421	-.023936	.017751	.030026	-.069455
46	-.016751	-.001043	-.024878	-.024362	-.006634	-.011750	-.000400	.012794	-.047983
47	-.021395	-.005100	-.028721	-.027042	.012240	.008004	-.016553	-.002604	-.032835
48	-.021660	-.009340	-.039908	-.036177	.028121	.025926	-.025451	-.011151	-.026631
49	-.020052	-.009466	-.046913	-.041404	.034759	.033406	-.019919	-.005535	-.036477
50	-.011327	-.001887	-.049194	-.042389	.026106	.024634	-.005745	.007323	-.056946
51	-.005688	.001880	-.052492	-.045141	.010054	.007908	.011743	.023528	-.078348
52	-.001167	.004173	-.056350	-.048699	.002341	.001745	.020890	.029954	-.080663
53	-.006577	-.002385	-.055917	-.050338	.011725	.013497	.015359	.021556	-.061550
54	-.019245	-.018785	-.052225	-.048661	.031332	.033837	-.000874	.004188	-.034756
55	-.034999	-.036271	-.043508	-.039662	.049748	.051081	-.017491	-.010539	-.018099
56	-.041283	-.043175	-.034926	-.031215	.058348	.057564	-.026151	-.018560	-.010014
57	-.043265	-.049623	-.019314	-.015959	.060512	.059154	-.026995	-.019905	-.005234
58	-.034606	-.043757	-.001496	.001963	.055847	.054492	-.025531	-.020542	-.001485
59	-.032849	-.041297	.014474	.019364	.047666	.047579	-.020411	-.017851	-.001762
60	-.022883	-.030799	.034599	.041068	.044389	.047130	-.018008	-.017846	.003595

RUN NO. 768 40M 10-24-62 1606-1702 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED QUADRATURE COVARIANCE

M	U,V	U,M	U,T	V,M	V,T	W,T
	0.31541 10E 00	0.24179 10E 00	0.42907 10E-01	0.21118 10E 00	0.37474 10E-01	0.28727 10E-01
1	.005280	-.019449	.015240	.016090	.017849	-.008237
2	-.005207	-.032955	.022246	.027612	.025982	-.008118
3	-.008593	-.044124	.034836	.037224	.027956	-.002155
4	-.010215	-.059093	.051540	.047406	.027497	-.000884
5	-.009492	-.073919	.065309	.042715	.031737	.002904
6	-.018249	-.079863	.062540	.026995	.033923	.006752
7	-.023924	-.085020	.058032	.024963	.034166	.003271
8	-.023490	-.081630	.047571	.028332	.034419	.000793
9	-.027734	-.068927	.033021	.035627	.035433	-.004047
10	-.028535	-.074039	.026025	.039162	.042674	-.003155
11	-.033507	-.073138	.025981	.030360	.051244	.006442
12	-.025897	-.067765	.028250	.020379	.047437	.016201
13	-.025578	-.063297	.029152	.008187	.039076	.023549
14	-.025283	-.062244	.034539	-.000386	.036031	.023381
15	-.027994	-.064302	.035024	-.003224	.033247	.017980
16	-.026690	-.055262	.031190	-.006638	.030400	.007801
17	-.019446	-.051464	.030779	-.007197	.029674	-.002017
18	-.025844	-.048041	.026295	-.012454	.032472	.000674
19	-.033687	-.053973	.024498	-.025464	.036270	.011999
20	-.031363	-.053997	.021864	-.028565	.036975	.014914
21	-.022258	-.061256	.024184	-.025879	.028487	.009764
22	-.018624	-.065907	.022187	-.023883	.013789	.009211
23	-.017775	-.054158	.016545	-.024551	-.002447	.014691
24	-.015932	-.031961	.010913	-.022519	-.013491	.011724
25	-.014132	-.014387	.003864	-.025158	-.019271	.006417
26	-.012845	-.006038	-.000341	-.022677	-.023385	.003453
27	-.018069	.007775	.000116	-.015078	-.022425	-.002523
28	-.021209	.026316	-.003208	-.010364	-.015480	-.011035
29	-.022476	.033306	-.001772	-.012795	-.009187	-.014192
30	-.018024	.043130	-.002266	-.008060	-.003464	-.015019
31	-.008817	.049310	.002835	-.008081	.001373	-.014853
32	-.003174	.055315	.012095	-.015204	.001787	-.019434
33	.005862	.052831	.023021	-.014258	-.002811	-.030855
34	.016531	.052895	.029091	-.004037	-.006742	-.038259
35	.015914	.052526	.025447	.012783	-.007084	-.036333
36	.003679	.039913	.020602	.017524	-.006366	-.026772
37	-.005118	.024431	.015680	.017375	-.007642	-.018752
38	-.008886	.012703	.009857	.021171	-.011817	-.008599
39	-.000440	.006057	.009532	.019163	-.009689	-.003092
40	.005568	.010542	.001291	.013649	-.005950	-.006081
41	.009038	.011697	-.008843	.008206	-.004485	-.011133
42	.011396	.008646	-.012102	.003682	-.012170	-.013130
43	.021577	.003375	-.016521	.006822	-.021442	-.012654
44	.026163	.005378	-.015180	.019219	-.027251	-.016553
45	.022575	.015469	-.008384	.027864	-.030649	-.019189
46	.012348	.030134	-.005457	.030137	-.024993	-.020476
47	.013323	.030277	-.007086	.025790	-.016062	-.023370
48	.018345	.025325	-.008091	.018927	-.009197	-.028302
49	.024364	.021730	-.014501	.011456	-.003144	-.024778
50	.023255	.002766	-.020217	.005929	.003459	-.018850
51	.013376	-.003119	-.032267	.000331	.011997	-.012317
52	.007698	-.008862	-.038547	-.006684	.024739	-.007673
53	.004287	-.000753	-.039193	.003149	.032149	-.003768
54	.008311	-.003853	-.042255	.013564	.029564	.005965
55	.005350	.002115	-.048886	.016764	.028890	.015768
56	.004165	.007569	-.053921	.005617	.025598	.018624
57	.005311	.004990	-.056666	.000059	.012437	.020381
58	.008415	.009800	-.055651	-.001827	-.002874	.022622
59	.004624	.010833	-.054104	-.004353	-.015839	.028526
60	-.002473	.013760	-.050155	-.001859	-.020551	.034180

RUN NO. 768 40M 10-24-62 1506-1702 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)
	0.14759 10E 00	0.18056 10E-01	0.12890 10E 00	0.15770 10E-01	0.98817 10E-01	0.12089 10E-01	0.17535 10E-01	0.21452 10E-02	0.73791 10E-02
1	-.029666	-.033201	-.018721	-.017574	.028976	.035238	-.039824	-.053014	.016035
2	-.042427	-.047073	-.025281	-.023153	.024917	.029928	-.029424	-.038838	.011668
3	-.050124	-.052056	-.025486	-.022470	.008071	.009670	-.005414	-.006693	.001886
4	-.057952	-.055945	-.025199	-.022044	-.003280	-.005096	.016243	.022337	-.007172
5	-.065824	-.060806	-.029818	-.026587	-.012341	-.015512	.028036	.037987	-.011940
6	-.060041	-.054081	-.035021	-.032979	-.018371	-.021597	.033403	.045039	-.013969
7	-.048816	-.041079	-.037432	-.036497	-.014780	-.018613	.036725	.049288	-.015172
8	-.038908	-.032121	-.038852	-.038204	-.014000	-.018482	.037757	.050621	-.015559
9	-.022226	-.015611	-.038010	-.036511	-.013672	-.020366	.039349	.052961	-.016480
10	-.015012	-.009020	-.043124	-.040285	-.015275	-.022305	.040775	.055046	-.017249
11	-.008291	.000222	-.051977	-.048608	-.024308	-.030414	.039658	.053752	-.016886
12	-.013438	-.006005	-.052483	-.050832	-.037635	-.044202	.037673	.050901	-.015966
13	-.018724	-.012572	-.049595	-.050233	-.046890	-.053450	.037156	.050057	-.015475
14	-.022785	-.015882	-.045935	-.046627	-.046005	-.051979	.032657	.043951	-.013601
15	-.023842	-.017167	-.043951	-.044910	-.039867	-.046266	.027541	.036995	-.011311
16	-.024691	-.019907	-.038713	-.039075	-.027350	-.033581	.024837	.033167	-.010083
17	-.023102	-.018032	-.033677	-.032626	-.013943	-.019534	.023998	.032094	-.009706
18	-.016563	-.011080	-.038298	-.037715	-.012189	-.016562	.023552	.031581	-.009496
19	-.014488	-.009284	-.043249	-.042913	-.020393	-.022857	.021018	.027858	-.008181
20	-.012084	-.007004	-.044195	-.044139	-.023519	-.025556	.013910	.018003	-.004963
21	-.015978	-.011645	-.036397	-.037063	-.021529	-.024795	.009212	.011643	-.003058
22	-.015104	-.011443	-.022432	-.024300	-.018530	-.020739	.006913	.008330	-.001901
23	-.009307	-.006387	-.009684	-.013974	-.023989	-.025935	.007888	.009640	-.002490
24	-.003401	-.000864	.000761	-.004386	-.024955	-.028298	.012756	.016454	-.004699
25	.007806	.011304	.008197	.003421	-.019547	-.023675	.011159	.014392	-.004184
26	.011682	.014722	.015906	.012160	-.015994	-.020329	.009406	.012178	-.003645
27	.015662	.019956	.015465	.011908	-.011169	-.016025	.007070	.008963	-.002586
28	.018317	.022557	.009269	.006499	-.003807	-.009627	.001983	.002143	-.000524
29	.014590	.018309	.002816	.000474	.003735	-.000946	-.002121	-.003232	-.001202
30	.014500	.017929	-.000652	-.002191	.008066	.004733	-.004575	-.006665	.002267
31	.011941	.016929	-.003555	-.004121	.014253	.013377	-.005780	-.007425	.002866
32	-.001811	.002128	-.003440	-.003624	.022565	.022671	-.008463	-.011856	.003904
33	-.017487	-.014025	-.002392	-.004065	.034841	.034361	-.013839	-.018877	.005983
34	-.026363	-.023313	.002631	.001395	.038968	.036728	-.016577	-.022370	.006956
35	-.026553	-.025205	-.000558	-.003307	.033842	.030792	-.017256	-.023353	.007224
36	-.025595	-.025850	-.005267	-.009392	.021405	.017949	-.014841	-.019881	.006124
37	-.023872	-.023569	-.004565	-.009158	.011462	.008061	-.011786	-.015723	.004628
38	-.023818	-.027817	-.001566	-.007185	-.001502	-.005354	-.007790	-.010341	.002930
39	-.019672	-.022089	-.002819	-.007863	-.005972	-.009115	-.007279	-.009632	.002840
40	-.012089	-.015222	-.007798	-.012767	-.004691	-.008562	-.011488	-.015211	.004469
41	-.006241	-.011551	-.013845	-.020089	.001098	-.002876	-.017981	-.023868	.007019
42	-.001603	-.006715	-.004926	-.011237	.008540	.006248	-.020100	-.026492	.007763
43	.003543	-.001511	.009109	.003349	.012945	.012301	-.017114	-.022316	.006359
44	.006600	.003176	.016886	.011096	.019804	.019761	-.014997	-.019403	.005546
45	.003583	.001984	.019782	.013151	.028787	.030736	-.014482	-.018704	.005302
46	-.000757	-.002471	.018262	.013784	.038799	.043206	-.015468	-.020018	.005725
47	-.005743	-.009827	.012407	.009576	.050937	.058068	-.016713	-.021895	.006386
48	-.010270	-.016253	.008545	.007405	.058223	.065957	-.017475	-.023013	.006889
49	-.006151	-.013534	.004890	.005131	.052726	.060259	-.017323	-.022863	.006910
50	-.001315	-.009588	-.002464	-.001904	.043478	.050535	-.015328	-.020161	.006079
51	.010198	.000994	-.011875	-.010619	.033703	.040203	-.013096	-.017150	.005247
52	.017904	.008328	-.022898	-.020396	.027539	.033803	-.009725	-.012791	.004059
53	.022194	.013495	-.031781	-.029492	.024370	.030977	-.007323	-.009817	.003300
54	.024261	.014704	-.030945	-.029498	.018940	.027652	-.007477	-.010113	.003335
55	.031064	.021148	-.030527	-.029460	.015135	.026538	-.009672	-.013111	.004266
56	.035147	.024418	-.025915	-.024652	.013992	.026339	-.012340	-.016711	.005357
57	.036354	.024906	-.011898	-.011426	.012446	.025045	-.014337	-.019299	.006126
58	.041750	.032690	.004717	.004711	.007295	.019078	-.015192	-.020325	.006437
59	.044533	.036791	.017096	.016168	-.000119	.011645	-.014274	-.018893	.005868
60	.039082	.031120	.020239	.018438	-.013682	-.004036	-.012104	-.015916	.004805

RUN NO. 76B 40M 10-24-62 1606-1702 EST  
 61 POINT RUNNING MEAN, NO BLOCK AVERAGING

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(M)
	0.36114 10E 00	0.27547 10E 00	0.16189 10E 00	0.50977 10E-02	0.60319 10E-01	0.90273 10E-03
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.709777	.784497	.735614	.849604	.869088	.860955
2	.555589	.519147	.448455	.633655	.667229	.667788
3	.444040	.324300	.278413	.458654	.498524	.510506
4	.340945	.190346	.167773	.335629	.379841	.400416
5	.263543	.101119	.089557	.249855	.296569	.322872
6	.185564	.047875	.047289	.182834	.228006	.253856
7	.125738	.021736	.026641	.123396	.167640	.191896
8	.086002	.003392	-.000534	.066249	.108476	.133275
9	.051041	-.020342	-.035351	.011230	.049806	.072921
10	.005206	-.037844	-.053755	-.027930	-.000624	.019391
11	-.036294	-.052084	-.077258	-.066365	-.050380	-.033137
12	-.069535	-.053663	-.100039	-.105242	-.087857	-.070019
13	-.099618	-.063375	-.108283	-.133653	-.110895	-.092857
14	-.126785	-.074483	-.112822	-.154254	-.129480	-.110985
15	-.164114	-.079147	-.131042	-.175510	-.150706	-.134488
16	-.180253	-.072480	-.164338	-.200935	-.171493	-.155613
17	-.207697	-.067946	-.190589	-.221433	-.189071	-.175012
18	-.226248	-.069180	-.185671	-.227680	-.205870	-.197127
19	-.233637	-.066354	-.166988	-.231517	-.215825	-.208831
20	-.240413	-.056168	-.165797	-.241848	-.227585	-.221054
21	-.253575	-.066462	-.178916	-.264632	-.237328	-.226668
22	-.254515	-.097386	-.199302	-.282493	-.242341	-.226554
23	-.240745	-.119193	-.195013	-.289243	-.247887	-.232182
24	-.234185	-.128308	-.182885	-.276675	-.242440	-.228393
25	-.239890	-.136851	-.171399	-.247598	-.224244	-.214083
26	-.230228	-.143735	-.136690	-.219085	-.202459	-.196965
27	-.213047	-.136255	-.118078	-.189188	-.180100	-.177247
28	-.186417	-.118629	-.101253	-.158431	-.155364	-.154485
29	-.151360	-.097001	-.088176	-.130058	-.130231	-.130899
30	-.111617	-.078609	-.062517	-.098798	-.101421	-.103764
31	-.069075	-.063607	-.033314	-.060114	-.065619	-.070163
32	-.045674	-.050773	-.014141	-.027268	-.037817	-.044082
33	-.023319	-.044143	-.004241	-.006599	-.025931	-.035774
34	-.015553	-.046323	.006868	.001482	-.026390	-.038361
35	-.018313	-.048045	.007440	-.002037	-.025902	-.035833
36	-.031295	-.052413	.006614	-.009526	-.023306	-.030637
37	-.023162	-.061120	.025125	-.011917	-.023141	-.028878
38	-.013261	-.078922	.043604	-.008619	-.026979	-.033979
39	.004039	-.084040	.050756	.007203	-.026291	-.038756
40	.034679	-.086709	.049707	.020875	-.027338	-.045357
41	.048578	-.093285	.057507	.017957	-.036070	-.056014
42	.061565	-.089615	.060276	.004393	-.054688	-.077764
43	.058214	-.083569	.044330	-.005715	-.072380	-.096935
44	.042288	-.086005	.035970	.000088	-.072204	-.097036
45	.028334	-.086855	.044638	.012985	-.056797	-.081226
46	.027912	-.087097	.053858	.030346	-.035262	-.059430
47	.029687	-.088032	.067034	.045859	-.019056	-.045436
48	.036557	-.085282	.065852	.054226	-.011740	-.040576
49	.037256	-.073818	.066496	.050367	-.021086	-.051009
50	.037723	-.048761	.043880	.036329	-.040961	-.072843
51	.019421	-.038376	.011430	.019277	-.062513	-.094570
52	.023944	-.030476	-.008155	.005424	-.067207	-.094807
53	.017369	-.010532	-.016368	.003378	-.051170	-.072826
54	.019200	.015891	-.019717	.013757	-.026212	-.043983
55	.029673	.037977	-.017770	.032427	-.008720	-.027708
56	.021308	.042847	-.000376	.041562	-.000077	-.020164
57	.013836	.026894	.007667	.040689	.003768	-.014285
58	.008791	-.003659	.003484	.034422	.006194	-.009652
59	.009096	-.019694	-.009561	.024484	.004427	-.008985
60	.015900	-.012077	.002900	.016769	.007702	-.001842

RUN NO. 768 40M 10-24-62 1606-1702 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	-.110673	-.004563	.015048	-.002013	-.015563	-.005220
1	-.519716	-.064935	.244464	-.023183	.161148	-.106228
2	-.212921	-.104873	.400440	-.009060	.517354	-.151507
3	-.182702	-.126472	.459388	.024392	.534865	-.155150
4	-.281439	-.081411	.255505	-.019204	.228023	-.095245
5	-.022953	-.042132	.085068	-.176071	.282623	-.054421
6	.137892	-.032424	.047011	-.339777	.493362	-.061464
7-8	.043096	-.029853	.052599	-.277750	.314102	-.074958
9-11	-.112426	-.007604	.021363	-.126665	.058827	-.040169
12-15	-.045538	-.009867	.019669	-.022251	.169707	-.030640
16-20	.005770	-.004181	.012539	-.040063	.076683	-.017492
21-27	-.020358	-.004076	.002998	-.014749	.052786	-.009428
28-36	-.002244	-.001526	.001127	-.016010	.012792	-.005073
37-47	-.000633	.000045	.000489	-.005690	.010774	-.001816
48-60	.008169	-.000124	-.000136	-.001978	.001787	-.001374

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	-.517013	-.638302	.881294	-.025091	.502292	-.016067
2	-.419711	-.815781	.699464	.039397	.625470	.168796
3	-.190278	-.708378	.545177	.247037	.583931	.118867
4	-.036996	-.224637	.465660	.311066	.296683	-.072978
5	-.025287	-.040053	.273319	.185436	.056829	-.090784
6	-.005762	-.200770	.165379	.093020	-.069768	-.004541
7-8	.025310	-.140629	.296740	-.036035	.105350	-.034675
9-11	.027761	.014257	.078128	.037645	-.008321	.014334
12-15	-.001093	.012693	-.076822	.041526	.088871	-.025900
16-20	.000278	-.000468	-.031857	-.006665	.000841	-.020073
21-27	.002355	-.012944	.012376	-.013730	.031106	-.005097
28-36	.027652	-.003868	.023618	.013288	.001276	-.012210
37-47	.004242	.003093	.000425	-.002220	-.001843	.000395
48-60	.007446	-.002728	.007479	.000612	.002821	.001214

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-01	10E-03	10E-02	10E-03
0	.035453	.039181	.005965	.044470	.103982	.019487
1	.386064	.303349	.095727	.545042	.849192	.141565
2	.529058	.290716	.161923	.767464	.957235	.146660
3	.568637	.265155	.202030	.857773	.989242	.145531
4	.349690	.218823	.142632	.572934	.686850	.101056
5	.182177	.177659	.090224	.308237	.376060	.054520
6	.146381	.175316	.080162	.244235	.290569	.041404
7-8	.137906	.156714	.078505	.248877	.271920	.037860
9-11	.090679	.101053	.058717	.137900	.148268	.020769
12-15	.058600	.074525	.043201	.106128	.116000	.016122
16-20	.037813	.045587	.031645	.066432	.073432	.010795
21-27	.032713	.024069	.018072	.035895	.038194	.005969
28-36	.027583	.017489	.013920	.018285	.017472	.002872
37-47	.028389	.009708	.008130	.010379	.009326	.001762
48-60	.024031	.006672	.004935	.006667	.006098	.001246

RUN NO. 768 40M 10-24-62 1606-1702 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-02	10E-03	10E-02	10E-03	10E-02
0	-.010671	-.014851	.011574	-.016224	.013119	.012485	-.017125	-.020349	.014057
1	-.118523	-.152028	.079860	-.159217	.369509	.421324	-.180836	-.201871	.107774
2	-.156523	-.187423	-.031606	.038957	.544018	.627469	-.234808	-.251685	.116133
3	-.162234	-.186517	-.064047	-.011029	.556253	.641035	-.256631	-.271816	.117585
4	-.094164	-.110061	.022376	.077336	.323425	.364987	-.176899	-.190628	.081861
5	-.036463	-.044907	-.035204	-.008071	.163924	.174381	-.097927	-.107038	.044618
6	-.021014	-.026301	-.142817	-.150471	.205892	.231419	-.077457	-.084785	.034219
7-8	-.022460	-.027677	-.068657	-.060350	.251178	.282254	-.074958	-.079849	.031563
9-11	-.010357	-.013280	-.004821	.001831	.114205	.117175	-.040715	-.042822	.017219
12-15	-.007601	-.009022	-.035755	-.029282	.098755	.108563	-.031902	-.033860	.013446
16-20	-.004529	-.005253	-.016720	-.014737	.057481	.063666	-.019167	-.019818	.008691
21-27	-.001774	-.002300	-.004464	.001839	.031112	.034924	-.009390	-.009176	.004620
28-36	-.000424	-.000510	.000437	.003263	.011627	.010334	-.004153	-.003678	.002142
37-47	-.000081	-.000042	.000306	.002506	.003454	.002447	-.001873	-.001306	.001208
48-60	.000042	.000037	.000268	.000900	.002653	.001901	-.001080	-.000635	.000818

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-02	10E-03	10E-02	10E-03	10E-03	10E-04	10E-04
1	-.201957	-.178395	-.265682	-.346216	-.101836	-.170241	.213076	.345854	-.358810
2	-.161966	-.142632	-.240163	-.284771	-.133804	-.191559	.258048	.422620	-.443999
3	-.182913	-.199833	-.201703	-.230400	-.071109	-.099037	.196543	.326995	-.353682
4	-.174640	-.201408	-.097305	-.108447	.010108	.003398	.078949	.134061	-.152446
5	-.090147	-.100236	-.000924	.008551	.038001	.046355	.027130	.045619	-.052409
6	-.077185	-.098274	.028762	.034861	.015010	.023598	-.005599	-.009116	.008618
7-8	-.148151	-.190245	-.030872	-.032144	.037240	.055231	-.052905	-.086846	.094505
9-11	-.058026	-.080916	.001563	.002342	.003275	.007694	-.052510	-.084416	.086798
12-15	.007669	-.000055	-.024314	-.024231	.026214	.037962	-.058938	-.095336	.098512
16-20	-.006050	-.015194	-.004838	-.004235	.021597	.032138	-.054741	-.089983	.095764
21-27	-.009577	-.013453	-.012295	-.014942	.012508	.019614	-.035498	-.057964	.060795
28-36	-.008837	-.010635	-.000975	-.001032	.008631	.012011	-.018332	-.029975	.030696
37-47	-.000250	-.000387	.000137	.000043	.002387	.003823	-.008821	-.014487	.015168
48-60	-.001442	-.001003	-.000846	-.000891	.000590	.001134	-.003137	-.005266	.005926

RUN NO. 768 40M 10-24-82 1606-1702 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
	0.38534 10E 00	0.18297 10E 00	0.42706 10E-01	0.16118 10E 00	0.37621 10E-01	0.17863 10E-01
0	-.038718	-.409697	.394089	-.072867	.139041	-.389089
1	-.020742	-.213768	.149367	-.046013	.086886	-.094509
2	.022403	-.099029	-.043279	-.058643	.069428	.068634
3	.027362	-.116497	-.032160	-.015887	.052072	.059764
4	.072197	-.099177	-.009122	-.008859	.040402	.054889
5	.091405	-.041098	-.014112	-.014107	.059999	.043800
6	.019138	-.002204	-.029322	.045175	-.039126	.032679
7	-.018083	.000725	-.025677	.027158	-.087636	.008939
8	-.013407	.050820	-.060838	.013642	-.072014	.045895
9	-.079720	.123095	-.056555	.062927	-.122042	.053841
10	-.105211	.166977	-.012291	.117470	-.089386	.048848
11	-.040670	.179153	-.007438	.055519	-.050741	.022548
12	-.040218	.182399	-.040503	.047035	-.070310	-.001647
13	-.030449	.108687	-.066571	.046700	-.057237	.037067
14	-.036435	.158044	-.066689	.008945	-.091840	.058722
15	-.004436	.171057	-.025745	-.038281	-.045722	-.085135
16	.030433	.106284	.008793	-.075263	.046167	-.125455
17	.004050	.088154	-.023700	-.097239	.102691	-.108907
18	.023211	.056492	-.042168	-.065846	.100380	-.057615
19	.024660	-.001022	-.025953	.004736	.065451	-.049376
20	.023684	-.064284	.031892	-.042651	.026111	-.024685
21	.042528	-.103587	.038438	-.038725	.030827	.064679
22	.071889	-.066442	.021719	-.013616	.036873	.059788
23	.014249	-.118012	.039055	.036387	-.007533	.005062
24	-.030750	-.182255	.043360	.050559	-.003833	.020353
25	-.040854	-.123467	.040262	.037596	.006803	.039851
26	-.072666	-.093935	.005137	.030729	-.038095	.009753
27	-.053432	-.114060	-.001313	.046581	.006577	-.013256
28	-.003064	-.055559	-.002134	-.015604	.041778	.036327
29	.002685	-.043635	.049768	-.021826	.037527	.018469
30	-.011413	-.019768	.047538	.009081	.025340	.029244

COSPECTRUM

K	U,V	U,W	U,T	V,W	V,T	W,T
	10E-02	10E-01	10E-02	10E-02	10E-02	10E-03
0	-.045606	-.000629	-.003075	.010813	-.002856	.001096
1	.087573	-.086670	.054596	.015227	.024176	.079238
2	.502925	-.156401	.116134	-.181248	.106147	-.055125
3	.721126	-.138308	.131645	-.496038	.180784	-.475958
4	-.012231	-.034769	.094483	-.346392	.100169	-.571555
5	-.718088	-.011944	.098403	.073149	-.005701	-.220967
6	-.813404	-.015757	.099958	.086935	-.002597	-.280423
7	-.710660	-.015757	.089975	-.082827	.002038	-.565675
8	-.324002	-.027725	.084419	-.111536	-.035247	-.457090
9-11	.009549	-.024432	.102004	-.006802	.019728	-.456733
12-14	.003150	-.022057	.084474	.021008	.017318	-.267831
15-17	-.129373	-.023414	.065931	.019767	-.003265	-.328972
18-30	.087654	-.012701	.027093	-.064010	.018866	-.185033



RUN NO. 768 40M 10-24-62 1606-1702 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)
	0.20011 10E 00	0.27531 10E-01	0.17628 10E 00	0.24253 10E-01	0.83705 10E-01	0.11516 10E-01	0.19537 10E-01	0.26879 10E-02	0.12595 10E-01
0	-.542512	-.540516	-.182202	-.178613	.325901	.283479	-.761873	-.638595	.984945
1	-.333741	-.357056	-.170601	-.179305	.123183	.121454	-.346625	-.310666	.672066
2	-.146358	-.185798	-.166537	-.178701	.008950	.029134	-.093714	-.106302	.416005
3	-.093077	-.119674	-.139946	-.152038	.013067	.031929	-.024952	-.036677	.263245
4	-.046464	-.058341	-.118673	-.129827	.017272	.034907	.079468	.062143	.080145
5	-.010912	-.017556	-.083433	-.082830	.012719	.027217	.094535	.088376	-.040484
6	.014962	.009315	.034670	.030473	.008812	.020096	.110945	.104258	-.104807
7	.035639	.035217	.096231	.090622	.000067	.002826	.077574	.076478	-.122217
8	.106483	.110848	.117564	.120167	-.077766	-.080624	.146489	.138277	-.220316
9	.127413	.136887	.193572	.196973	-.127132	-.136877	.145465	.136411	-.246077
10	.111227	.129577	.170839	.178720	-.128786	-.139680	.097294	.095527	-.250251
11	.135289	.159308	.141627	.154831	-.108487	-.122412	.115950	.111771	-.295074
12	.181444	.205869	.144949	.153373	-.093689	-.112557	.124516	.120333	-.319479
13	.205722	.226910	.111203	.116993	-.090223	-.097641	.197353	.179936	-.372087
14	.192438	.211312	.124877	.124153	-.100766	-.104421	.199111	.175273	-.359072
15	.153954	.176541	.066005	.066188	.015185	-.005832	.051925	.053217	-.234575
16	.112130	.136744	-.003742	.007862	.056702	.032971	-.040648	-.025152	-.124563
17	.102619	.116196	-.052456	-.035073	.055333	.036416	-.088936	-.074207	-.039614
18	.089125	.095147	-.063013	-.048075	.025399	.014024	-.120910	-.111287	.047990
19	.063277	.068565	-.059188	-.052567	.023185	.013914	-.113450	-.111657	.109819
20	-.013675	-.008494	-.050941	-.053069	.020532	.018011	-.091290	-.093160	.129824
21	-.016810	-.010200	-.064785	-.068790	-.008988	.006348	-.031743	-.040834	.108635
22	-.035671	-.036634	-.102845	-.112412	.033354	.056098	-.043572	-.053327	.139137
23	-.096255	-.104347	-.082629	-.100233	.075181	.091542	-.057527	-.062462	.164360
24	-.135410	-.149883	-.066372	-.080042	.076373	.096830	.009976	-.001992	.127773
25	-.156478	-.176309	-.063655	-.074384	.029881	.046982	-.026245	-.027904	.150106
26	-.148424	-.175874	-.020722	-.035288	.015905	.022287	-.031491	-.040001	.155427
27	-.130359	-.156038	-.024789	-.027941	.035649	.039614	.011739	.000844	.092445
28	-.081362	-.097599	-.039927	-.036404	-.011511	-.003719	.008810	.005380	.051494
29	-.081920	-.083997	-.037198	-.034054	-.007787	-.003673	-.076333	-.057652	.048914
30	-.086772	-.090836	-.021659	-.018972	-.009084	-.003386	-.076251	-.063063	.013651

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-03	10E-02	10E-03	10E-02
0	.001763	.002310	-.001365	-.002639	-.018600	-.030133	.002775	.004748	.010636
1	-.121872	-.190502	-.050316	-.077770	.078321	.143603	-.046403	-.053627	.143442
2	-.200807	-.309260	-.115931	-.170973	.307306	.495329	-.132839	-.169378	.230724
3	-.171704	-.258678	-.147159	-.209039	.430073	.621422	-.198132	-.252691	.247126
4	-.073579	-.103935	-.065860	-.090063	.222414	.263670	-.134269	-.165848	.123286
5	-.057944	-.077583	.002696	.003580	.000309	-.037647	-.080168	-.096858	.069347
6	-.059436	-.079656	.016403	.026343	-.011925	-.067581	-.111435	-.133257	.085337
7	-.057974	-.078913	.015667	.025745	.125896	.108077	-.118639	-.136747	.076483
8	-.046325	-.061137	.017985	.023180	.167938	.195498	-.069018	-.075676	.040863
9-11	-.043037	-.053030	-.000925	.001865	.172215	.203787	-.066106	-.070808	.030405
12-14	-.027181	-.030045	-.002284	-.000724	.074471	.075115	-.035162	-.035198	.014351
15-21	-.023774	-.027611	.003263	.004764	.106888	.118038	-.044741	-.048409	.020995
22-30	-.010595	-.012764	-.004773	-.004386	.060233	.066376	-.030439	-.032931	.012526

RUN NO. 768 40M 10-24-62 1606-1702 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
	0.38534 10E 00	0.18297 10E 00	0.42706 10E-01	0.16118 10E 00	0.37621 10E-01	0.17863 10E-01
1	.072831	-.112134	.092173	-.060714	.034745	-.048191
2	.152577	-.123785	.115673	-.046915	.014657	-.054834
3	.244238	-.043725	.111837	-.095926	.021352	-.141929
4	.342983	-.018045	.096466	-.158151	-.032968	-.129784
5	.396709	.011158	.077526	.142734	-.022711	-.117309
6	.419343	.023550	.063693	.136826	-.033401	-.065614
7	.422840	.007797	.105090	.123063	-.063776	-.045838
8	.345680	.016572	.117721	.054440	.003676	-.035587
9	.257360	-.004796	.106617	.057380	-.023029	-.085761
10	.220901	.022362	.101984	.061354	-.105849	-.043307
11	.163496	-.017177	.084859	-.064014	-.112037	-.008981
12	.084789	-.028038	.047100	.061353	-.072199	.017892
13	.013912	-.030665	-.017034	.059957	-.081558	.076257
14	-.081290	-.052299	-.071389	-.035714	-.034068	.098646
15	-.197381	.025912	-.145867	-.106535	.040385	.056376
16	-.286549	.061469	-.111460	-.133007	.090729	.025338
17	-.304213	.037764	-.084708	-.142289	.063125	.081750
18	-.305582	-.013795	-.063271	-.139560	.094997	.041110
19	-.302744	-.039687	-.061800	-.095311	.082601	.062746
20	-.259953	-.035947	-.066844	-.090722	.060802	.069630
21	-.230109	-.013280	-.056231	-.113316	.056365	.015836
22	-.231644	-.001615	-.049325	-.076794	.050009	-.018094
23	-.236284	.041246	-.003734	-.121344	.098897	-.073188
24	-.199620	-.024498	.037062	-.063103	.032254	-.026038
25	-.145811	-.036607	.040913	-.001104	.006840	.004272
26	-.084261	.008862	.014119	.031406	-.015497	-.001168
27	-.008821	-.025291	.042732	.042491	.001324	.020053
28	.062299	-.024430	.052061	.142592	-.050569	-.018011
29	.121057	-.065777	.073936	.095782	-.053286	-.018997
30	.156475	-.006846	.042237	.094463	-.032730	-.034629

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	.361387	-.116843	.121062	.393126	-.628869	-.228507
2	.680337	-.090119	.221765	.959371	-.997238	-.629330
3	.560622	-.127970	.210285	.823299	-.171160	-.838405
4	.115733	-.164124	.034384	.173393	.820485	-.437219
5	-.020995	-.264078	-.019605	.118778	.357896	-.148437
6	-.005273	-.425150	.048671	.225677	-.255753	-.163826
7	-.028015	-.407120	.049491	.083606	-.092806	-.178971
8	-.072414	-.193387	.074399	-.211706	.448743	-.195718
9-11	-.010491	-.282196	.030677	-.062529	.269201	.134020
12-14	-.000565	-.115043	.000216	.015822	-.064946	.046279
15-21	.002949	-.051065	.010408	.087394	.015253	-.031288
22-30	-.003004	.025387	.001951	.014959	.156413	-.089470

RUN NO. 76B 40M 10-24-62 1606-1702 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)
	0.20011 10E 00	0.27531 10E-01	0.17628 10F 00	0.24253 10E-01	0.83705 10E-01	0.11516 10E-01	0.19537 10E-01	0.26879 10E-02	0.12595 10E-01
1	-.083819	-.075307	-.015703	-.009462	.015083	.005193	.039037	.045637	-.009789
2	-.138821	-.133949	.018882	.026460	.042151	.035354	.024668	.029099	-.006723
3	-.163665	-.164754	.046774	.061864	.125488	.111817	.010346	.011901	-.002850
4	-.182916	-.191373	.103015	.114662	.150136	.143847	-.004297	-.004610	.000434
5	-.192189	-.207589	.141140	.162190	.185445	.188580	-.009126	-.010429	.001654
6	-.182443	-.200036	.181174	.207206	.152092	.163520	-.005630	-.006199	.000529
7	-.188647	-.196364	.218282	.242973	.084698	.088493	.038161	.045767	-.011060
8	-.183636	-.186044	.153774	.184327	.096408	.104420	.047201	.056794	-.013880
9	-.148843	-.148078	.147241	.169275	.123936	.124214	.053206	.063862	-.015454
10	-.105650	-.098346	.159609	.161591	.047409	.045722	.076101	.089877	-.020450
11	-.061342	-.049935	.123468	.116990	.000989	-.001283	.054422	.064656	-.014891
12	-.021850	-.013550	.076200	.071314	-.014159	-.012701	.008768	.010735	-.002526
13	.042352	.045202	.066010	.056613	-.065331	-.056918	-.017973	-.022252	.005677
14	.114438	.116420	.002787	-.005762	-.104796	-.098397	-.052711	-.063038	.014690
15	.199968	.198743	-.082966	-.088285	-.068324	-.066676	-.077816	-.092213	.021027
16	.192547	.199017	-.138329	-.140237	-.055445	-.059562	-.056404	-.066698	.015397
17	.186358	.198370	-.118957	-.124744	-.133306	-.136986	-.019742	-.024070	.006235
18	.180472	.197006	-.144774	-.147367	-.120072	-.130988	-.019436	-.024129	.006311
19	.167390	.182082	-.161180	-.169747	-.128239	-.134932	-.025034	-.030238	.007473
20	.169128	.183293	-.154874	-.168259	-.125023	-.130771	-.038168	-.045331	.010705
21	.136908	.147856	-.151316	-.165109	-.054257	-.060814	-.071428	-.064428	.019132
22	.089208	.093087	-.134013	-.146347	-.006064	-.012394	-.073037	-.086442	.019529
23	.019990	.021806	-.161271	-.165829	.038198	.026564	-.050814	-.060869	.014163
24	-.059275	-.061260	-.109944	-.121920	.011537	.006647	-.044535	-.053250	.012076
25	-.087689	-.093700	-.075048	-.087328	-.002500	-.001238	-.004887	-.005979	.001108
26	-.069524	-.079317	-.041484	-.052847	.007245	.008838	.046478	.055439	-.013046
27	-.105262	-.113849	-.038224	-.045208	-.015423	-.012225	.046875	.056095	-.013459
28	-.114181	-.121800	.026980	.018436	.025603	.025310	.039741	.047881	-.011738
29	-.118783	-.121451	.048960	.043985	.039638	.042175	.038912	.047047	-.011533
30	-.097566	-.105409	.045474	.044905	.070079	.075315	.034450	.040528	-.009164

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-01	10E-02	10E-02	10E-03	10E-03	10E-04	10E-04
1	-.059423	-.076476	.090138	.136979	.156940	.216683	.041814	.068973	-.091752
2	-.174846	-.247525	.145170	.220883	.466692	.654740	.328891	.541072	-.612507
3	-.181675	-.260661	.086166	.138561	.527483	.718613	.209117	.345680	-.403872
4	-.040472	-.060299	-.019039	-.016768	.191176	.237477	-.157614	-.257591	.270638
5	.003769	.002556	-.029847	-.042555	.025453	.016157	-.226418	-.372948	.409597
6	-.016126	-.018097	-.015452	-.029696	.004727	-.020084	-.047901	-.082129	.101698
7	-.020968	-.017073	-.014890	-.026033	-.042440	-.099015	.270488	.437652	-.451802
8	-.014996	-.011589	-.022689	-.029464	-.018368	-.049852	.267791	.429925	-.450539
9-11	-.007601	-.007240	-.005222	-.004014	-.087088	-.119532	.074050	.119259	-.120508
12-14	.002015	.003187	.000575	-.000324	-.019152	-.022990	.041973	.066805	-.064489
15-21	-.002257	-.001926	-.002177	-.003283	-.001402	-.007898	.036266	.058976	-.057607
22-30	.000425	.000918	-.003479	-.003034	.027228	.029439	.015495	.023538	-.019817

RUN NO. 76B 40M 10-24-62 1606-1702 EST  
 301 POINT RUNNING MEAN, 10 POINT BLOCK AVERAGE

NORMALIZED AUTOCOVARIANCE

M	U	V	W	T	N	RHO(W)
	0.43742 10E 00	0.33946 10E 00	0.76535 10E-01	0.41694 10E-02	0.91546 10E-01	0.17328 10E-02
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	.623335	.635149	.224928	.376200	.643960	.715158
2	.354795	.447462	-.072279	.015416	.371659	.465481
3	.264911	.272726	-.001517	-.026904	.227162	.303029
4	.188798	.061441	.018858	-.120358	.049262	.112260
5	.123367	-.019828	-.077857	-.087958	-.055903	-.023797
6	.042947	-.053820	-.092605	-.099567	-.113770	-.096060
7	-.025097	-.089126	-.059047	-.055957	-.120821	-.124258
8	-.152487	-.148363	-.057593	-.133764	-.218198	-.225060
9	-.221260	-.231646	-.115287	-.134879	-.239880	-.255952
10	-.205365	-.373861	-.198621	-.075590	-.232288	-.272087
11	-.294241	-.358401	-.092022	-.096534	-.274504	-.320669
12	-.382183	-.383408	-.068124	-.103035	-.296805	-.347577
13	-.386569	-.314425	-.050373	-.206660	-.357097	-.394474
14	-.384479	-.252919	-.178483	-.232288	-.346438	-.380378
15	-.372984	-.176747	-.057127	-.033056	-.208517	-.265222
16	-.314116	-.142769	.059733	.085389	-.095043	-.155548
17	-.237727	-.140323	.072636	.117255	-.012791	-.067629
18	-.232804	-.148041	.060356	.119017	.067979	.026881
19	-.160168	-.085806	.051496	.082751	.118361	.100331
20	.034260	-.039988	.042237	.058199	.129324	.129967
21	.067002	.032673	.029677	-.010269	.098067	.118778
22	.082861	.101560	-.006801	-.002568	.126274	.151720
23	.173852	.116258	-.017814	.023749	.151205	.179754
24	.231936	.114962	.075957	-.048599	.104335	.152408
25	.256694	.057919	-.058978	.016411	.131249	.171999
26	.239091	.094369	.027044	-.005984	.136988	.174996
27	.236848	.182711	.100354	-.047618	.074481	.110931
28	.154496	.246530	.053495	-.018468	.040950	.063151
29	.113915	.256755	.020610	.123435	.058097	.043059
30	.124280	.288633	.019533	.100551	.028666	-.000498

POWER SPECTRUM

K	U	V	W	T	N	RHO(W)
	10E-01	10E-01	10E-02	10E-03	10E-01	10E-03
0	.036525	.011999	.004736	.001156	.006217	.018201
1	.707843	.441912	.207358	.129255	.092601	.225348
2	.950799	.659787	.435811	.278002	.155040	.348240
3	.720191	.627687	.622428	.411138	.172090	.360423
4	.226321	.333250	.467121	.306966	.089763	.172582
5	.175264	.181113	.279942	.196167	.050968	.096486
6	.194629	.145668	.323734	.282654	.064008	.116420
7	.165940	.179910	.380018	.331657	.059372	.101263
8	.147988	.202788	.320455	.216342	.032298	.053671
9-11	.145562	.074927	.352813	.218114	.025493	.037651
12-14	.113040	.030109	.309499	.130019	.012451	.017472
15-21	.082378	.054126	.366820	.145262	.017508	.026071
22-30	.057615	.058394	.248433	.098169	.010850	.014854

RUN NO. 768 16M 10-24-62 1606-1702 EST  
 RUN NO. 768 40M 10-24-62 1606-1702 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	.375762	.246807	.406224	.448395	.705423	.737601
1	.502295	.578638	.448440	.609247	.640845	.665809
2	.528274	.442683	.539293	.654832	.578125	.579292
3	.483786	.364157	.566827	.638578	.531109	.504262
4	.354660	.376253	.475251	.554804	.448520	.416455
5	.072111	.342395	.202394	.411326	.329095	.303138
6	.170912	.335514	.223253	.271729	.246815	.237098
7-8	.225993	.410069	.172880	.290536	.226461	.229050
9-11	.046795	.304812	.147967	.149321	.197652	.237956
12-15	.187082	.077632	.173767	.097392	.105503	.116092
16-20	.106518	.171253	.141737	.096430	.116242	.114206
21-27	.066028	.198315	.092384	.127794	.112381	.121263
28-36	.102107	.099419	.126524	.181982	.167853	.178613
37-47	.109785	.085174	.161522	.157249	.153711	.135391
48-60	.135902	.102204	.138185	.146741	.132824	.137262

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	.856073	.872170	.794331	.558426	.900433	.897331
1	.870397	.965408	.742023	.526336	.878924	.906212
2	.840233	.921539	.819863	.559003	.895140	.916925
3	.788424	.883023	.759887	.640365	.894715	.915527
4	.745657	.818311	.608821	.676719	.841954	.861412
5	.681193	.586616	.386329	.518988	.822861	.344485
6	.639238	.488279	.207520	.552527	.815970	.826179
7	.548458	.643115	.332299	.654301	.699035	.692798
8	.284232	.711797	.496914	.616796	.535705	.530182
9-11	.591056	.424184	.368070	.680790	.647622	.675198
12-14	.636713	.223865	.692791	.670714	.533197	.481914
15-21	.415486	.420694	.545833	.512708	.507737	.499548
22-30	.289334	.316663	.325096	.366610	.283376	.277046

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13. ABSTRACT This volume contains the data summaries for Runs 66E through 76B. 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	
	ROLE	WT	ROLE	WT	ROLE	WT
Data Summaries						
Vertical Profiles						
Turbulence Statistics						
Mean Wind Speed						
Air Temperature						
Soil Temperature						

INSTRUCTIONS

1. **ORIGINATING ACTIVITY:** Enter the name and address of the contractor, subcontractor, grantee, Department of Defense activity or other organization (*corporate author*) issuing the report.

2a. **REPORT SECURITY CLASSIFICATION:** Enter the overall security classification of the report. Indicate whether "Restricted Data" is included. Marking is to be in accordance with appropriate security regulations.

2b. **GROUP:** Automatic downgrading is specified in DoD Directive 5200.10 and Armed Forces Industrial Manual. Enter the group number. Also, when applicable, show that optional markings have been used for Group 3 and Group 4 as authorized.

3. **REPORT TITLE:** Enter the complete report title in all capital letters. Titles in all cases should be unclassified. If a meaningful title cannot be selected without classification, show title classification in all capitals in parenthesis immediately following the title.

4. **DESCRIPTIVE NOTES:** If appropriate, enter the type of report, e.g., interim, progress, summary, annual, or final. Give the inclusive dates when a specific reporting period is covered.

5. **AUTHOR(S):** Enter the name(s) of author(s) as shown on or in the report. Enter last name, first name, middle initial. If military, show rank and branch of service. The name of the principal author is an absolute minimum requirement.

6. **REPORT DATE:** Enter the date of the report as day, month, year; or month, year. If more than one date appears on the report, use date of publication.

7a. **TOTAL NUMBER OF PAGES:** The total page count should follow normal pagination procedures, i.e., enter the number of pages containing information.

7b. **NUMBER OF REFERENCES:** Enter the total number of references cited in the report.

8a. **CONTRACT OR GRANT NUMBER:** If appropriate, enter the applicable number of the contract or grant under which the report was written.

8b, 8c, & 8d. **PROJECT NUMBER:** Enter the appropriate military department identification, such as project number, subproject number, system numbers, task number, etc.

9a. **ORIGINATOR'S REPORT NUMBER(S):** Enter the official report number by which the document will be identified and controlled by the originating activity. This number must be unique to this report.

9b. **OTHER REPORT NUMBER(S):** If the report has been assigned any other report numbers (*either by the originator or by the sponsor*), also enter this number(s).

10. **AVAILABILITY/LIMITATION NOTICES:** Enter any limitations on further dissemination of the report, other than those imposed by security classification, using standard statements such as:

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11. **SUPPLEMENTARY NOTES:** Use for additional explanatory notes.

12. **SPONSORING MILITARY ACTIVITY:** Enter the name of the departmental project office or laboratory sponsoring (*paying for*) the research and development. Include address.

13. **ABSTRACT:** Enter an abstract giving a brief and factual summary of the document indicative of the report, even though it may also appear elsewhere in the body of the technical report. If additional space is required, a continuation sheet shall be attached.

It is highly desirable that the abstract of classified reports be unclassified. Each paragraph of the abstract shall end with an indication of the military security classification of the information in the paragraph, represented as (TS), (S), (C), or (U).

There is no limitation on the length of the abstract. However, the suggested length is from 150 to 225 words.

14. **KEY WORDS:** Key words are technically meaningful terms or short phrases that characterize a report and may be used as index entries for cataloging the report. Key words must be selected so that no security classification is required. Identifiers, such as equipment model designation, trade name, military project code name, geographic location, may be used as key words but will be followed by an indication of technical context. The assignment of links, rules, and weights is optional.

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