NASA Contractor Report 4045

Study of Wind Change for the Development of Loads Reduction Techniques for the Space Shuttle

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Study of Wind Change for the Development of Loads Reduction Techniques for the Space Shuttle

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I. INTRODUCTION

Wind profile monitoring is an important aspect of pre-launch assessments of Space Shuttle ascent performance and loads variables. A persistent pattern of loads exceedances and a forecast of no change in the wind profile is the basis for a launch postponement. The validity of the postponement is established by assessment of loads based on the wind profile at the scheduled time of launch. The probability of an invalid postponement is decreased as forecasting skill increases. At present, there is no technique other than persistence for forecasting of perturbations in a wind profile. The lack of persistence of a critical perturbation could lead to an invalid postponement. Similarly, the validity of a "go" decision can also be established. An invalid "go" is obviously more important than an invalid "no go" because it could, in the worst case, result in the loss of the vehicle.

The probability of invalid "go" and "no go" decisions can be reduced by development of techniques for reducing wind loads. This can be achieved by improving the technique used for wind biasing. At present, wind biasing of the Space Shuttle launch trajectory is with respect to the monthly mean. More accurate wind biasing could be achieved by utilizing wind profile information obtained on the day of launch. The purpose of this report is to provide information on short term (< 12 hours) changes in the wind profile. This information can be used for establishment of the accuracy of a day-of-launch wind biasing scheme for the Space Shuttle.

The analyses of wind change described in the six sections that follow this introduction are for the most part concerned with Vandenberg Air Force Base. Wind component change profiles are

defined in Section II and examples are presented to illustrate the effect of filtering on wind change. Statistics of wind change within altitude bands listed in Appendix A are described in Section III. A study of the maximum 3.5-hour vector wind change is described in Section IV. A model for wind change at a specified altitude is described and tested in Section V. The statistics of wind change as a function of altitude given in Appendices B and C are described in Section VI. A study of the effect of low-pass filtering on the standard deviation of wind component change is presented in Section VII.

II. PROFILES OF WIND COMPONENT CHANGE

Profiles of wind component change are obtained by subtracting the wind component profile observed at T-X hours from the profile observed at T-0 hours. Thus, the sign of the wind component change is in agreement with the sign convention used in the standard meteorological wind coordinate system; i.e., the zonal component, u, of the wind vector is positive for a west (west to east) wind and negative for an east (east to west) wind. A negative u-component change can be described as an "easterly tendency" which is characterized by a decreasing west wind, or a shift from a west wind to an east wind, or an increasing east wind. Similar descriptions can be made for positive u-component change (westerly tendency), positive v-component change (southerly tendency), and negative v-component change (northerly tendency).

An assessment of the contribution to wind component change by wind perturbations in various wavelength bands has been achieved by analysis of wind change calculated from smoothed profiles. Wind profile smoothing is achieved by application of a low-pass filter. If two wind profiles are smoothed by the same filter, then the difference or wind change between the profiles is also smoothed. Illustrations of the effect of wind profile smoothing on the wind change profile between 9 and 16 km are presented in Figures 1 and 2; each figure contains 12 plots of wind component change observed during a 3.5 hour period at Vandenberg Air Force Base (VAFB). The six plots on the left side of each page are for the u-component change; the right side is for the v-component change. The first plot at the bottom represents wind change that has been calculated from unfiltered profiles. Scanning upward, beginning with the second plot from the bottom, illustrates the effect of an increasing amount of smoothing; the

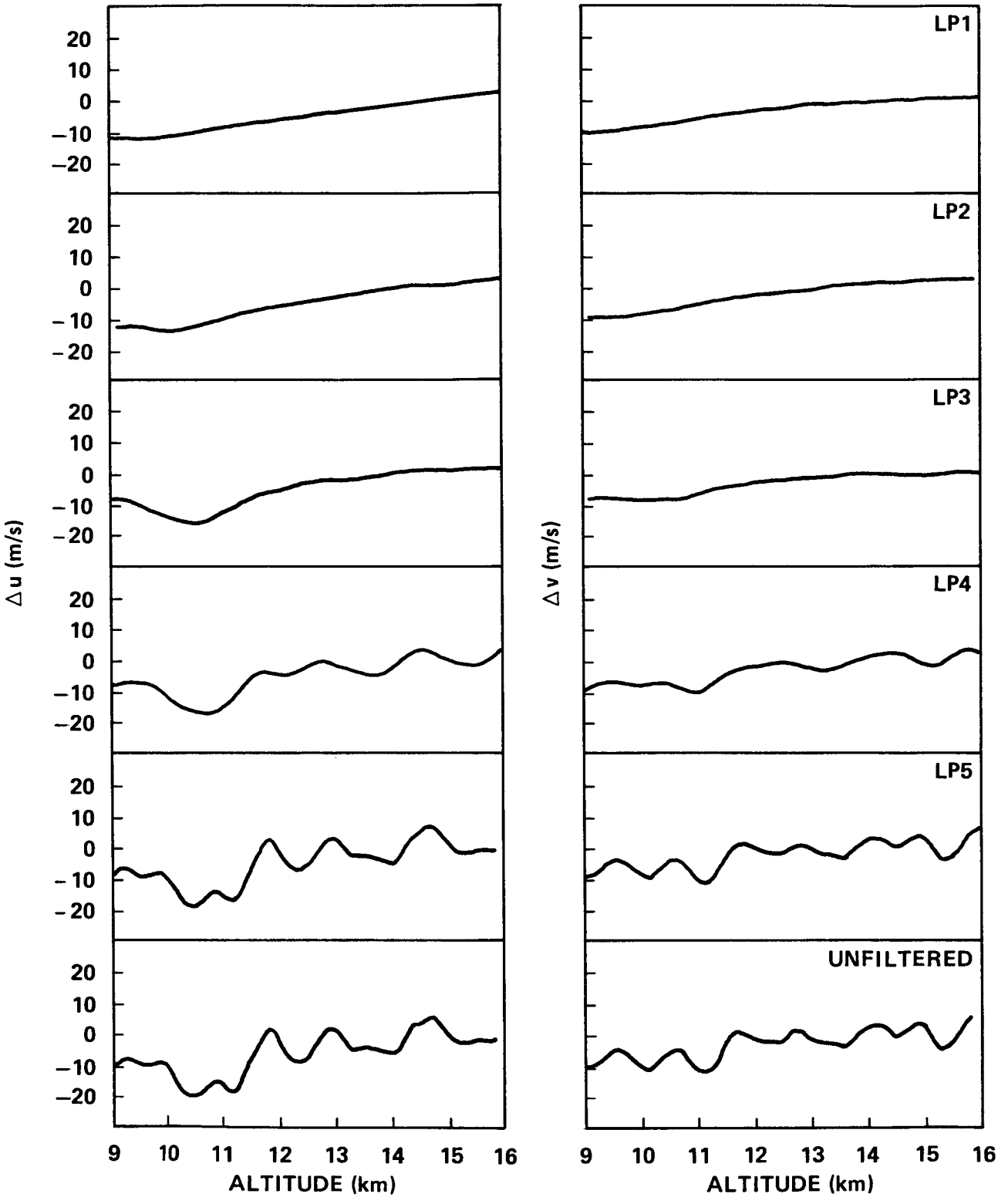

FIGURE 1. WIND COMPONENT CHANGE PROFILES (9- 16 km) CALCULATED FROM UNFILTERED AND LOW-PASS FILTERED VAFB WINTER PROFILE PAIR 22.

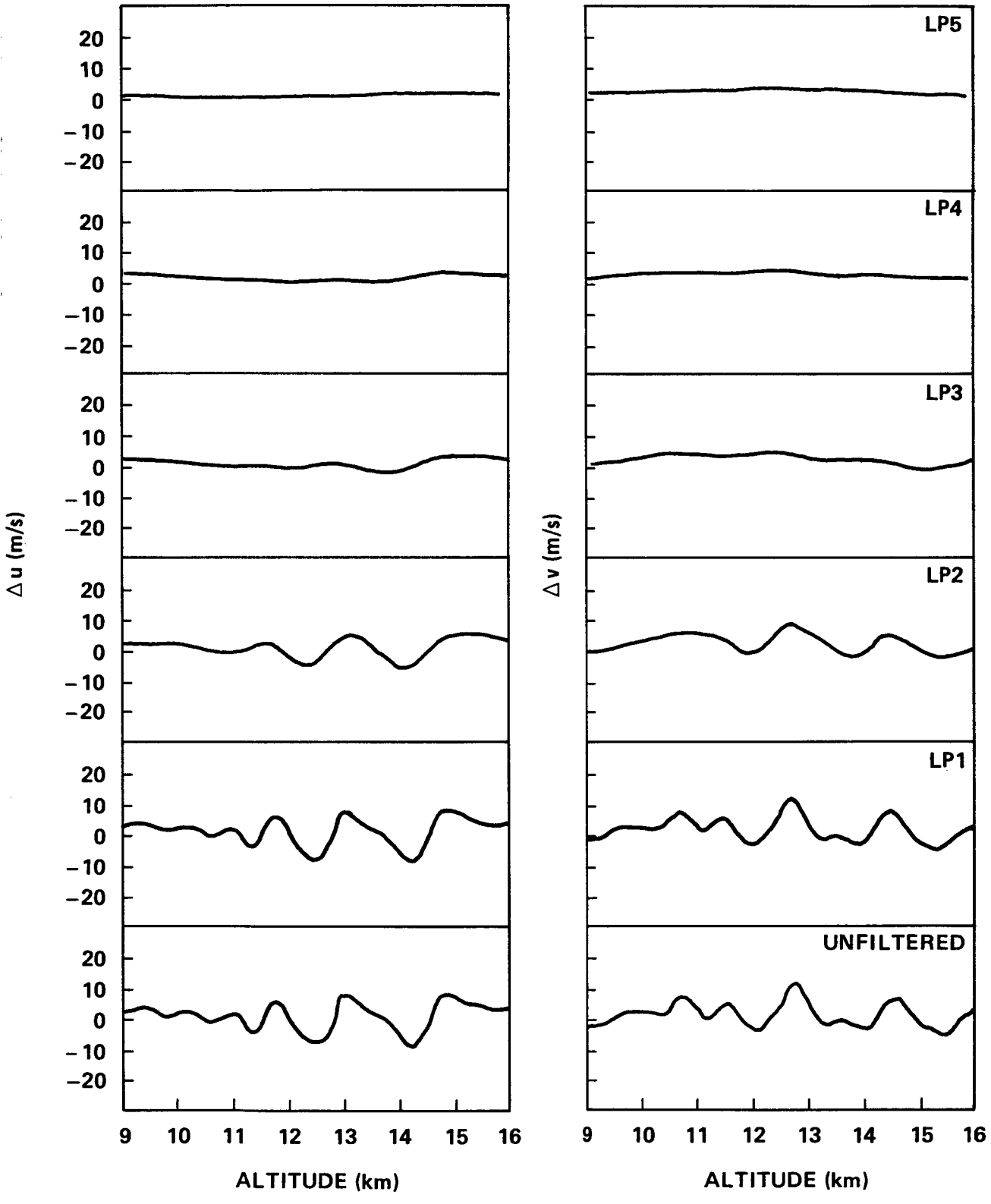

FIGURE 2. WIND COMPONENT CHANGE PROFILES (9–16 km) CALCULATED FROM UNFILTERED AND LOW-PASS FILTERED VAFB WINTER PROFILE PAIR 26.

second through sixth plot were calculated from low-pass filtered wind profiles with nominal cut-off wavelengths, λ_c, of 500, 1500, 3000, 6000, and 9000 m, respectively. The plots in Figures 1 and 2 clearly indicate that wind component change is strongly affected by smoothing the wind profiles.

An examination of the plots across the top of Figures 1 and 2 indicates an important difference between the wind change for profile pair 22 and pair 26. For pair 22 (Figure 1), a significant part of the wind change remains for λ_c = 9000 m; thus, a relatively large contribution to wind change is made by wavelengths greater than 9000 m. In contrast, for pair 26 (Figure 2), very little wind change remains for the maximum smoothing. A measure of the effect on wind change imposed by wind profile smoothing is the percent reduction of variance, VR, in the wind change profile. The results summarized in Table 1 indicate that only 35-48 percent of the component wind change variance is removed by the maximum smoothing (λ_c = 9000 m) of the profile pair 22 (Case I). Thus, a large percentage (52-65) of the wind change variance is attributed to wavelengths larger than 9000 m; it is also indicated that only 30-44 percent of the wind change variance is attributed to wavelengths less than 3000 m. For pair 26 (Case II), 98 percent of the wind change is removed by the maximum smoothing. Thus, nearly all the wind change is attributed to wavelengths less than 9000 m; in addition, 86-88 percent is attributed to wavelengths less than 3000 m. The conclusion drawn from these examples is that large wavelengths can make a significant contribution to wind component change during a 3.5 hour time interval. To establish the extent of this behavior at VAFB, the statistics of variance reduction are examined. The distribution of VR for λ_c = 9000 m is given in Table 2. It is indicated that 3 cases had small VR (< 20 percent), 6 cases had

Table 1. Effect of Filtering on Wind Change in the 9-16 km Altitude Layer. Two Examples: Trend (Case I), No Trend (Case II)

	Low-Pass Filter Cut-Off Wavelength, m	Variance $\sigma_{\Delta u}^2$ (m^2/s^2)	VR(1)	Variance $\sigma_{\Delta v}^2$ (m^2/s^2)	VR
Case I(2)	-	48.7	-	21.9	-
	500	48.7	0	21.7	1
	1500	43.0	12	15.8	28
	3000	34.2	30	12.3	44
	6000	33.2	32	18.4	16
	9000	25.4	48	14.3	35
Case II(3)	-	18.6	-	14.4	-
	500	18.6	0	14.4	0
	1500	10.4	44	8.1	44
	3000	2.6	86	1.7	88
	6000	.90	95	.41	97
	9000	.28	98	.35	98

(1) VR = Percent reduction of variance = 100(1-R)
R = Ratio of wind component change variance obtained from filtered and unfiltered wind profiles

(2) Jimsphere profile pair 22 from the 50-Pair VAFB-winter sample

(3) Pair 26, data base same as in Note (2)

Table 2. Distribution of Variance Reduction, VR, of u-Component Wind Change at VAFB for λ_c = 9000 m, 50 Pairs

VR (Percent) ≥	<	Number of Cases
	0	1
0	10	
10	20	2
20	30	
30	40	
40	50	2
50	60	3
60	70	1
70	80	11
80	90	12
90	100	18

moderate VR ($20 \leq VR < 70$), and 41 cases had large VR (> 70). The contribution to wind change by wavelengths greater than 9000 m is inversely proportional to VR. Therefore, a moderate to large contribution to wind change for $\lambda_c = 9000$ m is indicated in 9 out(4) of 50 cases. The remaining 41 cases indicate a small contribution by large wavelengths. Average values of VR for the 41 case and 9 case subsamples are listed in Table 3.

(4) Pairs 14, 15, 17, 18, 21, 22, 23, 31, 48

Table 3. Mean Percent Reduction of u-Component Wind Change Variance in the 9-16 km Altitude Band as a Function of Low-Pass Filter Cut-Off Wavelength, λ, VAFB, Winter, 50 Pairs

	λ (m)	$\overline{VR}$ (%)
$VR_{9000} > 70$ Percent (41 Cases)	500	2
	1500	26
	3000	55
	6000	77
	9000	87
$VR_{9000} \leq 70$ Percent (9 Cases)	500	1
	1500	14
	3000	32
	6000	25
	9000	30

III. STATISTICS OF WIND CHANGE WITHIN AN ALTITUDE BAND

VAFB, Santa Monica, and Kennedy Space Center (KSC) seasonal data are used for the study of wind change within the 3-9 and 9-16 km altitude bands. The components, Δu and Δv, and the modulus, w, of the wind change vector are calculated at equal altitude increments[5] within the specified altitude band. The statistics calculated for each profile and altitude band include:

- Means, standard deviations, and correlation coefficient of the wind change components
- Mean and standard deviation of vector wind change modulus
- Maximum wind change modulus

The eight statistics for each profile pair of the seven data bases comprise columns 2 through 9 of the data tabulations given in Appendix A. Column 1 contains the profile pair number. If any of the columns of data are scanned vertically, it is obvious that wind change within an altitude band is highly variable from profile pair to profile pair. This is supported by the statistics of w given after the last profile pair; the standard deviations of w and Max w are almost as large as (and in a few cases larger than) the mean of w.

The statistics given in Appendix A were used for the analysis of maximum 3.5 vector wind change described in Section IV.

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(5) 25 m for VAFB Jimsphere data and 1000 m for Santa Monica Rawinsonde data

IV. MAXIMUM 3.5 HOUR VECTOR WIND CHANGE

Vector wind change, w, is defined as the modulus of the wind change vector with components Δu and Δv; thus

$$w = \left((\Delta u)^2 + (\Delta v)^2 \right)^{1/2} \qquad (1)$$

The maximum 3.5 hour vector wind change, WM3.5, in the 9-16 km altitude layer was calculated from the 50 profile pairs of each set of unfiltered and low-pass filtered VAFB winter data. The probability distributions of these sets of maxima are illustrated in Figure 3; note that the largest value plotted is the 98 percentile which is the second largest value of the sample. The largest and second largest values of each data set are listed in Table 4. As shown in Figure 3 and Table 4, the extreme values of WM3.5 change only slightly as λ increases to 3000 m. This supports the hypothesis that systems with inadequate capability to measure small scale perturbations in the wind profile can yield fairly accurate measurements of the largest maximum 3.5 hour wind change. A similar hypothesis is not supported for cumulative probabilities less than .87 because the distributions indicate a steady decrease of WM3.5 with increasing smoothing (increasing λ).

It is noted that the large maxima listed in Table 4 are caused by changes in wind direction rather than changes in wind speed. These large wind changes at VAFB could be attributed to the migration of cold-core closed circulation patterns across California and the southwestern United States during the winter and early spring. When the ten profile pairs[6] containing these

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(6) Pairs 6, 9, 17, 18, 19, 22, 23, 36, 37, 38

large changes are eliminated from the sample, we obtain the distribution of WM3.5 denoted by VAFB40 in Figure 4; for comparison the original distribution (VAFB50) and the distribution based on 65 KSC winter pairs are also plotted. The large difference between VAFB50 and KSC is attributed to four extreme pairs[7] at VAFB. Elimination of the four pairs yields the distribution denoted by VAFB46.

(7) Pairs 17, 23, 36, 38

Table 4. Largest (I) and Second Largest (II) Maximum 3.5 Hour Vector Wind Change, WM3.5, in the 9-16 km Altitude Band for Various Low-Pass Filter Cut-Off Wavelengths, λ

	WM3.5 (m/s)	
λ(m)	I	II
(8)	71.4	43.1
500	71.7	42.9
1500	69.6	42.0
3000	69.2	40.7
6000	67.1	34.6
9000	60.3	27.8

(8) Unfiltered Wind Profiles

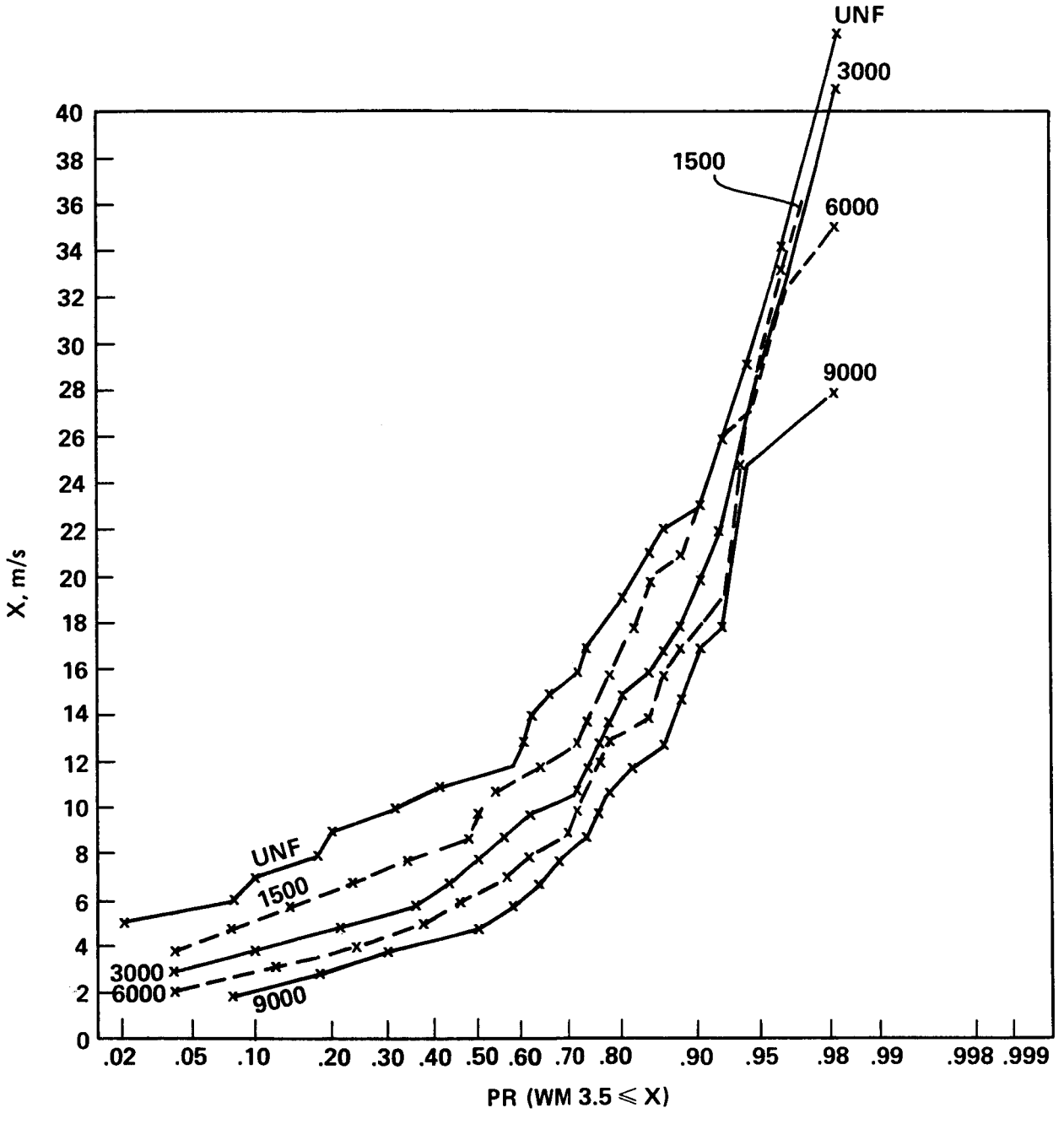

FIGURE 3. EFFECT OF FILTERING ON CUMULATIVE PROBABILITY OF MAX WIND CHANGE, VAFB WINTER ΔT = 3.5 HOURS

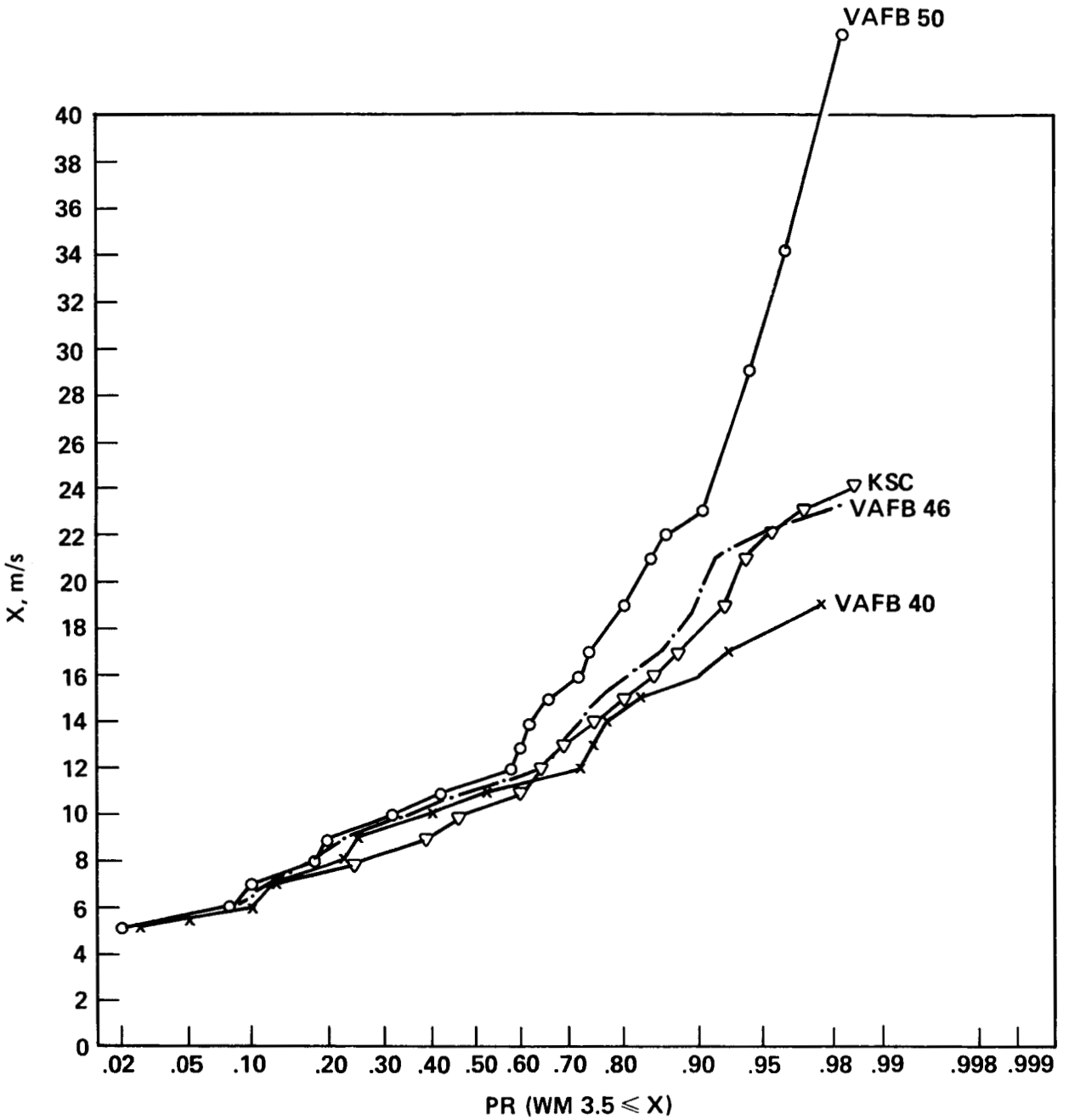

FIGURE 4. CUMULATIVE PROBABILITY DISTRIBUTION OF MAX 3.5 HOUR WIND CHANGE IN THE 9–16 km LAYER

V. A MODEL FOR WIND CHANGE AT A SPECIFIED ALTITUDE

Theoretical probability concepts for analysis of wind change at a specified altitude are described by Smith (Ref. 1). These concepts are applied to a set of VAFB Rawinsonde data by Adelfang (Ref. 2), who derived the monthly quadravariate normal statistics of wind change for time intervals from 12 to 72 hours and altitudes from 0 to 27 km. The components, Δu and Δv, of the wind change vector are each normally distributed with zero mean and standard deviation σ given by

$$\sigma_{\Delta_u}\{\Delta t\} = \sqrt{\sigma_{u_1}^2 + \sigma_{u_2}^2 - 2R_{u_1u_2}\{\Delta t\}\sigma_{u_1}\sigma_{u_2}} \tag{2}$$

$$\sigma_{\Delta_v}\{\Delta t\} = \sqrt{\sigma_{v_1}^2 + \sigma_{v_2}^2 - 2R_{v_1v_2}\{\Delta t\}\sigma_{v_1}\sigma_{v_2}} \tag{3}$$

where u_1 and u_2 are the zonal wind components at time t_1 and t_2, respectively, $\Delta u = u_2 - u_1$, and $\Delta t = t_2 - t_1$. Similarly, v_1 and v_2 are the meridional wind components at time t_1 and t_2. Empirical statistics indicate that $\sigma_{u_1} = \sigma_{u_2} = \sigma_u$ and $\sigma_{v_1} = \sigma_{v_2} = \sigma_v$.

Thus, Equations (2) and (3) become

$$\sigma_{\Delta_u}\{\Delta t\} = \sqrt{2}\,\sigma_u\sqrt{1 - R_{u_1u_2}\{\Delta t\}} \tag{4}$$

$$\sigma_{\Delta_v}\{\Delta t\} = \sqrt{2}\,\sigma_v\sqrt{1 - R_{v_1v_2}\{\Delta t\}} \tag{5}$$

It has been shown that the lag correlation, $R\{\Delta t\}$, decays exponentially with increasing time interval between 12 and 72 hours (Ref. 2).

$$R_{u_1 u_2}\{\Delta t\} = \text{EXP}(-K_u \Delta t) \tag{6}$$

$$R_{v_1 v_2}\{\Delta t\} = \text{EXP}(-K_v \Delta t) \tag{7}$$

By substitution of Equations (6) and (7) into Equations (4) and (5), respectively, we obtain

$$\sigma_{\Delta u}\{\Delta t\} = \sqrt{2}\ \sigma_u\ \sqrt{1 - \text{EXP}(-K_u \Delta t)} \tag{8}$$

$$\sigma_{\Delta v}\{\Delta t\} = \sqrt{2}\ \sigma_v\ \sqrt{1 - \text{EXP}(-K_v \Delta t)} \tag{9}$$

Equations (8) and (9) represent the essential elements of a model for wind change at a specified altitude. Since Δu and Δv are each normally distributed with zero mean, the standard deviation given by Equation (8) or (9) are all that is required for determination of the probability distribution of Δu and Δv for a particular time interval.

An objective of this study is to test an extension of the wind change model to time intervals less than 12 hours. This is accomplished by utilizing the six data bases described in Table 5. The results of the study are illustrated in Figures 5 through 8. The plotted points represent the standard deviations calculated from the data bases listed in Table 5. The vertical lines extending upward and downward from the plotted points are the 95 percent confidence bands of the standard deviations.

The curve in each of the figures is derived from either Equation (8) or (9) and the parameters listed in Table 6. Similar curves can be derived for other months and altitudes between 0 and 27 km by utilizing the data presented in Ref. 2.

For time intervals between 12 and 72 hours, each curve lies within the confidence bands for the VAFB Rawinsonde data. This result, indicating good agreement between oberved and predicted standard deviations, is not surprising because the model and the observations are derived from the same data base. When the model is applied to the six other data bases for time intervals equal to or less than 12 hours, the outcome is somewhat different. Good agreement occurs for five (out of six) data bases for σ_u at 10 km, three for σ_v at 12 km, and none for σ_v at 12 km. Overall, at the two altitudes studied, there is good agreement in 11 out of 24 cases. In 10 of the 13 cases for which there is not good agreement, the model over-estimates the standard deviation.

Table 5. Data Bases Used in VAFB Wind Change Study ($\Delta t \leq 12$ Hours)

Description	Season/Month	Altitude Range (km)	Number of Pairs	Δt(Hr)
1. Jimsphere	Winter	0-20	50	3.5
2. Santa Monica[8]	January	0-27	220	6
3. Santa Monica	Winter	0-27	880	6
4. Jimsphere	Winter	0-20	57	7
5. Santa Monica	January	0-27	186	12
6. Santa Monica	Winter	0-27	724	12

Table 6. Parameters of Equations (8) and (9) Based on January VAFB Rawinsonde Data (1965-74)

Altitude (km)	σ_u(m/s)	K_u(1/s)	σ_v(m/s)	K_v(1/s)
10	18.60	.0179	16.99	.0363
12	18.34	.0146	16.01	.0390

(8) Rawinsonde

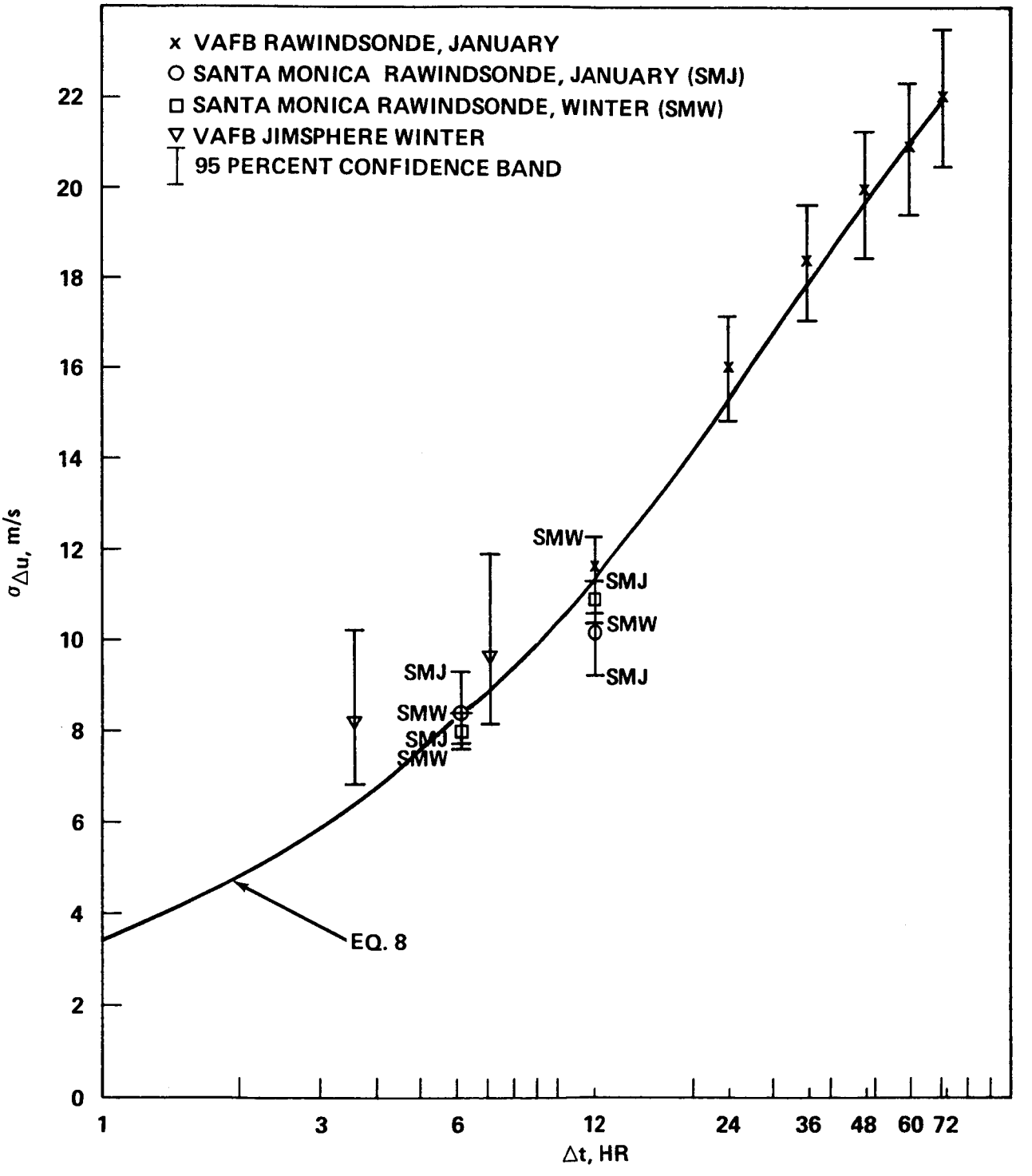

FIGURE 5. STANDARD DEVIATION OF u–COMPONENT CHANGE AT 10 km.

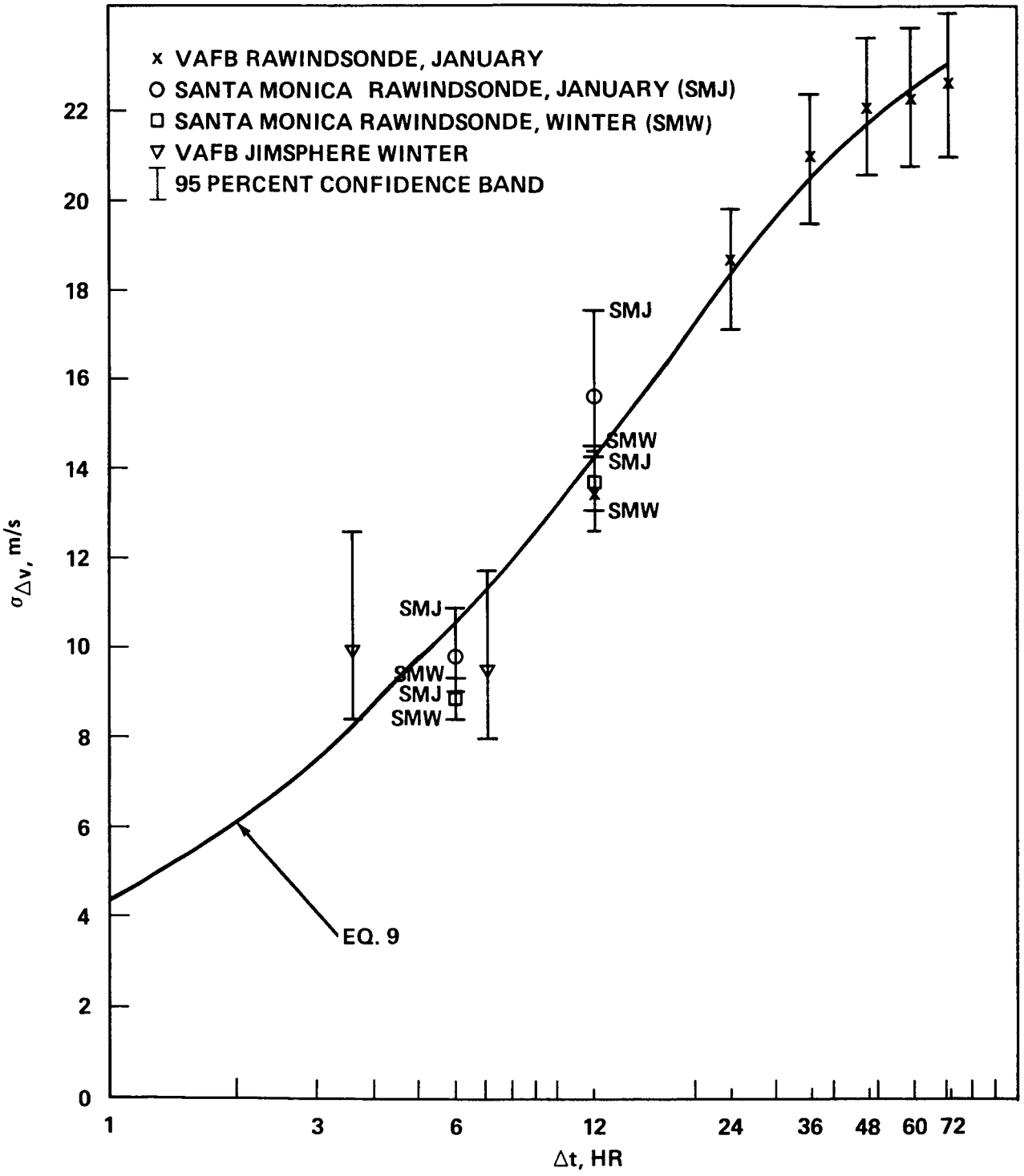

FIGURE 6. STANDARD DEVIATION OF v–COMPONENT CHANGE AT 10 km.

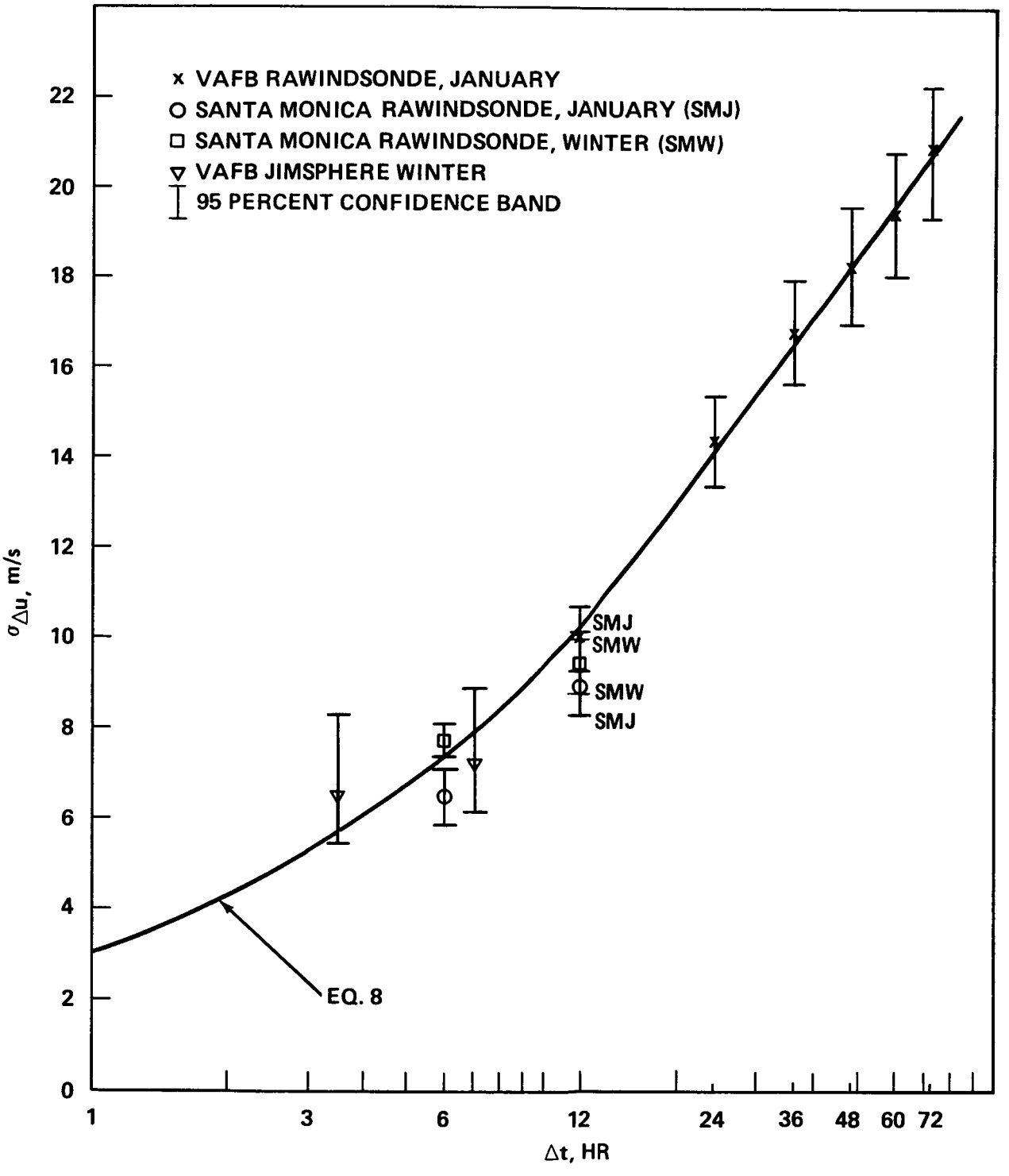

FIGURE 7. STANDARD DEVIATION OF u-COMPONENT CHANGE AT 12 km.

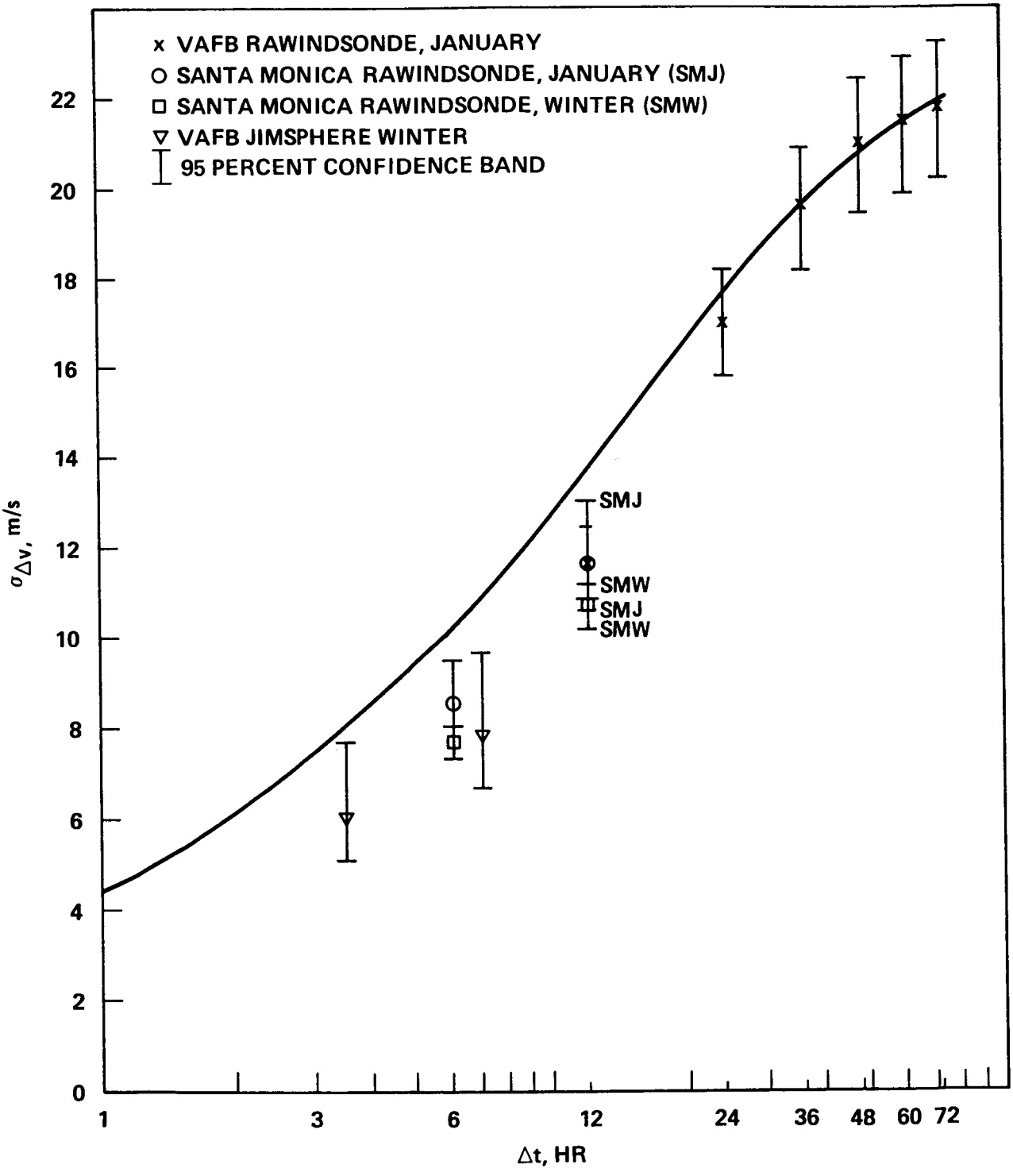

FIGURE 8. STANDARD DEVIATION OF v–COMPONENT CHANGE AT 12 km.

VI. STATISTICS OF WIND CHANGE AS A FUNCTION OF ALTITUDE

The components Δu and Δv of the wind change vector have a bivariate normal distribution which is defined by five parameters. They are the means and standard deviations of components and the correlation coefficient between the components. These parameters are generally known as the bivariate normal (BN) statistics. Appendix B contains the BN statistics for the six data bases described in Table 5; plots of these statistics as a function of altitude are in Appendix C.

VII. THE EFFECT OF LOW-PASS FILTERING ON THE STANDARD DEVIATION OF WIND COMPONENT CHANGE AT A SPECIFIED ALTITUDE

The standard deviation of wind component change has been calculated at .5 km altitude increments from sets of 50 VAFB winter Jimsphere profiles that have been subjected to an increasing amount of smoothing. Profiles of wind component standard deviation are illustrated in Figures 9 and 10. The jagged dashed line in each figure represents the standard deviations of wind change between unsmoothed profiles; the solid line represents standard deviations of wind change between wind profiles that have had the maximum smoothing. The plotted symbols are for an intermediate degree of smoothing. If we examine the effect that smoothing has at specific altitudes, we observe that, at some altitudes, the standard deviation reaches a minimum at some intermediate degree of smoothing. As a result of this behavior, the profile of wind component standard deviation also becomes smoother as wind profile smoothing increases.

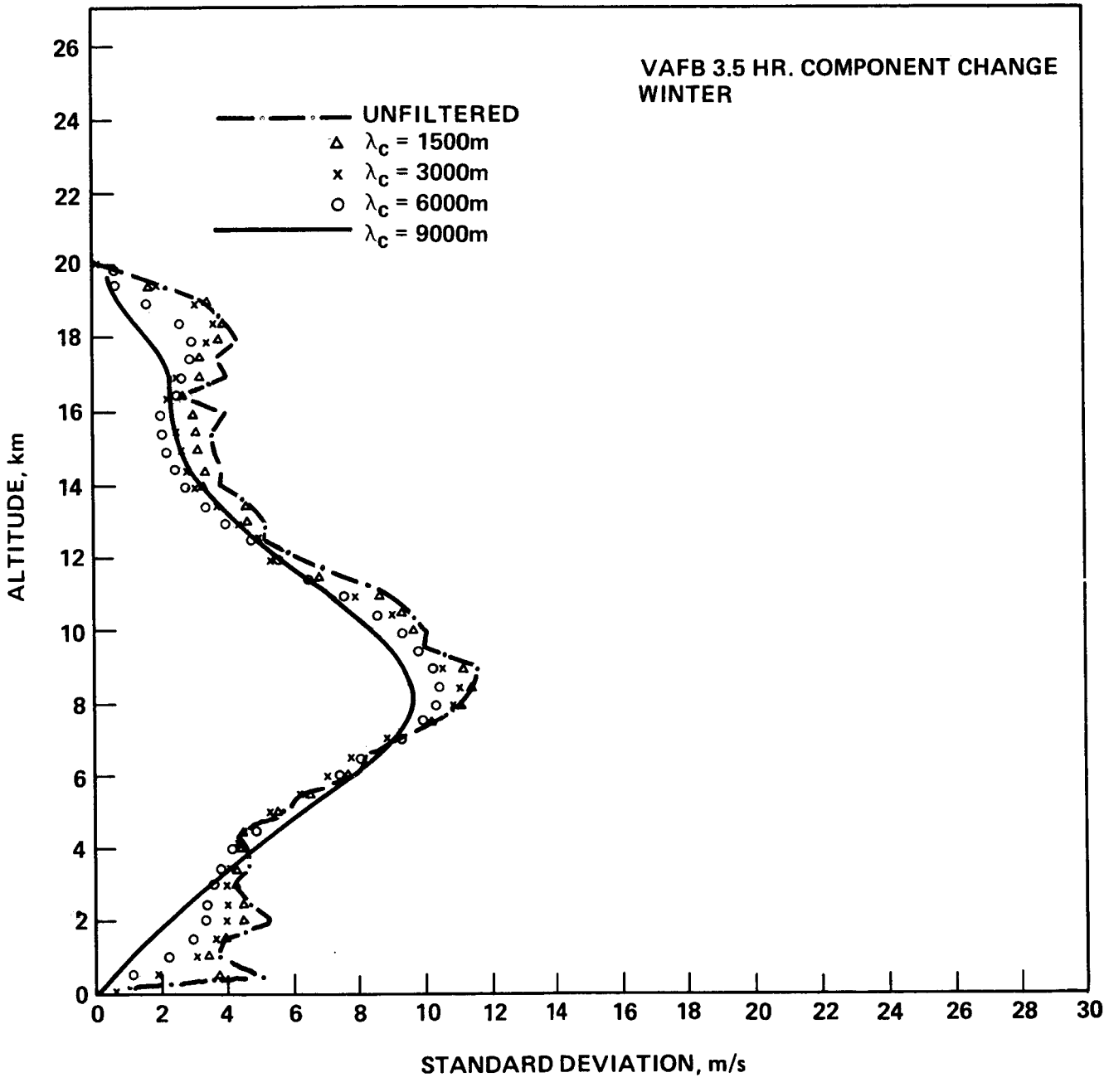

FIGURE 9. STANDARD DEVIATION OF 3.5 HOUR u–COMPONENT CHANGE AS A FUNCTION OF ALTITUDE, VAFB WINTER (50 PAIRS)

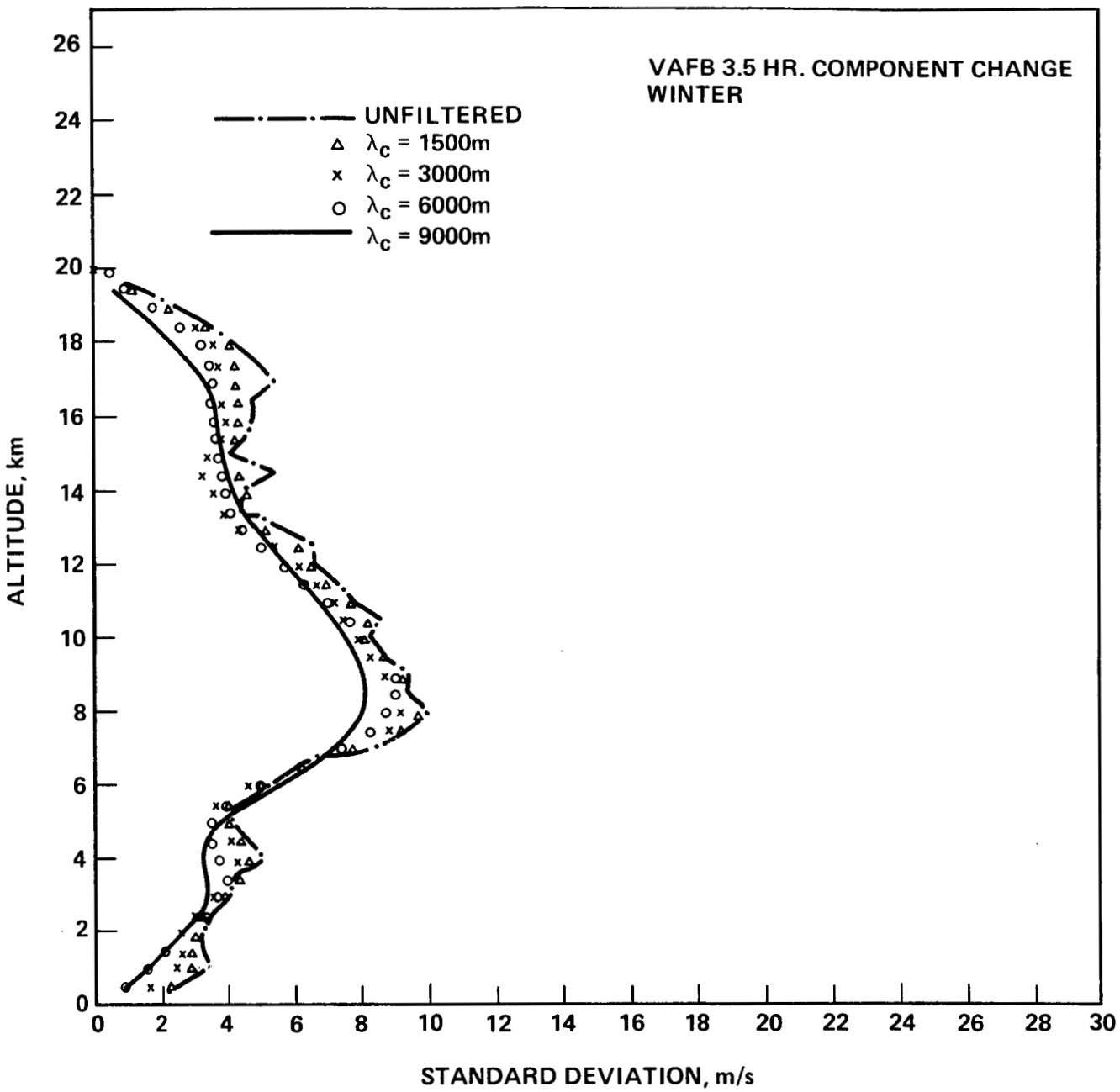

FIGURE 10. STANDARD DEVIATION OF 3.5 HOUR v- COMPONENT CHANGE AS A FUNCTION OF ALTITUDE, VAFB WINTER (50 PAIRS)

VIII. CONCLUSIONS AND RECOMMENDATIONS

The analyses and data in this report can be used in the development of methods for reduction of wind loads on the Space Shuttle during ascent. Wind biasing with respect to the monthly mean wind is part of pre-programmed launch trajectories for various missions. In situations when loads are expected to be near critical levels, methods are sought which would reduce the loads. It has been proposed that loads reduction could be achieved by optimizing the wind biasing scheme. This would be achieved by using a wind bias profile that is more representative of conditions at the time of launch. The wind bias profile would be based on a smoothed low-pass (filtered) version of a wind profile measurement taken no earlier than 3-1/2 hours before launch. The minimum time period prior to launch is required for measurement of the wind profile, derivation of the wind bias profile, and revision of the programmed trajectory. This approach is based on the hypothesis that large wavelength perturbations in the wind profile change slowly with time. The results described in Section II of this report support this hypothesis for a large majority of cases (41 out ot 50). However, in nine cases, smoothing of the wind profiles to eliminate wavelengths less than 9000 m does not reduce the wind change to the desired insignificant amount.

It is recommended that a study be performed to test the method outlined above for optimizing the wind biasing scheme for the Space Shuttle. The study consisting of three tasks listed below would utilize the VAFB winter Jimsphere pairs data and existing trajectory and loads simulation programs. The tasks are:

1. Wind bias with respect to the monthly mean and calculate loads based on the T-O profile

2. Wind bias with respect to the smoothed T-3.5 hour profile and calculate loads based on the T-0 profile

3. Examine results of 1. and 2. on a case-by-case basis.

There is no need for detailed examination of small loads cases. The ideal outcome in 2. would be the reduction of loads in all cases that had moderate to large loads in 1. An inconclusive outcome in 2. would be little or no change in loads. An unacceptable outcome in 2., which would be the basis for rejection of the proposed scheme, would be an increase of the large loads and an increase in the moderate loads to such a degree that they would fall in the large or critical category.

IX. REFERENCES

1. Smith, O.E.: Vector Wind and Vector Wind Shear Models 0-27 km Altitude for Cape Kennedy, Florida, and Vandenberg AFB, California. NASA TMX-73319, July 1976.

2. Adelfang, S.I.: Analysis of Vector Wind Change with Respect to Time for Vandenberg Air Force Base, California. NASA CR-150776, August 1978.

3. Adelfang, S.I.: Analysis of Wind Bias Change with Respect to Time at Cape Kennedy, Florida, and Vandenberg AFB, California. NASA CR-150777, August 1978.

APPENDIX A

Statistics of Wind Change Within the 3-9 km and 9-16 km Altitude Bands

Page numbers for the various data bases are given in the table below. The numbers within the table represent an abbreviation of the actual page number; for example, 'A-10' is entered as '10' in the table.

LOCATION	SEASON	DT (HOURS)	ALT. (KM)	PAGE: LOW-PASS FILTER CUT-OFF WAVELENGTH (M) UNFILTERED	500	1500	3000	6000	9000
VAFB	WINTER	3.5	3-9	2	3	4	5	6	7
VAFB	WINTER	3.5	9-16	8	9	10	11	12	13
VAFB	TRANSITION	3.5	3-9	14	15	16	17	18	19
VAFB	TRANSITION	3.5	9-16	20	21	22	23	24	25
VAFB	SUMMER	3.5	3-9	26	27	28	29	30	31
VAFB	SUMMER	3.5	9-16	32	33	34	35	36	37
VAFB	WINTER	7	3-9	38	*	*	*	*	*
VAFB	WINTER	7	9-16	39	*	*	*	*	*
SANTA MONICA	WINTER	6	3-9	40	*	*	*	*	*
SANTA MONICA	WINTER	6	9-16	55	*	*	*	*	*
SANTA MONICA	SUMMER	6	3-9	70	*	*	*	*	*
SANTA MONICA	SUMMER	6	9-16	85	*	*	*	*	*
KSC	WINTER	3.5	3-9	100	102	104	106	108	110
KSC	WINTER	3.5	9-16	112	114	116	118	120	122
KSC	TRANSITION	3.5	3-9	124	125	126	127	128	129
KSC	TRANSITION	3.5	9-16	130	131	132	133	134	135
KSC	SUMMER	3.5	3-9	136	137	138	139	140	141
KSC	SUMMER	3.5	9-16	142	143	144	145	146	147

(*) Not Included

VAFB,UNFILTERED ,WINTER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-.97	4.10	-5.53	3.90	.016	7.23	3.34	14.02
2	-.59	1.76	.41	1.28	.330	2.07	.98	4.26
3	.84	1.67	1.32	2.55	-.067	3.10	1.44	5.69
4	4.91	2.73	1.13	2.51	.075	5.60	2.77	13.02
5	.35	3.17	.62	6.44	.660	6.35	3.38	12.75
6	1.80	3.94	-12.43	6.13	.232	13.26	5.91	25.66
7	3.16	1.83	-4.11	4.15	-.162	5.89	3.56	15.93
8	2.26	1.82	-.16	1.97	.543	3.15	1.54	6.94
9	1.36	11.30	3.71	3.18	.232	11.53	4.48	18.55
10	-2.22	.96	1.91	1.04	.438	3.16	.76	4.53
11	-.25	1.40	1.39	1.21	-.287	2.09	1.02	4.59
12	1.41	1.06	-3.07	2.17	-.079	3.71	1.86	7.15
13	.90	3.05	1.49	2.76	.465	3.97	2.04	8.03
14	-2.42	1.09	-1.18	1.23	.651	3.06	.75	5.04
15	-1.19	2.55	-.44	2.54	.716	3.52	1.45	7.31
16	2.19	1.98	.16	4.25	.301	4.77	1.98	9.60
17	5.94	4.14	.89	7.28	.468	8.77	5.40	27.76
18	-11.47	5.34	-6.15	1.89	.559	13.25	5.10	19.73
19	-8.83	2.36	-2.52	2.93	.673	9.50	2.89	13.45
20	-2.52	2.38	1.30	1.94	.529	3.80	1.72	8.04
21	.92	1.32	1.28	1.58	-.430	2.21	1.35	5.06
22	-5.34	6.16	-7.78	6.36	.864	10.65	7.34	23.56
23	22.77	22.22	31.55	19.82	.861	41.34	26.28	85.39
24	-2.61	2.50	-2.82	3.08	-.205	5.06	2.20	10.27
25	-.22	1.81	.98	3.23	.151	3.61	1.31	6.37
26	.44	2.12	.64	2.67	.480	3.09	1.64	7.83
27	-.02	4.66	-1.72	1.91	.223	4.88	2.10	11.00
28	1.24	1.76	1.29	1.38	.020	2.73	.86	5.53
29	-3.35	3.37	2.98	2.38	.256	5.57	2.46	11.10
30	5.18	2.82	-.87	1.54	-.171	5.67	2.40	10.33
31	1.35	5.29	-7.43	5.10	-.837	9.40	4.75	16.92
32	-.36	3.23	-3.20	1.61	-.302	4.46	1.87	8.85
33	-5.11	2.29	6.95	2.50	.297	9.00	2.19	13.46
34	-1.46	3.84	3.72	2.56	.065	5.70	2.17	9.89
35	3.07	2.46	-2.95	5.76	-.659	6.66	3.59	12.80
36	-2.67	11.07	.03	5.75	-.396	11.21	6.05	25.02
37	-4.44	4.82	-3.36	7.26	.821	8.06	6.47	20.17
38	-7.71	6.65	-25.05	9.55	.101	26.90	9.93	38.36
39	.21	1.06	.88	.97	.204	1.53	.72	3.12
40	.66	1.50	.75	1.37	-.275	2.02	1.02	4.38
41	-.30	3.05	-.47	2.18	-.550	3.43	1.59	7.49
42	-1.13	2.11	.84	2.90	.065	3.44	1.72	6.82
43	.44	3.25	1.42	1.32	.323	3.18	2.09	9.61
44	-.42	2.12	4.09	3.24	.030	4.80	2.98	15.23
45	-1.34	3.40	.45	3.62	.115	4.60	2.32	11.71
46	1.40	3.22	1.21	4.54	.067	5.44	2.17	11.22
47	-.13	2.80	1.44	2.75	.643	3.38	2.45	10.91
48	.92	3.11	-1.14	1.87	-.053	3.48	1.78	7.53
49	-.99	4.40	-.41	5.42	.585	5.49	4.43	18.12
50	-2.53	3.33	3.41	2.81	.570	5.84	1.68	8.59

MEAN DU(M/S)= -.14
MEAN DV(M/S)= .51
SD DU(M/S)= 6.73
SD DV(M/S)= 8.06
R(DU,DV)= .52
MEAN W(M/S)= 6.61
SD W(M/S)= 8.18
SD MEAN(M/S)= 6.55
MEAN MAXW(M/S)=13.37
SD MAXW(M/S)12.57

VAFB,WL GT 500M .WINTER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-.97	4.12	-5.54	3.92	.012	7.24	3.39	13.99
2	-.60	1.75	.40	1.28	.341	2.07	.95	4.14
3	.83	1.65	1.33	2.55	-.069	3.10	1.43	5.59
4	4.91	2.69	1.13	2.49	.097	5.60	2.72	12.36
5	.35	3.20	.62	6.45	.658	6.38	3.39	12.97
6	1.80	3.96	-12.42	6.15	.234	13.27	5.91	25.57
7	3.16	1.84	-4.12	4.17	.158	5.90	3.58	15.86
8	2.27	1.78	-.16	1.95	.570	3.12	1.54	6.97
9	1.36	11.32	3.71	3.20	.228	11.55	4.47	18.34
10	-2.21	.95	1.91	1.04	.446	3.16	.76	4.45
11	-.25	1.40	-1.39	1.22	.294	2.09	1.02	4.62
12	1.41	1.06	-3.08	2.16	.083	3.72	1.86	7.06
13	.90	3.04	1.49	2.77	.471	3.96	2.06	8.09
14	-2.42	1.09	-1.18	1.22	.667	3.07	.73	4.92
15	-1.18	2.53	-.42	2.54	.723	3.50	1.45	7.19
16	2.18	1.99	.16	4.25	.301	4.77	1.98	9.63
17	5.94	4.12	.88	7.30	.466	8.78	5.40	27.81
18	-11.47	5.34	-6.16	1.89	.564	13.25	5.11	19.88
19	-8.84	2.35	2.52	2.93	.674	9.49	2.89	13.47
20	-2.52	2.37	1.30	1.93	.537	3.80	1.71	7.96
21	.93	1.31	1.28	1.59	-.423	2.20	1.37	5.04
22	-5.34	6.15	-7.78	6.36	.867	10.64	7.35	23.60
23	22.78	22.26	31.56	19.88	.860	41.37	26.34	85.45
24	-2.61	2.52	-2.82	3.07	.201	5.06	2.20	10.00
25	-.22	1.81	.99	3.22	.160	3.60	1.29	6.29
26	.44	2.13	-.63	2.67	.491	3.09	1.65	7.62
27	-.01	4.65	-1.73	1.91	.238	4.87	2.10	10.89
28	1.25	1.72	1.28	1.36	.005	2.71	.81	5.06
29	-3.34	3.39	-2.98	2.39	.256	5.59	2.46	11.22
30	5.18	2.82	-.87	1.55	-.182	5.68	2.40	10.44
31	1.34	5.30	-7.43	5.07	-.845	9.40	4.73	16.78
32	-.37	3.25	-3.20	1.61	-.317	4.47	1.89	9.02
33	-5.11	2.30	6.95	2.50	.296	9.01	2.19	13.33
34	-1.45	3.86	3.72	2.56	.062	5.71	2.17	9.74
35	3.08	2.44	-2.95	5.77	.667	6.67	3.59	12.78
36	-2.67	11.09	.02	5.78	.395	11.23	6.09	25.06
37	-4.44	4.82	-3.36	7.27	.822	8.05	6.50	20.04
38	-7.70	6.66	-25.06	9.56	.097	26.91	9.95	38.34
39	.21	1.05	.89	.95	.222	1.53	.69	2.99
40	.65	1.49	.75	1.35	.285	1.99	1.02	4.11
41	-.29	3.06	-.48	2.17	.565	3.44	1.58	7.47
42	-1.12	2.05	.85	2.90	.085	3.43	1.66	6.65
43	.44	3.26	1.42	1.26	.339	3.18	2.07	9.29
44	-.42	2.10	4.09	3.23	.006	4.80	2.96	14.61
45	-1.34	3.41	-.46	3.63	.115	4.61	2.34	11.61
46	1.40	3.23	1.21	4.58	-.069	5.47	2.19	11.14
47	-.13	2.79	1.43	2.76	-.650	3.38	2.45	10.59
48	.92	3.12	-1.13	1.81	-.052	3.46	1.77	7.76
49	-.98	4.41	.40	5.47	.583	5.50	4.48	18.61
50	-2.53	3.34	3.41	2.76	.585	5.82	1.69	8.80

MEAN DU(M/S)= -.14
MEAN DV(M/S)= -.51
SD DU(M/S)= 6.74
SD DV(M/S)= 8.07
R(DU,DV)= .52
MEAN W(M/S)= 6.61
SD W(M/S)= 8.19
SD MEAN(M/S)= 6.56
MEAN MAXW(M/S)=13.30
SD MAXW(M/S)12.60

VAFB,WL GT 1500M ,WINTER 3HR WIND CHANGE 3.9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V COMPONENT CHANGE MEAN	V COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-.93	3.74	-5.50	3.57	.940	6.86	3.27	12.34
2	-.61	1.53	.38	1.20	.934	1.92	.78	3.78
3	.83	1.38	1.32	2.41	.933	2.96	1.17	5.09
4	4.87	2.09	1.22	2.02	.173	5.42	2.06	9.37
5	.25	2.91	.62	6.17	.718	6.04	3.21	12.20
6	1.78	3.42	-12.44	5.53	.221	13.08	5.40	22.56
7	3.11	1.50	-4.04	3.90	.176	5.68	3.35	13.43
8	2.26	1.57	.16	1.78	.628	2.97	1.38	6.28
9	1.30	11.16	3.73	2.98	.239	11.36	4.40	16.77
10	-2.20	.87	1.83	.98	.440	3.10	.73	4.28
11	-.22	1.31	-1.37	1.01	.236	1.97	.88	3.58
12	1.42	.91	-3.08	2.10	.092	3.67	1.78	6.88
13	.88	2.85	1.50	2.44	.525	3.58	2.06	7.47
14	-2.43	1.00	-1.17	1.13	.706	3.01	.69	4.41
15	-1.15	2.36	.41	2.44	.352	3.38	1.26	5.89
16	2.21	1.65	.19	4.09	.301	4.63	1.69	8.16
17	5.95	4.07	1.02	7.18	.597	8.51	5.66	27.40
18	-11.45	5.30	6.20	1.75	.619	13.23	5.06	19.92
19	-8.89	2.32	-2.51	2.82	.702	9.52	2.82	12.96
20	-2.49	2.09	1.33	1.74	.681	3.55	1.66	7.59
21	.92	1.13	1.28	1.55	.403	2.08	1.35	4.61
22	-5.37	5.98	7.84	6.04	.990	10.41	7.35	21.98
23	22.76	21.84	31.43	19.39	.841	41.09	25.89	84.79
24	-2.63	2.22	-2.80	2.91	.266	4.95	1.89	9.08
25	-.20	1.61	1.01	3.10	.194	3.49	1.00	5.08
26	.43	1.96	-.55	2.49	.607	2.86	1.50	6.37
27	-.04	4.55	-1.75	1.77	.280	4.76	2.05	10.51
28	1.29	1.29	1.30	1.21	.185	2.45	.66	3.51
29	-3.40	3.03	2.96	2.04	.288	5.27	2.43	10.47
30	5.16	2.56	-.87	1.26	.092	5.58	2.11	9.10
31	1.32	5.03	7.35	4.77	.894	9.13	4.53	15.82
32	-.37	2.90	-3.11	1.34	.220	4.20	1.53	7.32
33	-5.09	2.13	6.93	2.40	.325	8.94	2.08	12.73
34	-1.45	3.58	3.67	2.43	.108	5.47	2.07	8.62
35	3.03	2.10	-2.91	5.52	.794	6.41	3.36	11.60
36	-2.64	10.91	.23	5.96	.341	11.36	5.65	23.35
37	-4.45	4.68	3.34	7.07	.849	7.87	6.39	19.51
38	-7.69	6.31	-24.97	9.29	.103	26.75	9.64	37.16
39	.20	.96	.85	.60	.047	1.33	.52	2.07
40	.59	1.22	.72	1.00	.327	1.57	.94	3.39
41	-.25	2.94	.54	1.75	.735	3.18	1.39	6.88
42	-1.13	1.78	.88	2.41	.196	3.05	1.30	5.64
43	.42	3.22	1.50	.98	.422	3.14	1.96	8.25
44	-.42	1.89	4.13	2.47	.125	4.73	2.13	11.06
45	-1.32	3.20	-.42	3.24	.159	4.12	2.37	10.51
46	1.41	3.04	1.18	4.41	.100	5.25	2.09	9.89
47	-.09	2.67	1.41	2.54	.668	3.22	2.27	8.99
48	.89	2.60	-1.17	1.67	.157	2.92	1.77	9.02
49	-1.01	4.18	-.41	4.87	.668	5.13	4.00	16.29
50	-2.49	3.10	3.44	2.58	.647	5.64	1.55	8.67

MEAN DU(M/S)= -.14
MEAN DV(M/S)= -.49
SD DU(M/S)= 6.60
SD DV(M/S)= 7.93
R(DU,DV)= .54
MEAN W(M/S)= 6.42
SD W(M/S)= 8.10
SD MEAN(M/S)= 6.56
MEAN MAXW(M/S)=12.25
SD MAXW(M/S)12.53

VAFB,WL GT 3000M .WINTER 3HR WIND CHANGE 3 9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-.91	2.70	-5.27	2.78	.392	5.97	2.81	11.03
2	-.63	1.24	.44	1.22	.135	1.76	.70	3.58
3	.88	1.26	1.31	2.03	.116	2.57	1.25	4.89
4	4.76	1.42	1.25	1.64	.029	5.17	1.48	8.25
5	.28	1.91	.53	5.27	.863	4.91	2.77	9.16
6	1.67	2.41	12.39	4.81	.152	12.77	4.73	20.44
7	2.99	1.44	-3.88	3.19	.213	5.27	2.90	10.94
8	2.20	1.41	-.25	1.46	.099	2.69	1.33	5.56
9	1.33	10.34	3.70	2.43	.329	10.76	3.49	14.67
10	-2.17	.48	1.96	.89	.226	3.03	.61	4.06
11	-.24	1.29	-1.24	.86	.177	1.84	.77	3.16
12	1.35	.77	3.11	2.04	.180	3.60	1.79	6.36
13	.92	2.76	1.53	1.98	.562	3.32	1.33	7.20
14	-2.43	.82	1.17	.79	.635	2.86	.60	3.74
15	-1.29	2.37	-.51	2.14	.253	3.24	1.26	7.26
16	2.24	1.27	.13	3.87	.471	4.32	1.69	7.00
17	5.99	3.57	1.12	6.51	.459	7.93	5.41	24.14
18	-11.61	5.08	-6.26	1.20	.881	13.30	4.92	19.88
19	-8.86	2.35	-2.42	2.63	.845	9.43	2.76	13.18
20	-2.45	1.74	1.35	1.45	.662	3.36	1.28	6.00
21	.83	.66	1.18	1.33	.775	1.83	.96	3.75
22	-5.28	5.68	-7.69	5.69	.925	9.94	7.26	20.94
23	22.41	20.92	31.26	18.43	.879	40.38	25.00	79.72
24	-2.45	1.50	-2.71	2.92	.623	4.62	1.67	7.84
25	-.11	1.22	1.03	2.91	.156	3.10	1.17	4.70
26	.38	1.62	-.55	1.87	.601	2.31	1.10	4.53
27	-.05	4.30	-1.76	1.42	.049	4.40	2.05	9.45
28	1.30	.83	1.35	.99	.693	2.10	.87	3.28
29	-3.60	2.04	-2.37	1.51	.329	4.92	2.00	8.08
30	5.06	2.46	.86	.86	.203	5.41	1.96	8.67
31	1.28	4.64	7.36	4.65	.964	8.94	4.35	15.30
32	-.23	2.32	-3.07	.94	.191	3.77	1.25	6.71
33	-5.06	1.96	6.93	1.81	.328	8.84	1.61	10.95
34	-1.35	2.97	3.83	1.91	.269	5.02	1.93	8.80
35	2.93	1.84	2.89	5.23	.327	6.08	3.26	11.45
36	-2.27	10.86	.81	5.58	.278	11.30	5.16	19.47
37	-4.69	4.41	3.60	6.89	.920	7.62	6.62	21.37
38	-7.63	5.88	-24.49	9.27	.128	26.24	9.48	34.80
39	.18	.51	.78	.65	.323	1.07	.41	1.74
40	.74	.68	.62	.94	.825	1.45	.43	2.22
41	-.49	2.19	-.45	1.35	.925	2.33	1.27	5.00
42	-1.07	1.50	.67	1.93	.622	2.42	1.32	4.87
43	.60	2.85	1.46	.82	.779	2.98	1.55	6.73
44	-.43	1.64	3.93	1.94	.042	4.43	1.57	7.44
45	-1.42	2.26	.27	2.22	.666	2.95	1.83	7.43
46	1.35	2.42	.93	3.42	-.115	4.16	1.69	6.37
47	.06	2.04	1.55	1.60	.841	2.53	1.64	5.42
48	1.09	2.39	-1.21	1.52	.292	2.80	1.68	7.03
49	-.96	3.76	.34	3.57	.735	4.71	2.36	10.61
50	-2.47	2.87	3.42	2.31	.737	5.42	1.40	7.97

MEAN DU(M/S)= -.15
MEAN DV(M/S)= -.47
SD DU(M/S)= 6.34
SD DV(M/S)= 7.68
R(DU,DV)= .56
MEAN W(M/S)= 6.04
SD W(M/S)= 7.93
SD MEAN(M/S)= 6.53
MEAN MAXW(M/S)=10.86
SD MAXW(M/S)=11.89

VAFB,WL GT 6000M ,WINTER 3HR WIND CHANGE 3.9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV	P	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV	VECTOR WIND CHANGE MAX
1	-.75	1.65	4.94	2.40	.573	5.29	2.34	8.97
2	-.40	.54	.48	.66	.461	.92	.52	1.60
3	1.09	.56	1.22	1.26	.513	2.04	.64	3.10
4	5.02	.75	1.16	.39	.039	5.17	.74	6.98
5	.55	1.86	.51	4.52	.999	4.62	1.76	6.80
6	1.70	1.22	-13.72	2.90	.521	13.91	2.73	16.74
7	3.28	.67	-4.33	2.20	.997	5.65	1.70	8.42
8	1.93	.81	.37	.74	.459	2.15	.63	2.85
9	1.09	10.09	4.80	1.13	.994	10.66	3.62	14.64
10	-2.05	.67	2.00	.40	.330	2.91	.61	3.72
11	.00	.61	1.15	.49	.218	1.32	.44	1.83
12	1.29	.38	-3.14	1.48	.209	3.52	1.21	5.12
13	.86	2.77	1.76	1.57	.850	3.24	1.87	7.20
14	-2.45	.73	1.09	.74	.488	2.83	.53	3.53
15	-1.64	2.53	.86	2.11	.911	2.90	2.42	10.09
16	2.41	.95	.04	3.26	.871	4.05	.94	5.50
17	5.76	4.47	1.15	9.19	.803	9.63	6.78	28.98
18	-11.67	5.13	-6.42	.81	.948	13.47	4.79	22.21
19	-9.09	2.41	-2.27	2.31	.815	9.62	2.52	15.02
20	-2.02	.89	1.67	.60	.733	2.65	.99	3.98
21	.85	.30	.09	.87	.822	1.52	.49	2.42
22	-5.42	5.17	-7.77	5.45	.942	10.25	6.40	17.35
23	22.84	19.96	31.41	16.80	.969	40.40	23.58	71.81
24	-2.47	.70	-2.80	2.65	.798	4.41	1.41	6.65
25	.04	.63	.97	2.27	.425	2.43	.76	3.50
26	.13	1.24	-.74	.90	.222	1.62	.53	2.29
27	-.10	4.27	1.94	1.15	.247	4.69	1.14	7.02
28	1.27	.69	1.72	.32	.159	2.23	.45	2.75
29	-3.54	.91	-2.60	.45	.139	4.44	.78	5.99
30	4.65	2.36	-1.10	1.00	.713	5.15	1.72	7.65
31	1.34	3.86	-7.31	3.88	.971	8.53	3.52	12.80
32	-.02	2.03	-3.03	1.29	.759	3.60	1.41	6.09
33	-5.11	1.42	6.80	1.89	.120	8.65	1.77	10.75
34	-.96	1.30	3.62	2.32	.473	4.46	1.12	5.95
35	2.94	1.70	-2.83	4.47	.998	5.79	2.43	9.04
36	-1.60	9.87	1.06	2.86	.243	9.24	4.84	17.63
37	-4.84	4.42	-3.80	7.01	.932	8.57	5.74	17.24
38	-7.81	5.81	-26.07	8.01	.640	27.55	8.93	36.18
39	.20	.35	.69	.30	.661	.79	.33	1.34
40	.60	.68	.84	.44	.779	1.30	.19	1.65
41	-.51	1.08	-.11	1.59	.962	1.69	1.04	3.86
42	-1.37	1.29	.71	.99	.819	1.96	1.08	3.30
43	.66	1.97	1.28	.31	.615	2.32	.82	3.83
44	-.31	.95	3.67	.91	.427	3.82	.85	5.26
45	-1.56	1.89	-.22	1.07	.869	2.13	1.63	5.64
46	1.83	.76	1.37	1.86	.216	2.93	.81	4.29
47	.19	1.10	1.33	1.01	.934	1.94	.53	2.61
48	.82	.92	-1.37	1.15	.644	1.75	1.28	4.49
49	-1.50	1.83	-.94	1.34	.485	2.50	1.44	5.55
50	-2.74	2.32	3.59	1.59	.932	5.29	.50	6.05

MEAN DU(M/S)= -.13
MEAN DV(M/S)= -.52
SD DU(M/S)= 6.15
SD DV(M/S)= 7.63
R(DU,DV)= .61
MEAN W(M/S)= 5.77
SD W(M/S)= 7.94
SD MEAN(M/S)= 6.78
MEAN MAXW(M/S)= 9.37
SD MAXW(M/S)11.46

VAFB,WL GT 9000M ,WINTER 3HR WIND CHANGE 3 9PM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	VECTOR WIND CHANGE R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-.84	.90	4.64	1.88	527	4.79	1.92	6.94
2	-.31	.23	.40	.49	835	.69	.27	1.12
3	1.25	.97	1.21	.67	127	1.97	.73	4.23
4	5.17	.53	1.40	.20	551	5.36	.54	5.85
5	.46	1.67	.41	2.53	575	2.99	.77	4.25
6	1.87	.49	14.00	2.66	659	14.16	2.56	16.39
7	3.06	.67	4.00	1.81	953	5.22	1.36	7.23
8	1.56	.89	.48	.63	322	1.85	.66	2.56
9	.42	7.74	1.72	.98	549	8.83	2.26	12.66
10	-2.08	.25	2.07	.42	933	2.94	.46	3.41
11	.05	.60	-1.23	.27	977	1.39	.19	1.68
12	1.33	.11	3.29	1.13	295	3.60	.28	4.49
13	1.42	2.55	2.02	1.37	928	3.33	1.85	6.15
14	-2.44	.55	-.90	.83	665	2.76	.30	3.10
15	-1.91	2.35	1.45	2.97	966	3.54	2.74	10.30
16	2.53	.89	.27	2.28	913	3.46	.69	4.45
17	6.51	4.36	2.85	9.65	968	10.86	6.66	26.24
18	-12.68	5.49	6.56	1.34	936	14.35	5.46	23.52
19	-9.48	3.14	-2.13	1.15	877	9.75	3.25	15.80
20	-2.03	.38	1.47	1.01	379	2.69	.46	3.26
21	1.05	.30	.90	.51	881	1.44	.44	2.42
22	-6.25	4.56	-7.97	3.79	955	10.34	5.56	16.08
23	24.25	15.11	33.40	14.26	992	41.79	19.72	64.26
24	-2.59	.35	2.97	2.07	822	4.27	1.07	5.77
25	.00	.36	.88	1.11	121	1.37	.51	2.05
26	.19	.77	.70	.67	423	1.17	.43	1.79
27	-.45	3.26	1.42	1.12	911	3.68	.72	4.83
28	1.16	.45	1.77	.72	915	2.22	.54	3.33
29	-3.72	.87	-2.92	.78	932	4.68	1.12	6.78
30	4.18	1.26	-1.24	.97	905	4.56	.82	5.58
31	1.70	2.94	7.64	2.83	992	8.34	2.87	11.42
32	.30	1.45	2.98	1.01	954	3.33	.99	4.79
33	-5.03	1.17	6.60	1.32	491	8.44	.88	9.53
34	-1.05	.48	3.35	2.72	456	4.16	1.60	6.05
35	3.10	1.15	-2.96	2.56	929	4.68	1.92	6.96
36	-1.05	7.17	1.07	.62	197	6.32	3.74	13.33
37	-4.82	2.73	4.39	5.67	992	8.00	4.26	13.47
38	-8.45	4.34	-26.12	5.88	813	27.61	6.71	33.96
39	.12	.38	.57	.21	921	.70	.20	.92
40	.50	.45	.78	.44	991	1.12	.08	1.34
41	-.52	.71	.04	.38	574	.75	.59	2.20
42	-1.40	.91	.56	.86	919	1.82	.71	2.60
43	.78	1.36	1.53	.44	532	2.07	.85	3.61
44	-.24	.37	3.78	.59	629	3.80	.59	5.03
45	-1.95	1.51	.38	.66	930	2.03	1.59	4.71
46	2.11	.52	1.20	1.12	565	2.64	.67	3.36
47	.18	.58	1.30	.57	973	1.52	.29	1.88
48	.86	.50	1.65	1.32	198	2.03	1.14	4.02
49	-1.73	1.55	-.85	.60	320	2.06	1.49	5.47
50	-2.74	1.04	3.70	1.41	882	4.89	.50	5.83

MEAN DU(M/S)= -.15
MEAN DV(M/S)= -.49
SD DU(M/S)= 5.82
SD DV(M/S)= 7.57
R(DU,DV)= .66
MEAN W(M/S)= 5.53
SD W(M/S)= 7.80
SD MEAN(M/S)= 7.01
MEAN MAXW(M/S)= 8.34
SD MAXW(M/S)10.49

VAFB UNFILTERED WINTER 3HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	2.53	2.50	4.33	2.27	-.478	5.75	1.84	10.55
2	-.49	2.56	.08	2.27	-.416	3.16	1.39	5.57
3	3.59	4.66	3.16	3.63	.245	6.69	3.58	15.21
4	.86	2.36	.34	2.53	-.203	3.19	1.62	7.38
5	-4.65	2.69	-3.21	6.74	.518	8.55	3.38	15.51
6	2.23	5.20	-5.48	6.95	.011	9.17	5.10	20.80
7	.97	3.24	.99	3.31	-.585	4.27	2.25	9.02
8	-.13	2.65	.24	2.72	-.294	3.34	1.81	7.65
9	-3.94	6.63	-.99	5.82	-.306	8.60	4.49	18.19
10	-.37	1.74	.14	1.32	.063	1.96	1.04	4.72
11	.79	2.73	.08	2.41	-.003	3.26	1.80	7.90
12	1.00	2.00	-1.51	2.57	-.226	3.45	1.40	5.88
13	.80	5.31	.48	3.81	.589	5.77	3.17	14.49
14	-1.71	.70	-.17	2.51	.128	2.87	1.22	6.12
15	-3.76	3.77	-5.08	6.57	.590	7.95	5.82	20.54
16	2.19	3.39	-1.18	3.85	.367	5.30	2.08	11.14
17	9.13	6.94	13.48	14.88	.853	17.85	14.68	43.06
18	-15.84	7.92	-6.21	3.30	.661	17.27	8.04	28.02
19	-14.88	3.62	-2.89	2.50	.103	15.36	3.64	22.86
20	-2.62	4.07	-2.48	4.52	.392	5.11	4.89	18.78
21	-1.65	4.51	1.49	3.30	.528	4.89	3.50	14.16
22	-5.27	6.98	-3.13	4.68	.775	8.37	6.17	21.82
23	16.36	11.97	23.90	13.55	.921	29.41	17.34	71.38
24	-.70	3.03	-2.26	3.76	.019	4.92	2.14	9.10
25	2.67	2.40	1.53	2.59	-.214	3.99	2.45	10.63
26	1.01	4.31	1.38	3.80	-.083	5.36	2.68	12.07
27	-1.32	4.21	-.48	5.00	-.236	6.16	2.57	11.34
28	.00	2.27	1.88	3.16	-.440	4.00	1.63	9.08
29	-3.71	2.65	-3.07	3.42	.518	5.61	3.21	11.59
30	8.28	5.96	-2.51	3.31	.474	10.29	3.91	18.53
31	1.61	3.23	-4.52	3.93	-.260	6.46	2.67	13.45
32	-.91	4.20	-3.02	3.60	-.457	5.71	2.81	11.18
33	-5.19	3.83	3.58	4.49	-.120	7.68	3.95	15.78
34	-.63	3.81	-4.33	4.56	-.008	6.11	4.13	16.30
35	-.37	3.89	-.43	2.65	.051	4.08	2.40	10.98
36	1.44	8.13	.73	7.73	.171	8.81	7.11	28.27
37	-2.44	6.19	-4.11	7.04	.521	8.77	5.80	22.59
38	-1.35	7.84	-8.72	8.14	.862	11.56	8.46	33.98
39	-.39	1.63	.49	1.47	.272	2.04	1.02	5.55
40	1.42	3.69	1.59	2.59	-.099	4.50	2.14	8.91
41	-.06	2.79	1.15	3.69	-.088	4.29	2.08	10.85
42	.98	3.28	3.07	3.09	.116	4.94	2.50	9.12
43	-.28	3.31	1.68	3.08	.122	4.30	2.19	9.61
44	-2.29	2.50	1.60	2.11	.158	4.07	1.40	7.28
45	-1.81	3.59	.25	2.21	.300	4.07	2.10	11.64
46	.68	4.76	1.29	2.67	.179	5.03	2.57	11.53
47	1.37	2.56	1.44	2.82	-.059	3.72	2.14	10.33
48	1.10	4.03	-2.19	3.17	-.298	5.03	2.62	11.18
49	-2.23	4.18	-1.81	2.71	.227	5.22	2.39	9.14
50	-3.79	2.95	2.64	2.49	.191	5.44	2.58	11.18

MEAN DU(M/S)= -.44
MEAN DV(M/S)= .06
SD DU(M/S)= 6.53
SD DV(M/S)= 6.80
R(DU,DV)= .50
MEAN W(M/S)= 6.67
SD W(M/S)= 6.68
SD MEAN(M/S)= 4.75
MEAN MAXW(M/S)=15.04
SD MAXW(M/S)11.12

VAFB, WL GT 500M, WINTER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	2.53	2.48	4.33	2.23	-.491	5.75	1.78	10.24
2	-.49	2.53	.08	2.22	-.436	3.14	1.30	5.50
3	3.58	4.71	3.15	3.62	.244	6.70	3.61	14.94
4	.85	2.32	.35	2.41	-.202	3.07	1.60	6.93
5	-4.65	2.64	-3.21	6.74	.536	8.54	3.36	15.09
6	2.23	5.25	-5.48	6.96	.012	9.21	5.11	20.94
7	.96	3.24	.98	3.34	-.596	4.26	2.31	9.21
8	-.12	2.59	.25	2.66	-.317	3.29	1.74	7.40
9	-3.95	6.66	-.99	5.83	.307	8.62	4.53	18.72
10	-.37	1.74	.14	1.27	.049	1.94	1.01	4.55
11	.78	2.74	.08	2.41	-.003	3.27	1.80	7.52
12	1.00	2.00	-1.51	2.56	-.224	3.44	1.41	5.75
13	.80	5.30	.48	3.74	.612	5.68	3.25	14.43
14	-1.71	.69	-.17	2.50	.114	2.86	1.22	6.12
15	-3.76	3.74	-5.09	6.56	.596	7.93	5.84	20.62
16	2.20	3.40	-1.18	3.81	.370	5.30	2.03	10.77
17	9.13	6.96	13.48	14.91	.854	17.86	14.72	42.90
18	-15.83	7.92	-6.21	3.26	.659	17.27	8.02	28.15
19	-14.88	3.57	-2.90	2.44	.103	15.35	3.60	21.97
20	-2.62	4.07	-2.48	4.56	.391	5.11	4.92	18.64
21	-1.66	4.49	1.49	3.29	.527	4.86	3.50	13.97
22	-5.26	6.98	-3.13	4.66	.783	8.32	6.21	21.84
23	16.35	11.97	23.90	13.53	.921	29.41	17.31	71.66
24	-.70	3.03	-2.27	3.78	.018	4.93	2.16	9.14
25	2.68	2.35	1.53	2.54	-.225	3.98	2.37	10.30
26	1.01	4.32	1.37	3.79	-.089	5.37	2.64	11.73
27	-1.33	4.22	-.48	5.00	-.235	6.18	2.55	11.08
28	.00	2.17	1.88	3.05	-.434	3.91	1.50	7.64
29	-3.71	2.47	-3.07	3.29	.582	5.48	3.17	11.91
30	8.28	5.96	-2.51	3.32	.477	10.30	3.89	18.39
31	1.63	3.17	-4.52	3.90	-.267	6.39	2.72	13.05
32	-.91	4.22	-3.01	3.60	-.468	5.71	2.82	10.84
33	-5.19	3.85	3.58	4.52	-.125	7.69	3.98	15.78
34	-.63	3.79	-4.33	4.58	-.002	6.12	4.12	16.18
35	-.37	3.88	-.43	2.63	.059	4.07	2.39	10.90
36	1.44	8.17	.72	7.78	.176	8.84	7.18	28.06
37	-2.45	6.20	-4.11	7.06	.524	8.78	5.82	22.56
38	-1.36	7.86	-8.71	8.14	.868	11.57	8.47	34.08
39	-.38	1.60	.49	1.44	.306	2.02	.97	5.23
40	1.42	3.65	1.60	2.56	-.110	4.47	2.09	8.24
41	-.06	2.73	1.16	3.70	-.098	4.27	2.04	10.74
42	.98	3.28	3.07	3.11	.114	4.95	2.51	9.03
43	-.28	3.28	1.68	3.07	.114	4.28	2.19	9.27
44	-2.29	2.48	1.60	2.06	.147	4.05	1.33	7.10
45	-1.81	3.59	.26	2.08	.331	4.02	2.08	11.47
46	.69	4.78	1.28	2.68	.183	5.04	2.57	11.67
47	1.38	2.56	1.44	2.81	-.054	3.70	2.17	10.30
48	1.11	4.06	-2.20	3.15	-.303	5.06	2.61	10.92
49	-2.24	4.18	-1.80	2.67	.251	5.22	2.36	9.12
50	-3.80	2.85	2.64	2.46	.181	5.40	2.53	9.97

MEAN DU(M/S)= -.44
MEAN DV(M/S)= .06
SD DU(M/S)= 6.53
SD DV(M/S)= 6.80
R(DU,DV)= .50
MEAN W(M/S)= 6.66
SD W(M/S)= 6.69
SD MEAN(M/S)= 4.76
MEAN MAXW(M/S)=14.85
SD MAXW(M/S)11.22

VAFB, WL GT 1500M, WINTER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	2.47	1.85	4.30	1.48	-.405	5.34	1.30	7.69
2	-.50	2.29	.10	1.85	-.592	2.77	1.11	5.04
3	3.59	4.25	3.14	3.24	.205	6.29	3.43	11.89
4	.90	1.93	.31	1.51	-.263	2.49	.82	4.07
5	-4.56	2.45	-3.21	6.49	.598	8.37	3.01	12.93
6	2.28	4.57	-5.43	6.44	.012	8.55	4.88	17.39
7	1.03	2.75	.99	2.88	-.481	3.70	2.04	8.54
8	-.09	2.32	.25	2.33	-.465	2.86	1.62	6.38
9	-3.98	6.31	-1.02	5.20	-.381	8.17	4.10	15.97
10	-.37	1.38	.11	.95	.200	1.58	.67	3.22
11	.76	2.43	.13	2.14	-.075	2.97	1.50	6.05
12	.97	1.52	-1.53	2.38	-.398	3.15	1.15	4.93
13	.83	4.96	.42	3.22	.809	5.08	3.17	12.85
14	-1.68	.60	-.16	2.32	.071	2.73	1.07	5.42
15	-3.79	3.37	-5.08	6.25	.644	7.72	5.56	19.90
16	2.27	2.91	-1.21	3.33	.433	4.90	1.48	7.64
17	9.09	6.65	13.44	14.39	.885	17.44	14.50	42.03
18	-15.83	7.57	-6.21	2.88	.730	17.17	7.75	26.81
19	-14.81	3.27	-2.94	1.80	.057	15.21	3.24	20.59
20	-2.59	3.80	-2.51	3.97	.450	4.72	4.58	15.71
21	-1.66	4.22	1.51	2.91	.524	4.43	3.41	12.18
22	-5.11	6.56	-3.12	3.98	.908	7.50	6.20	20.88
23	16.33	11.61	23.92	13.45	.948	29.26	17.27	69.59
24	-.73	2.51	-2.33	3.51	.075	4.68	1.62	7.96
25	2.62	1.55	1.54	1.86	-.035	3.54	1.58	6.79
26	1.02	3.23	1.35	2.85	-.211	4.36	1.54	7.52
27	-1.32	3.88	-.51	4.81	-.223	5.89	2.31	11.01
28	-.04	1.50	1.90	2.51	-.350	3.27	1.22	5.64
29	-3.73	1.97	-3.00	3.02	.759	5.16	3.05	11.32
30	8.26	5.59	-2.52	2.43	.637	9.98	3.48	16.07
31	1.66	2.55	-4.52	3.56	-.330	5.85	2.85	11.59
32	-.82	3.77	-3.03	3.10	-.558	5.40	2.12	9.36
33	-5.18	3.05	3.66	3.76	-.255	7.21	3.42	12.43
34	-.58	3.19	-4.33	4.19	-.018	5.59	3.94	13.65
35	-.38	2.88	-.44	1.90	-.127	3.15	1.51	7.32
36	1.44	7.62	.58	6.54	.189	7.91	6.36	25.27
37	-2.36	5.67	-4.06	6.85	.555	8.35	5.58	22.06
38	-1.32	7.49	-8.75	7.98	.888	11.30	8.39	32.95
39	-.32	1.34	.52	1.09	.566	1.66	.76	3.26
40	1.43	2.91	1.60	1.97	-.410	3.80	1.56	6.04
41	-.09	2.39	1.19	3.29	-.118	3.93	1.56	8.14
42	.98	2.76	3.03	2.65	.231	4.57	1.94	8.85
43	-.30	2.97	1.68	2.86	.109	3.98	2.00	8.07
44	-2.27	2.25	1.60	1.79	.047	3.81	1.20	6.08
45	-1.77	3.46	.21	1.42	.569	3.65	1.94	10.36
46	.63	4.55	1.27	2.30	.178	4.63	2.55	11.25
47	1.40	2.23	1.45	2.20	.002	3.27	1.77	8.85
48	1.13	3.69	-2.12	2.89	-.274	4.75	2.26	10.32
49	-2.14	3.98	-1.72	2.29	.364	4.79	2.38	8.25
50	-3.83	2.42	2.63	2.27	.079	5.22	2.29	8.63

MEAN DU(M/S)= -.42
MEAN DV(M/S)= .06
SD DU(M/S)= 6.26
SD DV(M/S)= 6.54
R(DU,DV)= .54
MEAN W(M/S)= 6.24
SD W(M/S)= 6.58
SD MEAN(M/S)= 4.81
MEAN MAXW(M/S)=13.13
SD MAXW(M/S)11.20

VAFB, WL GT 3000M, WINTER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	2.43	1.13	4.13	1.15	.107	4.90	1.24	6.42
2	-.48	2.11	.06	1.41	-.692	2.41	.93	4.11
3	3.50	2.56	3.15	2.43	.490	5.12	2.91	10.96
4	1.10	1.20	.31	.95	-.253	1.81	.60	3.59
5	-4.53	2.27	-3.33	5.61	.616	7.58	3.27	12.59
6	2.16	2.73	-5.29	5.77	.232	7.23	4.59	15.63
7	1.14	2.07	1.01	1.68	-.173	2.85	1.12	5.30
8	-.08	1.98	.34	1.93	-.594	2.45	1.33	5.05
9	-4.04	5.10	-1.09	3.33	-.702	5.87	4.47	13.84
10	-.42	1.08	.15	.61	.302	1.18	.59	2.37
11	.88	1.11	-.01	1.79	.026	2.07	.94	3.94
12	.96	1.05	-1.47	2.26	-.777	2.81	1.16	4.74
13	.73	4.30	.34	2.68	.961	4.49	2.47	9.03
14	-1.65	.61	-.09	2.01	.133	2.54	.81	4.05
15	-3.69	2.84	-5.01	5.75	.670	7.40	5.00	15.42
16	2.28	1.35	-1.10	2.66	.636	3.80	.90	5.43
17	9.21	5.99	13.27	14.01	.922	17.20	14.05	40.71
18	-15.68	7.30	-6.25	2.13	.928	16.94	7.48	26.31
19	-14.67	3.12	-2.83	1.53	.028	15.04	3.03	19.43
20	-2.51	3.16	-2.54	2.51	.629	4.36	3.16	10.67
21	-1.68	4.05	1.58	2.69	.531	4.28	3.25	11.81
22	-5.15	5.85	-3.32	3.50	.961	6.83	6.12	17.60
23	16.47	11.30	23.89	13.52	.972	29.17	17.37	69.17
24	-.85	1.52	-2.25	2.09	.378	3.18	1.52	7.58
25	2.49	1.27	1.57	1.66	-.148	3.31	1.44	5.51
26	.94	1.61	1.45	1.30	-.670	2.62	.61	3.79
27	-1.18	3.20	-.48	4.13	-.282	4.89	2.23	9.37
28	-.02	.81	1.90	2.13	-.602	2.80	.98	4.21
29	-3.66	1.56	-2.94	2.84	.862	4.96	2.83	9.96
30	8.42	5.25	-2.47	1.52	.896	9.82	3.21	14.37
31	1.56	2.46	-4.44	3.06	-.406	5.37	2.95	10.43
32	-.65	2.65	-3.00	2.06	-.642	4.32	1.42	7.04
33	-5.09	1.82	3.71	2.38	-.676	6.54	2.42	10.82
34	-.60	2.42	-4.47	2.78	-.382	5.17	2.69	10.66
35	-.35	2.11	-.47	.95	-.615	1.98	1.33	4.68
36	1.03	6.10	.36	4.53	-.064	6.64	3.84	16.96
37	-2.01	4.14	-3.86	5.57	.464	6.26	5.28	21.36
38	-1.40	7.08	-8.89	7.41	.894	10.61	8.56	31.33
39	-.30	1.00	.50	.75	.516	1.29	.47	2.38
40	1.34	2.34	1.55	.90	-.622	2.99	1.22	5.33
41	.03	1.73	1.11	2.28	.019	2.93	.90	4.31
42	.92	2.16	3.09	1.65	.410	4.06	1.12	6.67
43	-.33	2.51	1.72	2.49	.280	3.63	1.52	6.15
44	-2.23	2.04	1.68	1.44	.070	3.60	1.02	5.71
45	-1.61	2.92	.07	1.19	.805	2.82	2.14	7.35
46	.60	3.76	1.41	1.63	.116	3.89	2.00	8.11
47	1.41	1.49	1.39	1.68	-.470	2.79	1.07	5.22
48	.74	1.51	-2.06	2.04	.078	3.00	1.47	6.97
49	-2.11	3.85	-1.75	1.81	.483	4.24	2.76	8.91
50	-3.78	2.21	2.60	1.50	-.228	4.87	2.11	8.10

MEAN DU(M/S)= -.41
MEAN DV(M/S)= .06
SD DU(M/S)= 5.87
SD DV(M/S)= 6.17
R(DU,DV)= .59
MEAN W(M/S)= 5.54
SD W(M/S)= 6.48
SD MEAN(M/S)= 4.90
MEAN MAXW(M/S)=11.23
SD MAXW(M/S)11.23

VAFB, WL GT 6000M, WINTER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	2.34	1.27	4.03	1.32	.946	4.70	1.70	6.80
2	-.59	1.23	.12	.56	-.379	1.29	.72	2.67
3	3.68	1.79	3.40	1.51	.853	5.11	2.13	8.50
4	1.10	1.02	.42	.72	.144	1.51	.81	3.52
5	-4.69	2.03	-3.66	3.58	.829	6.37	3.42	11.31
6	2.38	1.03	-4.97	5.16	.144	6.40	4.13	15.33
7	1.34	.86	1.13	.79	-.146	1.92	.86	4.18
8	-.24	1.40	.04	1.60	-.728	2.03	.66	3.42
9	-4.22	4.52	-1.72	1.76	-.704	5.36	3.94	13.61
10	-.61	.53	.09	.45	.221	.86	.33	1.51
11	.88	.49	-.16	1.32	.283	1.53	.65	2.59
12	1.15	.54	-1.74	2.17	-.758	2.77	1.30	4.45
13	.87	3.66	.40	2.18	.984	3.78	2.17	7.42
14	-1.56	.82	-.09	1.35	.037	2.07	.82	3.16
15	-3.58	2.61	-5.16	4.77	.882	6.87	4.67	13.30
16	2.18	1.46	-1.00	2.22	.638	3.52	.65	5.36
17	9.63	5.42	12.94	11.49	.986	16.51	12.20	34.64
18	-16.49	6.92	-6.23	2.27	.978	17.64	7.24	26.14
19	-15.21	1.92	-2.76	1.07	.623	15.49	1.98	18.31
20	-2.79	1.75	-2.66	1.40	.927	3.88	2.20	7.57
21	-1.84	3.97	1.72	1.81	.575	4.39	2.46	8.89
22	-5.58	5.77	-3.46	4.29	.989	7.54	6.16	17.34
23	17.62	12.65	24.83	14.70	.986	30.53	19.27	67.06
24	-.81	1.11	-2.34	1.30	.714	2.68	1.36	5.94
25	2.60	.77	1.82	1.18	.447	3.28	1.13	4.99
26	.91	.95	1.77	.64	-.729	2.26	.40	2.86
27	-1.16	2.44	-.41	2.71	-.855	3.40	1.80	6.85
28	.15	.65	1.85	2.06	-.302	2.72	.85	4.01
29	-3.95	1.35	-3.10	2.34	.967	5.16	2.42	8.65
30	9.27	4.43	-2.36	.78	.937	9.95	3.59	13.80
31	1.53	2.88	-4.98	2.95	-.917	5.82	3.21	11.07
32	-.68	1.75	-2.91	1.12	-.404	3.44	1.19	6.08
33	-5.49	.59	3.93	1.32	-.495	6.82	1.05	8.28
34	-.78	1.08	-4.54	1.74	-.689	4.81	1.51	7.23
35	-.03	1.80	-.67	1.45	-.902	2.05	1.26	5.63
36	1.06	5.59	.37	1.73	-.761	5.08	3.10	12.85
37	-1.83	2.17	-3.91	4.82	.380	5.12	4.51	16.75
38	-1.15	5.82	-8.99	7.52	.975	10.23	8.23	31.24
39	-.30	.82	.64	.36	.585	1.11	.27	1.58
40	1.55	1.50	1.57	.62	-.389	2.65	.72	3.82
41	.33	1.03	.97	1.08	-.450	1.70	.59	2.62
42	1.03	1.25	3.39	.94	.041	3.81	.67	4.66
43	-.20	1.85	1.87	2.11	.926	3.21	1.05	4.64
44	-2.47	1.05	1.59	.85	.803	3.22	.28	3.65
45	-1.47	2.47	-.03	.95	.959	2.71	1.35	5.49
46	.09	2.04	1.44	1.21	.274	2.55	1.10	4.68
47	1.33	.85	1.63	.85	-.043	2.29	.81	3.36
48	.70	1.69	-1.98	2.92	.791	3.65	1.56	9.42
49	-1.93	3.07	-1.50	.60	.471	3.44	1.99	6.58
50	-3.72	1.71	2.72	1.50	-.538	4.73	2.00	6.82

MEAN DU(M/S)= -.39
MEAN DV(M/S)= .07
SD DU(M/S)= 5.86
SD DV(M/S)= 6.00
R(DU,DV)= .64
MEAN W(M/S)= 5.20
SD W(M/S)= 6.59
SD MEAN(M/S)= 5.17
MEAN MAXW(M/S)= 9.81
SD MAXW(M/S)10.88

VAFB, WL GT 9000M, WINTER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	2.19	.79	3.61	1.17	.975	4.23	1.40	5.85
2	-.67	.60	.26	.31	-.247	.83	.53	1.74
3	3.39	1.87	3.31	.90	.947	4.86	1.75	7.20
4	1.25	.83	.32	.86	.676	1.56	.80	3.64
5	-4.71	1.23	-3.39	1.40	.775	5.85	1.70	8.16
6	2.46	.54	-5.61	4.65	.443	6.63	3.92	14.94
7	1.83	.74	.76	.25	.025	2.01	.70	3.90
8	.08	1.19	.37	.50	.153	1.17	.65	2.93
9	-4.37	2.71	-1.49	1.26	-.760	4.96	2.36	9.72
10	-.73	.44	.11	.54	-.677	.92	.44	1.68
11	.82	.42	-.17	.96	-.184	1.27	.44	1.97
12	1.24	.30	-1.88	1.96	-.872	2.63	1.45	4.49
13	.67	2.50	.42	1.51	.986	2.57	1.59	6.01
14	-1.56	1.02	-.15	.65	.169	1.81	.79	2.67
15	-3.36	2.51	-4.92	3.16	.911	6.18	3.69	11.28
16	2.14	1.51	-.88	1.39	.740	3.00	.72	4.25
17	9.71	3.83	12.29	6.97	.990	15.73	7.83	27.78
18	-16.86	5.19	-6.87	1.32	.858	18.25	5.20	24.91
19	-15.32	1.88	-2.83	1.11	.971	15.60	2.02	17.69
20	-3.27	.85	-2.66	.40	.819	4.23	.87	5.66
21	-2.05	3.37	1.75	1.34	.719	4.24	1.54	6.87
22	-5.40	5.04	-3.89	3.78	.989	7.28	5.56	16.08
23	18.54	10.98	25.81	12.96	.998	31.83	16.90	60.25
24	-1.00	.76	-2.62	.61	.585	2.88	.74	4.92
25	2.73	.83	1.70	.70	.170	3.28	.87	4.31
26	.92	.53	1.49	.59	-.762	1.90	.31	2.36
27	-1.07	1.59	-.68	1.46	-.852	2.34	.87	4.62
28	-.20	1.20	1.93	1.53	.751	2.53	1.07	3.77
29	-4.00	1.18	-3.19	1.43	.888	5.15	1.76	7.52
30	9.68	3.12	-2.33	.51	.794	10.07	2.79	12.63
31	1.24	3.03	-5.29	2.93	-.973	6.24	2.88	10.55
32	-.59	.88	-3.06	.92	-.294	3.23	.93	4.67
33	-5.91	.29	4.26	.68	-.706	7.30	.58	8.29
34	-1.25	1.30	-4.26	.84	-.882	4.68	.42	5.21
35	-.05	1.83	-.93	1.43	-.992	2.27	1.04	4.80
36	1.48	3.27	.48	1.08	-.860	3.07	2.21	8.36
37	-2.26	.71	-4.28	2.85	.479	4.99	2.68	12.05
38	-1.51	3.69	-10.45	6.55	.981	10.85	7.07	27.81
39	-.25	.50	.82	.32	.789	1.02	.21	1.61
40	1.67	.72	1.62	.34	.144	2.39	.54	3.06
41	.34	.76	.93	.85	-.814	1.36	.64	2.33
42	.96	1.23	3.46	.61	-.274	3.82	.38	4.20
43	-.21	1.74	1.69	1.71	.980	2.82	.93	4.09
44	-2.55	.83	1.60	.68	.917	3.18	.30	3.68
45	-1.36	1.95	-.01	.65	.969	2.14	1.23	4.62
46	.07	1.03	1.66	.70	-.004	1.99	.60	3.00
47	1.36	.69	1.67	.43	.123	2.23	.57	2.68
48	1,36	2.57	-1.11	4.11	.982	4.58	2.35	11.85
49	-1.74	2.08	-1.46	.46	.668	2.65	1.65	5.55
50	-3.56	1.31	2.84	1.49	-.884	4.59	1.90	6.64

MEAN DU(M/S)= -.39
MEAN DV(M/S)= .02
SD DU(M/S)= 5.66
SD DV(M/S)= 5.74
R(DU,DV)= .65
MEAN W(M/S)= 5.02
SD W(M/S)= 6.32
SD MEAN(M/S)= 5.40
MEAN MAXW(M/S)= 8.50
SD MAXW(M/S) 9.74

VAFB,UNFILTERED , TRANS 30R WIND CHANGE 3.9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V COMPONENT CHANGE MEAN	V COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.77	1.67	2.18	1.94	.132	2.98	1.73	7.43
2	1.52	1.79	.21	1.20	.198	2.23	1.42	6.51
3	-1.59	1.97	.86	2.86	.159	3.68	1.31	7.57
4	-.01	1.40	.07	1.25	.474	1.71	.78	3.48
5	-2.18	4.65	.11	4.60	.706	6.18	3.04	15.20
6	-12.47	3.84	-7.72	4.36	.644	15.04	4.75	22.70
7	-1.64	1.26	1.95	2.22	.591	3.35	1.31	6.26
8	-1.75	1.32	.02	1.37	.065	2.39	.97	4.46
9	-1.93	2.39	.48	1.99	.100	3.20	1.83	7.91
10	3.32	2.16	2.94	.95	.266	4.82	1.40	6.90
11	-2.52	2.38	1.30	1.94	.529	3.80	1.72	8.04
12	.21	1.17	2.72	1.61	.057	3.04	1.48	6.03
13	-6.80	4.63	6.32	6.21	.671	10.12	6.62	19.01
14	-1.82	2.97	2.16	2.10	.394	3.60	2.87	12.78
15	9.37	2.56	8.16	8.31	.262	14.41	4.71	21.65
16	-.67	1.24	.52	1.36	.044	1.86	.80	3.29
17	.94	2.24	2.14	2.28	.382	3.54	1.78	6.93
18	.45	2.87	1.03	1.99	.694	2.83	2.32	11.11
19	.81	2.50	1.39	2.10	.267	3.27	1.60	6.42
20	.70	1.72	2.25	3.75	.697	3.52	3.19	18.66
21	1.62	5.30	4.08	5.63	.345	8.55	2.39	17.85
22	-1.48	3.99	-3.21	7.42	.419	7.71	4.88	18.43
23	.70	3.06	1.47	4.83	.327	5.60	1.98	9.19
24	4.38	1.69	2.43	2.19	.310	5.51	1.51	8.70
25	-1.00	1.79	.82	3.11	.032	3.40	1.72	6.70
26	-2.07	1.29	1.90	2.26	.240	3.45	1.65	7.07
27	-3.03	3.60	.33	1.88	.181	4.26	2.75	10.29
28	1.08	1.28	1.93	2.52	.276	3.16	1.70	9.41
29	-.96	.93	.65	1.57	.423	1.71	1.34	6.56
30	.20	1.73	.48	1.74	.296	2.28	1.03	4.76
31	.02	2.00	2.21	.99	.053	3.00	.92	4.70
32	-1.18	1.85	2.25	2.82	.468	3.76	1.92	9.55
33	1.99	1.69	.27	1.47	.348	2.70	1.33	6.04
34	-.79	2.76	.03	1.34	.231	2.66	1.71	8.96
35	-.77	.93	1.50	1.30	.025	2.05	1.08	4.91
36	-.25	1.61	1.85	2.72	.097	3.12	1.93	6.90
37	-4.12	2.01	-15.44	10.84	.531	16.53	10.16	38.27
38	1.91	5.01	3.87	9.24	.653	9.27	6.55	26.46
39	-2.29	2.71	-.12	1.54	.351	3.56	1.52	7.41
40	-5.66	4.57	.89	3.68	.535	6.78	4.60	15.86
41	.75	2.34	1.71	2.09	.471	3.21	1.73	7.13
42	-1.94	4.15	1.16	2.53	.902	4.72	2.52	11.89
43	2.30	5.75	.20	3.97	.150	6.66	3.10	12.74
44	-2.93	3.54	-6.32	7.40	.833	7.25	7.95	28.08
45	3.97	2.39	1.48	5.25	.096	6.79	2.24	14.96
46	.85	1.92	3.87	1.87	.277	4.56	1.46	7.00
47	4.84	3.40	8.48	4.73	.128	10.63	4.03	15.63
48	-1.49	2.05	4.17	3.19	.150	5.27	2.47	9.56
49	1.16	1.10	.66	2.88	.091	2.83	1.82	8.56
50	-.79	1.54	-3.63	3.38	.042	4.61	2.52	9.93

MEAN DU(M/S)= -.41
MEAN DV(M/S)= -.13
SD DU(M/S)= 4.19
SD DV(M/S)= 5.39
R(DU,DV)= .37
MEAN W(M/S)= 5.02
SD W(M/S)= 4.63
SD MEAN(M/S)= 3.40
MEAN MAXW(M/S)=11.12
SD MAXW(M/S) 7.06

VAFB,WL GT 500M , TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	VECTOR WIND CHANGE P	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.77	1.67	2.18	1.90	210	2.98	1.68	7.11
2	1.51	1.76	.22	1.18	205	2.21	1.39	6.20
3	-1.58	1.97	-.86	2.87	149	3.69	1.30	7.21
4	-.01	1.39	.07	1.23	496	1.68	.79	3.44
5	-2.19	4.67	-.10	4.62	713	6.21	3.04	14.74
6	-12.45	3.83	-7.72	4.38	647	15.03	4.75	22.56
7	-1.65	1.25	1.94	2.22	597	3.34	1.32	6.30
8	-1.75	1.30	.02	1.34	079	2.37	.98	4.44
9	-1.94	2.36	.48	1.96	111	3.19	1.80	7.65
10	3.32	2.16	2.94	.95	263	4.82	1.40	6.82
11	-2.52	2.37	1.30	1.93	537	3.80	1.71	7.96
12	.22	1.13	2.72	1.61	047	3.02	1.48	5.97
13	-6.80	4.64	6.32	6.22	670	10.12	6.63	19.15
14	-1.82	2.98	-2.15	2.09	407	3.58	2.89	12.64
15	9.37	2.58	8.17	8.31	361	14.41	4.74	21.47
16	-.67	1.24	-.52	1.34	024	1.84	.81	3.35
17	.94	2.25	2.14	2.28	785	3.54	1.77	6.97
18	.45	2.80	1.04	1.96	686	2.79	2.27	11.28
19	.82	2.51	1.38	2.09	271	3.27	1.57	6.39
20	.69	1.72	-2.23	3.57	093	3.50	2.98	17.15
21	1.60	5.28	4.99	5.60	231	8.51	2.28	17.80
22	-1.48	3.95	-3.22	7.31	425	7.75	4.61	17.91
23	.70	3.08	1.47	4.85	224	5.62	2.01	8.98
24	4.38	1.70	2.42	2.18	310	5.52	1.52	8.74
25	-.99	1.79	-.82	3.13	029	3.41	1.73	6.70
26	-2.08	1.29	1.90	2.29	235	3.47	1.66	7.16
27	-3.02	3.60	.33	1.87	185	4.26	2.75	10.14
28	1.08	1.28	-1.92	2.54	381	3.16	1.71	9.37
29	-.96	.93	.65	1.57	412	1.69	1.35	6.49
30	.19	1.74	.48	1.73	395	2.29	1.01	4.67
31	.02	1.99	2.22	.98	055	3.00	.90	4.69
32	-1.17	1.86	2.26	2.85	473	3.78	1.93	9.46
33	2.00	1.70	.27	1.46	365	2.70	1.33	6.14
34	-.79	2.73	.03	1.32	214	2.66	1.65	8.36
35	-.76	.92	1.49	1.28	029	2.04	1.07	4.82
36	-.25	1.63	1.85	2.71	102	3.12	1.94	6.84
37	-4.13	2.03	-15.44	10.87	535	16.54	10.19	37.95
38	1.91	5.05	-3.87	9.30	654	9.31	6.60	26.83
39	-2.29	2.73	-.12	1.55	353	3.58	1.48	7.46
40	-5.66	4.58	-.90	3.70	532	6.78	4.64	15.89
41	.75	2.35	1.71	2.10	470	3.21	1.75	6.98
42	-1.94	4.18	1.16	2.54	907	4.74	2.54	11.66
43	2.32	5.76	-.20	3.98	151	6.66	3.15	12.76
44	-2.94	3.55	-6.32	7.42	806	7.25	7.98	28.03
45	3.97	2.43	1.46	5.20	112	6.82	2.05	13.50
46	.84	1.91	3.88	1.88	271	4.56	1.44	7.04
47	4.84	3.44	8.48	4.75	127	10.65	4.01	15.71
48	-1.49	2.06	4.17	3.19	344	5.28	2.47	9.59
49	1.16	1.09	.66	2.91	079	2.84	1.83	8.56
50	-.80	1.52	-3.63	3.39	038	4.62	2.51	9.81

MEAN DU(M/S)= -.41
MEAN DV(M/S)= -.13
SD DU(M/S)= 4.19
SD DV(M/S)= 5.38
R(DU,DV)= .37
MEAN W(M/S)= 5.02
SD W(M/S)= 4.63
SD MEAN(M/S)= 3.41
MEAN MAXW(M/S)=10.98
SD MAXW(M/S) 7.00

VAFB,WL GT 1500M , TRANS 3HR WIND CHANGE 3.9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.79	1.58	2.18	1.56	-.179	2.75	1.65	6.34
2	1.57	1.60	.16	.90	-.093	2.06	1.27	6.38
3	-1.55	1.66	.85	2.64	.182	3.36	1.23	5.93
4	.00	1.22	.07	1.11	-.571	1.48	.72	2.94
5	-2.15	4.33	-.19	4.30	-.740	5.97	2.47	12.01
6	-12.47	3.57	-7.65	4.05	.694	14.90	4.60	22.28
7	-1.68	1.10	1.90	2.04	.614	3.19	1.28	6.03
8	-1.73	1.24	.01	1.15	.123	2.21	.98	4.07
9	-1.95	2.10	.54	1.64	.148	2.93	1.61	6.52
10	3.29	2.11	2.93	.75	.215	4.75	1.36	6.65
11	-2.49	2.09	1.33	1.74	.681	3.55	1.66	7.59
12	.23	.68	-2.69	1.51	.095	2.82	1.45	4.93
13	-6.78	4.48	-6.31	6.02	.686	9.94	6.57	17.39
14	-1.83	2.71	-2.17	1.56	.489	3.33	2.59	10.39
15	9.33	2.45	8.13	8.14	.382	14.29	4.58	20.78
16	-.64	.88	-.53	1.12	.074	1.53	.60	2.65
17	.94	1.98	2.17	2.06	.832	3.35	1.59	6.82
18	.36	2.12	1.04	1.69	.821	2.38	1.70	6.64
19	.85	2.35	1.37	1.41	.523	2.79	1.51	5.78
20	.70	1.48	2.03	2.54	.050	3.21	1.71	8.28
21	1.75	5.12	4.39	5.85	.409	8.43	3.41	29.06
22	-1.38	3.16	-3.10	6.04	.563	6.76	3.48	12.81
23	.68	2.94	1.47	4.68	.233	5.43	1.87	8.22
24	4.31	1.48	2.46	1.95	.259	5.36	1.37	8.18
25	-1.00	1.60	-.82	2.97	.069	3.19	1.69	6.54
26	-2.06	1.10	1.89	2.10	.326	3.36	1.48	6.46
27	-3.05	3.54	.36	1.66	.251	4.17	2.70	9.39
28	1.05	.90	1.86	2.28	.699	2.86	1.55	7.76
29	-.96	.79	.65	1.39	.137	1.53	1.23	5.52
30	.22	1.62	.45	1.52	.426	2.06	.95	4.02
31	.03	1.58	2.22	.82	.069	2.74	.77	4.25
32	-1.17	1.67	2.19	2.32	.524	3.35	1.76	8.08
33	1.94	1.43	.27	1.08	.422	2.34	1.26	5.61
34	-.80	2.35	.05	.98	.182	2.50	.93	4.85
35	-.74	.76	1.49	1.08	.017	1.90	.96	4.04
36	-.22	1.41	1.92	2.51	.158	2.87	1.83	5.95
37	-4.12	1.81	-15.43	10.60	.561	16.49	9.33	35.06
38	1.87	4.88	2.89	9.05	.643	9.15	6.35	24.93
39	-2.34	2.44	-.14	1.44	.360	3.33	1.55	6.71
40	-5.66	4.40	.89	3.59	.527	6.66	4.59	15.23
41	.78	2.19	1.71	1.91	.475	3.03	1.66	6.26
42	-1.97	3.84	1.13	2.37	.816	4.58	2.12	9.31
43	2.30	5.43	.33	3.90	.155	6.38	3.05	12.78
44	-2.97	3.34	6.28	7.03	.930	7.13	7.61	25.43
45	3.90	2.46	1.40	4.61	.247	6.50	1.47	8.72
46	.82	1.63	3.89	1.67	.213	4.42	1.28	6.44
47	4.88	3.15	8.46	4.70	.118	10.59	3.92	14.49
48	-1.55	1.73	4.22	2.91	.306	5.09	2.40	9.69
49	1.16	.95	-.64	2.66	.140	2.78	1.41	6.57
50	-.76	1.42	-3.60	3.05	.029	4.52	2.09	8.26

MEAN DU(M/S)= -.41
MEAN DV(M/S)= -.12
SD DU(M/S)= 4.04
SD DV(M/S)= 5.21
R(DU,DV)= .39
MEAN W(M/S)= 4.81
SD W(M/S)= 4.53
SD MEAN(M/S)= 3.43
MEAN MAXW(M/S)= 9.82
SD MAXW(M/S) 7.02

VAFB, WL GT 3000M , TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.78	1.34	2.19	1.01	.367	2.67	1.05	4.30
2	1.67	1.56	.19	.30	.273	1.90	1.32	5.47
3	-1.50	1.46	-.80	2.39	.446	3.08	1.10	5.28
4	.02	1.00	.09	.93	.510	1.27	.50	2.12
5	-2.11	3.00	.24	3.93	.859	5.06	1.81	7.66
6	-12.51	3.60	-7.60	3.56	.738	14.79	4.61	23.76
7	-1.83	.94	1.86	1.92	.853	3.19	1.08	5.22
8	-1.72	.86	.05	.77	.385	1.94	.72	3.24
9	-1.98	1.75	.56	1.06	.309	2.60	1.28	5.12
10	3.21	1.97	2.96	.47	-.414	4.68	1.12	6.47
11	-2.45	1.74	1.35	1.45	.662	3.36	1.28	6.00
12	.13	.55	2.60	1.32	.621	2.69	1.24	4.87
13	-6.64	3.88	-6.21	5.72	.818	9.59	6.20	17.23
14	-2.00	1.93	-2.12	1.30	.788	3.18	1.95	7.02
15	9.24	1.67	8.15	7.72	.498	14.05	4.09	20.08
16	-.66	.50	-.62	.67	.511	1.16	.42	1.93
17	.79	1.63	2.15	1.85	-.750	3.08	1.36	6.38
18	.20	1.57	.98	1.09	.794	1.93	.96	4.18
19	.68	1.65	1.43	.65	.481	2.06	1.19	4.76
20	.73	1.45	-1.85	1.68	-.507	2.54	1.56	4.85
21	2.17	4.67	5.27	6.33	.884	8.65	4.40	24.48
22	-1.27	2.03	-2.93	4.60	.710	5.16	2.96	9.33
23	.47	2.45	1.34	4.14	.293	4.52	2.17	8.10
24	4.13	.87	2.59	1.76	-.129	5.17	.94	6.83
25	-1.20	1.06	.85	2.53	.073	2.74	1.46	5.45
26	-1.98	1.07	1.88	1.26	.860	3.11	.70	5.23
27	-3.18	3.29	-.34	1.41	.162	3.90	2.79	9.48
28	1.04	.57	-1.84	1.84	.900	2.66	1.04	6.17
29	-.99	.69	.61	1.28	.424	1.46	1.16	4.67
30	.28	1.40	.40	1.19	.282	1.73	.77	3.52
31	.03	.94	2.20	.57	.353	2.41	.50	3.19
32	-1.25	1.14	2.35	1.13	.531	2.99	.82	4.89
33	1.83	.89	.41	.74	.148	2.02	.89	4.34
34	-.79	2.05	.03	.65	.230	2.13	.83	3.85
35	-.71	.51	1.46	.64	.152	1.70	.63	3.85
36	-.25	.68	1.59	2.58	.353	2.49	1.86	5.68
37	-3.75	1.55	-15.49	9.78	-.676	16.38	9.14	29.44
38	1.38	4.49	-3.72	7.77	.772	8.29	5.23	19.60
39	-2.35	1.65	-.15	.96	.614	2.65	1.45	6.41
40	-5.73	3.95	.97	3.15	.579	6.50	4.13	13.29
41	.82	1.71	1.68	1.60	.527	2.64	1.42	4.95
42	-2.04	3.15	1.17	2.00	.907	4.21	1.29	5.74
43	2.19	5.03	.52	3.55	.123	6.00	2.61	10.81
44	-3.06	3.42	-6.39	6.60	-.978	7.15	7.37	26.99
45	3.95	1.50	1.52	4.00	.322	5.91	1.04	7.52
46	1.00	1.34	3.83	1.37	.706	4.30	.87	5.52
47	4.75	1.71	8.51	4.21	.918	10.10	3.71	13.28
48	-1.28	.77	-4.21	2.62	-.546	4.60	2.38	8.88
49	1.13	.69	-.68	1.58	-.147	2.03	.77	3.38
50	-.63	1.27	-3.63	2.50	.079	4.16	2.01	7.44

MEAN DU(M/S)= -.43
MEAN DV(M/S)= -.10
SD DU(M/S)= 3.77
SD DV(M/S)= 4.96
R(DU,DV)= .43
MEAN W(M/S)= 4.45
SD W(M/S)= 4.38
SD MEAN(M/S)= 3.45
MEAN MAXW(M/S)= 8.37
SD MAXW(M/S) 6.61

VAFB,WL GT 6000M , TRANS 3HR WIND CHANGE 3-9KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.91	.54	2.21	1.26	-.151	2.54	1.07	5.22
2	1.75	1.51	.16	.48	.931	1.87	1.45	4.95
3	-1.53	1.41	-.56	.97	.056	2.14	1.00	4.48
4	-.02	.58	.20	.32	-.317	.67	.18	.99
5	-2.05	1.63	-.49	2.85	.952	3.77	.99	5.50
6	-13.70	3.40	-7.49	2.93	619	15.74	4.01	25.86
7	-1.68	.82	1.80	1.61	.947	2.97	.73	4.11
8	-1.66	.76	.14	.65	748	1.87	.51	2.69
9	-1.91	1.68	.72	1.18	.725	2.74	.93	4.17
10	3.15	1.85	2.72	.22	373	4.40	1.20	5.81
11	-2.02	.89	1.67	.60	-.793	2.65	.99	3.98
12	-.09	.50	-2.57	.90	.378	2.62	.87	3.65
13	-7.00	3.11	-6.18	5.37	979	10.11	4.83	15.01
14	-2.02	.91	-2.29	1.45	.655	3.12	1.59	6.13
15	9.29	.83	8.47	8.33	-.579	14.40	4.51	22.21
16	-.75	.29	-.58	.56	-.727	1.11	.25	1.48
17	.66	1.29	2.54	1.80	960	3.05	1.57	7.76
18	.36	.61	1.07	.32	143	1.29	.30	1.65
19	.68	1.63	1.31	1.30	.925	2.04	1.54	5.20
20	.96	1.11	-2.10	1.10	.838	2.49	1.25	4.22
21	2.20	3.73	6.27	4.04	.859	7.75	3.77	12.94
22	-1.15	.58	-2.67	2.30	.472	3.04	2.20	7.45
23	.61	1.17	1.73	2.30	-.799	2.91	1.24	4.71
24	4.24	.60	3.12	.75	-.365	5.32	.54	6.12
25	-.97	.52	-.47	1.57	482	1.79	.83	3.30
26	-2.14	.57	2.00	1.17	.601	3.11	.79	5.11
27	-3.20	3.05	-.51	.45	.060	3.54	2.73	7.71
28	1.03	.88	-1.95	1.47	951	2.57	1.08	5.83
29	-1.05	.31	.93	1.59	-.646	1.81	1.15	4.58
30	.61	.66	.40	.88	212	1.18	.59	2.25
31	-.12	.88	2.12	.22	.363	2.29	.32	3.00
32	-1.33	.65	2.30	.76	-.385	2.71	.84	4.14
33	1.84	1.28	.19	.57	.835	2.25	.58	3.35
34	-.88	2.23	.20	.48	700	2.24	1.00	3.44
35	-.79	.42	1.62	.78	877	1.81	.87	3.51
36	-.30	.33	1.55	1.93	.143	2.13	1.34	4.31
37	-4.08	1.35	-15.67	9.37	-.644	16.71	8.50	27.52
38	1.84	2.14	-3.93	5.84	276	6.77	3.38	12.70
39	-2.83	1.67	-.28	.71	947	2.89	1.73	6.55
40	-5.74	2.94	-.46	2.53	.748	6.46	2.54	10.35
41	.95	1.51	1.83	.68	053	2.45	1.00	3.78
42	-2.12	2.88	1.10	1.79	.989	4.01	1.05	5.84
43	1.92	2.83	-.60	2.81	649	4.09	1.77	6.77
44	-3.31	3.35	-6.93	6.55	.989	7.72	7.31	22.08
45	3.99	1.24	1.70	1.96	.358	4.81	1.03	6.21
46	.77	.99	4.10	.90	-.655	4.32	.76	5.19
47	4.89	.85	8.60	3.83	.753	10.09	3.40	13.46
48	-1.78	2.13	-4.39	1.45	-.097	5.11	1.71	8.94
49	1.06	.11	-.45	.79	-.117	1.36	.34	2.10
50	-.40	1.05	-3.68	1.95	.861	3.96	1.73	6.49

MEAN DU(M/S)= -.46
MEAN DV(M/S)= -.03
SD DU(M/S)= 3.64
SD DV(M/S)= 4.73
R(DU,DV)= .53
MEAN W(M/S)= 4.18
SD W(M/S)= 4.29
SD MEAN(M/S)= 3.60
MEAN MAXW(M/S)= 7.10
SD MAXW(M/S) 6.01

VAFB,WL GT 9000M , TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.95	.19	2.50	1.32	-.010	2.73	1.22	4.87
2	1.96	1.48	.21	.54	.956	2.05	1.46	4.67
3	-1.49	1.19	-.70	.42	.254	1.89	.86	3.44
4	-.14	.34	.21	.17	.412	.41	.20	.80
5	-2.40	1.08	-.28	1.68	-.972	3.08	.55	4.03
6	-15.19	3.64	-8.11	2.57	.974	17.23	4.39	24.84
7	-1.90	1.27	1.68	1.28	.926	3.03	.72	4.72
8	-1.66	.37	.15	.21	.785	1.68	.34	2.20
9	-1.84	1.11	.91	1.03	.961	2.49	.53	3.42
10	3.01	1.23	2.67	.08	.718	4.14	.77	5.09
11	-2.03	.38	1.47	1.01	.370	2.69	.46	3.26
12	-.09	.29	-2.41	.74	.644	2.43	.72	3.06
13	-7.30	2.45	-6.44	3.58	.985	9.87	4.02	13.64
14	-2.18	.77	-2.54	1.60	.845	3.41	1.65	5.93
15	9.43	.73	9.39	6.82	.928	14.23	4.65	20.90
16	-.85	.06	-.45	.30	.406	1.01	.11	1.16
17	.39	1.22	2.77	2.28	.988	3.32	1.86	7.88
18	.33	.39	1.02	.18	.152	1.14	.19	1.82
19	.75	1.22	1.61	1.07	.930	2.05	1.26	4.08
20	1.30	1.44	-2.30	1.16	-.978	3.04	1.06	4.45
21	2.06	2.15	5.64	2.10	.960	6.37	2.12	8.62
22	-.98	.30	-2.49	1.76	.809	2.79	1.62	5.87
23	.82	.52	1.60	1.41	.261	2.11	1.01	3.47
24	4.22	.39	2.88	.81	.116	5.16	.48	5.84
25	-.97	.25	-.33	.49	.485	1.12	.29	1.56
26	-1.99	.39	2.09	.18	.570	2.91	.20	3.17
27	-3.54	2.55	-.44	.18	.412	3.66	2.42	6.91
28	.83	.77	-2.36	1.55	.993	2.74	1.31	5.83
29	-1.11	.13	1.04	.76	.620	1.62	.54	2.54
30	.71	.39	.30	.42	.141	.90	.36	1.69
31	-.28	.70	2.25	.12	.051	2.36	.17	2.59
32	-1.44	.49	2.26	.39	.645	2.70	.55	3.42
33	1.49	1.92	.30	.29	.977	2.28	.92	3.35
34	-.63	1.79	.23	.17	.923	1.74	.81	2.74
35	-.91	.46	1.72	.74	.968	1.95	.86	3.38
36	-.28	.28	1.43	1.25	.903	1.74	.87	2.94
37	-3.83	1.39	-16.23	6.90	.626	16.98	6.29	23.83
38	1.91	1.25	-3.22	3.68	.600	5.02	1.96	7.79
39	-2.94	1.48	-.19	.68	.974	3.03	1.46	5.28
40	-5.51	1.65	-.65	1.75	.394	5.86	1.49	7.88
41	1.12	1.13	1.77	.32	.515	2.31	.67	3.36
42	-1.84	2.09	1.14	1.16	.959	3.09	.90	4.63
43	2.03	1.61	-1.06	1.56	.741	2.99	1.13	4.71
44	-3.70	3.05	-7.82	5.91	.998	8.66	6.65	18.88
45	4.14	1.38	1.57	.94	.744	4.49	1.50	7.23
46	1.04	1.09	4.28	.21	.563	4.53	.32	5.52
47	4.97	1.00	8.67	2.81	.981	10.02	2.89	13.31
48	-2.17	1.90	-4.50	.91	.812	5.19	1.57	8.61
49	1.08	.17	-.48	.78	-.858	1.35	.47	2.45
50	-.23	.95	-3.45	1.63	.961	3.71	1.31	5.31

MEAN DU(M/S)= -.50
MEAN DV(M/S)= -.05
SD DU(M/S)= 3.67
SD DV(M/S)= 4.49
R(DU,DV)= .60
MEAN W(M/S)= 4.03
SD W(M/S)= 4.20
SD MEAN(M/S)= 3.72
MEAN MAXW(M/S)= 6.14
SD MAXW(M/S) 5.47

VAFB UNFILTERED TRANS 3HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-1.05	2.91	3.74	3.72	.080	5.36	2.94	12.64
2	3.14	2.68	2.49	2.76	-.457	5.20	1.94	8.63
3	.29	2.20	-.17	1.61	.536	2.37	1.39	6.81
4	1.61	2.14	-.67	1.67	-.284	2.73	1.71	6.49
5	.51	3.45	-.91	3.75	-.009	4.60	2.42	9.26
6	-14.33	9.91	-7.23	4.35	.636	16.53	10.08	38.19
7	-4.60	3.11	.20	2.54	.047	5.57	2.51	10.66
8	-.11	3.36	-.84	2.98	-.300	4.01	2.17	8.87
9	-.48	1.86	1.24	2.39	.387	3.00	1.39	5.61
10	5.19	1.77	4.03	1.95	.206	6.79	2.00	10.26
11	-2.62	4.07	-2.48	4.52	.392	5.11	4.89	18.78
12	.41	1.84	-.89	2.54	-.171	3.08	1.14	5.28
13	-4.21	3.91	-2.49	3.92	.628	6.27	3.90	14.67
14	-1.30	2.34	-3.58	3.24	.209	5.00	2.32	10.94
15	6.20	5.29	7.82	7.69	.564	11.38	7.55	23.16
16	.37	2.15	-.14	2.77	.083	2.94	1.95	7.94
17	-1.02	2.89	6.73	3.07	-.222	7.39	3.06	12.18
18	.80	6.18	3.19	5.00	.879	5.80	6.34	41.82
19	-.29	2.46	2.19	3.06	.379	4.05	1.97	8.27
20	-11.96	4.85	6.28	3.25	-.752	13.65	5.50	23.44
21	-.08	5.82	1.82	16.86	.605	11.91	13.39	59.47
22	-.03	3.64	1.96	5.96	-.193	5.65	4.53	22.96
23	-1.24	7.28	-.22	4.76	-.029	7.91	3.82	15.30
24	3.46	2.18	-.15	4.41	-.234	5.58	2.23	10.66
25	-2.06	2.76	-2.73	4.29	.162	5.17	3.30	11.24
26	-1.61	1.05	3.29	2.63	-.194	4.09	2.16	8.75
27	-3.10	3.22	-.32	2.41	-.019	4.54	2.30	10.43
28	-.67	2.14	-2.82	4.03	.241	4.92	2.22	10.10
29	-.16	1.80	-.39	1.91	-.108	2.35	1.22	4.60
30	.93	2.67	-.41	2.35	-.160	3.34	1.57	8.22
31	.58	2.36	1.91	2.21	-.019	3.42	1.63	7.02
32	-.21	2.48	3.14	2.04	-.121	4.08	1.89	7.28
33	-3.20	4.90	1.22	3.49	-.370	5.47	4.23	13.61
34	1.95	2.88	.64	2.66	.510	3.49	2.72	17.48
35	.22	1.69	1.45	2.37	-.576	2.80	1.67	8.26
36	-.67	2.90	-3.54	2.92	.329	4.79	2.64	9.32
37	.94	4.20	-7.08	7.90	-.091	9.08	6.96	24.78
38	2.35	7.95	-2.21	6.59	.061	9.68	4.80	21.48
39	-4.03	4.67	-3.23	3.69	-.014	7.40	2.70	13.52
40	-4.13	5.02	.91	5.98	-.657	6.54	5.99	23.09
41	-.28	2.80	3.45	2.20	.269	4.61	1.83	8.41
42	-2.00	6.89	2.02	3.63	-.607	5.20	6.45	28.11
43	-2.99	3.05	-6.42	3.36	.203	7.79	3.16	13.06
44	-8.11	4.76	-9.80	7.32	.345	13.51	7.45	30.63
45	2.60	3.98	3.98	3.81	.206	6.76	2.68	16.96
46	2.23	3.37	2.94	2.48	.367	5.05	2.36	9.35
47	2.78	4.09	9.27	3.51	-.154	10.63	3.10	16.30
48	-3.34	6.47	-4.91	4.99	-.040	9.08	4.40	18.58
49	1.11	1.77	-2.22	2.39	-.021	3.27	2.09	7.85
50	2.28	2.28	1.11	1.51	.167	3.36	1.61	6.97

MEAN DU(M/S)= -.80
MEAN DV(M/S)= .22
SD DU(M/S)= 5.40
SD DV(M/S)= 5.87
R(DU,DV)= .25
MEAN W(M/S)= 6.05
SD W(M/S)= 5.27
SD MEAN(M/S)= 3.18
MEAN MAXW(M/S)=14.95
SD MAXW(M/S)10.46

VAFB, WL GT 500M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-1.06	2.79	3.73	3.69	.063	5.26	2.97	12.52
2	3.14	2.66	2.49	2.75	-.455	5.17	1.97	8.67
3	.29	2.12	-.16	1.54	.538	2.29	1.31	6.18
4	1.63	2.12	-.67	1.63	-.303	2.69	1.73	6.44
5	.52	3.44	-.91	3.68	-.012	4.54	2.39	9.03
6	-14.33	9.94	-7.24	4.34	.644	16.51	10.13	38.29
7	-4.60	3.10	.20	2.54	.047	5.55	2.53	10.35
8	-.11	3.35	-.84	2.97	-.310	4.00	2.16	9.13
9	-.49	1.68	1.24	2.31	.452	2.81	1.43	5.59
10	5.19	1.73	4.03	1.94	.217	6.78	1.98	9.93
11	-2.62	4.07	-2.48	4.56	.391	5.11	4.92	18.64
12	.41	1.80	-.90	2.54	-.181	3.05	1.16	5.09
13	-4.22	3.87	-2.49	3.89	.646	6.23	3.90	14.56
14	-1.31	2.32	-3.58	3.20	.222	4.98	2.29	10.56
15	6.20	5.26	7.82	7.67	.565	11.32	7.60	23.19
16	.37	2.10	-.14	2.74	.099	2.87	1.95	7.80
17	-1.02	2.88	6.74	3.04	-.219	7.39	3.05	12.20
18	.81	5.81	3.18	4.69	.870	5.75	5.78	33.76
19	-.28	2.42	2.19	3.05	.382	4.02	1.96	8.17
20	-11.96	4.85	6.29	3.24	-.758	13.65	5.50	23.43
21	-.07	5.79	1.87	16.76	.604	11.93	13.23	59.65
22	-.03	3.61	1.96	5.94	-.199	5.65	4.49	22.58
23	-1.24	7.39	-.21	4.82	-.025	8.01	3.86	15.50
24	3.46	2.16	-.15	4.43	-.229	5.57	2.27	10.85
25	-2.05	2.76	-2.73	4.28	.172	5.15	3.32	11.39
26	-1.61	.99	3.30	2.63	-.226	4.08	2.18	8.74
27	-3.10	3.20	-.32	2.39	-.015	4.50	2.31	10.41
28	-.67	2.15	-2.82	4.02	.237	4.92	2.22	10.15
29	-.16	1.77	-.39	1.85	-.128	2.30	1.19	4.53
30	.93	2.68	-.40	2.29	-.152	3.34	1.49	7.76
31	.58	2.31	1.90	2.20	-.025	3.40	1.60	6.67
32	-.21	2.48	3.14	2.03	-.127	4.06	1.91	7.44
33	-3.20	4.91	1.22	3.50	-.374	5.48	4.24	13.35
34	1.95	2.87	.64	2.66	.513	3.49	2.71	16.61
35	.22	1.68	1.46	2.36	-.586	2.79	1.66	7.94
36	-.68	2.89	-3.55	2.93	.342	4.79	2.64	9.40
37	.93	4.23	-7.07	7.92	-.095	9.10	6.98	24.66
38	2.35	8.00	-2.22	6.61	.061	9.72	4.85	21.44
39	-4.04	4.70	-3.23	3.70	-.009	7.41	2.74	13.73
40	-4.13	4.98	.92	5.97	-.658	6.50	6.00	23.26
41	-.27	2.79	3.45	2.17	.277	4.60	1.82	8.34
42	-2.00	6.92	2.02	3.61	-.611	5.23	6.45	27.61
43	-3.01	3.01	-6.42	3.36	.208	7.79	3.16	12.92
44	-8.10	4.76	-9.80	7.33	.345	13.51	7.45	30.55
45	2.61	3.98	3.98	3.74	.204	6.76	2.60	15.65
46	2.24	3.37	2.93	2.48	.373	5.03	2.41	9.17
47	2.78	4.11	9.27	3.52	-.160	10.63	3.14	16.06
48	-3.35	6.46	-4.92	4.95	-.041	9.05	4.41	18.98
49	1.11	1.72	-2.22	2.38	-.018	3.22	2.09	7.67
50	2.28	2.26	1.11	1.47	.183	3.32	1.63	6.76

MEAN DU(M/S)= -.80
MEAN DV(M/S)= .22
SD DU(M/S)= 5.39
SD DV(M/S)= 5.85
R(DU,DV)= .25
MEAN W(M/S)= 6.03
SD W(M/S)= 5.26
SD MEAN(M/S)= 3.19
MEAN MAXW(M/S)=14.67
SD MAXW(M/S)10.14

VAFB, WL GI 1500M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-1.13	1.76	3.67	3.12	-.011	4.61	2.50	9.06
2	3.16	2.11	2.50	1.95	-.343	4.68	1.61	6.77
3	.30	1.77	-.11	1.29	.511	1.99	.96	4.21
4	1.65	1.82	-.66	1.40	-.509	2.31	1.76	6.12
5	.44	3.04	-.74	2.93	-.197	3.87	1.88	7.62
6	-14.35	9.63	-7.27	4.08	.691	16.41	9.94	38.05
7	-4.58	2.89	.20	2.18	.145	5.32	2.42	9.49
8	-.07	3.05	-.84	2.65	-.318	3.79	1.62	6.94
9	-.53	1.21	1.22	1.97	.687	2.16	1.56	5.26
10	5.18	1.52	4.00	1.83	.242	6.72	1.82	8.91
11	-2.59	3.80	-2.51	3.97	.450	4.72	4.58	15.71
12	.44	1.43	-.91	2.33	-.286	2.76	.93	4.64
13	-4.28	3.59	-2.52	3.55	.771	5.85	3.98	13.74
14	-1.36	1.90	-3.62	2.86	.263	4.63	2.29	8.91
15	6.20	5.04	7.88	7.46	.591	11.11	7.62	22.37
16	.33	1.41	-.07	1.93	.166	2.12	1.16	4.80
17	-1.02	2.53	6.73	2.71	-.430	7.25	2.74	11.92
18	.87	4.34	3.11	3.91	.843	5.22	4.15	18.73
19	-.32	2.10	2.16	2.59	.469	3.60	1.70	6.72
20	-12.00	4.43	6.29	2.88	-.907	13.61	5.13	20.42
21	-.22	4.37	1.61	13.49	.526	10.40	9.76	38.82
22	-.08	3.16	1.88	5.01	-.135	5.25	3.32	15.46
23	-1.25	6.86	-.29	4.28	-.066	7.33	3.61	13.25
24	3.46	1.28	-.15	4.03	-.325	5.01	2.17	10.36
25	-2.07	2.41	-2.75	3.86	.209	4.76	3.14	10.86
26	-1.56	.64	3.28	2.42	-.294	3.86	2.14	8.33
27	-3.07	2.99	-.29	1.89	-.011	4.10	2.28	9.51
28	-.66	1.83	-2.81	3.78	.319	4.53	2.32	8.51
29	-.16	1.52	-.40	1.47	-.244	1.98	.85	3.82
30	.99	2.48	-.35	2.00	-.190	3.12	1.22	6.09
31	.58	1.96	1.90	1.98	.049	3.09	1.47	5.57
32	-.23	2.27	3.18	1.95	-.130	4.00	1.75	7.05
33	-3.21	4.68	1.19	3.16	-.390	5.08	4.21	12.50
34	2.06	2.52	.68	2.37	.567	3.12	2.63	13.91
35	.20	1.49	1.43	2.21	-.705	2.58	1.58	6.87
36	-.70	2.58	-3.54	2.62	.311	4.62	2.28	8.57
37	.93	3.72	-7.04	7.64	-.169	8.56	7.01	23.39
38	2.33	7.52	-2.27	5.97	.072	9.10	4.43	17.03
39	-4.05	3.95	-3.14	2.53	-.044	6.64	2.04	9.81
40	-4.12	3.85	.87	5.39	-.804	5.70	5.40	21.04
41	-.27	2.40	3.45	1.78	.317	4.30	1.55	8.33
42	-1.95	6.31	2.00	2.93	-.618	4.66	5.87	24.80
43	-3.00	2.53	-6.33	2.71	.218	7.42	2.78	11.19
44	-8.04	4.31	-9.82	7.11	.418	13.34	7.23	29.23
45	2.64	3.47	3.92	3.12	.308	6.11	2.59	11.44
46	2.31	3.10	2.88	2.33	.410	4.80	2.36	8.62
47	2.62	3.71	9.17	3.02	-.164	10.31	2.74	13.97
48	-3.35	5.95	-4.93	4.19	-.055	8.05	4.86	18.17
49	1.09	1.30	-2.21	2.04	.076	2.94	1.82	6.83
50	2.24	2.01	1.09	1.29	.298	3.10	1.51	6.43

MEAN DU(M/S)= -.80
MEAN DV(M/S)= .21
SD DU(M/S)= 5.08
SD DV(M/S)= 5.41
R(DU,DV)= .26
MEAN W(M/S)= 5.61
SD W(M/S)= 4.93
SD MEAN(M/S)= 3.18
MEAN MAXW(M/S)=12.40
SD MAXW(M/S) 7.95

VAFB, WL GT 3000M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-1.12	1.32	3.77	2.36	.095	4.36	1.95	8.24
2	3.13	1.74	2.42	1.26	-.419	4.36	1.12	5.63
3	.38	1.17	-.19	.88	.662	1.38	.64	2.41
4	1.59	1.69	-.69	1.01	-.668	2.06	1.62	5.05
5	.44	1.73	-.65	1.85	-.102	2.39	1.13	5.55
6	-14.39	8.67	-7.09	3.46	.751	16.29	8.89	32.93
7	-4.49	2.71	.30	1.83	.167	4.99	2.46	9.28
8	-.13	2.21	-.76	1.86	-.505	2.84	.92	4.32
9	-.51	1.05	1.24	1.78	.783	1.94	1.51	5.06
10	5.17	1.32	3.92	1.65	.320	6.62	1.64	9.08
11	-2.51	3.16	-2.54	2.51	.629	4.36	3.16	10.67
12	.37	1.24	-.96	1.59	-.011	2.03	1.00	3.88
13	-4.36	3.34	-2.46	3.38	.893	5.70	3.89	11.51
14	-1.19	1.35	-3.60	2.51	.421	4.05	2.45	8.06
15	6.15	4.83	7.83	7.26	.635	10.97	7.39	21.25
16	.33	1.01	-.02	1.10	-.109	1.45	.48	2.19
17	-.85	1.92	6.67	2.46	-.771	7.00	2.42	11.26
18	1.02	2.95	3.21	2.89	.797	4.51	2.82	10.90
19	-.31	2.09	2.09	2.31	.603	3.40	1.61	6.00
20	-11.87	4.20	6.25	2.57	-.983	13.43	4.88	19.02
21	-.52	2.39	1.00	10.41	.408	8.63	6.38	24.56
22	-.17	1.68	1.90	4.00	.256	4.14	2.30	9.79
23	-1.01	3.84	-.54	1.93	-.534	3.80	2.30	9.34
24	3.44	.68	-.20	3.37	-.757	4.62	1.52	7.49
25	-2.01	1.74	-2.59	3.76	.163	4.60	2.59	8.42
26	-1.56	.46	3.08	2.10	-.468	3.60	1.89	6.54
27	-3.16	2.58	-.29	1.25	.039	3.71	2.13	9.36
28	-.64	1.50	-2.81	3.55	.551	4.13	2.47	8.08
29	-.13	1.17	-.34	1.19	-.630	1.46	.88	3.28
30	.88	2.18	-.29	1.83	-.197	2.82	1.01	4.59
31	.57	1.75	1.87	1.66	.045	2.89	1.14	5.07
32	-.31	1.91	3.22	1.38	.060	3.79	1.27	5.82
33	-3.28	4.50	1.20	2.85	-.446	5.34	3.46	11.49
34	2.27	2.24	.79	2.16	.711	3.06	2.46	12.29
35	.16	1.36	1.38	1.97	-.735	2.42	1.34	5.29
36	-.71	2.28	-3.47	1.71	.429	4.09	1.99	8.20
37	.64	2.52	-6.93	7.00	.081	7.92	6.40	25.78
38	2.78	5.71	-2.20	5.46	.143	7.70	3.93	14.30
39	-4.06	3.47	-3.09	1.43	-.341	5.95	2.17	8.91
40	-4.12	3.45	.91	4.75	-.832	5.35	4.87	18.77
41	-.22	2.29	3.54	1.25	.147	4.21	1.26	6.75
42	-2.06	5.79	2.01	2.35	-.674	4.64	5.07	19.04
43	-2.98	2.30	-6.08	2.09	.543	6.98	2.60	10.78
44	-8.00	3.71	-9.82	6.65	.467	13.20	6.65	28.06
45	2.63	2.76	3.85	2.72	.520	5.34	2.86	9.64
46	2.25	1.98	2.93	1.90	.572	3.89	2.46	7.71
47	2.34	3.04	9.07	2.61	.166	9.87	2.51	12.22
48	-3.54	5.17	-4.89	2.94	-.183	7.62	3.70	15.24
49	1.08	.83	-2.16	1.60	.125	2.60	1.52	5.65
50	2 20	1.52	1.06	1.16	.469	2.72	1.49	5.78

MEAN DU(M/S)= -.81
MEAN DV(M/S)= .22
SD DU(M/S)= 4.65
SD DV(M/S)= 4.93
R(DU,DV)= .29
MEAN W(M/S)= 5.10
SD W(M/S)= 4.53
SD MEAN(M/S)= 3.18
MEAN MAXW(M/S)=10.41
SD MAXW(M/S) 6.79

VAFB, WL GT 6000M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-.97	1.26	3.83	1.56	-.050	4.21	1.39	6.27
2	3.43	1.22	2.46	.61	-.697	4.37	.75	5.46
3	.34	1.05	-.17	.54	.880	1.18	.39	1.75
4	1.62	1.16	-.71	.67	-.915	1.81	1.29	3.92
5	.27	1.79	-.73	.97	-.270	2.10	.56	3.89
6	-14.12	6.51	-7.25	2.92	.889	15.95	6.96	28.17
7	-4.85	1.80	.28	1.03	.058	4.96	1.79	7.66
8	-.13	.82	-.65	.71	-.360	1.03	.74	2.34
9	-.69	.54	1.11	1.23	.898	1.64	.90	3.49
10	5.21	1.05	4.06	1.26	.742	6.65	1.48	8.72
11	-2.79	1.75	-2.66	1.40	.927	3.88	2.20	7.57
12	.43	.92	-.99	1.02	.766	1.61	.67	2.58
13	-4.51	3.73	-2.60	3.98	.935	6.16	4.34	13.58
14	-1.31	1.10	-3.67	1.75	.922	3.96	1.94	6.89
15	6.41	4.60	8.08	7.12	.826	10.82	7.81	22.37
16	.42	.68	-.06	.81	-.189	1.11	.23	1.60
17	-.84	1.67	6.68	2.23	-.942	6.94	2.22	9.46
18	.76	1.08	3.07	1.44	.503	3.31	1.50	6.42
19	-.52	1.62	1.94	1.65	.856	2.79	1.26	5.28
20	-12.27	4.72	6.53	2.73	-.980	13.92	5.41	18.77
21	-.26	.99	.09	3.83	.688	3.30	2.19	10.88
22	-.23	1.27	2.03	1.27	.568	2.50	1.05	5.09
23	-1.27	1.75	-.24	.92	-.684	2.16	.94	3.77
24	3.55	.34	-.65	1.97	-.726	4.06	.73	5.57
25	-2.09	1.06	-3.04	2.54	.297	4.03	2.21	7.07
26	-1.61	.31	3.25	1.01	-.293	3.65	.95	5.40
27	-3.50	2.37	-.21	.78	-.337	3.72	2.16	7.60
28	-.45	.85	-2.79	3.30	.823	3.75	2.35	6.89
29	-.05	.82	-.32	.94	-.827	1.12	.62	2.33
30	.95	.61	-.30	1.49	-.323	1.78	.63	2.69
31	.73	1.28	1.91	1.05	-.038	2.45	.96	4.11
32	-.17	1.23	3.30	1.07	.714	3.57	.93	4.87
33	-3.69	2.64	1.67	1.78	-.159	4.41	2.66	8.43
34	2.63	2.36	.83	2.21	.930	3.31	2.66	11.53
35	.02	1.15	1.34	1.28	-.838	2.05	.73	3.57
36	-.78	2.08	-3.36	1.21	.788	3.86	1.68	6.56
37	.83	.98	-7.35	7.00	-.263	7.74	6.69	22.95
38	2.58	2.66	-2.36	3.27	.420	5.16	1.83	7.82
39	-3.54	1.64	-3.21	1.12	-.478	5.05	1.13	6.64
40	-4.63	2.99	.68	4.57	-.993	6.13	3.76	14.23
41	-.28	1.74	3.52	.84	-.738	3.91	.94	5.32
42	-2.13	4.46	2.05	1.63	-.870	3.95	3.97	12.53
43	-2.81	1.42	-6.05	1.70	.889	6.72	2.06	9.27
44	-8.10	1.61	-9.77	5.38	.264	13.17	4.40	22.15
45	2.74	2.71	3.79	2.48	.699	5.37	2.56	8.42
46	2.45	1.59	2.92	1.33	.930	3.86	1.98	6.36
47	2.11	2.68	9.40	2.76	.818	9.96	2.88	12.78
48	-3.03	2.50	-4.98	2.38	.106	6.22	2.69	10.14
49	1.04	.43	-2.41	.90	-.289	2.66	.91	3.98
50	2.05	.59	1.17	1.00	.583	2.48	.87	3.70

MEAN DU(M/S)= -.82
MEAN DV(M/S)= .19
SD DU(M/S)= 4.23
SD DV(M/S)= 4.50
R(DU,DV)= .33
MEAN W(M/S)= 4.61
SD W(M/S)= 4.20
SD MEAN(M/S)= 3.27
MEAN MAXW(M/S)= 8.18
SD MAXW(M/S) 5.90

VAFB, WL GT 9000M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.79	.89	3.53	1.72	-.688	3.81	1.51	5.51
2	3.47	.81	2.23	.54	-.108	4.17	.71	4.84
3	.44	.42	-.19	.35	.906	.70	.21	.96
4	1.72	.67	-.56	.56	-.736	1.86	.75	2.97
5	-.06	1.12	-.78	.75	.177	1.44	.61	3.13
6	-14.44	3.87	-7.18	2.82	.782	16.22	4.44	24.87
7	-4.92	.97	.34	.39	-.009	4.94	.97	6.42
8	-.01	.81	-.54	.42	-.158	1.01	.31	1.73
9	-.63	.21	1.15	.62	.690	1.37	.52	2.66
10	5.36	.84	4.16	.80	.904	6.79	1.13	8.21
11	-3.27	.85	-2.66	.40	.819	4.23	.87	5.66
12	.39	.69	-1.17	.48	.820	1.47	.29	1.92
13	-4.79	3.38	-3.07	3.17	.968	5.80	4.49	13.11
14	-1.39	.99	-3.61	1.44	.957	3.90	1.68	6.20
15	6.44	4.27	8.30	5.56	.965	10.56	6.92	20.90
16	.43	.42	-.24	.64	-.455	.86	.28	1.37
17	-.73	1.15	6.52	2.04	-.930	6.65	2.09	8.87
18	.78	.52	3.07	.86	.554	3.19	.91	4.85
19	-.84	1.65	1.82	1.36	.988	2.81	.85	4.71
20	-12.63	4.42	6.54	2.37	-.979	14.23	4.99	18.82
21	.10	.31	.58	1.59	.085	1.45	.92	4.84
22	-.50	1.12	1.95	.64	.611	2.33	.56	3.34
23	-1.32	1.01	-.04	.21	-.886	1.55	.63	2.38
24	3.74	.41	-.46	1.08	-.799	3.90	.53	4.75
25	-2.10	.70	-3.03	1.68	.367	3.83	1.48	5.88
26	-1.59	.49	3.43	.97	.779	3.86	.77	5.10
27	-3.42	2.29	-.14	.31	-.684	3.54	2.12	6.65
28	-.25	.52	-2.54	2.62	.924	3.04	2.10	6.02
29	-.11	.52	-.21	.86	-.943	.93	.44	1.94
30	.95	.34	-.25	.82	-.299	1.30	.27	1.69
31	.81	.99	2.05	.76	.512	2.37	.89	3.91
32	-.19	.74	3.46	.74	.850	3.56	.62	4.46
33	-3.73	1.28	1.99	1.80	-.547	4.41	1.82	8.40
34	3.15	2.56	1.16	2.23	.992	3.65	3.08	10.89
35	-.07	.77	1.29	1.16	-.783	1.71	.84	3.37
36	-.92	1.71	-3.20	1.31	.793	3.62	1.60	5.57
37	.57	.47	-8.11	6.39	.321	8.31	6.17	20.16
38	2.50	2.07	-2.44	1.31	.058	3.96	1.59	6.25
39	-3.42	.98	-3.28	.89	-.380	4.87	.66	5.75
40	-5.24	1.95	.75	3.86	-.996	6.41	2.36	10.70
41	-.25	1.45	3.57	.62	-.684	3.87	.58	4.53
42	-2.24	3.46	2.18	1.03	-.972	3.90	2.76	8.80
43	-2.44	.64	-5.62	1.20	.861	6.14	1.32	7.66
44	-8.10	.45	-9.74	4.12	-.382	13.00	2.93	18.76
45	2.74	2.40	3.41	2.69	.873	4.92	2.80	8.26
46	2.35	1.12	2.93	1.24	.954	3.77	1.66	5.87
47	2.11	2.52	9.65	3.06	.913	10.12	3.31	13.46
48	-2.90	1.30	-4.98	2.14	.515	5.86	2.27	8.88
49	1.01	.33	-2.37	.66	-.658	2.59	.70	3.56
50	1.90	.23	.88	.41	.308	2.12	.31	2.44

MEAN DU(M/S)= -.85
MEAN DV(M/S)= .21
SD DU(M/S)= 4.08
SD DV(M/S)= 4.29
R(DU,DV)= .35
MEAN W(M/S)= 4.42
SD W(M/S)= 4.04
SD MEAN(M/S)= 3.39
MEAN MAXW(M/S)= 7.04
SD MAXW(M/S) 5.45

VAFB,UNFILTERED .SUMMER 3HR WIND CHANGE 3.9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	1.15	1.24	3.23	1.10	.198	3.61	1.22	6.94
2	1.11	1.71	-2.70	.97	.364	3.36	1.01	6.08
3	1.29	1.95	-.54	1.24	.499	2.36	1.31	5.23
4	-.37	1.59	.41	.98	-.164	1.73	.88	4.15
5	-.39	.79	.06	1.59	-.195	1.63	.81	3.93
6	.79	2.23	1.29	1.22	-.024	2.60	1.41	6.02
7	-1.70	1.15	.02	1.18	-.342	2.10	1.09	3.90
8	-.61	1.85	.27	2.52	-.833	2.82	1.49	6.63
9	1.57	2.02	-.33	3.43	-.395	3.76	2.07	9.37
10	2.63	3.33	.23	2.30	.066	4.24	2.30	9.34
11	1.05	2.37	3.13	2.59	.349	4.20	2.35	10.20
12	-.39	1.55	-2.26	1.44	.221	2.80	1.37	6.16
13	-.67	2.20	2.33	2.42	.673	3.50	2.07	8.37
14	.09	2.03	2.64	2.45	.519	3.55	2.11	11.51
15	.26	2.76	.11	3.69	.523	4.16	1.99	8.50
16	.33	1.42	-.97	3.02	.310	3.00	1.79	7.61
17	.43	1.88	-.31	1.96	.175	2.54	1.08	4.62
18	-1.90	2.52	.04	2.16	.360	3.39	1.77	6.51
19	5.90	2.47	-.43	3.48	.475	7.11	1.59	10.26
20	-2.85	2.48	-1.26	1.88	.471	3.93	1.99	7.63
21	1.20	3.28	1.85	2.52	.449	4.26	1.94	9.52
22	1.54	3.13	-.75	2.15	-.616	3.72	1.87	7.95
23	.12	.90	.08	.98	.177	1.20	.58	2.41
24	-1.61	1.21	-1.97	1.74	.147	3.01	1.39	6.52
25	.96	1.22	.66	1.39	.404	1.87	1.14	4.40
26	1.95	1.60	3.07	.87	.066	3.90	1.15	5.79
27	-.77	.74	-1.89	1.33	-.076	2.28	1.14	4.78
28	-1.25	4.07	.42	1.62	.565	2.55	3.80	34.43
29	-4.68	1.32	-.04	2.01	-.155	5.08	1.39	7.39
30	-8.01	3.04	-4.27	2.37	.704	9.24	3.48	17.97
31	-1.37	1.22	-.06	1.34	-.271	2.04	.98	4.05
32	.14	1.39	.02	1.07	-.370	1.56	.81	3.54
33	-.19	1.68	.84	2.00	.549	2.36	1.40	6.13
34	-.27	1.61	-.61	1.72	-.219	2.29	.86	3.94
35	.67	1.92	.41	5.70	.863	4.55	3.99	11.57
36	.01	1.18	-1.74	1.87	.105	2.55	1.20	5.06
37	1.23	1.25	1.69	1.87	-.363	2.77	1.31	5.37
38	-.18	2.12	.90	2.44	.024	3.10	1.29	6.12
39	-1.94	2.64	3.35	4.30	.344	5.76	2.69	9.00
40	-2.30	2.77	-1.05	2.11	.423	3.60	2.35	9.58
41	.27	1.86	-.54	3.12	.095	3.06	2.05	9.42
42	.83	2.32	.57	1.70	.055	2.65	1.50	7.17
43	.35	1.30	-.16	.62	.162	1.25	.82	2.93
44	.63	2.43	-.48	1.21	.169	2.64	1.00	4.07
45	-.50	1.59	.96	1.28	.217	2.05	.98	5.09
46	-.47	1.42	.88	1.22	.449	1.89	.96	4.33
47	-.32	1.82	-.39	1.41	-.627	2.06	1.14	6.36
48	.07	1.27	-.10	1.68	-.040	1.85	1.01	4.16
49	-.43	1.66	1.66	.87	.133	2.33	1.00	4.27
50	-.14	.75	.41	2.11	.173	1.90	1.25	5.63

MEAN DU(M/S)= -.14
MEAN DV(M/S)= -.03
SD DU(M/S)= 2.77
SD DV(M/S)= 2.66
R(DU,DV)= .25
MEAN W(M/S)= 3.11
SD W(M/S)= 2.25
SD MEAN(M/S)= 1.45
MEAN MAXW(M/S)= 7.24
SD MAXW(M/S) 4.82

VAFB,WL GT 500M ,SUMMER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	1.16	1.23	3.23	1.08	.207	3.60	1.20	6.83
2	1.11	1.66	-2.70	.88	.449	3.35	.89	5.54
3	1.29	1.95	-.54	1.23	.508	2.37	1.29	5.08
4	-.37	1.57	.41	.97	.180	1.71	.88	4.12
5	-.38	.77	.06	1.58	.182	1.61	.81	3.84
6	.79	2.22	1.30	1.21	.034	2.59	1.41	6.01
7	-1.70	1.14	.02	1.16	.342	2.08	1.09	3.90
8	-.61	1.84	.28	2.52	-.852	2.80	1.52	6.53
9	1.57	2.02	-.33	3.43	.400	3.76	2.05	8.95
10	2.63	3.33	.22	2.29	.064	4.24	2.31	9.35
11	1.05	2.37	3.13	2.59	.256	4.19	2.37	9.96
12	-.39	1.56	-2.25	1.42	.238	2.79	1.38	6.04
13	-.67	2.20	-2.32	2.43	.676	3.50	2.07	8.49
14	.08	2.04	-2.64	2.48	.535	3.56	2.14	11.70
15	.26	2.75	.12	3.71	.524	.15	2.03	8.45
16	.33	1.42	-.97	3.04	.306	3.01	1.79	7.84
17	.44	1.85	-.32	1.94	.186	2.52	1.05	4.32
18	-1.90	2.52	.05	2.14	.359	3.41	1.71	6.31
19	5.90	2.48	-.42	3.48	.479	7.12	1.57	10.27
20	-2.85	2.49	-1.26	1.87	.478	3.92	1.99	7.63
21	1.20	3.28	1.85	2.52	.467	4.27	1.92	9.71
22	1.54	3.14	-.75	2.15	.617	3.72	1.87	8.02
23	.12	.89	.08	.97	.207	1.20	.56	2.45
24	-1.61	1.19	-1.97	1.73	.134	2.99	1.40	6.52
25	.96	1.22	.67	1.40	.404	1.87	1.15	4.36
26	1.94	1.59	3.08	.81	.023	3.90	1.11	5.64
27	-.77	.73	-1.90	1.33	.073	2.28	1.14	4.80
28	-1.24	3.55	.43	1.58	.577	2.49	3.26	27.80
29	-4.68	1.32	-.04	2.02	-.162	5.08	1.39	7.20
30	-8.01	3.06	-4.27	2.35	.707	9.23	3.48	18.38
31	-1.37	1.21	-.06	1.34	-.282	2.05	.97	4.01
32	.14	1.39	.02	1.06	.371	1.55	.81	3.43
33	-.20	1.67	.84	1.99	.595	2.33	1.42	6.19
34	-.26	1.60	-.51	1.72	.219	2.29	.83	3.70
35	.67	1.91	.41	5.70	.979	4.50	4.04	12.03
36	.01	1.18	-1.74	1.87	.101	2.55	1.19	4.94
37	1.23	1.23	1.69	1.88	.361	2.77	1.30	5.42
38	-.18	2.11	.91	2.44	.026	3.09	1.30	6.16
39	-1.94	2.64	3.35	4.30	.338	5.76	2.68	9.05
40	-2.29	2.79	-1.05	2.12	.423	3.62	2.35	9.75
41	.27	1.86	-.53	3.15	.090	3.07	2.08	9.41
42	.83	2.33	.57	1.70	.051	2.67	1.49	7.19
43	.35	1.30	-.16	.58	.155	1.22	.83	3.07
44	.63	2.42	-.48	1.20	.166	2.63	.99	4.12
45	-.50	1.58	.86	1.27	.239	2.04	.97	5.12
46	-.46	1.41	.88	1.21	-.461	1.87	.97	4.22
47	-.32	1.81	-.39	1.36	-.626	2.05	1.08	5.84
48	.07	1.27	-.10	1.66	.042	1.83	1.02	4.11
49	-.43	1.62	1.66	.84	-.171	2.30	1.01	4.19
50	-.14	.71	.41	2.12	.158	1.89	1.26	5.54

MEAN DU(M/S)= -.13
MEAN DV(M/S)= -.03
SD DU(M/S)= 2.75
SD DV(M/S)= 2.66
R(DU,DV)= .25
MEAN W(M/S)= 3.11
SD W(M/S)= 2.23
SD MEAN(M/S)= 1.46
MEAN MAXW(M/S)= 7.07
SD MAXW(M/S) 4.15

VAFB,WL GT 1500M ,SUMMER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	1.13	1.09	3.18	.90	.234	3.50	1.04	6.06
2	1.10	1.46	-2.67	.71	.611	3.25	.66	4.47
3	1.27	1.73	.54	1.10	.579	2.24	1.04	4.61
4	-.36	1.41	.38	.81	.353	1.50	.81	3.21
5	-.40	.67	.04	1.39	.294	1.43	.69	3.48
6	.77	1.90	1.27	1.08	.023	2.42	1.06	4.25
7	-1.73	.92	.02	.97	.562	2.00	.88	3.09
8	-.61	1.60	.26	2.30	.928	2.40	1.58	5.99
9	1.56	1.87	-.33	3.24	.436	3.60	1.87	7.15
10	2.60	3.18	.26	2.19	.089	4.01	2.37	9.38
11	1.08	2.14	3.09	2.47	.443	3.96	2.40	8.79
12	-.35	1.32	-2.28	1.25	.273	2.66	1.24	5.34
13	-.63	2.06	-2.35	2.32	.733	3.43	1.95	7.31
14	.07	2.01	-2.60	2.22	.571	3.47	1.92	10.70
15	.32	2.51	.09	3.55	.623	3.93	1.87	8.05
16	.31	1.18	-.90	2.91	.362	2.87	1.59	6.47
17	.40	1.58	-.34	1.65	.283	2.23	.70	3.51
18	-1.86	2.19	.07	1.73	.353	3.13	1.19	5.47
19	5.85	2.20	-.47	3.35	.554	6.97	1.34	9.25
20	-2.83	2.37	-1.23	1.72	.454	3.81	1.90	7.02
21	1.18	3.05	1.83	2.05	.493	3.93	1.65	8.54
22	1.57	2.91	.74	1.97	.701	3.47	1.80	7.52
23	.11	.72	.09	.85	.181	1.05	.41	1.60
24	-1.61	.98	-1.96	1.58	.141	2.88	1.28	5.96
25	.96	1.15	.66	1.30	.483	1.78	1.07	4.02
26	1.93	1.20	3.10	.64	.375	3.79	.91	5.38
27	-.76	.60	-1.88	1.23	.062	2.19	1.08	4.27
28	-1.32	2.72	.46	1.32	.646	2.30	2.41	15.00
29	-4.73	1.30	.05	1.69	.119	5.05	1.22	8.07
30	-8.08	3.01	-4.30	2.28	.765	9.27	3.48	18.73
31	-1.35	1.10	-.06	.88	.311	1.81	.74	3.17
32	.15	1.27	.04	.83	.595	1.35	.70	2.30
33	-.18	1.48	.83	1.85	.636	2.14	1.30	4.84
34	-.27	1.36	-.63	1.56	-.235	2.12	.52	3.30
35	.64	1.63	.38	5.21	.931	3.90	3.88	12.26
36	.04	.81	-1.74	1.78	.138	2.29	1.27	4.31
37	1.18	.99	1.70	1.75	.254	2.54	1.37	5.11
38	-.19	1.89	.37	2.22	.067	2.90	1.01	5.13
39	-1.94	2.49	3.37	4.18	.348	5.71	2.48	8.88
40	-2.25	2.65	-1.00	1.93	.462	3.45	2.20	8.52
41	.25	1.72	-.53	2.63	.015	2.67	1.75	7.39
42	.81	1.99	.54	1.46	.165	2.36	1.21	5.13
43	.32	1.20	-.14	.40	.065	1.12	.68	2.57
44	.62	2.29	-.48	.90	.271	2.49	.67	3.47
45	-.55	1.34	.84	.92	.091	1.67	.93	4.46
46	-.49	1.29	.95	1.11	-.589	1.77	.95	4.47
47	-.31	1.50	-.38	.85	.501	1.58	.83	3.13
48	.06	1.08	-.09	1.01	.157	1.25	.81	3.40
49	-.42	1.43	1.62	.68	-.159	2.14	.84	3.68
50	-.13	.47	.41	2.00	.238	1.64	1.30	4.77

MEAN DU(M/S)= -.14
MEAN DV(M/S)= -.03
SD DU(M/S)= 2.61
SD DV(M/S)= 2.49
R(DU,DV)= .27
MEAN W(M/S)= 2.91
SD W(M/S)= 2.14
SD MEAN(M/S)= 1.49
MEAN MAXW(M/S)= 6.06
SD MAXW(M/S) 3.24

VAFB,WL GT 3000M ,SUMMER 3HR WIND CHANGE 3-9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V COMPONENT CHANGE MEAN	V COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	1.04	.56	3.18	.76	.068	3.39	.75	5.18
2	1.03	1.28	-2.57	.49	.521	3.04	.59	4.04
3	1.23	1.12	.48	.92	.367	1.82	.73	2.75
4	-.40	1.07	.42	.66	.367	1.22	.65	2.66
5	-.33	.50	.02	1.35	.195	1.31	.68	3.35
6	.83	1.91	1.11	1.06	.123	2.43	.89	4.03
7	-1.68	.79	.02	.76	.861	1.89	.67	2.88
8	-.65	1.37	.22	1.97	.313	2.19	1.20	4.55
9	1.47	1.55	.49	2.72	.765	3.19	1.40	5.58
10	2.53	2.99	.37	2.11	.042	3.77	2.40	9.56
11	.99	1.80	2.93	2.05	.414	3.64	1.93	7.04
12	-.39	.92	-2.27	1.00	.100	2.53	.86	3.80
13	-.58	1.88	2.35	2.15	.917	3.16	2.00	6.84
14	-.07	1.82	2.60	1.79	.671	3.12	1.87	7.57
15	.35	2.32	.11	2.78	.943	3.19	1.74	7.40
16	.35	.94	.83	2.46	.697	2.60	.98	4.27
17	.43	1.08	.35	1.46	.521	1.78	.66	2.67
18	-1.81	1.92	.11	1.50	.513	2.80	1.14	4.73
19	5.80	1.73	.53	3.01	.368	6.67	1.23	8.66
20	-2.90	2.25	-1.18	1.40	.521	3.55	2.06	6.83
21	1.01	3.01	1.70	1.38	.595	3.65	1.24	6.11
22	1.44	2.71	.73	1.79	.926	3.03	1.98	6.98
23	.12	.36	.12	.63	.549	.73	.15	1.02
24	-1.74	1.09	-2.01	1.20	.297	2.94	1.03	4.85
25	.94	1.00	.62	.87	.586	1.49	.90	3.27
26	1.97	.96	3.06	.61	.830	3.68	.96	5.35
27	-.77	.54	1.81	.99	.098	2.10	.83	3.63
28	-1.37	2.03	.37	.81	.509	1.84	1.84	9.37
29	-4.92	1.46	-.02	1.30	.110	5.08	1.48	9.94
30	-8.16	2.64	-4.41	2.20	.325	9.33	3.29	18.38
31	-1.37	.99	-.05	.54	-.171	1.58	.81	2.82
32	.09	1.23	.02	.65	.851	1.24	.64	2.07
33	-.17	1.29	.65	.98	.781	1.59	.73	2.92
34	-.26	1.23	.69	1.47	.359	2.00	.45	3.78
35	.66	1.11	.50	3.21	.796	2.75	2.15	7.34
36	-.01	.69	-1.73	1.64	.159	2.12	1.30	4.38
37	1.20	.76	1.75	1.06	.384	2.34	.85	3.84
38	-.16	1.75	.94	1.88	.165	2.64	.69	3.87
39	-1.93	1.94	3.37	4.08	.540	5.46	2.35	8.82
40	-2.18	2.42	-1.04	1.37	.252	3.04	2.08	7.20
41	.27	1.00	-.59	1.89	.477	2.03	.92	3.80
42	.64	1.39	.63	.81	.290	1.74	.60	2.66
43	.34	.97	-.14	.35	.335	.99	.46	1.87
44	.62	2.11	-.34	.75	.324	2.28	.54	3.38
45	-.53	1.10	.87	.87	-.025	1.58	.71	3.89
46	-.57	1.14	.93	.88	-.792	1.55	.93	3.32
47	-.33	1.16	-.22	.55	.185	1.19	.63	2.51
48	.10	.72	-.18	.63	.232	.87	.45	2.28
49	-.50	1.38	1.58	.43	-.222	2.06	.75	3.31
50	-.11	.35	.30	1.37	.468	1.11	.94	3.76

MEAN DU(M/S)= -.17
MEAN DV(M/S)= -.04
SD DU(M/S)= 2.45
SD DV(M/S)= 2.20
R(DU,DV)= .23
MEAN W(M/S)= 2.63
SD W(M/S)= 2.00
SD MEAN(M/S)= 1.52
MEAN MAXW(M/S)= 5.02
SD MAXW(M/S) 2.93

VAFB,WL GT 6000M ,SUMMER 3HR WIND CHANGE 3 9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V COMPONENT CHANGE MEAN	V COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	1.04	.42	3.23	.70	.967	3.43	.67	4.63
2	1.27	.79	2.82	.71	.937	3.24	.39	3.86
3	1.30	.90	.50	.67	.771	1.73	.45	2.33
4	-.48	.35	.42	.52	.312	.85	.29	1.50
5	-.55	1.03	.14	.74	.629	1.14	.78	3.24
6	.90	.65	1.10	.91	.830	1.79	.21	2.11
7	-2.06	.76	.03	.61	.954	2.16	.70	3.10
8	-.46	.90	.18	1.92	.959	2.02	.82	3.33
9	1.64	.92	-.71	1.86	.923	2.47	1.17	4.49
10	2.24	2.53	.76	2.41	.727	3.19	2.75	9.99
11	.90	.73	2.97	1.69	.449	3.19	1.68	6.61
12	-.45	.75	2.36	.84	.396	2.54	.75	3.55
13	-.69	1.35	2.97	1.27	.977	3.22	1.33	5.20
14	-.16	1.07	2.44	2.26	.819	3.10	1.62	6.20
15	.53	1.63	.05	2.27	.955	2.48	1.40	6.18
16	.17	.29	-1.21	2.01	.834	2.14	1.00	3.72
17	.24	1.10	.13	.96	.818	1.33	.66	3.03
18	-2.18	1.14	.10	1.70	.759	2.93	.57	3.90
19	6.20	1.02	.88	2.46	.714	6.77	.70	8.07
20	-2.52	2.02	-1.04	.56	.041	2.93	1.80	5.21
21	1.07	2.26	1.83	.76	.929	3.00	1.09	4.94
22	1.33	1.48	.55	.91	.969	1.85	1.28	3.91
23	.02	.31	.14	.50	.867	.57	.20	1.08
24	-1.71	.64	-1.87	1.01	.557	2.74	.59	3.87
25	.99	.45	.42	.50	.682	1.15	.53	2.09
26	2.03	1.05	3.00	.64	.987	3.68	1.05	6.13
27	-.82	.25	1.91	.60	.485	2.12	.47	2.75
28	-1.66	1.58	.24	.52	.209	1.86	1.45	6.18
29	-4.84	1.79	.20	1.40	.808	5.02	1.82	11.50
30	-8.45	2.86	-4.57	2.71	.993	9.66	3.81	18.29
31	-1.14	.53	.03	.36	.666	1.20	.53	2.04
32	.18	.64	-.08	.29	.867	.62	.37	1.37
33	-.43	.54	.59	.39	.596	.92	.35	1.56
34	-.22	1.38	.91	1.47	.902	1.99	.96	4.87
35	.79	.66	.26	2.74	.427	2.41	1.67	5.19
36	.09	.40	1.75	.94	.781	1.82	.89	3.16
37	1.21	.59	1.90	.28	.535	2.33	.31	2.85
38	-.39	1.18	.88	1.17	.281	1.82	.62	2.61
39	-2.27	1.85	3.30	3.99	.907	5.69	1.74	8.35
40	-2.18	1.29	1.04	.98	.905	2.57	1.35	4.59
41	.29	.95	.76	1.75	.816	1.86	1.08	4.95
42	.68	.78	.69	.56	.726	1.18	.68	2.38
43	.17	1.09	.14	.10	.411	1.04	.41	1.99
44	.68	2.34	.05	.54	.120	2.34	.85	3.25
45	-.65	.84	1.08	.60	.358	1.44	.76	3.18
46	-.40	.74	1.12	1.09	.356	1.44	1.03	3.86
47	-.16	.73	-.22	.50	.462	.87	.32	1.48
48	-.12	.38	.03	.98	.253	.94	.48	2.05
49	-.43	1.11	1.60	.23	.293	1.98	.31	2.45
50	-.22	.20	.27	.47	.023	.50	.36	1.54

MEAN DU(M/S)= -.19
MEAN DV(M/S)= -.06
SD DU(M/S)= 2.29
SD DV(M/S)= 2.09
R(DU,DV)= .33
MEAN W(M/S)= 2.39
SD W(M/S)= 1.98
SD MEAN(M/S)= 1.63
MEAN MAXW(M/S)= 4.30
SD MAXW(M/S) 2.99

VAFB,WL GT 9000M ,SUMMER 3HR WIND CHANGE 3.9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	VECTOR WIND CHANGE R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.94	.51	3.45	.18	.496	3.62	.15	3.84
2	1.11	.51	-2.89	.75	.748	3.18	.55	3.77
3	1.24	.58	-.59	.45	.717	1.53	.25	1.89
4	-.50	.29	.55	.54	.772	.92	.29	1.67
5	-.34	.66	.30	.20	.733	.79	.24	1.13
6	.71	.39	.87	.50	.723	1.28	.18	1.56
7	-1.92	.84	-.05	.37	.730	2.00	.75	2.95
8	-.46	.46	.16	1.20	.931	1.28	.48	1.91
9	1.58	.58	-.62	.99	.925	1.87	.83	3.13
10	2.81	2.61	1.41	2.09	.966	3.35	3.14	9.10
11	.81	.44	2.96	.75	.907	3.10	.74	4.38
12	-.38	.92	-2.26	.67	.609	2.48	.62	3.52
13	-.47	.89	2.73	.76	.932	2.89	.83	4.12
14	-.06	1.54	2.54	1.58	.961	3.15	1.17	5.08
15	.47	1.32	-.12	.83	.889	1.42	.81	3.19
16	.29	.26	.75	1.99	.847	2.00	.83	3.49
17	.36	1.00	.11	1.14	.953	1.36	.76	3.05
18	-1.97	1.09	.16	1.17	.856	2.47	.62	3.34
19	6.22	.43	-1.17	2.83	.693	6.89	.79	9.17
20	-2.65	1.42	-1.05	.46	.512	2.98	1.22	4.43
21	.61	1.41	1.63	.58	.961	2.21	.68	3.31
22	1.29	.84	.59	.51	.972	1.44	.95	2.86
23	-.08	.31	.12	.46	.976	.52	.25	.99
24	-1.81	.69	1.79	.63	.827	2.69	.35	3.45
25	1.07	.18	.35	.28	.116	1.16	.15	1.45
26	2.09	.93	3.10	1.16	.931	3.75	1.45	6.85
27	-.89	.16	1.84	.35	.977	2.06	.29	2.36
28	-1.79	1.19	.17	.14	.569	1.88	1.07	3.82
29	-5.06	2.97	.03	1.40	.965	5.25	2.97	13.55
30	-9.06	3.36	-5.01	3.06	.998	10.41	4.41	18.57
31	-1.27	.40	.04	.10	.591	1.27	.40	2.07
32	.11	.30	.08	.22	.707	.35	.17	.76
33	-.43	.46	.56	.14	.475	.83	.21	1.09
34	-.10	1.02	-1.08	1.55	.941	1.87	1.05	4.49
35	.93	1.06	.43	1.21	.640	1.60	1.03	3.67
36	.16	.18	-1.78	.61	.194	1.80	.60	2.62
37	1.27	.32	1.94	.51	.933	2.37	.37	3.37
38	-.12	.75	1.06	.98	.942	1.47	.69	2.22
39	-2.04	1.91	3.66	3.08	.865	5.36	1.40	7.46
40	-2.44	1.13	.84	.49	.449	2.62	1.14	3.88
41	-.06	1.14	.99	1.39	.886	1.84	.91	3.90
42	.68	.60	.77	.47	.952	1.06	.71	2.36
43	-.01	.97	.14	.25	.638	.93	.40	1.66
44	.55	1.73	.18	.17	.982	1.67	.76	2.76
45	-.69	.83	1.10	.37	.945	1.43	.70	2.90
46	-.21	.68	1.37	1.05	.768	1.62	.92	3.08
47	-.13	.53	.16	.31	.714	.60	.24	1.00
48	-.16	.33	.18	.89	.404	.92	.32	1.64
49	-.53	.96	1.57	.11	.104	1.90	.26	2.29
50	-.24	.16	.47	.33	.574	.55	.33	1.36

MEAN DU(M/S)= .21
MEAN DV(M/S)= .02
SD DU(M/S)= 2.32
SD DV(M/S)= 1.96
R(DU,DV)= .37
MEAN W(M/S)= 2.24
SD W(M/S)= 2.06
SD MEAN(M/S)= 1.75
MEAN MAXW(M/S)= 3.73
SD MAXW(M/S) 3.17

VAFB UNFILTERED SUMMER 3HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.17	2.73	2.02	2.79	-.083	4.13	1.50	8.63
2	.22	2.01	-.45	2.90	.228	3.13	1.69	6.37
3	.52	1.10	.42	1.44	.305	1.68	.95	4.68
4	-.32	2.11	.71	2.22	.351	2.77	1.51	5.85
5	-.49	2.09	-.49	1.67	.147	2.46	1.25	5.09
6	2.64	3.00	-.06	1.86	.147	3.94	1.98	7.96
7	1.62	3.29	-1.17	1.85	-.514	3.48	2.46	9.09
8	-.92	2.37	-.35	2.76	.008	3.37	1.68	6.74
9	-.46	1.94	-.84	2.15	-.067	2.61	1.58	6.83
10	4.50	4.45	.70	6.29	.407	8.17	3.65	14.19
11	.26	2.32	2.13	1.99	.316	3.42	1.49	7.76
12	1.06	2.68	-3.06	2.19	-.158	4.36	1.85	8.29
13	-1.27	2.42	-.25	1.96	-.310	3.14	1.22	5.69
14	3.94	4.51	1.36	4.28	-.511	6.68	3.36	16.07
15	.97	3.16	-.30	1.95	-.159	3.41	1.77	7.24
16	1.18	2.95	3.89	3.18	.055	5.69	1.70	10.49
17	1.66	3.46	1.58	4.41	-.326	5.69	2.05	10.36
18	.51	2.31	.90	1.82	-.531	2.95	.99	4.90
19	3.98	3.14	-4.67	4.55	-.628	7.74	2.85	12.86
20	-4.37	1.53	.82	1.47	.138	4.73	1.40	8.72
21	-2.12	2.34	-1.52	2.56	-.170	3.82	2.04	6.85
22	.63	2.83	.24	1.89	-.011	2.90	1.89	8.95
23	.43	1.24	.75	.79	-.290	1.52	.78	3.62
24	-3.75	1.93	-3.91	2.07	-.221	5.90	1.59	9.49
25	.73	1.43	.31	1.31	-.191	1.90	.87	4.37
26	3.02	1.70	6.82	2.00	-.099	7.72	1.74	11.46
27	-.13	1.63	-.92	1.46	.018	2.13	1.04	5.48
28	-.86	2.31	.43	2.21	.379	3.02	1.41	6.02
29	-18.05	4.22	-3.67	1.99	.567	18.50	4.31	23.82
30	-11.06	4.70	-8.57	4.22	.875	14.12	6.02	22.40
31	-2.05	2.39	-1.16	2.13	-.684	3.55	1.78	7.86
32	-.32	1.19	.43	1.52	.094	1.70	1.05	6.29
33	.00	4.24	-.46	4.83	.790	4.27	4.82	33.01
34	-.26	2.97	-3.68	2.68	.019	4.82	2.52	10.10
35	3.64	3.04	3.91	9.73	.449	9.74	6.11	24.55
36	-.05	2.34	.41	1.59	.027	2.46	1.45	6.22
37	2.24	1.51	2.46	1.64	.290	3.69	1.55	6.93
38	1.52	2.13	.95	2.18	.211	3.28	1.33	6.09
39	2.09	3.17	2.96	4.33	.192	6.05	2.29	10.67
40	-1.33	2.93	-.34	2.21	-.585	2.92	2.60	9.60
41	-1.72	2.80	-1.48	3.16	.000	4.20	2.31	9.91
42	-.46	3.21	1.20	2.27	.666	3.20	2.61	11.85
43	.61	2.96	.33	2.47	-.282	3.29	2.12	11.23
44	-1.22	3.50	-2.98	3.55	-.775	5.42	2.42	12.83
45	-2.30	1.65	.99	2.38	-.067	3.55	1.43	6.33
46	-.54	3.39	.89	2.77	.637	3.96	2.13	8.92
47	-1.78	1.95	.38	2.12	-.408	2.62	2.17	8.22
48	.83	2.44	-.28	2.73	-.269	3.52	1.32	5.99
49	-1.44	2.10	1.40	1.77	.307	3.20	1.15	5.71
50	-.34	1.31	.83	1.71	.267	1.98	1.22	4.85

MEAN DU(M/S)= -.37
MEAN DV(M/S)= -.01
SD DU(M/S)= 4.43
SD DV(M/S)= 3.84
R(DU,DV)= .30
MEAN W(M/S)= 4.45
SD W(M/S)= 3.83
SD MEAN(M/S)= 3.04
MEAN MAXW(M/S)= 9.55
SD MAXW(M/S) 5.68

VAFB, WL GT 500M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.17	2.64	2.02	2.77	-.078	4.04	1.52	8.62
2	.21	1.96	-.45	2.87	.233	3.11	1.63	6.31
3	.52	1.07	.42	1.42	.320	1.65	.95	4.70
4	-.32	2.11	.72	2.19	.359	2.75	1.50	5.89
5	-.49	2.07	-.49	1.64	.147	2.43	1.24	4.99
6	2.63	2.99	-.07	1.85	.159	3.91	1.98	8.01
7	1.62	3.26	-1.17	1.82	-.554	3.44	2.46	9.04
8	-.92	2.36	-.36	2.73	.011	3.35	1.65	6.61
9	-.46	1.87	-.84	2.13	-.051	2.54	1.57	7.08
10	4.50	4.39	.71	6.30	.409	8.15	3.62	14.08
11	.26	2.29	2.13	1.93	.325	3.37	1.47	7.53
12	1.06	2.66	-3.06	2.17	-.152	4.37	1.78	8.08
13	-1.27	2.41	-.26	1.91	-.319	3.12	1.17	5.55
14	3.95	4.51	1.37	4.29	-.514	6.70	3.35	16.03
15	.98	3.16	-.30	1.95	-.164	3.41	1.79	7.31
16	1.18	2.93	3.90	3.19	.060	5.69	1.70	10.13
17	1.65	3.46	1.58	4.43	-.327	5.70	2.03	10.23
18	.50	2.27	.90	1.77	-.536	2.90	.94	4.48
19	3.97	3.12	-4.68	4.52	-.640	7.72	2.85	12.62
20	-4.38	1.52	.83	1.41	.153	4.71	1.41	8.50
21	-2.12	2.34	-1.52	2.52	-.181	3.79	2.06	7.13
22	.63	2.79	.25	1.84	-.001	2.88	1.81	8.46
23	.43	1.23	.75	.77	-.306	1.51	.77	3.66
24	-3.74	1.92	-3.91	2.06	-.231	5.90	1.56	9.20
25	.73	1.41	.31	1.28	-.196	1.88	.83	4.25
26	3.03	1.66	6.82	2.00	-.087	7.71	1.74	11.52
27	-.13	1.62	-.92	1.44	.040	2.12	1.02	5.49
28	-.86	2.29	.42	2.19	.380	3.01	1.38	5.70
29	-18.06	4.20	-3.67	1.95	.589	18.51	4.30	23.81
30	-11.07	4.68	-8.58	4.19	.880	14.12	6.02	22.18
31	-2.06	2.39	-1.16	2.13	-.687	3.55	1.81	8.05
32	-.32	1.17	.43	1.51	.103	1.70	1.03	5.95
33	.00	4.02	-.46	4.40	.765	4.23	4.23	26.23
34	-.26	2.91	-3.68	2.62	.045	4.70	2.62	10.06
35	3.65	2.98	3.91	9.69	.471	9.75	6.01	24.11
36	-.04	2.33	.41	1.58	.035	2.46	1.43	6.09
37	2.24	1.49	2.46	1.63	.324	3.67	1.56	6.94
38	1.53	2.13	.95	2.17	.229	3.27	1.34	5.98
39	2.09	3.18	2.97	4.35	.188	6.09	2.25	10.64
40	-1.32	2.94	-.34	2.19	-.588	2.91	2.62	9.66
41	-1.72	2.81	-1.49	3.17	-.002	4.22	2.30	9.91
42	-.47	3.22	1.20	2.27	.676	3.20	2.64	11.94
43	.61	2.97	.33	2.47	-.286	3.30	2.12	11.09
44	-1.22	3.51	-2.98	3.56	-.776	5.43	2.43	12.77
45	-2.30	1.64	.99	2.38	-.063	3.55	1.42	6.11
46	-.55	3.40	.89	2.78	.634	3.97	2.14	9.04
47	-1.78	1.92	.38	2.11	-.422	2.60	2.16	8.15
48	.83	2.45	-.28	2.74	-.270	3.53	1.33	5.80
49	-1.45	2.14	1.40	1.78	.321	3.24	1.13	6.25
50	-.34	1.29	.83	1.68	.254	1.97	1.17	4.61

MEAN DU(M/S)= -.37
MEAN DV(M/S)= -.01
SD DU(M/S)= 4.42
SD DV(M/S)= 3.82
R(DU,DV)= .30
MEAN W(M/S)= 4.44
SD W(M/S)= 3.81
SD MEAN(M/S)= 3.05
MEAN MAXW(M/S)= 9.33
SD MAXW(M/S) 5.15

VAFB, WL GT 1500M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.18	2.21	2.04	2.51	-.179	3.66	1.40	6.65
2	.20	1.37	-.46	2.47	.332	2.59	1.24	5.15
3	.52	.91	.46	1.13	.565	1.38	.82	3.79
4	-.31	1.99	.78	1.83	.481	2.61	1.08	5.17
5	-.49	1.92	-.45	1.28	.279	2.04	1.26	4.81
6	2.61	2.82	-.08	1.59	.248	3.76	1.79	6.22
7	1.65	3.02	-1.15	1.54	-.699	3.17	2.33	8.78
8	-.94	1.91	-.37	2.26	.062	2.87	1.22	5.68
9	-.37	1.23	-.85	1.62	-.043	2.02	.95	4.16
10	4.49	4.01	.63	6.00	.436	7.75	3.52	13.94
11	.27	2.02	2.12	1.49	.342	3.02	1.32	6.50
12	1.10	2.03	-3.11	1.66	-.049	3.97	1.42	7.48
13	-1.33	2.08	-.28	1.32	-.500	2.72	.70	4.37
14	3.96	4.23	1.24	3.87	-.519	6.29	3.22	13.56
15	1.02	2.76	-.28	1.52	-.059	2.93	1.58	6.01
16	1.09	2.40	3.87	2.94	.112	5.42	1.08	7.31
17	1.66	3.09	1.57	4.18	-.375	5.40	1.72	8.63
18	.43	2.16	.85	1.48	-.587	2.67	.77	3.97
19	3.89	2.90	-4.62	4.07	-.725	7.08	3.36	11.52
20	-4.39	1.37	.81	.97	.048	4.58	1.35	8.12
21	-2.05	2.03	-1.46	2.06	-.128	3.30	1.94	6.18
22	.55	2.05	.24	1.44	-.004	2.33	1.08	5.10
23	.43	1.17	.76	.58	-.429	1.40	.72	3.17
24	-3.70	1.50	-3.86	1.86	-.153	5.67	1.47	7.57
25	.72	1.17	.31	1.10	-.325	1.68	.60	3.26
26	3.00	1.60	6.77	1.84	-.016	7.63	1.63	10.61
27	-.14	1.39	-.92	1.18	.229	1.95	.62	3.53
28	-.87	2.13	.37	1.98	.362	2.77	1.28	5.16
29	-17.95	4.04	-3.64	1.71	.686	18.38	4.11	23.15
30	-11.03	4.34	-8.55	4.03	.929	14.03	5.75	20.98
31	-2.13	2.14	-1.10	2.02	-.724	3.35	1.77	7.93
32	-.29	1.08	.42	1.39	.236	1.59	.90	4.74
33	-.08	3.20	-.46	2.79	.702	3.48	2.47	12.23
34	-.22	2.57	-3.70	2.30	.134	4.43	2.45	8.67
35	3.68	2.57	3.95	9.05	.524	9.23	5.69	20.07
36	-.09	2.06	.34	1.19	.061	2.13	1.09	4.39
37	2.28	1.30	2.45	1.38	.351	3.54	1.51	6.51
38	1.53	1.90	.91	1.95	.253	2.93	1.41	5.24
39	2.15	2.90	2.95	4.02	.237	5.76	2.15	9.43
40	-1.34	2.81	-.34	1.92	-.653	2.73	2.45	9.12
41	-1.72	2.63	-1.49	2.92	-.012	3.91	2.30	9.09
42	-.43	2.99	1.26	2.00	.731	3.12	2.22	10.13
43	.59	2.65	.32	2.26	-.260	3.08	1.74	9.38
44	-1.19	3.35	-2.97	3.35	-.807	5.30	2.13	10.73
45	-2.30	1.47	.96	1.87	-.083	3.14	1.41	5.41
46	-.55	3.21	.88	2.56	.726	3.80	1.85	8.41
47	-1.79	1.37	.41	1.17	-.558	2.17	1.39	5.05
48	.82	2.31	-.26	2.58	-.296	3.34	1.24	5.34
49	-1.54	1.87	1.36	1.59	.493	3.02	1.06	7.21
50	-.33	.88	.85	1.36	.049	1.62	.91	3.47

MEAN DU(M/S)= -.37
MEAN DV(M/S)= -.01
SD DU(M/S)= 4.23
SD DV(M/S)= 3.56
R(DU,DV)= .32
MEAN W(M/S)= 4.13
SD W(M/S)= 3.69
SD MEAN(M/S)= 3.07
MEAN MAXW(M/S)= 7.86
SD MAXW(M/S) 4.37

VAFB, WL GT 3000M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	.03	1.48	1.94	2.21	-.511	3.06	1.23	5.17
2	.12	.53	-.48	2.05	.570	1.77	1.26	3.92
3	.67	.46	.46	.90	.372	1.18	.53	2.13
4	-.23	1.33	.72	1.58	.757	2.08	.69	3.63
5	-.51	1.65	-.31	1.11	.663	1.90	.84	3.70
6	2.51	2.34	.10	1.28	.279	3.27	1.64	6.26
7	1.57	2.74	-1.10	1.05	-.771	3.06	1.72	5.79
8	-1.00	1.43	-.31	1.84	.175	2.40	.85	3.79
9	-.30	.94	-.77	1.38	.241	1.71	.73	3.30
10	4.41	3.91	.63	5.61	.448	7.46	3.29	12.52
11	.37	1.40	2.34	.94	.311	2.80	.77	5.84
12	1.13	1.67	-3.05	1.41	.000	3.78	1.05	5.87
13	-1.37	1.83	-.24	.91	-.674	2.43	.43	3.30
14	4.01	3.86	1.10	3.21	-.543	5.75	3.05	11.54
15	.98	2.28	-.33	1.08	-.078	2.63	.73	4.06
16	1.11	1.33	3.66	2.37	-.024	4.37	1.71	6.98
17	1.76	2.65	1.56	3.98	-.343	5.11	1.50	7.23
18	.48	1.96	.93	1.33	-.652	2.50	.68	3.48
19	3.66	2.41	-4.47	4.02	-.969	6.78	3.04	10.32
20	-4.28	1.19	.81	.77	.414	4.44	1.11	6.59
21	-1.93	1.85	-1.32	1.80	-.028	3.02	1.74	5.16
22	.58	1.53	.22	1.03	-.098	1.79	.76	3.20
23	.33	1.06	.76	.38	-.075	1.24	.64	2.69
24	-3.59	.74	-3.84	1.60	.303	5.37	1.35	6.73
25	.69	.89	.24	.80	-.305	1.25	.62	2.37
26	2.96	1.29	6.82	1.69	-.204	7.60	1.44	9.67
27	-.15	1.00	-.97	.66	.228	1.44	.55	2.17
28	-.90	1.95	.38	1.59	.504	2.55	.88	3.59
29	-17.56	4.04	-3.55	1.44	.803	17.95	4.14	22.13
30	-10.81	4.30	-8.40	3.82	.964	13.73	5.66	20.38
31	-2.00	1.92	-.98	1.65	-.854	3.05	1.44	6.23
32	-.23	1.02	.42	.98	.369	1.33	.66	2.90
33	-.12	2.44	-.36	2.17	.778	2.79	1.74	6.05
34	-.25	1.75	-3.61	1.89	-.209	4.00	1.93	7.34
35	3.58	1.87	3.66	8.33	.502	8.19	5.65	19.51
36	-.11	1.50	.24	.66	.425	1.49	.73	2.89
37	2.34	.99	2.45	.91	.085	3.51	.97	5.20
38	1.53	1.70	.89	1.78	.309	2.82	1.08	4.73
39	2.15	2.40	2.79	3.39	.371	4.90	2.37	8.83
40	-1.44	2.36	-.32	1.65	-.724	2.64	1.87	6.70
41	-1.74	2.14	-1.45	2.39	.093	3.19	2.29	7.10
42	-.21	2.34	1.34	1.43	.834	2.79	1.24	5.99
43	.76	2.35	.20	2.27	-.469	2.74	1.94	9.16
44	-1.15	3.03	-3.03	2.94	-.860	4.92	2.00	9.07
45	-2.26	.94	.95	1.31	-.329	2.70	1.14	4.41
46	-.49	2.83	.86	2.30	.910	3.48	1.46	6.43
47	-1.75	.88	.37	.52	-.792	1.84	.93	3.69
48	.88	2.15	-.25	1.97	-.403	2.91	.94	4.51
49	-1.64	1.70	1.32	1.11	.581	2.67	1.18	6.72
50	-.32	.56	.86	1.03	.006	1.30	.73	2.87

MEAN DU(M/S)= -.35
MEAN DV(M/S)= .00
SD DU(M/S)= 3.98
SD DV(M/S)= 3.29
R(DU,DV)= .35
MEAN W(M/S)= 3.75
SD W(M/S)= 3.57
SD MEAN(M/S)= 3.04
MEAN MAXW(M/S)= 6.48
SD MAXW(M/S) 4.36

VAFB, WL GT 6000M, SUMMER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.14	1.24	1.92	2.13	-.917	2.95	1.03	4.52
2	.06	.46	-.40	1.57	.612	1.32	1.03	3.76
3	.63	.27	.34	.52	.072	.85	.35	1.53
4	-.12	.95	.86	1.12	.765	1.61	.55	2.41
5	-.36	1.26	-.19	.59	.672	1.27	.70	2.56
6	2.23	1.61	.23	1.10	.084	2.64	1.35	4.49
7	1.91	1.96	-1.32	.44	-.568	2.67	1.50	4.94
8	-1.06	1.11	-.37	1.25	.488	1.84	.83	3.12
9	-.20	.79	-.89	.46	-.008	1.21	.45	2.70
10	4.87	3.83	.27	4.20	.636	6.70	3.34	11.23
11	.54	1.12	2.50	.60	.869	2.74	.81	4.12
12	1.12	1.53	-3.17	1.00	-.170	3.71	.91	4.92
13	-1.62	1.57	-.05	.62	-.926	2.19	.81	3.25
14	3.99	2.30	1.00	1.62	-.851	4.69	1.67	7.97
15	.98	1.38	-.47	.36	.304	1.61	.80	2.95
16	1.08	.65	3.85	1.55	.407	4.05	1.55	6.37
17	2.12	1.45	1.54	1.89	-.061	3.32	1.25	4.92
18	.76	1.52	.89	1.00	-.400	2.03	.73	2.96
19	3.90	1.60	-4.64	4.09	-.929	6.76	3.20	10.68
20	-4.61	.80	.83	.31	.859	4.71	.71	5.82
21	-1.73	1.19	-.93	1.73	.476	2.77	.76	4.22
22	.63	1.03	.01	.62	.159	1.16	.70	2.33
23	.25	.68	-.79	.38	-.092	1.08	.34	1.53
24	-3.79	.76	-3.89	1.67	.610	5.53	1.50	7.47
25	.68	.51	.27	.53	-.198	.94	.45	1.51
26	2.97	1.05	7.23	1.07	.556	7.87	1.18	9.32
27	-.14	.83	-.95	.30	.539	1.26	.32	1.92
28	-.75	1.55	.67	.81	.668	1.94	.54	2.57
29	-17.91	4.46	-3.70	1.12	.881	18.30	4.56	23.78
30	-10.96	4.55	-8.56	3.81	.992	13.91	5.91	19.78
31	-2.20	1.38	-.70	1.09	-.423	2.68	1.12	4.40
32	-.17	.61	.43	.38	.705	.76	.39	1.56
33	.22	1.38	-.15	.79	.458	1.45	.71	2.71
34	-.31	1.45	-3.55	1.48	-.173	3.85	1.47	5.72
35	3.71	1.33	4.69	4.84	.577	6.82	3.79	12.87
36	-.30	.67	.05	.17	-.123	.61	.45	1.67
37	2.44	.60	2.52	.47	.406	3.53	.64	4.22
38	1.71	.89	.84	1.10	.158	2.14	1.00	3.66
39	2.18	2.82	3.25	2.86	.557	4.98	2.57	8.35
40	-1.76	1.77	-.30	1.20	-.756	2.45	1.33	4.80
41	-1.82	1.91	-1.31	1.43	.169	2.83	1.64	5.39
42	-.13	1.41	1.52	.73	.875	2.16	.42	2.92
43	.66	1.77	.20	2.31	-.627	2.63	1.41	7.05
44	-.94	1.59	-3.22	2.35	-.821	4.07	1.66	6.83
45	-2.33	.50	.82	.52	-.377	2.51	.57	3.18
46	-.57	1.99	.87	1.67	.929	2.54	1.16	4.67
47	-1.82	.65	.28	.40	-.811	1.88	.67	2.98
48	1.27	1.17	-.42	1.39	-.062	2.14	.69	3.16
49	-1.91	1.01	1.34	.98	.950	2.68	.48	4.25
50	-.24	.29	.86	.72	.174	1.07	.50	1.75

MEAN DU(M/S)= -.33
MEAN DV(M/S)= .03
SD DU(M/S)= 3.88
SD DV(M/S)= 2.95
R(DU,DV)= .44
MEAN W(M/S)= 3.35
SD W(M/S)= 3.55
SD MEAN(M/S)= 3.17
MEAN MAXW(M/S)= 5.24
SD MAXW(M/S) 4.31

VAFB, WL GT 9000M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	.10	.61	2.02	1.58	-.808	2.21	1.44	4.07
2	.04	.45	-.45	1.03	-.408	.91	.80	3.12
3	.74	.24	.36	.30	.048	.87	.26	1.26
4	-.14	.64	.99	.58	.670	1.24	.43	1.75
5	-.48	.50	-.43	.31	.222	.80	.34	1.52
6	2.40	.77	.42	.70	.412	2.54	.77	3.42
7	1.68	1.04	-1.32	.25	.410	2.27	.73	3.35
8	-.95	1.06	-.28	.46	.639	1.38	.64	2.31
9	-.18	.41	-.92	.33	-.678	1.03	.30	2.10
10	4.70	3.11	.12	2.31	.592	5.20	3.17	9.22
11	.70	.82	2.54	.31	.920	2.74	.49	3.37
12	1.03	.94	-3.17	1.04	-.580	3.43	1.15	4.64
13	-1.60	.91	-.10	.79	-.828	1.95	.45	2.56
14	3.94	1.35	.99	1.26	-.929	4.34	1.04	6.29
15	1.11	.73	-.18	.44	.369	1.29	.58	2.26
16	1.15	.22	3.73	.47	.414	3.91	.48	4.68
17	2.26	.66	1.52	.92	-.133	2.88	.62	3.56
18	.86	.56	1.16	.89	-.151	1.64	.71	3.66
19	4.09	1.48	-4.52	3.24	-.959	6.35	3.07	9.66
20	-4.61	1.09	.80	.39	.790	4.72	.97	5.88
21	-1.22	1.10	-.64	1.23	.910	2.04	.68	3.06
22	.70	.60	-.19	.54	.712	1.02	.39	1.59
23	.32	.48	.76	.42	-.527	1.02	.17	1.20
24	-3.63	1.01	-3.81	1.10	.545	5.32	1.26	6.84
25	.67	.44	.27	.33	.439	.80	.42	1.40
26	2.97	1.08	7.15	1.08	.836	7.78	1.32	9.21
27	-.14	.61	-1.08	.29	.892	1.23	.37	1.99
28	-.70	.84	.72	.39	.771	1.34	.27	1.76
29	-17.56	3.74	-3.68	.71	.976	17.94	3.80	22.21
30	-10.94	4.06	-8.43	3.34	.996	13.81	5.25	19.41
31	-2.09	1.02	-.48	.79	.271	2.34	.88	3.51
32	-.12	.34	.43	.32	.670	.56	.32	1.15
33	.38	.60	.36	1.14	-.196	1.08	.87	4.30
34	-.03	1.15	-3.65	.75	.329	3.84	.66	4.88
35	3.65	.88	4.55	2.55	.724	5.97	2.39	9.60
36	-.63	.68	-.03	.28	-.691	.75	.61	2.66
37	2.40	.40	2.54	.51	.753	3.50	.61	4.02
38	1.50	.37	.77	.58	.427	1.75	.51	2.52
39	1.63	2.66	3.55	1.89	.690	4.63	2.12	7.46
40	-2.07	1.06	-.39	.61	-.804	2.25	.93	3.73
41	-1.48	1.67	-1.51	.76	-.392	2.65	.91	4.04
42	.01	.92	1.68	.29	.752	1.91	.29	2.38
43	1.10	2.14	-.14	2.29	-.951	2.77	1.82	7.12
44	-.82	.54	-3.15	1.44	-.442	3.36	1.31	5.09
45	-2.31	.47	.92	.26	-.120	2.50	.46	2.97
46	-.76	1.13	.88	.81	.939	1.73	.53	3.08
47	-1.82	.53	.33	.44	-.730	1.90	.56	2.63
48	1.31	.51	-.44	.81	.137	1.64	.34	2.15
49	-2.01	.61	1.23	1.07	.961	2.64	.33	3.30
50	-.24	.12	.79	.54	.148	.89	.45	1.50

MEAN DU(M/S)= -.30
MEAN DV(M/S)= .05
SD DU(M/S)= 3.69
SD DV(M/S)= 2.68
R(DU,DV)= .47
MEAN W(M/S)= 3.05
SD W(M/S)= 3.40
SD MEAN(M/S)= 3.13
MEAN MAXW(M/S)= 4.51
SD MAXW(M/S) 4.06

VAFB JIMSPHERE 7HR WIND CHANGE 3-9KM WINTER

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.61	7.09	-11.24	7.95	.786	13.28	7.98	31.50
2	-.91	5.43	-9.60	6.56	.730	11.00	6.67	24.44
3	-1.51	5.14	-10.07	5.99	.623	11.41	5.99	22.81
4	-.78	4.67	-8.24	4.61	.266	9.59	4.43	20.35
5	-.98	4.60	-8.59	4.18	.301	9.73	4.32	20.99
6	-1.17	4.25	-5.88	5.06	.129	8.05	3.83	18.28
7	-.66	4.27	-5.51	5.95	.342	8.39	3.73	18.07
8	.09	2.97	-.36	1.46	-.200	2.88	1.66	8.70
9	-.06	2.82	-.57	1.66	-.384	2.93	1.56	8.91
10	1.86	2.56	2.78	1.95	.274	4.31	1.72	7.83
11	1.95	3.17	3.22	1.70	.099	4.77	2.07	11.46
12	1.48	3.02	2.53	2.40	.242	4.31	2.20	10.67
13	8.44	3.79	-2.86	3.58	.453	9.81	3.21	16.02
14	9.22	3.41	-2.39	3.88	.362	10.35	3.19	19.07
15	2.67	1.99	.44	2.63	-.633	3.94	1.62	8.40
16	7.78	5.02	10.39	5.81	-.376	14.67	3.48	21.65
17	1.12	2.58	2.04	3.86	.693	4.67	2.26	9.28
18	.84	3.08	1.13	3.77	.627	4.23	2.79	9.36
19	1.15	3.26	1.21	3.18	.663	4.21	2.39	9.61
20	.95	1.34	-.72	1.92	-.140	2.22	1.41	6.73
21	.62	2.04	-.62	2.64	-.235	3.19	1.30	7.14
22	1.33	1.61	3.12	3.26	.670	4.55	2.00	8.98
23	-.54	2.61	-9.42	4.70	.270	9.88	4.52	18.28
24	3.83	1.93	3.41	2.86	.436	5.57	2.69	10.23
25	2.87	5.42	7.42	6.59	.831	9.64	6.57	22.44
26	-3.92	5.88	-4.21	2.43	-.482	7.84	3.47	14.79
27	-3.71	6.01	-4.13	2.31	-.618	7.71	3.56	15.38
28	-2.73	4.10	8.86	2.86	.193	10.20	2.61	15.28
29	-1.24	1.42	.20	.89	-.390	1.95	.74	3.24
30	-1.55	1.38	.64	.97	-.621	2.25	.76	3.75
31	-1.20	.93	1.08	1.21	.333	2.06	.84	3.63
32	-1.40	.81	.81	.97	.179	1.96	.63	3.48
33	-2.31	1.05	1.69	1.43	.247	3.23	.93	5.72
34	-2.38	1.12	1.41	1.30	.090	3.05	1.12	6.29
35	-1.88	1.03	1.12	1.11	-.033	2.48	.97	4.70
36	2.24	1.58	-.26	2.44	.054	3.43	1.32	7.51
37	4.70	3.08	2.92	4.94	-.359	7.64	2.46	12.93
38	1.50	1.75	3.75	2.20	.293	4.44	2.12	9.16
39	-6.24	5.02	-6.46	2.45	.319	9.55	4.54	21.03
40	-8.16	8.36	-11.25	6.38	.865	14.95	8.95	29.76
41	-27.08	28.90	-25.31	15.72	.792	41.65	26.82	87.37
42	10.98	2.64	4.81	10.10	.620	15.42	3.80	25.11
43	1.95	3.95	1.31	3.92	.108	5.52	2.44	10.97
44	1.67	3.26	-4.16	3.02	.230	5.58	2.95	12.42
45	-.93	4.28	-6.98	4.14	.316	8.41	3.78	21.51
46	-.12	2.27	1.56	4.41	-.123	4.83	1.93	8.68
47	.30	2.73	2.02	3.82	.148	4.81	1.73	8.20
48	9.14	4.71	-11.17	4.41	-.219	14.96	5.11	26.20
49	-1.62	1.87	2.01	2.14	-.268	3.54	1.49	6.76
50	2.51	3.02	2.69	4.43	.257	5.95	2.62	10.06
51	-2.82	2.74	3.15	4.53	.552	5.82	3.46	12.71
52	.69	2.69	3.08	3.14	.318	4.64	2.35	9.14
53	.83	2.14	1.97	3.16	.079	3.94	1.89	9.01
54	.18	1.95	.84	2.85	-.393	3.10	1.74	8.75
55	.58	4.43	-2.31	2.59	.206	5.25	2.08	10.98
56	-2.04	3.77	6.10	3.00	-.616	7.23	3.50	14.22
57	-2.93	3.42	1.87	2.99	-.439	4.72	3.22	13.54

MEAN DU(M/S)= .13
MEAN DV(M/S)=-1.07
SD DU(M/S)= 7.25
SD DV(M/S)= 7.43
R(DU,DV)= .50
MEAN W(M/S)= 7.12
SD W(M/S)= 7.64
SD MEAN(M/S)= 5.93
MEAN MAXW(M/S)=14.45
SD MAXW(M/S)=12.02

VAFBJIMSPHERE 7 HR WIND CHANGE 9-16 KM WINTER

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	.45	4.32	1.70	9.40	.643	8.76	5.75	29.10
2	.87	4.13	2.68	5.42	.441	6.60	3.25	16.07
3	2.18	3.71	4.39	5.47	.224	7.65	3.00	14.88
4	2.37	3.22	4.91	3.51	.101	6.84	2.36	13.33
5	4.40	3.45	7.89	3.25	.206	9.71	3.14	16.76
6	4.57	2.86	7.31	2.76	-.122	9.17	2.45	14.71
7	6.87	2.73	10.42	2.99	-.074	12.84	2.70	17.37
8	-.24	4.85	-2.47	6.70	-.419	7.25	4.67	21.93
9	-1.34	6.16	-3.34	8.21	-.606	8.80	6.38	28.00
10	5.94	5.15	5.92	3.36	-.019	9.83	3.37	18.32
11	6.47	4.69	7.49	3.27	-.132	10.93	3.35	18.62
12	5.52	4.28	6.70	2.82	-.030	9.58	3.14	17.18
13	3.48	3.77	-2.06	3.50	-.345	5.56	3.44	15.14
14	3.60	3.81	-2.26	3.32	-.389	5.73	3.27	15.08
15	.49	4.33	3.03	2.66	-.115	5.55	2.09	13.15
16	-1.87	3.39	-3.14	6.46	-.106	7.31	3.60	16.49
17	2.25	3.98	2.51	4.03	-.171	6.02	2.69	12.12
18	3.29	4.05	1.40	3.77	-.053	5.97	2.78	12.80
19	4.90	4.78	1.72	4.01	.232	7.23	3.67	14.65
20	2.18	3.21	.06	2.93	.385	4.30	2.26	9.81
21	1.82	4.14	.26	2.87	-.068	4.91	2.15	10.87
22	3.41	2.37	6.56	2.59	.429	7.73	2.70	13.68
23	-6.42	4.34	-8.23	8.52	.279	12.63	6.37	29.36
24	.81	2.92	-.96	3.05	-.090	3.94	1.96	9.57
25	4.13	4.32	10.49	8.16	.151	12.60	7.31	30.35
26	-5.52	6.97	-2.11	7.02	-.103	10.51	4.71	23.01
27	-4.97	5.93	.68	7.10	-.296	9.04	5.36	19.65
28	-3.19	5.42	9.44	5.72	.163	11.69	4.97	22.18
29	-2.10	1.65	.64	2.08	.109	3.07	1.56	6.23
30	-2.62	1.57	1.04	2.13	.100	3.48	1.67	7.08
31	3.53	3.09	3.29	2.37	.358	5.42	3.00	13.76
32	-1.51	1.82	1.25	2.11	.257	3.13	1.34	6.39
33	.43	3.66	1.87	2.76	.467	4.40	2.29	10.98
34	1.05	3.94	1.90	2.69	.556	4.63	2.44	10.40
35	2.60	4.07	1.08	2.53	.298	4.82	2.77	12.14
36	3.77	3.05	2.70	5.05	.169	6.36	3.98	16.75
37	2.89	7.38	2.09	8.35	-.764	10.72	4.65	21.46
38	.98	3.08	3.19	3.40	-.072	5.23	2.21	12.24
39	-2.45	7.68	-3.17	4.70	.048	8.46	5.03	23.29
40	-7.28	8.13	-3.82	7.49	.832	11.19	8.03	25.24
41	-23.35	18.93	-18.87	14.56	.936	30.55	23.20	81.85
42	-.72	5.37	-17.43	6.38	-.126	18.40	5.95	29.27
43	-3.31	5.96	-6.64	4.69	-.207	9.71	4.28	20.57
44	-.43	6.32	-3.26	6.79	.503	9.38	2.91	17.48
45	-1.15	6.47	-5.52	6.35	.607	9.74	4.35	18.16
46	4.16	2.72	2.36	3.97	-.303	6.24	2.66	16.09
47	3.11	2.77	3.10	3.10	-.382	5.49	2.53	10.28
48	6.12	3.66	-6.07	4.94	.061	9.94	3.64	16.77
49	.53	3.31	.15	2.42	.032	3.75	1.74	7.80
50	1.81	4.40	.78	5.45	.238	6.79	2.57	12.20
51	2.54	3.87	.77	5.44	.158	6.59	2.84	13.48
52	.83	3.36	-.68	4.30	-.047	4.97	2.47	11.81
53	1.10	4.04	.72	4.42	-.071	5.61	2.46	13.43
54	1.02	3.76	1.22	5.13	-.179	5.99	2.66	14.06
55	-4.31	5.71	-3.56	4.44	-.557	8.51	3.31	14.35
56	-4.99	5.30	3.34	5.41	-.353	8.62	4.38	16.03
57	.08	4.28	1.65	4.74	-.157	5.92	2.88	14.05

MEAN DU(M/S)= .50
MEAN DV(M/S)= .62
SD DU(M/S)= 6.86
SD DV(M/S)= 7.54
R(DU,DV)= .41
MEAN W(M/S)= 8.00
SD W(M/S)= 6.38
SD MEAN(M/S)= 4.22
MEAN MAXW(M/S)=17.33
SD MAXW(M/S)10.47

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	3.57	5.16	5.48	4.20	.468	7.39	5.50	17.50
2	-2.81	5.13	-4.50	2.37	.920	6.79	3.32	10.83
3	-.40	1.58	.24	1.07	.180	1.74	.63	2.34
4	-2.00	2.61	2.15	1.70	-.714	3.51	2.33	7.76
5	-.74	2.78	-2.41	2.63	.396	3.78	2.32	7.83
6	-2.59	2.18	-1.25	1.30	-.365	3.52	1.26	5.00
7	-2.45	4.13	2.78	1.63	-.576	4.73	3.10	9.11
8	-2.38	3.34	1.94	2.85	-.414	5.00	1.02	6.84
9	3.04	3.29	1.72	2.55	.110	4.78	2.20	8.48
10	-4.07	1.06	-.87	1.43	.779	4.30	1.33	6.85
11	-1.12	3.34	1.73	4.66	-.719	4.88	3.18	10.66
12	.11	5.80	1.62	2.24	-.452	5.11	3.36	9.60
13	8.06	11.11	-7.58	9.51	.494	16.11	7.33	27.23
14	-3.85	6.85	-13.59	14.58	.880	14.81	15.38	42.08
15	-.54	2.89	-3.43	3.46	-.444	4.79	2.75	7.39
16	-2.30	4.95	-3.05	6.03	.941	5.40	6.62	18.48
17	-.28	3.93	-19.61	11.97	-.366	20.54	10.74	34.47
18	-4.84	3.69	7.91	9.54	-.443	11.81	6.48	18.00
19	2.77	5.26	2.01	4.75	.512	6.32	4.15	12.66
20	1.23	3.14	-2.57	3.82	-.381	4.53	3.17	9.53
21	-5.52	4.04	3.48	2.81	-.192	7.17	3.75	14.05
22	-4.83	6.18	3.59	7.89	.205	10.07	4.93	16.69
23	-1.86	6.63	1.55	4.34	.263	6.70	4.17	12.32
24	10.09	13.20	-19.30	10.36	-.857	23.49	13.84	37.21
25	2.13	7.08	-.69	8.89	-.564	9.52	5.40	18.87
26	-4.71	2.70	-8.65	10.40	.360	11.48	8.65	25.98
27	-.76	2.34	2.12	8.55	.546	6.79	5.53	17.86
28	-3.77	4.66	-5.52	3.39	-.226	8.05	3.12	12.12
29	-.50	7.69	-4.32	8.40	-.415	9.70	6.47	20.84
30	7.00	6.83	-4.92	3.38	-.838	9.38	6.40	19.40
31	6.12	4.09	8.83	10.58	.509	12.68	8.71	24.91
32	.66	3.84	-6.89	6.46	.139	8.28	5.69	19.04
33	-1.83	4.30	-1.69	5.66	.550	6.30	3.38	12.88
34	3.31	6.44	-16.63	8.62	.683	18.38	7.57	29.03
35	-.92	7.32	1.93	5.29	-.250	7.85	3.86	15.27
36	5.58	4.64	7.11	4.55	-.108	10.22	3.98	16.23
37	1.59	2.52	-.55	2.63	.111	3.06	2.38	6.56
38	-2.72	3.05	-6.13	1.97	-.699	7.37	1.56	9.38
39	-2.17	2.58	2.62	4.52	-.552	5.28	2.83	9.56
40	-1.86	3.49	2.21	3.86	-.324	4.89	2.98	10.96
41	5.20	5.08	6.05	1.71	-.718	9.01	2.87	14.50
42	8.77	4.91	5.53	3.13	.319	10.74	4.98	17.19
43	1.26	2.70	5.20	1.94	-.766	5.98	1.66	7.89
44	-1.16	4.11	4.26	2.41	-.133	5.77	2.57	9.79
45	-3.06	3.77	-.46	1.53	.448	4.61	1.70	7.42
46	2.95	3.76	1.17	2.09	-.045	4.60	2.36	8.00
47	-.49	4.03	1.03	5.54	-.313	6.05	2.40	9.30
48	.69	5.39	-7.27	3.20	-.420	8.58	3.96	15.63
49	13.24	8.58	-1.68	7.33	.722	15.48	7.45	24.27
50	1.78	4.36	5.03	4.89	.478	6.89	4.56	14.98
51	5.10	3.03	-15.31	4.17	.094	16.46	3.76	22.85
52	-5.30	2.35	1.79	4.55	-.458	7.02	2.29	10.21
53	-7.65	6.06	1.51	7.36	.898	11.06	4.38	15.81
54	3.14	4.89	-3.59	4.64	.065	7.30	3.14	13.04
55	1.29	2.77	.77	5.02	.209	5.28	1.74	7.41
56	6.39	4.51	.19	5.03	-.561	7.61	5.07	16.99
57	2.52	1.80	5.80	6.56	-.071	7.29	5.57	17.06
58	.13	4.52	-2.46	2.90	-.897	4.89	2.83	9.62

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

59	1.99	3.48	8.47	4.09	-.417	9.37	3.85	13.54
60	2.36	3.67	8.88	3.34	.815	9.75	3.50	14.76
61	-.78	4.68	-.57	1.57	-.235	4.28	2.04	6.62
62	-.45	1.50	.74	2.10	-.645	2.27	1.23	3.62
63	.96	1.57	-3.83	4.93	.831	4.81	4.25	10.96
64	.14	2.21	-7.02	2.91	.593	7.33	2.87	11.03
65	3.62	3.69	6.77	3.70	.659	8.21	4.19	12.94
66	6.25	2.97	3.51	7.03	-.432	9.24	4.31	16.06
67	-3.44	2.30	4.58	4.27	-.634	5.98	4.47	13.02
68	-2.05	2.39	8.61	2.95	-.152	9.08	3.12	12.04
69	1.03	2.06	3.82	6.63	.582	6.33	4.43	11.68
70	-1.94	3.44	2.45	5.54	-.064	6.09	3.25	11.37
71	-11.42	7.09	3.75	5.25	-.613	12.66	7.70	28.85
72	-.75	7.68	7.01	3.54	-.056	9.53	4.86	17.15
73	4.03	3.16	5.07	2.03	-.568	7.08	2.14	10.00
74	5.16	3.40	3.16	3.95	.795	6.71	4.17	13.45
75	.28	3.37	1.23	6.19	-.486	5.63	3.81	13.98
76	.92	3.40	1.27	3.49	-.212	4.36	2.08	7.90
77	-.55	1.93	4.32	3.84	-.685	4.86	3.62	9.37
78	2.64	3.64	2.42	2.98	-.732	5.10	2.60	10.24
79	1.48	2.27	5.30	4.99	.138	6.97	2.96	9.81
80	-1.37	2.36	1.12	2.88	.115	3.41	1.99	6.40
81	-1.16	2.12	2.45	3.63	-.534	4.30	2.16	6.54
82	1.10	2.97	3.12	4.07	-.493	5.35	2.17	8.91
83	2.21	2.98	.68	4.22	-.684	4.82	2.42	7.58
84	4.19	4.35	2.03	2.65	-.495	5.59	3.85	12.03
85	3.79	3.45	2.43	2.63	.247	5.34	3.03	9.31
86	.17	1.92	-1.15	1.75	-.090	2.40	1.26	4.11
87	.45	2.40	2.22	2.16	.450	3.10	2.29	7.52
88	2.00	3.13	.29	2.85	.475	3.72	2.57	8.44
89	-1.10	2.99	-7.41	6.97	.538	8.41	6.37	20.52
90	.58	2.25	-6.08	5.43	.008	7.77	2.74	12.76
91	-2.12	2.18	1.21	1.38	.032	2.99	1.79	5.22
92	-.37	3.61	-1.00	3.11	.765	3.84	2.62	8.26
93	4.53	2.01	1.65	1.77	-.541	5.17	1.76	7.39
94	1.08	4.65	-1.70	13.92	-.425	10.86	9.09	26.69
95	3.20	2.99	3.46	2.18	-.174	5.37	2.45	8.80
96	2.25	4.16	4.23	2.67	-.070	6.28	2.30	9.54
97	4.74	3.34	-6.56	3.26	-.474	8.41	3.98	14.00
98	3.22	1.96	4.18	3.95	-.164	6.05	3.01	9.74
99	-5.17	3.97	2.28	3.15	-.412	6.33	4.01	12.70
100	3.94	8.97	-1.48	7.16	-.898	10.49	4.91	20.72
101	2.92	3.74	10.87	8.70	.738	12.89	6.61	19.62
102	-21.67	7.39	-5.78	9.34	.936	23.73	8.47	37.33
103	-3.41	3.04	.15	3.52	.140	4.60	3.24	9.53
104	7.43	5.63	.70	3.03	.517	8.05	5.50	17.65
105	.61	1.33	3.96	1.51	-.061	4.18	1.53	5.65
106	.80	2.44	2.09	1.67	-.613	3.23	1.55	5.90
107	.92	2.83	-9.57	6.36	-.187	9.82	6.62	18.08
108	-8.89	10.09	-35.92	29.04	.977	37.44	30.12	73.22
109	4.88	4.63	-.60	10.74	.531	10.72	5.55	19.06
110	6.59	3.70	11.90	10.00	.422	15.92	5.81	22.92
111	-1.42	5.28	-16.03	9.08	.378	16.58	9.58	28.79
112	4.21	3.80	-9.35	6.35	.688	11.94	3.34	17.00
113	1.31	2.04	4.41	3.17	.466	5.27	2.55	8.10
114	3.15	5.87	1.85	2.87	.276	6.35	3.33	11.06
115	1.28	2.15	2.07	3.84	.512	4.24	2.29	7.63
116	2.19	3.48	4.66	5.15	.530	6.84	3.86	13.04
117	-3.26	3.96	1.22	2.06	.014	5.09	1.96	8.60
118	.82	2.14	-.77	6.16	.532	5.47	3.02	11.72

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119	7.55	3.27	-25.12	7.78	-.127	26.46	7.58	34.12
120	-4.55	5.79	9.31	9.57	-.553	11.76	9.44	26.24
121	-2.80	3.18	2.72	3.75	-.255	5.33	2.98	10.01
122	-2.29	3.17	4.66	3.35	.038	6.13	2.98	10.48
123	-3.92	6.13	-1.16	3.88	.871	6.95	3.97	12.72
124	4.42	2.88	4.13	3.71	-.018	6.68	3.57	11.22
125	-5.71	4.01	-3.04	1.48	.574	6.70	3.83	12.69
126	-6.78	7.31	1.61	1.58	.252	7.66	6.63	16.01
127	-3.96	3.82	-3.71	2.59	.934	5.71	4.19	13.26
128	2.16	1.00	.18	3.92	.558	3.96	1.89	6.80
129	.58	4.24	7.50	2.96	-.566	8.47	3.02	13.70
130	3.64	1.40	-.34	1.09	-.537	3.79	1.41	5.73
131	-.61	3.71	.60	2.11	.149	3.82	1.43	6.10
132	-1.70	.80	1.02	4.44	.746	4.12	2.26	7.78
133	.75	2.38	-3.52	3.84	.878	5.23	1.88	8.50
134	-3.59	2.17	-2.92	3.44	.226	5.50	2.50	10.54
135	1.10	2.86	.30	3.48	.283	4.05	1.64	5.87
136	-.45	3.44	-1.21	3.05	.414	3.94	2.23	6.80
137	-1.29	2.51	1.15	1.82	-.314	3.05	1.50	5.82
138	2.78	1.71	-.56	3.21	.641	4.05	1.84	6.30
139	-.32	4.38	-1.66	4.17	.524	5.32	2.63	8.50
140	-.56	4.80	-.21	4.53	.121	5.98	1.48	8.45
141	-.81	2.50	-.28	4.55	-.756	4.25	2.59	9.30
142	1.35	3.05	-2.96	1.78	-.546	3.98	2.52	9.03
143	1.70	3.79	9.34	6.65	.360	10.36	6.21	17.79
144	5.59	3.25	3.02	6.46	-.306	8.50	3.87	15.25
145	-5.12	4.22	-6.88	6.03	-.785	10.38	3.80	18.47
146	1.96	4.45	-3.36	3.48	.444	5.90	2.99	9.76
147	2.17	.72	-1.16	3.61	.519	3.91	1.69	6.95
148	-5.82	3.26	-7.89	3.95	.211	10.24	4.01	14.52
149	-5.26	2.89	-2.91	3.32	.774	6.37	3.76	14.78
150	1.68	4.97	-3.71	5.49	.473	6.62	4.80	13.15
151	-3.62	4.43	3.75	2.39	-.010	6.66	2.31	9.81
152	.49	1.83	1.55	3.59	.566	3.42	2.37	7.03
153	.35	2.07	1.69	4.65	.617	4.85	1.41	7.09
154	4.71	4.76	1.49	4.31	.947	6.19	5.01	15.73
155	2.15	3.44	.45	2.87	-.867	4.27	2.10	8.59
156	.10	4.76	-.30	2.86	.562	4.66	2.36	9.75
157	8.74	2.06	-2.83	6.23	-.504	10.65	3.02	15.78
158	8.24	2.64	-6.49	5.93	-.633	10.97	5.51	20.58
159	.44	2.22	2.22	1.39	-.096	3.27	.62	4.07
160	3.54	4.10	2.24	2.29	-.602	5.19	3.33	10.92
161	1.05	2.25	-7.85	6.16	-.303	8.61	5.44	16.80
162	6.12	2.11	.40	3.59	-.214	6.92	2.30	8.98
163	.61	4.29	4.57	1.93	.124	6.06	2.01	8.78
164	4.50	5.66	9.16	.98	-.446	11.28	2.47	15.77
165	-10.92	2.47	8.25	6.07	-.378	14.27	4.90	22.02
166	-4.31	4.37	2.27	4.17	.676	6.54	3.77	11.84
167	8.36	6.89	-6.98	5.16	.854	13.09	3.55	16.88
168	10.60	6.55	1.99	6.33	.719	12.53	5.95	20.72
169	-2.64	2.43	-2.67	2.62	.493	4.25	2.85	7.44
170	-5.39	4.37	-5.35	6.98	.714	9.71	5.01	17.55
171	-1.43	1.54	-.15	2.30	-.348	2.72	1.19	4.93
172	-5.26	2.20	3.24	1.77	.513	6.55	1.62	9.19
173	-7.89	11.18	-3.16	3.31	.651	10.44	9.64	30.68
174	-1.88	8.12	-14.54	9.17	-.455	16.27	9.59	34.08
175	-2.69	2.62	-.21	2.23	.071	3.70	2.07	6.14
176	-2.15	3.43	-.76	2.50	.268	4.12	2.09	7.18
177	-1.54	4.77	.11	2.31	.539	4.63	2.44	7.57
178	3.23	4.00	.16	3.20	-.288	4.98	3.09	9.37

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179	3.09	3.16	-4.87	1.72	-.073	6.45	1.79	8.33
180	4.17	4.00	-3.06	3.29	-.756	6.01	3.98	11.78
181	-7.78	7.98	-3.32	2.66	.793	8.93	7.83	22.24
182	2.29	6.95	-7.48	5.48	-.972	10.16	5.41	17.84
183	-.55	4.09	5.22	5.34	.299	6.78	4.87	14.91
184	2.25	3.87	1.36	3.79	-.628	4.97	2.94	10.37
185	-19.28	11.55	-6.47	5.02	.892	20.46	12.36	36.37
186	-3.56	3.11	-2.41	1.93	.230	4.81	2.83	9.24
187	-2.86	3.00	4.66	2.26	-.630	6.08	2.43	9.37
188	.31	2.24	2.83	2.95	-.336	3.92	2.30	7.01
189	1.53	2.14	-1.84	3.19	.087	3.99	1.68	6.22
190	2.99	3.15	-1.59	2.48	.495	4.52	2.38	8.29
191	-14.12	4.30	-8.81	6.63	.254	17.46	5.46	25.40
192	-.03	4.87	7.43	3.85	-.878	8.78	3.62	15.75
193	.33	3.15	5.45	5.54	.413	6.22	5.50	15.42
194	.97	2.76	.03	3.78	.730	3.83	2.41	8.77
195	3.23	3.08	1.27	2.66	.042	4.73	2.12	8.00
196	.18	4.72	2.12	4.65	.041	5.98	2.72	8.99
197	.49	6.58	-5.48	3.58	.645	8.23	3.52	13.14
198	-1.19	10.73	-12.74	4.25	.304	16.15	4.47	22.04
199	.19	5.42	.40	2.61	-.225	5.15	2.33	8.62
200	-11.69	6.92	-8.28	5.11	.603	14.99	7.16	26.36
201	-.13	2.69	-2.68	3.95	.017	5.06	1.14	6.96
202	-.67	3.54	-.52	4.69	-.875	4.95	2.62	8.77
203	3.55	2.98	.25	1.19	.518	3.88	2.74	7.07
204	2.95	2.79	-4.79	1.84	-.499	6.01	2.44	10.06
205	3.72	3.55	-.07	4.53	-.017	5.93	2.88	9.68
206	2.75	2.75	.90	5.24	.723	5.76	2.45	9.51
207	-10.61	7.39	-6.55	8.75	.647	14.76	7.64	24.49
208	3.16	7.24	6.65	14.40	.545	15.16	7.41	25.36
209	-6.44	4.69	-.95	3.65	.962	7.69	3.96	12.44
210	-.87	3.32	2.78	2.67	-.043	4.59	1.87	6.50
211	-2.99	3.38	6.32	3.31	-.586	7.54	3.61	13.07
212	1.80	3.49	6.15	2.02	.437	6.99	2.67	11.41
213	7.08	3.67	-1.71	4.19	-.170	8.10	4.06	12.18
214	-1.42	2.48	-6.10	3.84	.417	6.61	3.96	11.86
215	-1.90	2.60	2.44	1.91	-.193	4.01	1.66	6.23
216	2.01	3.39	3.05	3.10	.211	5.48	1.23	7.20
217	.40	2.90	-5.20	4.95	.208	6.24	4.38	13.39
218	3.21	3.64	2.81	6.65	.305	7.73	3.01	12.90
219	3.07	3.00	.51	4.88	.682	5.47	3.03	10.30
220	-1.63	6.25	-2.63	5.78	.718	6.45	5.92	14.73
221	-2.91	3.28	5.74	4.35	.249	7.81	2.62	12.10
222	-3.06	7.63	-4.40	3.89	.590	7.65	6.21	17.91
223	7.09	3.50	5.04	2.58	.221	9.01	3.54	13.33
224	13.18	7.68	9.55	5.66	.919	16.89	8.21	29.00
225	5.01	4.10	2.28	3.49	.058	6.56	3.76	11.74
226	3.25	4.66	-1.35	2.77	.688	5.30	3.35	12.41
227	-.55	3.69	4.75	5.26	-.124	6.75	3.84	11.31
228	4.77	1.80	-1.39	5.03	.032	6.52	2.79	9.32
229	2.19	2.91	-2.77	3.98	-.802	4.41	4.02	13.37
230	.32	2.07	-2.02	2.52	-.586	3.22	1.84	6.09
231	2.13	2.37	.23	1.09	.185	3.02	1.23	5.03
232	5.46	1.88	2.19	2.56	-.525	6.39	1.67	8.50
233	1.00	2.41	2.59	3.68	-.347	4.16	2.86	9.52
234	4.95	2.45	.56	2.05	.463	5.47	2.06	8.33
235	-3.96	2.76	4.54	3.54	-.201	6.54	3.55	9.77
236	-1.72	2.58	.40	3.24	.356	3.86	1.87	6.00
237	-3.34	7.03	1.79	3.77	.512	7.00	4.82	17.35
238	3.75	5.52	.50	3.83	.806	5.71	4.88	16.00

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

239	-.42	1.92	3.89	2.60	.262	4.49	2.20	7.57
240	1.60	2.54	3.59	2.75	-.320	4.89	2.03	7.89
241	-2.39	2.54	3.26	3.42	.508	5.38	1.85	7.76
242	2.58	2.08	2.37	2.41	-.240	4.10	2.20	6.50
243	1.57	2.17	3.48	3.14	-.966	5.05	1.33	7.13
244	2.13	2.58	4.97	3.68	.336	6.09	3.34	10.81
245	-4.45	10.62	-2.90	6.21	.811	10.99	6.57	21.04
246	7.09	5.82	1.61	2.14	.241	7.68	5.60	17.22
247	-.15	2.65	-2.14	3.49	.192	3.83	2.73	8.88
248	1.53	2.57	.60	3.68	-.741	3.98	2.21	7.56
249	-.07	3.18	-1.21	2.44	.748	3.21	2.40	8.10
250	-1.87	3.55	-3.91	2.25	-.029	5.02	3.20	10.01
251	-4.70	2.72	-.04	3.49	.558	5.68	2.77	9.00
252	-2.46	5.50	.27	5.65	.029	6.94	3.63	11.15
253	-1.84	5.89	-1.09	2.28	-.076	5.64	2.84	10.45
254	-.66	2.84	-1.52	2.76	.122	3.29	2.51	8.25
255	-.88	2.39	1.43	2.62	.487	3.63	.66	4.52
256	1.98	2.07	-4.22	2.91	-.236	5.14	2.69	10.06
257	4.56	2.81	-.05	2.60	-.007	5.32	2.43	8.28
258	5.42	3.19	-1.57	4.04	-.732	6.82	3.07	11.00
259	1.29	1.37	-5.85	8.17	-.336	7.67	6.48	17.08
260	-.50	4.61	-5.41	4.34	.303	7.07	4.02	11.48
261	5.62	6.82	8.70	8.25	.542	11.73	8.91	27.28
262	3.56	6.43	-4.30	7.06	.220	9.64	4.39	16.02
263	.56	3.42	.03	4.43	.703	5.03	1.46	7.05
264	3.47	3.84	-2.44	2.68	.496	5.90	1.53	8.82
265	-5.68	4.41	2.68	6.68	.893	8.89	4.23	17.72
266	1.97	3.13	5.51	3.96	.124	6.74	3.55	14.51
267	-4.56	5.95	5.54	6.02	-.405	9.51	5.12	17.97
268	-2.36	4.50	-.41	1.81	.594	4.35	2.84	10.08
269	-.57	3.67	7.20	2.32	-.001	7.93	2.53	11.82
270	.59	3.57	3.19	5.73	.214	6.48	2.97	10.88
271	-3.35	3.79	-2.54	4.19	-.389	6.31	2.47	9.89
272	-3.22	1.98	-11.61	6.51	-.269	12.30	6.25	22.99
273	-.83	2.19	.72	6.59	.802	6.03	2.69	10.43
274	-1.08	1.24	3.69	3.17	.448	4.42	2.46	7.11
275	.41	2.16	1.88	5.34	-.070	5.03	2.82	11.14
276	-.98	2.28	3.81	4.49	-.419	5.65	2.48	8.82
277	-1.34	2.19	.30	2.65	.317	3.22	1.39	4.61
278	-2.22	2.07	.38	1.30	-.092	2.92	1.39	5.00
279	3.37	6.87	-3.06	3.81	-.710	6.63	5.89	16.08
280	-4.56	3.47	4.03	5.85	-.700	6.89	5.84	17.27
281	5.49	2.45	-.34	5.69	-.120	7.55	2.70	10.06
282	-.17	1.93	3.08	1.71	.291	3.66	1.45	6.19
283	1.27	1.96	3.55	3.96	-.443	4.97	2.69	8.32
284	3.65	1.90	1.12	2.54	.439	4.54	1.74	6.79
285	-7.95	7.61	4.77	3.60	.385	10.95	5.60	22.08
286	-10.18	10.21	7.40	4.33	.009	14.19	8.54	28.31
287	-6.32	3.07	7.70	6.29	-.311	11.26	4.09	17.81
288	-8.72	6.75	8.83	7.21	-.532	13.64	7.76	28.70
289	.08	3.13	3.19	1.56	.764	4.13	2.05	8.41
290	.75	2.25	1.76	2.26	.908	2.96	2.06	5.95
291	-.54	2.01	1.51	2.15	-.162	2.67	1.83	5.63
292	3.35	1.98	-.86	2.52	-.012	4.23	1.83	6.00
293	-1.46	2.37	-17.74	5.46	.550	17.90	5.56	24.71
294	11.63	8.69	-29.72	13.16	-.311	32.75	13.64	47.38
295	2.05	2.28	.32	5.47	-.071	5.35	2.58	8.53
296	5.95	4.23	8.72	4.00	.488	11.07	4.58	16.40
297	5.75	6.01	3.16	5.62	-.783	9.60	3.21	14.54
298	2.90	3.17	3.36	1.63	-.127	5.19	2.08	7.84

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

299	3.66	7.30	-6.34	5.81	.312	11.08	2.51	14.34
300	.51	7.54	-2.10	2.75	.492	6.97	3.64	13.04
301	-7.27	6.07	-3.96	3.82	.418	9.87	4.21	17.71
302	1.31	2.99	-8.36	2.45	.185	8.88	2.52	11.56
303	-7.89	4.21	-1.87	10.15	-.504	12.22	4.82	18.83
304	9.23	3.06	-14.22	8.43	.734	18.12	5.70	27.50
305	-2.51	2.03	4.29	3.06	.467	5.63	2.31	8.10
306	2.60	1.39	2.20	1.17	-.080	3.67	1.07	4.95
307	-4.96	3.56	-2.28	2.20	.119	6.14	2.88	10.79
308	2.59	3.03	.20	3.73	-.465	4.83	1.95	6.34
309	-5.46	6.48	-.76	2.58	-.899	7.08	5.06	17.42
310	-7.74	2.76	-2.40	3.33	.481	8.46	3.44	12.91
311	-2.43	4.35	4.08	1.40	.235	6.05	2.11	10.36
312	2.50	4.64	8.68	4.56	-.031	9.88	4.86	14.13
313	8.17	3.97	-2.10	3.90	.041	9.17	3.99	13.90
314	1.58	5.12	-2.34	3.22	.034	5.66	2.93	9.40
315	-5.60	3.01	5.14	3.65	.399	8.47	2.47	11.32
316	-.80	4.56	2.39	4.24	.167	5.91	2.33	7.68
317	2.29	3.54	2.16	3.03	-.071	4.99	2.05	9.06
318	1.82	3.67	5.19	2.33	-.067	6.36	2.64	9.30
319	1.02	2.43	4.54	3.83	-.565	5.60	3.02	11.00
320	5.94	4.11	7.54	5.69	.852	9.85	6.61	20.16
321	-.55	3.39	4.78	2.30	-.288	5.75	2.29	8.30
322	3.04	2.88	3.35	3.47	-.742	5.93	1.77	8.52
323	-7.47	5.33	5.34	4.26	.145	10.15	4.98	17.66
324	-7.67	4.22	-2.19	4.10	.829	8.97	3.86	13.19
325	2.10	5.98	-2.28	6.04	.410	7.93	3.20	11.68
326	1.65	5.93	5.02	7.54	.158	9.76	3.66	16.16
327	-.78	2.99	.35	3.14	.197	3.64	2.07	6.30
328	8.03	5.71	3.95	5.82	.919	9.65	7.17	19.68
329	-3.33	2.16	6.05	5.97	-.136	7.89	4.84	17.43
330	-1.63	3.36	-4.95	6.67	-.045	7.11	5.33	15.16
331	-2.05	5.04	6.22	4.89	-.413	7.90	5.17	15.38
332	.71	4.44	1.97	1.56	-.150	4.29	2.42	8.25
333	-2.67	3.45	-5.36	5.38	-.406	7.59	3.94	13.84
334	-3.04	5.35	3.07	3.79	.496	6.91	3.01	12.15
335	2.33	3.65	1.84	6.42	-.529	7.27	1.78	10.10
336	1.56	2.34	4.13	3.97	.868	5.61	2.70	8.42
337	-4.00	2.99	1.79	4.65	.233	6.17	2.91	10.21
338	2.94	2.72	7.39	5.14	.594	8.29	5.25	15.90
339	3.21	2.12	3.83	2.51	.573	5.31	2.66	9.21
340	2.01	1.76	.67	2.87	-.494	3.58	1.26	5.40
341	-8.96	3.81	-21.06	7.60	.450	23.06	7.92	33.24
342	-.38	3.57	8.18	6.64	.331	9.02	6.35	17.68
343	-3.71	2.71	-22.42	10.75	.040	22.89	10.69	36.57
344	7.64	7.33	-10.72	7.09	-.692	14.08	8.64	25.52
345	-6.64	7.58	.09	9.71	.659	12.49	4.60	20.15
346	-4.30	6.52	.63	5.90	.454	8.07	4.84	17.25
347	-5.64	5.92	.25	1.97	.110	7.50	3.25	11.47
348	1.30	1.58	2.64	4.42	.087	4.60	2.74	9.08
349	-3.01	2.04	3.93	3.36	-.180	5.52	2.91	9.18
350	3.91	2.36	4.21	4.12	.502	6.32	3.80	12.79
351	1.40	4.34	-12.03	6.56	-.586	12.77	6.53	21.86
352	-3.73	2.47	-.62	7.10	-.593	6.86	4.27	14.00
353	-.16	1.65	.63	1.02	-.045	1.73	.87	3.30
354	1.45	1.53	-.10	1.48	-.481	2.14	1.28	3.85
355	.41	2.26	-5.54	4.09	.030	5.87	4.19	13.00
356	-.22	3.17	-.54	2.45	-.515	3.38	1.78	6.00
357	4.94	2.38	9.38	5.90	-.054	11.42	4.40	19.37
358	4.22	3.39	4.83	7.94	.523	8.47	6.23	19.52

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359	-4.36	8.43	1.38	6.33	.208	9.82	4.79	18.15
360	-7.76	3.20	2.58	7.62	.559	10.74	3.43	14.71
361	4.16	8.01	-3.53	9.00	.795	12.27	2.07	15.81
362	1.86	4.99	.62	4.77	.870	5.78	3.63	11.73
363	1.37	2.93	3.65	2.23	.324	5.11	.89	6.37
364	.66	3.57	-2.01	6.39	.593	4.90	5.55	16.27
365	.18	3.49	-5.34	2.95	-.409	6.38	2.59	10.20
366	-2.13	3.63	-13.27	3.58	-.397	13.88	3.43	16.87
367	2.04	1.66	6.84	4.08	.530	7.27	4.15	12.69
368	-5.58	6.90	8.27	8.97	.643	13.98	4.00	20.15
369	-5.96	2.35	-5.89	2.77	.850	8.44	3.47	15.24
370	-8.41	5.52	-6.96	2.11	-.140	11.68	3.86	15.62
371	.47	1.00	4.17	3.45	.079	5.12	1.70	6.97
372	3.91	2.29	3.10	1.97	-.229	5.51	1.66	8.71
373	-5.38	3.95	-2.77	4.30	.492	7.02	4.38	13.22
374	-1.81	7.78	-5.67	3.75	.754	7.92	6.54	21.98
375	3.02	3.94	-.36	1.95	.621	4.04	3.33	10.76
376	-1.28	3.37	-1.93	2.03	-.474	4.03	1.67	5.15
377	-2.05	2.23	1.30	1.43	.172	3.14	1.56	5.28
378	-.85	3.94	3.42	2.25	.031	5.12	2.12	8.02
379	-.56	4.47	-1.92	2.42	-.685	4.78	1.96	8.72
380	-.30	4.06	-.40	2.40	-.655	3.97	2.03	7.48
381	-2.55	2.55	-7.89	8.89	-.162	9.13	8.27	25.96
382	1.91	3.59	9.84	4.60	-.540	10.60	4.49	18.00
383	2.92	3.52	-1.75	2.50	-.331	4.72	2.48	8.76
384	4.47	7.16	-3.55	4.24	-.802	7.56	6.37	20.00
385	4.35	3.35	4.31	2.78	.040	6.78	3.02	11.34
386	3.00	3.78	-3.89	3.77	-.724	5.86	4.06	12.97
387	-.50	3.62	-4.23	2.56	-.502	5.34	2.74	8.55
388	-3.00	1.66	2.06	2.32	.240	4.20	1.74	6.15
389	-4.71	1.98	-2.05	5.62	.454	6.56	4.01	14.75
390	3.16	4.74	4.84	4.84	.458	7.13	5.05	16.31
391	-7.13	6.21	-6.39	6.19	.747	10.93	6.65	18.83
392	1.48	5.59	2.32	3.39	.907	6.20	2.58	10.09
393	6.01	3.43	-.37	4.64	-.107	7.78	2.22	11.21
394	6.71	4.67	-.83	2.73	.220	7.70	3.67	13.45
395	2.99	5.68	-9.15	6.79	.806	11.85	4.75	17.92
396	-1.58	6.42	-6.11	8.70	.699	9.71	7.32	25.58
397	.17	2.62	-1.33	2.12	.854	3.26	1.04	4.65
398	4.85	1.35	-.16	2.28	.344	5.33	1.12	6.34
399	1.22	2.47	2.71	1.55	.498	3.79	1.41	6.19
400	1.01	5.05	-.26	4.04	.929	5.45	2.90	9.80
401	-9.00	3.43	-7.01	7.06	-.207	12.89	4.43	20.75
402	-6.44	6.31	6.38	6.31	.185	11.44	4.77	19.12
403	-7.64	6.98	2.56	3.31	.750	9.40	5.68	17.00
404	2.83	3.62	.70	1.95	.861	3.92	2.97	9.25
405	4.08	3.70	2.29	2.68	-.183	5.88	2.47	10.01
406	2.96	8.93	-6.64	10.33	.836	12.61	7.92	25.39
407	-9.94	3.68	-4.40	6.28	-.013	12.34	3.66	18.50
408	-5.07	6.30	-.26	8.44	.830	10.55	3.35	17.41
409	-26.35	2.32	-13.75	9.34	.205	30.76	4.42	35.70
410	-8.25	6.37	-6.78	4.30	-.240	12.00	4.90	19.04
411	2.41	4.17	-.90	2.99	-.204	4.65	2.98	9.80
412	3.83	2.85	-.29	1.24	.259	4.36	2.15	8.50
413	-3.85	2.25	-2.33	1.47	-.240	4.82	1.93	7.22
414	-1.34	1.21	4.02	2.94	.661	5.13	.58	6.00
415	9.44	4.15	3.33	1.80	-.164	10.31	3.65	13.55
416	2.52	4.25	1.04	2.73	-.291	4.63	3.03	9.91
417	5.38	5.01	11.29	6.60	.539	13.74	5.57	20.89
418	2.48	2.76	3.92	3.95	-.871	6.33	1.27	8.09

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419	11.99	6.10	2.87	5.08	-.655	13.66	4.77	20.00
420	-2.08	4.07	-4.42	6.51	.560	7.29	4.97	15.10
421	-10.12	5.78	-8.56	7.74	.926	13.76	8.80	24.81
422	-15.36	8.16	-10.82	6.65	.963	18.83	10.43	32.21
423	3.22	4.07	-1.09	5.29	-.523	6.88	1.65	9.26
424	-2.79	4.73	-1.68	1.83	-.827	4.98	3.03	10.34
425	3.05	3.45	-3.29	3.96	-.220	6.01	2.98	10.44
426	-2.05	4.10	-17.86	7.34	.947	18.23	7.74	31.50
427	-1.26	2.49	2.68	3.79	.799	4.50	2.67	8.68
428	-.75	3.07	4.33	2.41	-.005	5.22	2.44	7.56
429	3.72	2.87	3.52	3.98	.695	5.72	4.07	10.94
430	2.73	7.51	-.37	6.55	.715	8.91	3.95	16.91
431	2.24	2.80	2.67	4.56	-.602	5.74	2.11	7.89
432	6.03	3.16	-.29	4.94	-.125	7.21	4.02	12.15
433	-.41	2.55	4.11	2.80	-.221	5.10	1.98	8.06
434	-.59	3.34	.77	3.60	.636	4.01	2.53	8.85
435	1.04	4.46	.78	4.06	.506	5.20	2.62	9.86
436	6.89	4.10	-.52	2.41	.253	7.23	4.16	14.06
437	-2.66	2.83	3.73	2.30	.315	5.34	2.14	8.45
438	1.02	2.61	5.53	2.40	.687	6.02	2.69	10.10
439	.43	1.44	6.90	2.59	.304	7.12	2.33	9.71
440	3.82	4.53	-1.93	5.07	-.488	6.34	4.56	15.11
441	-1.35	3.32	-6.28	3.45	.946	7.16	3.35	11.72
442	2.55	2.82	-.09	3.00	.411	3.91	2.57	7.82
443	-1.20	5.13	.44	1.78	-.636	4.16	3.36	9.08
444	-1.17	2.31	-2.91	3.01	.387	4.41	1.77	7.12
445	-.54	2.30	1.20	1.43	.353	2.59	1.24	4.43
446	.57	7.17	-.33	2.11	.525	5.39	4.74	15.36
447	.74	3.64	-5.38	3.96	-.253	6.60	3.56	12.27
448	1.45	3.11	-4.42	3.20	-.106	5.44	3.26	10.58
449	1.77	5.22	8.43	5.98	-.094	10.16	5.40	20.38
450	1.62	3.01	-.74	2.65	.327	3.81	1.68	5.78
451	-1.89	2.53	.89	3.42	-.096	4.17	1.70	7.09
452	-2.91	6.11	-2.28	4.91	-.561	7.21	4.08	14.17
453	.67	2.13	6.76	2.82	.123	7.08	2.81	10.53
454	.26	2.02	4.96	4.72	.807	5.48	4.49	14.66
455	.00	4.09	2.42	3.73	-.732	4.92	3.03	10.84
456	4.12	3.49	-2.58	4.33	-.912	6.30	3.50	13.22
457	-4.49	3.30	4.37	5.71	.840	8.09	3.59	15.58
458	-1.53	2.89	2.06	2.12	-.346	3.50	2.49	8.13
459	.99	2.29	4.47	2.43	-.291	5.18	2.08	7.97
460	-6.43	5.47	2.28	1.36	-.315	7.73	4.05	13.63
461	-6.13	4.58	4.17	5.42	.578	9.02	4.43	14.86
462	-4.82	3.98	3.19	4.22	-.271	7.05	3.84	12.70
463	5.20	4.46	.51	11.66	-.483	11.15	6.52	20.35
464	5.60	4.73	5.38	2.42	-.395	8.91	2.42	13.28
465	-.34	3.59	2.16	2.20	.437	3.79	2.57	7.82
466	-1.09	4.38	2.30	2.40	.748	4.15	3.52	10.01
467	.55	2.93	.53	3.26	.588	3.69	2.01	5.96
468	-.08	1.39	2.98	2.07	.277	3.24	2.09	6.50
469	1.51	4.78	-2.33	3.75	.287	5.68	2.88	9.52
470	-2.72	2.47	1.34	4.46	-.058	5.19	2.31	7.33
471	-.62	4.66	2.27	4.48	-.556	5.10	4.23	13.40
472	3.79	1.54	.44	3.12	-.001	4.62	2.04	6.77
473	-.92	4.17	-3.63	5.65	.100	6.86	3.27	12.94
474	9.20	11.08	-7.71	13.30	-.501	16.77	11.82	33.12
475	.75	1.88	7.31	4.47	.115	7.66	4.26	13.45
476	-6.13	1.64	4.50	2.79	.380	8.05	1.55	10.65
477	5.01	2.01	4.58	1.75	.205	6.95	2.13	10.29
478	7.17	3.84	11.75	4.58	.151	14.16	4.77	19.15

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

479	2.76	3.17	3.39	3.19	-.416	5.73	2.06	8.90
480	3.21	4.07	-3.04	4.52	-.260	6.58	3.05	10.74
481	-17.81	3.99	4.21	3.04	-.283	18.47	4.23	24.50
482	5.10	3.42	-16.42	5.88	.311	17.77	4.79	24.90
483	-3.33	2.65	3.68	1.36	-.329	5.38	1.97	8.70
484	-2.48	2.49	-.47	1.28	.105	3.19	1.84	6.17
485	1.65	5.76	.88	5.24	-.771	5.96	4.82	15.48
486	1.89	6.64	6.54	7.06	.251	10.30	4.93	17.52
487	-3.13	2.17	3.66	2.17	-.195	5.13	2.43	9.38
488	.24	2.01	1.98	3.70	.495	3.88	2.20	5.96
489	6.98	14.49	-3.72	5.75	-.645	13.36	10.38	31.21
490	.47	3.63	-3.62	3.66	-.556	5.45	2.74	9.00
491	-1.10	1.38	1.97	3.83	.037	4.01	1.94	7.11
492	.32	2.42	-1.24	4.95	.129	3.87	3.85	12.00
493	1.48	5.21	1.74	5.07	.538	5.83	4.39	13.75
494	-1.93	5.00	-.73	2.25	-.089	4.72	2.99	10.01
495	-8.55	4.80	12.00	6.47	-.947	14.81	7.90	25.27
496	-3.80	2.71	9.49	2.83	.146	10.57	2.67	13.64
497	.90	1.64	.49	3.51	.138	3.41	1.63	5.71
498	3.79	3.16	-8.56	5.33	.207	10.07	4.74	16.15
499	1.90	4.15	.44	2.26	-.886	3.26	3.80	11.53
500	.71	1.34	2.47	2.97	-.741	3.64	1.69	6.65
501	-1.21	3.74	-3.06	2.05	-.039	4.65	2.37	7.76
502	-1.73	3.30	-4.37	3.01	.530	5.29	3.60	12.29
503	-1.75	3.67	-1.82	2.28	.669	3.84	2.98	9.85
504	2.95	2.84	2.25	2.89	.688	4.31	3.28	8.40
505	-2.89	1.51	-.02	2.45	-.370	3.76	1.24	5.52
506	1.02	1.53	.46	2.49	.469	2.51	1.64	6.16
507	-5.85	1.92	2.16	4.52	.045	7.46	2.13	10.05
508	-.37	6.00	1.91	3.12	-.173	5.27	4.21	13.67
509	2.70	3.34	-5.34	2.52	.843	6.99	1.50	8.60
510	-6.01	4.89	-6.70	4.60	.681	10.02	4.75	16.80
511	-7.60	5.13	-.15	4.22	.733	9.01	4.11	14.75
512	-1.08	3.74	6.48	4.90	.362	7.90	3.93	11.91
513	.93	3.54	-2.03	1.68	.736	3.92	1.80	6.66
514	1.62	3.58	1.29	3.89	.227	4.61	2.85	8.78
515	-2.53	2.61	2.60	2.11	.729	4.67	1.11	6.46
516	2.05	2.75	2.73	3.22	.597	4.82	2.10	7.67
517	-2.19	3.26	5.50	7.23	-.259	8.53	4.34	16.11
518	4.65	3.84	-3.29	3.44	-.611	6.40	4.09	13.06
519	-1.83	3.90	2.62	1.99	.680	4.62	2.49	8.03
520	4.73	3.31	.26	2.26	-.260	5.36	2.96	10.02
521	1.16	2.06	-3.05	1.82	-.651	3.63	2.14	6.60
522	1.53	3.26	2.43	2.50	.495	3.81	3.08	8.34
523	-4.22	3.89	1.43	3.09	.835	5.50	3.55	13.25
524	-7.94	3.00	-5.40	1.66	-.189	9.84	2.51	13.23
525	-4.67	7.77	-7.35	4.20	.692	9.79	7.39	24.15
526	-1.53	3.73	-7.06	4.12	-.237	8.15	3.77	15.58
527	3.04	3.80	3.23	3.31	-.380	6.10	2.22	10.40
528	-3.71	4.63	-3.08	3.81	.777	5.53	5.23	13.18
529	-4.06	3.32	1.67	2.14	.326	5.23	2.49	8.04
530	-3.02	1.70	5.03	3.25	-.607	6.02	3.38	10.10
531	-5.04	2.65	1.69	3.82	-.292	6.16	3.21	11.91
532	-2.26	2.23	-.17	1.73	.292	2.90	2.05	6.43
533	-2.19	4.29	3.75	2.56	-.572	5.34	3.69	12.39
534	2.55	2.38	2.36	1.85	-.233	4.07	1.95	6.18
535	-3.15	6.80	-10.05	4.95	.755	12.63	3.71	17.21
536	-5.50	4.94	-1.90	4.44	-.045	7.33	4.57	13.30
537	-2.23	2.50	1.36	2.95	-.399	3.98	2.13	7.80
538	2.90	2.36	1.71	2.25	-.107	4.17	1.89	7.34

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

539	-.57	2.19	-.94	2.68	.306	2.80	2.06	5.73
540	.92	1.21	-1.73	2.26	.521	2.55	1.85	6.03
541	1.07	3.04	-.33	1.16	.106	2.91	1.48	6.03
542	3.01	2.83	2.93	1.26	-.263	4.71	2.07	7.83
543	-.60	2.99	-5.82	2.22	-.589	6.63	1.59	8.88
544	1.97	3.84	-1.03	5.05	.312	5.90	2.31	9.20
545	2.69	1.27	.06	2.50	.390	3.58	1.16	5.05
546	3.70	1.31	2.65	2.81	.149	5.01	2.12	8.89
547	-3.74	5.10	-2.31	6.61	.616	8.54	2.69	13.37
548	-4.64	3.89	1.55	2.80	.227	5.95	3.08	10.10
549	-.04	4.19	-12.09	2.85	.020	12.74	2.61	17.56
550	-.29	3.02	.04	3.92	.088	4.10	2.23	7.05
551	5.50	5.35	1.75	3.35	.338	6.99	4.66	14.55
552	-2.08	3.49	-2.33	2.66	-.184	4.40	2.83	7.98
553	-6.34	6.81	-9.32	5.70	.198	12.66	6.32	20.55
554	-13.17	5.22	11.47	5.91	-.645	17.78	7.02	30.28
555	2.93	3.89	3.72	3.11	-.323	6.14	2.65	9.50
556	5.64	2.88	-4.26	3.00	-.364	7.39	3.44	11.54
557	-1.86	1.48	1.90	3.83	.757	4.02	2.51	9.43
558	-1.26	3.66	3.00	2.07	-.071	4.25	2.99	9.13
559	-.27	1.79	-4.20	3.67	.778	4.65	3.47	11.44
560	5.37	2.83	-2.36	3.26	.710	6.72	2.48	11.15
561	.49	2.10	1.18	2.54	.661	2.94	1.64	4.52
562	2.17	1.28	2.87	1.84	-.130	3.92	1.48	6.14
563	4.57	6.68	-12.95	16.47	-.837	16.78	14.39	37.12
564	-1.22	6.06	4.88	14.05	-.346	13.88	6.22	22.78
565	-2.77	4.66	-.97	8.14	-.218	7.73	5.33	17.03
566	-5.46	1.61	9.56	4.93	.493	11.57	3.46	17.74
567	-2.25	2.30	-.13	1.22	-.502	2.85	1.78	6.18
568	-3.21	3.00	1.47	1.90	.065	4.51	1.86	6.49
569	2.86	1.72	-.27	3.06	.296	4.26	.87	5.25
570	-.44	2.79	-5.35	5.51	-.844	6.33	5.00	15.17
571	-3.59	2.08	-7.73	6.24	.500	8.93	5.91	18.23
572	-2.88	3.05	9.87	2.27	.544	10.73	1.88	13.10
573	-1.09	13.64	.28	3.86	-.387	11.96	5.95	22.00
574	-16.41	7.46	-7.40	5.90	-.046	19.20	6.22	27.80
575	-.64	1.84	2.39	1.78	.261	3.23	1.24	5.69
576	-4.29	2.61	-4.51	5.99	.316	7.33	5.02	17.04
577	-1.34	2.93	.86	2.70	-.507	3.68	1.75	5.78
578	1.19	1.39	-.99	3.41	-.396	3.36	1.78	7.11
579	-11.23	6.58	-1.00	3.56	.922	11.77	6.55	22.24
580	-8.81	8.28	.22	2.21	.755	9.26	8.00	22.48
581	-1.84	7.96	11.44	5.03	.612	14.02	3.98	18.49
582	11.98	2.79	-.97	2.86	.032	12.31	2.80	17.05
583	-12.32	13.60	-6.26	7.21	.978	14.48	14.66	35.85
584	-12.50	12.05	-10.02	9.19	.965	16.43	14.64	36.33
585	-4.91	4.27	-1.10	2.21	-.162	6.06	3.14	10.63
586	5.51	4.08	9.98	12.01	.207	13.84	9.43	27.34
587	-1.70	1.88	-2.45	1.87	-.462	3.56	1.62	5.47
588	-3.50	2.55	2.99	3.69	-.812	5.60	2.88	9.59
589	-1.99	3.24	7.76	2.93	-.230	8.55	2.94	12.41
590	.77	1.87	4.34	3.61	.225	4.87	3.40	8.73
591	-4.12	4.73	2.04	1.59	.456	5.96	2.85	9.87
592	-.30	3.05	-.15	4.29	.658	4.73	1.33	5.67
593	-9.34	2.38	-7.83	4.72	.014	12.79	3.24	17.35
594	2.45	5.47	-9.89	13.87	.814	13.32	11.69	31.02
595	-13.25	1.34	1.10	9.94	-.415	16.07	2.36	19.43
596	-5.65	4.52	9.27	8.02	-.359	13.40	3.57	17.15
597	-2.05	1.77	3.02	2.31	-.709	3.92	2.46	6.22
598	.02	1.60	1.20	2.60	.114	2.84	1.25	4.67

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

599	-.53	2.73	2.90	1.50	-.365	3.96	1.25	5.59
600	6.98	9.72	3.34	5.33	-.848	10.84	7.46	27.34
601	-1.57	2.41	2.68	2.90	.295	4.06	2.50	7.83
602	-.58	1.56	2.18	1.63	.492	2.81	1.34	4.27
603	.33	4.32	-1.15	4.27	.386	5.51	1.78	6.87
604	1.92	5.69	-.38	7.28	.237	7.67	4.62	14.02
605	-12.48	6.16	1.29	6.12	-.210	13.85	5.94	21.96
606	-5.77	7.59	-16.04	10.35	.508	17.91	11.39	34.70
607	1.08	5.55	8.92	6.94	.490	10.35	6.94	24.58
608	3.92	3.37	-3.99	7.56	-.098	8.95	3.37	11.62
609	-4.20	3.69	4.09	2.47	-.068	6.68	2.78	11.66
610	10.06	10.53	4.42	4.58	-.728	13.16	8.41	31.23
611	-9.45	9.91	-19.89	7.35	.216	23.23	9.41	37.41
612	-1.16	6.25	6.50	4.92	-.535	9.47	3.07	14.54
613	-.72	2.43	2.67	1.80	.489	3.60	1.71	5.57
614	-3.51	3.46	.41	1.93	.000	4.25	3.02	8.01
615	-3.24	2.63	8.16	3.30	.083	9.27	2.76	12.20
616	2.66	2.24	9.20	3.23	-.419	9.98	2.48	14.31
617	-10.74	3.36	4.13	2.72	-.263	11.71	3.62	14.63
618	-4.08	5.04	2.33	1.96	.788	6.42	2.62	10.89
619	6.61	5.76	2.34	2.09	-.343	7.68	5.11	16.94
620	4.98	2.53	6.52	3.22	.300	8.50	3.32	12.78
621	.97	2.11	1.48	5.89	.579	5.36	3.05	11.13
622	-1.99	4.29	-11.47	4.63	.851	12.54	3.83	17.07
623	1.24	4.92	-5.38	5.86	-.692	7.37	5.54	19.15
624	3.87	2.09	1.55	2.50	-.061	4.67	2.33	7.97
625	2.12	9.48	-4.26	3.24	.851	9.49	4.67	15.59
626	-10.05	5.77	-18.48	4.83	.456	21.43	6.08	27.04
627	-4.03	2.58	2.68	2.41	-.909	5.03	3.20	8.09
628	2.90	2.31	1.17	1.71	-.659	3.90	1.39	6.04
629	-8.12	7.41	-9.10	3.13	-.676	13.99	3.15	18.56
630	.68	6.85	-19.38	8.72	-.680	20.35	8.85	30.89
631	2.02	2.11	1.81	2.43	.190	3.52	2.12	5.87
632	2.83	3.78	-3.01	3.50	.808	5.99	2.13	9.76
633	-16.26	8.99	-4.35	5.12	.751	17.19	9.63	29.53
634	-5.41	3.11	-1.76	7.23	-.674	8.69	3.40	13.10
635	-2.80	2.46	4.79	8.29	.826	8.76	4.61	15.45
636	2.88	2.77	2.79	3.28	-.299	5.47	1.52	6.96
637	-.23	1.66	-5.01	4.62	.271	5.39	4.43	13.69
638	1.70	1.71	2.61	4.69	-.077	4.85	2.96	8.76
639	3.18	1.70	3.13	3.73	-.210	5.39	2.48	8.66
640	4.19	1.72	1.49	2.53	-.183	5.15	1.23	7.47
641	1.16	6.45	-.28	5.92	.748	7.53	3.48	11.88
642	6.54	3.14	-.59	5.59	.287	8.40	3.01	12.04
643	.81	2.63	4.52	2.63	.523	5.03	2.98	9.38
644	1.59	2.02	1.84	2.56	.639	3.42	1.97	6.00
645	7.31	4.64	-2.08	6.07	-.104	9.17	5.25	16.05
646	6.73	4.20	2.72	8.44	-.718	11.15	2.27	13.66
647	-10.09	3.36	.53	7.27	-.792	12.16	3.28	16.02
648	-10.01	2.41	2.13	3.97	.441	10.93	2.09	14.10
649	-4.48	1.57	2.50	1.32	-.163	5.25	1.68	8.01
650	-.48	2.52	2.68	1.72	-.690	3.66	1.53	6.33
651	3.06	5.45	-2.61	5.34	-.937	6.43	5.37	14.74
652	.29	4.11	3.80	4.84	-.560	6.07	3.79	11.55
653	.82	1.58	1.30	2.29	-.378	2.81	1.13	4.09
654	3.90	2.57	-3.03	1.58	-.918	5.00	2.90	9.03
655	3.40	2.52	4.73	1.06	.473	6.06	2.04	9.24
656	5.63	2.11	-2.32	1.77	-.799	6.19	2.46	9.02
657	1.07	2.12	1.07	2.05	-.047	2.91	1.22	5.15
658	-1.23	3.08	2.00	2.82	-.054	4.33	1.40	6.78

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

659	-7.70	1.66
660	-3.55	2.38
661	7.68	4.73
662	8.06	4.26
663	7.00	3.74
664	-1.67	4.14
665	4.65	2.52
666	3.84	3.54
667	3.84	4.47
668	1.87	3.43
669	9.08	1.81
670	10.80	4.90
671	.44	1.73
672	-3.46	3.84
673	.36	5.42
674	-1.90	2.58
675	.31	3.26
676	1.52	4.59
677	2.55	2.25
678	-3.56	2.49
679	.33	2.54
680	4.53	2.77
681	.82	.88
682	3.25	3.74
683	-2.01	4.23
684	-1.21	4.77
685	.64	2.16
686	1.01	5.14
687	-.25	1.58
688	.64	2.04
689	.22	2.02
690	2.27	3.17
691	2.91	3.01
692	-4.85	5.51
693	-4.88	7.37
694	-2.08	3.55
695	2.37	3.49
696	4.03	1.03
697	-1.06	2.81
698	1.34	2.68
699	2.51	1.79
700	5.84	2.14
701	1.34	1.64
702	3.03	2.74
703	-4.68	2.20
704	-.79	2.88
705	-.76	1.87
706	.50	1.86
707	1.42	3.02
708	4.61	2.49
709	-1.70	1.79
710	.23	1.56
711	3.33	1.11
712	2.65	3.08
713	-.06	1.19
714	.23	2.31
715	.29	1.30
716	-.31	1.61
717	.41	2.47
718	1.57	1.87
.81	1.57	-.098	7.89	1.61	9.78
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-1.03	2.55	.326	4.64	1.75	6.75
3.62	3.88	.645	9.49	4.07	13.17
-.85	5.40	-.179	9.60	4.05	14.40
1.11	1.14	-.580	7.19	3.69	15.27
-.77	4.47	-.241	4.86	3.67	11.00
1.33	1.93	.207	5.18	2.46	10.07
-3.33	2.48	.498	6.04	2.50	10.88
4.09	5.30	.713	6.85	5.47	16.10
4.91	3.79	.604	6.25	3.58	12.61
-1.59	2.60	-.297	9.51	1.88	12.72
-1.89	3.53	.717	11.86	3.57	17.77
1.38	3.09	.295	3.21	1.73	5.61
.12	1.93	.715	4.21	3.44	11.13
1.00	4.78	-.680	6.29	2.73	10.06
.29	3.48	.322	3.79	2.51	6.90
1.68	1.89	-.192	3.60	1.58	5.96
-.42	3.33	-.600	4.02	4.03	12.56
-1.36	3.63	.492	4.44	2.24	7.53
-3.10	2.71	.112	5.18	2.87	9.87
1.41	1.52	.146	2.54	1.92	5.24
-2.03	5.59	-.392	6.53	4.23	13.74
2.38	4.03	.079	4.05	2.31	7.87
4.09	3.22	-.052	6.19	3.40	10.15
-10.07	5.47	.015	11.04	5.33	20.82
.30	8.73	.568	7.10	6.48	20.10
2.21	3.18	.246	3.72	2.21	6.11
.52	6.01	.699	6.25	4.30	13.68
-2.29	2.01	-.727	2.95	1.61	6.08
-1.54	2.54	-.058	3.21	1.34	4.69
1.32	4.52	-.637	4.55	1.56	7.46
-4.02	4.94	.413	5.82	4.46	14.38
-3.82	4.05	-.607	5.28	4.46	13.06
4.61	5.31	-.610	7.93	6.13	15.91
-12.05	2.99	-.074	14.31	4.64	21.93
-7.54	7.17	.228	9.56	5.35	18.87
.32	3.03	.625	3.99	3.08	9.13
.51	2.10	-.265	4.49	1.07	6.02
-2.36	2.91	.734	3.62	2.97	8.29
2.76	8.77	.882	7.81	4.91	14.09
2.00	2.54	-.066	3.89	2.01	5.80
-.94	2.02	.501	6.28	1.88	9.65
-1.45	2.94	-.085	3.39	1.56	5.23
.04	2.85	.378	4.37	2.03	7.41
1.74	1.91	.695	5.53	1.35	6.92
2.62	1.57	-.570	3.69	1.89	6.04
-1.07	2.28	.442	2.88	1.01	4.54
-2.87	1.99	-.218	3.42	1.90	6.99
2.59	3.77	-.073	5.04	1.97	7.47
2.46	4.05	.316	6.35	2.71	11.10
-.65	1.28	-.108	2.53	1.10	4.34
-1.93	2.33	-.417	2.86	1.66	5.12
5.13	3.89	-.616	6.86	2.27	9.44
-.65	4.70	.096	5.37	2.59	8.63
.83	1.73	.107	1.76	1.27	4.22
-.57	2.40	-.101	2.72	1.68	5.41
.57	2.76	-.162	2.52	1.56	5.52
-.30	3.90	.208	3.80	1.08	5.32
3.20	1.82	.666	4.03	1.62	6.77
-2.30	1.87	-.653	3.06	2.27	6.50

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

719	-1.53	2.88	.99	3.52	-.282	3.64	3.02	9.14
720	2.02	1.41	-.25	1.73	.759	2.68	1.17	4.22
721	1.29	2.78	1.80	3.07	.663	3.96	2.15	7.18
722	.85	1.57	-.36	3.14	.444	3.07	1.53	4.97
723	1.86	1.99	1.47	2.62	-.604	3.31	2.13	6.24
724	-1.23	1.88	-4.49	3.47	-.085	5.07	3.29	9.51
725	-1.05	1.62	2.18	2.19	-.380	3.25	1.40	5.12
726	2.75	4.48	3.23	1.06	.675	5.25	3.17	11.14
727	-5.52	2.89	-3.70	6.70	-.924	9.02	3.13	13.70
728	-2.66	2.49	-.55	4.79	-.251	5.26	2.32	8.14
729	-11.89	10.57	1.47	3.65	.115	12.91	9.88	28.74
730	4.65	3.66	-3.26	3.26	.269	6.80	2.77	11.62
731	-1.59	3.30	3.57	3.62	-.035	5.57	2.38	8.35
732	.71	2.72	4.18	2.15	-.053	4.96	2.06	8.77
733	-.66	2.92	-3.11	3.86	.350	5.08	2.26	9.60
734	2.46	2.26	-.34	2.55	.702	3.71	1.65	5.64
735	.23	1.70	.29	1.53	.648	2.03	.74	3.31
736	2.52	2.62	3.81	2.02	-.584	5.27	1.72	7.20
737	2.60	1.82	5.69	6.33	.134	7.55	4.73	13.95
738	1.77	2.13	4.04	4.92	.327	5.68	3.71	11.67
739	.22	2.87	1.76	2.75	.538	3.85	1.48	5.26
740	2.65	1.69	1.79	3.28	.130	4.20	2.22	6.79
741	-6.22	6.12	22.08	10.20	-.273	23.71	10.00	33.38
742	-2.82	3.94	7.49	4.34	-.649	8.47	5.04	16.79
743	-.19	2.80	3.16	2.13	-.483	4.02	2.29	8.03
744	2.31	2.62	3.84	2.58	.060	4.96	2.87	8.72
745	-1.91	8.21	.75	4.37	-.120	8.37	3.09	13.96
746	.84	10.45	-3.75	4.24	-.160	9.99	5.29	18.77
747	-1.91	4.66	7.03	6.00	.667	9.15	4.68	17.19
748	-.38	4.30	9.14	2.03	-.506	10.05	1.57	11.68
749	-8.51	5.90	3.98	3.50	-.070	10.39	4.90	16.25
750	5.22	4.75	-15.85	5.99	-.647	17.07	6.57	27.95
751	-2.93	1.52	5.61	2.96	.138	6.63	2.55	9.66
752	-1.52	4.04	6.18	2.01	-.864	7.24	2.52	11.08
753	-7.42	2.57	-3.44	3.92	.692	8.83	3.02	13.09
754	-4.86	6.32	-7.00	7.94	.917	9.24	9.39	25.77
755	1.34	1.98	1.98	3.73	-.820	4.28	1.77	6.33
756	1.34	1.83	2.88	1.09	.172	3.57	1.18	5.30
757	4.77	5.41	-6.33	7.79	.091	10.44	6.02	22.01
758	-.55	2.43	1.07	4.66	-.613	4.60	2.16	7.02
759	-2.66	6.69	-1.48	9.18	-.754	8.63	7.27	23.57
760	1.36	3.39	-3.18	5.95	-.255	6.45	3.53	11.21
761	.09	5.63	-1.39	4.44	.479	6.26	2.83	10.91
762	6.61	7.74	-2.03	5.33	.568	8.83	7.29	22.59
763	-4.25	.60	-6.23	4.97	.072	8.05	3.99	15.04
764	-.84	2.40	-7.43	5.10	.118	8.35	3.95	12.98
765	2.78	2.75	2.73	4.84	.011	5.89	2.87	9.16
766	1.11	4.31	4.16	4.99	.103	6.76	3.43	11.49
767	-2.52	2.50	2.51	4.28	-.626	4.99	3.21	9.26
768	-.41	3.10	.88	1.92	.530	2.83	2.25	7.06
769	.68	2.94	3.13	2.74	.255	4.38	2.39	8.05
770	3.34	1.74	-1.86	3.02	.448	4.66	1.96	7.78
771	-.28	3.49	-.53	3.25	.187	4.16	1.71	6.28
772	1.48	2.20	-2.01	5.29	.733	5.04	3.22	9.52
773	1.46	2.81	2.66	2.34	.438	3.97	2.37	7.88
774	2.81	2.21	2.65	1.45	.584	4.13	2.14	7.84
775	.31	2.93	-1.18	2.69	-.667	3.55	1.71	5.93
776	2.74	2.94	-.84	1.88	.728	3.97	1.83	7.52
777	-3.15	3.69	-3.66	2.81	.017	6.27	1.71	8.04
778	-9.82	4.05	-2.53	5.77	-.235	11.47	4.02	15.17

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

779	.71	1.89	1.58	1.92	.042	2.77	1.36	4.86
780	1.10	3.07	1.63	1.93	-.903	3.58	1.63	6.93
781	.21	4.21	1.05	2.62	.660	4.18	2.34	7.03
782	.08	2.75	.93	4.26	-.277	4.49	1.79	6.73
783	-9.90	5.00	-9.44	5.79	.830	13.90	7.18	23.01
784	-6.73	6.20	-12.11	7.33	.842	14.20	8.98	25.88
785	.35	2.86	-.27	1.58	-.492	2.87	1.16	5.10
786	3.06	3.32	2.78	2.21	.334	4.68	3.22	11.11
787	2.29	4.97	-4.46	3.10	.664	6.97	2.63	10.89
788	11.84	4.83	1.06	5.16	.560	13.29	3.00	18.09
789	.49	3.59	-10.65	6.72	-.526	11.37	6.31	21.49
790	-3.04	1.27	-.80	4.23	.300	4.90	1.72	7.26
791	3.37	2.77	2.22	6.00	.277	6.63	3.38	10.90
792	7.73	4.20	5.01	3.45	.201	9.62	4.55	15.26
793	-.12	4.47	3.32	7.54	-.536	8.15	3.50	13.76
794	-3.62	3.45	-10.34	8.54	.825	11.75	7.98	20.54
795	-3.30	6.70	2.05	5.84	.811	8.35	3.92	13.79
796	2.76	2.11	1.01	2.61	-.351	4.05	1.50	6.19
797	1.97	3.33	-3.51	4.92	.695	6.26	2.91	12.30
798	-.54	3.28	-2.39	1.85	.381	3.60	2.46	7.10
799	.05	1.94	-1.43	2.25	.119	2.88	1.25	5.20
800	-.67	2.03	-.04	1.51	.247	2.15	1.23	3.77
801	-.62	2.13	-1.74	1.24	.632	2.83	.83	3.99
802	3.47	2.83	1.01	2.31	.677	4.12	2.96	8.75
803	.92	.92	1.08	1.67	.184	2.04	1.06	4.22
804	-1.71	2.78	.74	1.30	-.008	3.07	1.58	4.89
805	-3.33	2.80	1.30	.92	.302	4.07	2.06	7.00
806	-1.31	3.27	2.18	1.73	.376	4.04	1.50	5.39
807	2.94	1.07	3.66	2.97	.283	5.01	2.52	8.46
808	5.60	2.98	.65	4.61	.127	7.06	2.99	11.00
809	1.03	1.95	-.96	2.94	-.103	3.32	1.37	5.03
810	.71	2.13	-.45	2.29	.253	2.85	1.07	4.80
811	-.11	2.13	-1.58	2.20	-.745	2.89	1.61	5.42
812	2.60	2.71	-1.91	2.41	.622	4.04	2.50	8.00
813	-2.36	1.63	-.37	1.52	.134	2.78	1.62	4.58
814	.41	2.08	-.25	1.66	.122	2.25	1.20	4.69
815	-2.85	2.75	.19	1.63	.213	3.42	2.47	8.16
816	-.13	1.14	-2.19	3.14	.125	3.28	2.05	6.01
817	-1.22	2.47	.10	1.68	-.655	2.44	1.92	5.46
818	.87	1.88	-2.23	2.08	-.277	3.19	1.65	5.72
819	.93	1.90	3.91	2.14	.049	4.47	1.94	7.18
820	1.51	4.04	2.44	1.13	-.068	4.23	2.52	8.29
821	1.67	1.89	-4.67	4.40	.517	5.56	3.96	12.45
822	1.57	1.82	.16	4.46	-.075	3.75	3.11	10.19
823	.73	3.09	1.04	5.10	-.025	4.86	3.15	10.39
824	1.91	3.35	-2.26	1.99	.566	4.31	1.94	6.35
825	-1.11	2.57	-3.91	1.25	-.586	4.79	.83	5.91
826	7.65	4.09	-1.17	5.87	-.910	9.05	5.04	18.05
827	-6.75	5.21	7.06	6.63	-.014	11.15	6.12	21.43
828	-12.09	9.11	-2.98	5.69	.837	13.44	9.24	23.62
829	-.38	1.89	.18	2.48	-.448	2.74	1.09	4.22
830	-1.32	2.96	2.49	2.14	-.716	3.99	2.02	7.00
831	1.36	4.05	-6.12	5.19	-.737	7.01	5.64	19.04
832	3.10	2.38	4.67	3.51	-.337	6.29	2.90	12.08
833	-.24	3.49	-4.99	7.21	.808	7.55	5.18	14.98
834	2.24	1.96	-.70	4.60	.380	4.81	2.11	8.00
835	1.89	4.46	3.11	2.75	-.110	5.55	2.65	8.78
836	.68	3.33	.68	2.66	.303	3.63	1.97	6.00
837	4.01	3.54	2.67	2.55	.124	5.68	2.91	10.50
838	.17	3.21	-5.33	2.84	.112	6.09	2.86	10.76

SANTA MONICA 6HR WIND CHANGE 3-9 KM WINTER

839	4.38	2.21	4.11	2.32	.430	6.21	2.70	10.98
840	6.77	2.28	2.53	3.52	-.306	7.96	2.14	11.11
841	7.57	3.09	6.10	4.87	-.100	10.47	3.94	16.83
842	-3.86	3.98	-3.39	4.86	-.213	6.43	4.70	12.06
843	1.80	4.69	2.77	1.66	.500	4.91	3.06	9.79
844	-5.95	7.19	-3.08	5.65	.837	7.67	8.20	24.52
845	-2.60	3.22	1.46	1.56	.223	3.87	2.39	8.19
846	-1.75	1.71	6.37	4.34	-.742	6.75	4.42	13.00
847	2.37	10.37	-10.16	5.79	-.008	14.28	5.50	21.07
848	-2.47	4.09	2.10	5.49	.046	6.87	2.04	10.81
849	-3.38	9.73	-3.45	5.27	.690	8.61	7.94	25.90
850	5.20	3.65	-1.76	3.12	-.373	6.29	3.47	12.03
851	-2.38	3.13	3.47	2.48	.360	5.24	2.14	8.67
852	1.26	1.92	2.44	2.66	.629	3.66	2.00	6.36
853	-.77	3.90	2.54	3.32	.153	4.86	2.63	9.03
854	.61	2.65	4.40	3.85	.169	5.31	3.45	10.66
855	4.75	2.40	.06	2.83	.138	5.40	2.47	9.11
856	2.15	2.39	-1.59	1.64	.543	3.71	.84	5.00
857	-4.11	1.74	-3.13	3.37	.784	5.56	3.08	10.39
858	-4.31	6.24	.18	3.88	-.302	6.38	5.32	13.97
859	4.03	6.39	-6.08	6.88	-.681	9.38	6.89	23.19
860	-2.37	6.72	-3.95	5.43	-.940	8.27	4.42	15.92
861	3.46	2.84	1.69	6.18	-.131	6.54	3.70	12.45
862	-.19	4.01	-3.61	5.10	.852	6.38	3.15	11.48
863	1.29	2.06	-3.61	6.33	-.112	6.03	4.37	14.70
864	-9.17	7.74	-11.46	10.42	.626	16.17	10.70	35.50
865	.40	4.28	3.53	6.39	-.036	7.09	3.90	10.98
866	4.90	3.47	2.40	3.94	-.196	6.85	2.76	10.97
867	-5.09	6.34	-3.08	5.19	-.571	8.54	4.83	15.58
868	-7.04	4.21	-.85	2.36	.127	7.47	4.10	12.62
869	1.48	2.33	1.36	1.31	-.663	2.98	1.23	4.77
870	1.54	1.81	.32	1.48	.653	2.33	1.42	4.63
871	-2.69	1.87	3.26	2.82	-.275	4.61	2.74	8.10
872	-3.54	2.85	4.94	2.32	-.446	6.47	2.80	9.66
873	-1.94	5.43	2.64	1.97	.043	5.47	3.31	11.35
874	-.04	2.78	-.17	5.10	-.331	4.93	2.31	8.17
875	-2.94	2.21	-.82	2.43	-.441	4.05	1.57	6.82
876	-.94	5.37	-2.91	3.48	-.516	6.40	2.03	9.23
877	-2.68	1.32	-1.39	4.02	.439	4.64	1.83	6.71
878	1.10	3.09	-2.27	4.31	.178	4.62	3.27	10.71
879	3.36	7.08	6.98	4.09	.876	9.92	4.71	14.02
880	7.71	2.68	1.54	1.32	.628	7.93	2.77	12.04

MEAN DU(M/S)= -.13
MEAN DV(M/S)= -.06
SD DU(M/S)= 5.96
SD DV(M/S)= 6.89
R(DU,DV)= .12
MEAN W(M/S)= 7.12
SD W(M/S)= 5.68
SD MEAN(M/S)= 4.08
MEAN MAXW(M/S)=12.58
SD MAXW(M/S) 7.07

SANTA MONICA 6HR WIND CHANGE 9-16 KM WINTER

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.60	1.51	4.52	4.89	.535	5.68	3.61	12.02
2	2.96	3.67	4.19	4.37	.502	6.10	4.47	12.92
3	-.26	2.06	2.96	1.78	.420	3.61	1.61	6.20
4	4.38	3.03	.61	1.88	.385	4.78	2.98	10.00
5	1.36	4.10	-3.11	3.26	.435	5.67	1.97	8.08
6	-2.01	2.87	-1.45	2.32	.960	3.76	2.12	8.00
7	-4.36	3.62	3.02	2.11	-.636	5.57	3.77	11.19
8	-3.49	3.09	.56	2.93	.068	4.96	2.06	8.04
9	4.59	4.08	-2.58	2.41	-.666	5.67	4.18	15.33
10	-5.69	3.81	2.44	3.36	-.329	6.89	3.92	15.17
11	2.28	5.04	.09	6.69	-.050	7.67	3.00	11.28
12	-3.40	5.61	2.52	3.06	-.215	6.37	3.87	11.24
13	8.84	10.67	2.85	8.12	.619	13.01	9.22	27.23
14	-2.37	9.58	-12.51	21.70	.937	20.34	16.59	46.16
15	-1.31	3.38	-2.25	1.87	-.089	3.87	2.37	6.88
16	-9.43	7.41	-13.72	11.12	.923	16.82	13.12	42.30
17	-8.08	5.81	-1.05	14.04	-.663	14.16	8.81	31.09
18	-.69	4.25	-12.32	17.41	-.408	17.17	12.59	36.59
19	4.11	4.26	7.81	7.54	-.586	11.19	4.56	18.12
20	5.17	7.72	-3.78	4.41	-.242	8.28	6.89	21.11
21	-2.78	7.23	1.66	11.07	-.197	12.14	4.27	18.75
22	10.16	6.06	12.57	12.45	.202	17.88	11.17	34.35
23	-2.33	9.02	-2.39	5.20	.320	9.10	5.16	19.00
24	13.82	14.21	-13.32	9.94	-.826	22.30	12.39	41.55
25	-.52	6.91	.90	10.04	.398	10.25	5.44	19.60
26	4.50	9.96	-10.53	12.75	.759	16.78	9.49	29.25
27	4.09	2.91	5.44	5.89	-.560	8.15	4.49	17.86
28	-5.39	4.28	-6.19	5.46	.639	8.64	6.31	19.37
29	5.49	8.33	-2.81	6.88	.132	8.20	9.13	24.00
30	1.85	4.00	.10	3.50	-.150	4.71	2.62	7.15
31	-1.76	5.65	1.85	13.59	.737	12.81	6.04	24.91
32	2.37	4.86	-2.15	5.06	.604	6.49	3.57	12.00
33	-1.05	3.82	-4.18	5.03	.058	6.49	3.62	12.88
34	4.65	6.11	-9.99	9.55	.701	13.09	8.45	29.03
35	.43	5.12	3.13	3.23	.018	5.68	3.35	10.44
36	2.84	2.64	2.70	3.92	-.721	5.43	2.50	10.71
37	7.75	5.69	2.59	4.57	.156	9.45	5.24	18.00
38	-1.03	8.99	-1.49	5.12	.335	8.92	4.47	15.24
39	-3.50	3.89	.99	5.91	.394	6.97	3.11	10.75
40	-1.43	3.39	3.84	5.31	-.434	5.78	4.56	13.68
41	6.72	5.40	2.39	4.32	.615	8.33	5.16	16.83
42	5.28	2.25	2.35	4.04	.784	6.60	3.13	12.97
43	-1.34	4.46	2.00	1.20	.233	4.45	2.30	7.60
44	-4.06	1.04	-.34	4.08	-.748	5.31	2.11	9.79
45	-3.61	2.82	-.18	2.54	-.432	4.82	1.69	7.07
46	.02	1.39	-.11	1.60	-.408	1.86	.77	3.35
47	.53	1.58	-3.93	2.49	-.406	4.29	2.37	7.07
48	-1.66	4.01	-.95	3.41	.969	4.46	3.02	9.47
49	6.44	8.38	.41	2.92	.419	7.65	7.71	24.27
50	-4.14	2.79	-2.26	3.18	-.194	5.79	2.26	8.84
51	6.84	4.88	-3.60	4.55	-.195	9.40	3.42	13.94
52	-5.68	6.58	-3.25	3.09	.820	7.88	5.57	17.52
53	-6.57	7.09	7.04	4.33	.052	10.82	6.41	20.78
54	1.71	6.45	1.77	10.44	-.220	10.36	5.90	18.48
55	-2.21	6.38	4.25	5.22	-.389	8.47	3.49	15.56
56	5.41	7.15	-.65	4.62	-.847	7.58	6.39	17.30
57	3.61	3.88	8.17	5.22	-.190	10.06	4.23	17.06
58	1.19	5.17	3.09	5.95	.501	7.10	4.12	15.34

SANTA MONICA 6HR WIND CHANGE 9-16 KM WINTER

59	-.96	6.71	7.77	3.42	-.482	10.23	2.68	14.14
60	2.99	3.96	9.29	7.80	.726	10.37	7.91	19.95
61	-.51	3.52	.75	5.18	-.500	5.22	3.00	11.29
62	1.43	3.89	.89	4.87	-.463	5.46	2.84	10.09
63	-.08	4.67	-3.76	4.47	-.563	5.84	4.35	13.49
64	-.04	1.62	-1.98	1.82	-.473	2.66	1.52	4.24
65	1.38	1.97	7.10	5.17	-.365	8.24	3.58	13.78
66	3.79	6.07	7.39	5.72	.514	10.08	5.68	16.43
67	-1.10	5.10	-2.96	8.45	-.766	7.65	6.42	19.04
68	-2.25	2.96	5.23	5.12	.463	7.41	3.03	12.04
69	1.16	2.56	13.58	8.16	-.394	14.05	7.73	22.92
70	-1.43	4.13	6.43	2.52	.759	7.73	2.19	11.41
71	-14.27	10.31	3.22	10.57	-.441	17.67	10.27	36.67
72	-2.92	5.95	-7.19	8.82	-.577	10.61	7.30	23.07
73	4.82	2.30	1.05	4.56	.338	6.45	2.53	9.81
74	5.10	2.18	1.13	5.56	.814	7.06	3.14	12.21
75	2.32	4.28	1.41	4.29	.228	5.66	2.93	9.58
76	2.75	3.38	.07	5.46	.565	5.04	4.57	14.44
77	-2.51	3.43	3.37	4.42	.296	6.17	2.83	10.19
78	1.63	3.32	2.16	3.82	.293	4.51	3.28	9.04
79	1.60	3.72	1.94	2.25	.831	4.36	2.12	7.22
80	-.72	3.25	3.43	2.76	.052	4.90	2.20	8.32
81	-.24	4.24	3.22	3.31	.103	5.34	2.87	8.16
82	-2.16	4.91	8.16	8.57	-.748	10.26	7.66	23.99
83	-2.31	3.63	8.62	2.76	-.094	9.46	3.11	14.17
84	2.05	2.05	3.74	5.23	.165	5.59	4.07	12.78
85	.22	3.72	4.41	4.98	-.149	6.41	3.73	11.62
86	4.77	4.16	2.91	5.29	.765	7.08	4.86	14.94
87	1.13	2.01	2.10	2.60	-.165	3.25	2.28	7.84
88	3.06	2.50	-.11	1.53	-.364	3.71	1.88	6.85
89	5.51	8.74	-8.38	9.86	-.377	12.80	10.08	30.85
90	-9.92	9.27	-2.19	5.28	-.061	12.24	7.79	23.00
91	-2.36	5.07	6.27	5.00	-.289	8.02	5.33	14.16
92	-.33	6.62	-16.29	11.01	.349	17.77	10.36	32.33
93	3.47	2.72	6.24	4.25	.119	7.63	4.15	13.86
94	8.98	6.07	5.35	9.82	-.382	13.42	7.24	26.69
95	1.99	4.48	4.44	5.14	.845	7.10	3.99	12.61
96	3.07	4.11	3.21	3.21	.233	5.95	3.04	10.61
97	-.08	4.07	-8.15	8.01	.327	8.79	8.27	22.77
98	-.07	4.29	5.98	4.92	-.069	7.03	5.19	14.55
99	-5.31	4.24	1.33	1.27	-.822	5.51	4.38	12.00
100	-3.93	2.48	2.70	2.21	.307	5.53	1.48	8.45
101	1.65	6.03	3.77	5.63	.345	7.45	4.90	17.22
102	-6.85	10.59	-2.69	6.84	.842	9.50	10.86	29.73
103	.69	5.48	.90	6.34	.536	7.12	3.72	12.00
104	10.61	6.31	7.41	5.67	.445	13.67	7.06	22.60
105	-1.44	4.22	3.36	1.89	.832	5.38	1.90	8.69
106	1.11	2.28	3.56	2.11	.849	4.46	1.68	6.76
107	-2.59	5.70	-4.17	2.75	.062	6.62	4.19	15.38
108	-7.67	7.95	-23.54	26.71	.981	25.19	27.43	73.22
109	5.91	4.37	-5.07	5.48	-.162	8.78	5.49	17.19
110	7.19	4.48	4.85	8.34	.808	11.19	5.69	19.75
111	-4.95	2.65	-11.62	7.76	.653	12.92	7.67	23.84
112	2.27	3.36	-6.90	3.98	-.939	7.70	4.44	14.00
113	-1.08	3.55	1.50	3.49	.564	4.77	1.63	6.87
114	5.11	4.39	-4.86	4.38	-.465	7.86	4.97	15.58
115	3.94	4.53	1.91	5.19	.899	6.60	4.42	16.18
116	-.28	2.01	4.48	3.80	.739	5.65	2.24	8.70
117	1.38	9.52	4.46	8.56	-.494	11.50	6.13	22.48
118	1.01	7.60	5.63	4.52	.379	9.29	4.13	15.82

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119	11.43	5.81	-7.47	12.28	-.702	16.00	10.26	32.08
120	-.38	10.66	6.32	9.68	-.836	12.88	7.97	26.24
121	-3.04	3.92	1.49	8.09	.134	8.86	2.04	10.70
122	3.70	5.45	2.37	5.91	-.464	7.54	4.66	14.08
123	4.28	7.86	-8.20	8.75	-.601	11.66	8.99	23.49
124	1.78	6.07	2.91	4.86	-.176	7.68	2.50	11.22
125	-3.73	3.64	-.49	5.03	.711	6.27	3.13	10.99
126	-3.94	6.18	-.51	2.69	.239	6.11	4.58	15.84
127	-3.91	3.49	-2.46	2.99	.116	5.35	3.58	11.58
128	-3.56	4.24	-5.80	4.35	.733	7.21	5.50	17.87
129	-.67	3.11	8.81	4.18	-.740	9.28	4.24	15.05
130	1.93	3.99	2.78	2.78	-.253	4.91	3.04	11.12
131	-2.82	6.47	-4.92	5.08	.148	8.98	3.50	12.46
132	2.07	5.57	-1.32	4.82	-.840	6.51	3.56	13.93
133	1.97	1.71	3.82	1.55	.423	4.52	1.77	7.02
134	3.28	2.99	1.88	3.19	.114	5.33	1.74	8.07
135	-.84	4.79	.58	3.15	-.049	5.25	1.61	7.04
136	-3.53	4.27	-1.61	3.02	.425	5.63	2.88	11.04
137	.45	2.74	2.62	5.71	-.003	5.72	3.28	11.34
138	4.32	3.88	3.93	2.06	.540	6.08	4.00	14.04
139	-1.49	3.03	.02	3.51	-.209	4.28	1.76	6.20
140	-2.19	4.83	-1.73	2.67	-.405	5.53	2.12	8.05
141	-.93	2.65	1.64	5.59	-.447	4.87	3.90	12.01
142	1.67	3.92	-5.51	1.62	.354	6.69	2.18	10.00
143	1.40	4.86	6.08	6.79	.454	8.68	5.30	17.79
144	-.18	3.86	7.33	4.86	-.476	8.48	4.23	12.96
145	5.80	5.17	-3.24	7.09	.381	9.39	5.18	18.47
146	3.87	6.90	-1.17	3.53	-.732	6.27	5.82	19.14
147	-.53	3.34	-3.44	3.97	.425	5.34	2.85	11.02
148	-5.68	3.93	-9.21	3.47	.028	11.32	3.89	16.37
149	-6.27	4.22	-4.24	5.86	.852	8.39	6.08	17.79
150	4.85	5.80	.54	5.00	.675	7.75	4.16	13.21
151	-3.31	3.12	-1.80	4.07	.145	5.58	2.64	8.31
152	-.05	2.13	1.59	3.78	.735	4.19	1.29	6.35
153	1.90	4.77	-2.86	6.61	.211	7.41	4.14	15.91
154	3.68	3.46	.04	3.16	.190	5.04	2.90	9.75
155	.42	2.31	-1.20	3.25	.162	3.23	2.42	7.31
156	-1.63	4.22	-1.71	2.91	.822	4.56	2.99	9.75
157	8.84	5.04	-4.30	5.12	-.191	10.88	5.16	19.40
158	4.63	7.66	-3.89	5.11	.102	9.61	4.58	20.08
159	7.10	4.51	1.08	1.05	-.255	7.33	4.35	14.35
160	6.64	7.31	-1.64	2.92	-.497	7.79	6.80	18.09
161	.88	3.15	-10.57	6.82	-.322	11.45	5.93	19.40
162	3.74	2.73	2.34	5.19	.621	5.68	4.45	14.01
163	-.63	2.60	5.09	2.42	.574	5.65	2.50	10.76
164	-3.92	10.18	6.69	2.85	.353	12.12	3.55	17.55
165	-6.98	3.70	3.27	6.31	.179	9.74	3.61	16.02
166	-.91	4.18	3.50	4.40	.590	6.51	1.84	9.35
167	7.81	5.78	-5.80	7.19	.071	11.08	7.28	22.11
168	8.82	4.66	4.28	6.48	.395	11.36	5.10	18.38
169	-2.27	4.85	-.85	2.63	.490	4.97	2.98	11.37
170	-2.97	3.93	-7.53	3.20	.646	8.49	4.27	15.61
171	1.26	2.58	-1.91	3.01	.402	3.99	1.86	6.19
172	.29	3.21	4.23	4.92	-.538	6.10	3.55	12.02
173	-14.25	14.47	-4.56	3.69	.751	16.05	13.58	36.41
174	2.14	4.17	-15.42	12.32	-.644	16.03	12.35	34.08
175	-1.36	4.01	-.37	3.64	-.160	4.77	2.36	8.32
176	-1.92	3.39	1.31	3.40	.232	4.45	2.56	7.82
177	-4.27	2.89	.97	3.89	.179	5.77	2.72	9.36
178	.04	4.13	.34	5.39	.583	5.51	3.41	11.02

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179	2.70	3.76	-.43	3.76	-.409	4.75	3.33	9.91
180	4.64	5.51	-3.29	2.66	-.454	7.09	4.11	14.35
181	-8.48	9.32	-.85	4.29	.741	10.30	8.19	22.24
182	1.83	5.61	-7.86	6.00	-.870	9.49	6.24	18.13
183	3.53	2.78	4.22	3.70	.572	6.14	3.60	11.90
184	4.23	2.71	-1.00	3.69	.152	5.49	2.85	9.20
185	-15.46	14.15	-6.88	4.79	.931	17.10	14.71	39.33
186	-3.34	1.56	-3.93	2.66	.762	5.26	2.87	10.28
187	-1.53	6.63	4.55	5.21	-.098	8.68	3.37	13.75
188	-2.28	4.84	.84	2.31	-.419	4.48	3.55	10.08
189	1.26	2.29	-2.77	3.28	.491	4.47	1.96	6.37
190	2.27	2.78	-1.14	2.07	.507	3.92	1.35	5.85
191	1.16	4.97	-5.15	5.74	.816	7.70	4.66	16.65
192	-4.04	3.03	5.40	3.60	.540	7.88	1.80	10.23
193	2.07	4.24	7.13	4.73	.732	8.53	4.51	15.42
194	3.71	5.39	4.18	2.81	.314	6.63	4.74	16.31
195	-2.68	5.87	4.88	8.36	-.763	9.75	5.59	17.38
196	.96	3.34	4.29	5.89	-.234	7.19	2.99	12.18
197	3.31	2.19	3.39	4.17	.383	5.66	3.34	11.68
198	3.08	5.27	-.73	3.47	-.080	6.04	3.09	12.60
199	1.10	7.69	-.56	3.49	.029	7.64	2.53	11.50
200	-9.38	10.78	-5.49	6.71	.890	12.44	10.92	27.92
201	1.17	6.37	.24	4.78	-.141	6.93	3.18	10.61
202	-1.77	5.38	-.63	5.54	.041	6.32	4.25	14.39
203	-1.33	3.98	-2.12	2.01	-.620	4.05	2.89	9.78
204	4.24	2.82	-8.90	6.05	.616	10.59	5.24	20.41
205	2.87	7.99	3.02	3.27	-.208	8.39	3.73	14.58
206	-3.46	5.72	-2.11	5.18	-.077	7.14	4.47	14.73
207	-7.82	5.33	-5.32	12.35	.594	13.44	8.76	31.16
208	-1.57	6.18	1.72	7.38	- 683	8.09	4.91	17.53
209	-7.03	3.89	-.37	5.34	.036	8.68	3.75	12.44
210	-5.18	1.95	-1.80	4.74	.210	6.88	2.57	11.24
211	3.36	2.37	6.86	4.23	.410	8.06	3.98	14.04
212	.77	4.00	3.28	3.62	-.110	5.63	2.40	8.09
213	4.14	5.75	-1.21	5.09	-.474	7.58	3.83	13.02
214	4.43	6.15	-1.77	3.42	.688	7.40	3.60	12.17
215	-1.69	3.69	1.04	6.28	.523	6.55	2.90	12.09
216	4.90	2.15	7.81	2.38	-.137	9.48	2.17	12.22
217	3.01	2.93	-3.97	5.72	.091	6.76	4.16	13.39
218	3.72	4.24	5.94	3.99	-.120	8.38	3.13	12.90
219	2.77	2.83	2.23	2.89	-.192	4.45	2.86	8.05
220	.28	2.24	.05	3.82	.231	3.57	2.25	6.54
221	-1.93	4.99	4.04	5.27	.631	7.59	3.13	12.62
222	-5.41	6.06	-5.65	4.74	.656	9.41	5.29	17.91
223	9.55	4.92	7.99	5.20	-.242	13.33	5.05	19.31
224	4.80	12.83	9.54	5.11	.772	14.94	8.11	29.00
225	3.46	6.58	4.03	4.00	.582	7.80	4.69	14.15
226	5.44	8.57	2.86	1.72	.308	8.87	5.45	16.51
227	-4.43	3.98	.48	5.04	-.761	6.28	4.36	12.41
228	4.16	1.87	2.27	2.77	.497	5.17	2.52	8.90
229	2.01	2.66	.81	1.75	-.126	3.39	1.55	6.23
230	.79	1.78	-.72	2.89	.322	2.87	1.84	5.11
231	4.01	3.47	2.29	4.34	-.428	6.29	3.16	10.75
232	3.11	3.52	2.42	4.57	.850	5.57	3.96	13.52
233	3.68	1.76	6.78	4.35	.045	8.29	3.40	11.54
234	2.77	2.60	2.91	1.64	.089	4.73	1.56	7.30
235	2.03	6.01	-2.02	3.27	-.584	4.74	5.53	14.04
236	2.66	3.07	3.84	4.04	.456	5.20	4.45	10.96
237	2.06	5.19	6.14	1.92	-.425	8.12	1.78	12.00
238	-1.38	4.89	-4.15	2.25	-.685	6.38	2.06	10.00

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239	-10.61	5.76	-.95	6.79	.420	12.61	5.23	18.38
240	6.66	3.97	2.94	3.28	.432	7.71	4.38	14.66
241	-2.53	4.06	1.52	3.28	.215	4.75	3.37	10.00
242	-2.01	3.90	1.13	3.20	.635	4.94	1.89	7.72
243	2.81	4.36	.80	2.38	.057	5.10	2.16	8.28
244	4.45	6.59	2.80	5.30	.207	7.87	5.69	18.14
245	-5.75	8.45	-8.34	7.51	.782	12.85	7.51	23.59
246	-.71	10.26	-3.14	5.95	.772	10.28	5.64	18.32
247	-.76	7.95	4.34	6.95	-.482	9.35	5.81	19.13
248	1.24	9.32	-7.10	9.25	-.871	11.17	9.45	31.06
249	-3.11	5.31	-3.16	4.52	.888	6.26	5.13	13.00
250	-1.14	2.35	-2.52	2.22	-.725	3.58	2.14	7.67
251	-1.59	4.86	2.80	5.20	-.793	4.81	6.01	19.26
252	1.91	4.04	-3.09	4.22	-.460	5.68	3.51	13.70
253	-3.12	3.24	1.47	4.54	-.669	5.76	2.59	9.66
254	-2.35	4.57	-2.25	5.24	-.314	6.70	3.02	10.04
255	.61	1.96	.77	2.21	-.377	2.67	1.28	5.18
256	.53	2.67	-2.67	3.35	-.430	4.08	2.80	10.21
257	3.41	3.30	-1.42	2.13	-.446	4.14	3.37	8.59
258	.43	5.12	5.87	4.68	-.920	8.11	3.53	12.88
259	.11	3.20	-1.65	6.49	.231	5.45	4.65	15.44
260	1.03	4.39	-1.74	4.07	.467	5.27	2.95	9.39
261	5.36	6.21	3.27	8.70	.862	8.59	8.65	27.28
262	5.79	2.36	3.34	10.14	.421	9.00	8.18	28.34
263	.88	2.98	5.34	4.45	.060	6.32	4.07	12.64
264	2.76	6.70	.31	3.34	.046	6.73	3.61	12.05
265	-7.28	7.04	.49	5.80	.740	9.54	6.32	18.77
266	.83	5.48	7.32	4.12	.464	8.89	4.31	14.99
267	-4.28	5.48	2.78	7.20	-.609	8.18	5.92	17.97
268	-4.12	5.59	-3.08	3.94	.048	7.53	3.48	12.38
269	-1.62	4.59	6.84	5.42	-.128	8.27	5.36	17.54
270	1.52	6.42	3.08	4.67	-.437	6.61	5.16	13.45
271	-2.87	5.47	-4.23	2.41	.524	6.48	4.19	13.24
272	2.11	2.28	-14.45	7.11	.053	14.78	7.05	26.20
273	.09	4.75	3.95	4.23	.218	6.72	2.57	10.43
274	-1.06	3.71	3.20	3.44	-.319	5.21	2.76	8.47
275	-1.93	3.85	.53	5.49	-.116	6.00	2.89	11.14
276	.92	3.42	4.36	5.91	.079	6.77	4.10	14.97
277	-4.12	3.47	-3.16	3.26	.823	6.14	3.23	9.53
278	-3.60	2.41	-5.60	2.70	-.633	7.33	1.54	9.61
279	-.54	6.78	3.93	5.98	-.646	8.24	4.71	16.12
280	-2.03	4.11	.62	8.47	.218	8.56	3.18	12.09
281	-2.22	6.37	2.40	4.79	-.629	7.79	2.52	10.09
282	2.05	5.94	2.86	3.10	.202	6.49	3.31	14.02
283	5.23	6.13	-.98	8.30	-.303	9.27	6.38	20.58
284	7.64	9.22	-4.20	4.70	-.729	9.80	9.18	29.62
285	-4.52	1.37	4.07	5.86	-.070	7.46	3.85	15.37
286	-5.14	3.59	1.73	9.68	-.387	10.36	4.20	15.33
287	-.31	4.55	3.76	6.71	-.176	6.77	5.44	17.81
288	-2.04	4.56	7.25	4.91	-.074	8.77	4.67	17.02
289	.47	7.25	3.91	3.31	-.254	6.84	5.26	15.94
290	2.66	3.89	5.26	4.01	.487	6.56	4.66	14.49
291	.00	3.71	.42	1.21	.115	3.45	1.35	6.07
292	4.70	3.05	2.41	1.50	.405	5.56	2.85	9.04
293	-2.28	2.09	-9.96	8.30	.183	10.89	7.53	22.20
294	6.70	5.93	-10.42	15.97	-.496	16.85	11.88	39.60
295	-1.83	6.28	.64	4.81	-.079	6.64	4.05	14.32
296	3.97	4.34	3.01	5.41	.504	6.98	4.55	16.40
297	5.58	6.10	-7.23	7.62	-.797	9.88	8.89	22.74
298	2.66	3.06	-2.21	5.64	.569	6.46	2.68	11.32

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299	5.09	5.09	2.76	2.53	.735	6.95	3.94	10.47
300	1.47	4.44	2.58	3.57	.647	4.91	3.88	11.99
301	-13.54	5.36	-9.62	4.27	.491	16.90	5.99	24.00
302	-3.99	3.41	-3.58	6.58	.270	7.83	4.21	16.82
303	-7.81	2.93	-11.92	8.38	.627	14.67	8.06	31.34
304	4.35	2.74	-7.68	7.32	.038	10.17	5.65	21.04
305	-3.24	1.70	-1.38	4.75	.167	5.63	1.84	8.52
306	2.56	2.41	.11	5.12	.229	5.21	2.90	9.38
307	-1.20	3.45	.34	2.60	-.271	3.89	1.76	7.27
308	1.01	4.07	.77	3.22	.330	4.74	1.76	7.03
309	2.99	2.88	5.90	7.13	-.181	8.69	4.78	16.92
310	-5.41	4.19	3.68	4.66	-.182	7.75	4.41	17.13
311	-5.01	4.12	.06	5.33	.063	7.36	3.50	12.42
312	-.86	4.64	5.67	5.66	-.482	7.40	5.35	13.78
313	2.24	7.57	3.42	6.90	.343	9.42	4.74	16.02
314	2.64	9.37	-11.87	13.86	.670	17.83	9.26	29.65
315	2.34	2.49	.31	2.97	-.453	3.77	2.26	6.09
316	-2.21	3.48	-1.04	3.20	.055	4.54	2.35	7.47
317	4.32	5.53	3.29	8.50	-.314	9.25	6.22	21.37
318	10.34	4.40	1.92	3.65	-.178	11.15	4.13	15.87
319	-1.48	3.16	4.45	5.29	.344	7.06	2.50	11.00
320	3.85	4.37	6.73	6.93	.858	8.73	6.99	20.16
321	-5.04	5.33	6.92	2.07	-.164	9.35	4.05	17.45
322	8.30	5.68	5.65	3.73	-.028	10.96	4.92	18.71
323	-8.86	6.26	-1.52	4.37	-.746	10.29	5.44	17.66
324	-6.47	6.47	-10.01	9.82	.257	13.86	9.01	31.15
325	-4.01	3.20	1.27	7.02	-.248	7.71	3.44	12.18
326	.40	4.73	1.63	8.51	.049	8.32	4.37	16.16
327	2.72	6.70	-5.11	5.78	-.597	8.95	5.01	16.03
328	5.77	10.36	4.25	4.83	.512	11.58	6.00	19.68
329	-.96	5.20	6.70	11.01	-.807	11.34	7.32	21.00
330	3.85	2.86	-8.18	9.14	.136	11.01	6.82	21.90
331	3.73	6.94	2.92	9.59	-.698	11.22	4.68	17.18
332	3.43	5.59	-2.22	3.79	-.944	6.03	4.81	14.36
333	-4.20	4.13	-2.79	1.91	-.279	6.25	2.25	10.32
334	-8.56	5.21	-13.00	9.03	.567	16.18	9.31	28.11
335	-1.05	2.46	7.89	5.70	-.007	8.92	4.47	16.32
336	1.14	3.61	2.80	5.28	.509	6.52	1.66	9.91
337	-3.25	3.70	4.10	4.14	-.162	6.62	3.46	10.89
338	5.17	4.56	.08	8.84	-.402	9.90	4.18	15.90
339	2.84	3.89	5.84	4.90	-.187	8.03	3.70	14.69
340	4.59	5.67	.06	3.37	-.008	6.44	4.49	15.85
341	-3.62	4.29	-15.30	10.94	.454	16.84	9.83	30.93
342	-3.70	3.98	4.09	6.70	-.766	8.78	2.73	14.48
343	-1.74	3.77	-14.14	11.63	.281	14.86	11.37	35.80
344	8.53	6.21	-5.27	7.03	-.554	10.98	8.07	25.52
345	-4.29	6.13	-2.73	5.72	.748	8.08	5.04	14.62
346	-9.22	5.64	-3.21	2.29	-.125	10.20	5.19	18.05
347	-8.72	6.43	.04	2.46	-.551	9.05	6.36	19.71
348	2.94	2.45	1.74	1.93	.023	4.12	1.90	7.49
349	-2.25	2.51	2.48	5.32	-.261	6.00	2.52	11.08
350	4.23	1.81	5.06	4.56	.795	7.08	4.06	12.79
351	-1.73	2.38	-12.79	9.35	-.479	13.80	8.10	25.24
352	-1.43	4.01	-.92	8.43	.005	7.93	4.31	14.00
353	-2.40	2.14	.12	1.28	-.001	2.82	1.92	5.47
354	.74	1.48	-.15	2.16	.362	2.40	.96	4.08
355	4.20	1.89	-3.36	3.78	-.706	6.02	3.07	10.96
356	-2.47	2.59	-.97	4.72	.664	5.15	2.60	9.12
357	3.52	6.32	8.91	9.50	.178	12.32	7.84	24.24
358	5.07	5.43	2.90	6.75	.278	9.10	4.39	14.06

SANTA MONICA 6HR WIND CHANGE 9-16 KM WINTER

359	-1.29	4.27	6.00	2.58	.716	7.48	2.01	10.49
360	.01	4.93	6.16	8.80	.819	9.46	6.56	23.68
361	9.73	4.60	.12	6.93	-.052	12.02	3.50	16.83
362	-5.56	12.59	2.60	7.21	.763	13.48	6.78	25.35
363	3.49	2.77	-1.07	3.71	-.323	5.25	2.26	8.51
364	1.01	5.39	-.52	2.12	-.204	4.97	2.61	8.02
365	.46	7.10	-6.02	2.85	-.896	8.29	4.65	19.52
366	-2.79	9.72	-4.92	5.53	-.078	9.73	7.30	24.99
367	2.92	4.29	6.23	4.91	.284	8.58	3.54	13.58
368	-3.89	9.09	6.60	5.60	.420	12.01	4.03	17.61
369	-4.05	1.14	-3.84	1.72	.628	5.66	1.78	7.61
370	-4.27	5.26	-2.96	2.19	.813	6.03	4.67	15.18
371	-.43	6.52	-.01	5.24	.544	6.88	4.01	13.05
372	1.21	2.75	2.24	3.95	-.725	4.58	2.55	8.28
373	-6.56	4.76	-1.13	1.42	.439	7.26	3.89	13.10
374	1.73	4.93	-6.27	1.53	-.893	7.83	2.23	11.61
375	6.39	3.55	-3.06	1.78	-.243	7.54	2.88	11.47
376	-1.32	4.70	-4.89	4.84	.049	7.26	3.81	13.74
377	-2.68	2.96	2.75	1.86	-.174	4.69	1.97	7.33
378	-.22	2.47	2.73	2.38	-.552	3.82	1.91	6.86
379	-.72	3.98	-.42	5.73	-.704	5.91	3.10	10.83
380	2.24	4.18	1.70	2.16	-.052	4.87	1.99	7.48
381	1.35	3.12	-11.33	8.82	-.350	11.81	8.78	25.96
382	3.71	6.24	-.64	5.21	-.277	7.66	3.91	14.12
383	-3.23	6.25	4.66	6.16	-.686	8.60	5.41	18.34
384	3.33	7.06	2.56	8.07	-.870	9.82	4.99	20.00
385	1.73	2.45	.11	3.75	.232	4.15	1.95	6.49
386	1.89	5.51	-5.96	6.69	-.729	8.65	5.85	17.71
387	-6.26	3.70	-4.62	1.97	.062	8.29	2.86	12.78
388	-1.73	2.54	-.65	4.89	.208	5.27	1.57	7.08
389	-1.14	2.54	-8.32	8.50	.196	9.52	7.47	21.25
390	5.34	1.84	8.21	8.34	-.290	11.70	5.11	18.02
391	.63	4.71	-3.20	7.72	.482	8.66	2.87	12.96
392	-6.36	3.33	-1.81	3.71	-.532	7.50	3.24	11.05
393	4.19	8.41	-1.67	2.53	.582	7.88	5.44	16.64
394	9.20	7.25	-.27	5.67	.453	11.03	6.51	18.82
395	7.67	4.83	4.21	3.60	.364	9.27	5.05	15.29
396	-7.60	11.01	-10.96	9.39	.730	16.39	10.28	28.22
397	-.85	2.58	-.50	2.55	.356	3.35	1.21	5.07
398	1.40	6.29	-1.27	3.59	.353	6.42	3.08	11.20
399	2.35	4.52	4.80	5.93	.691	6.67	6.12	19.60
400	3.24	2.59	2.24	3.19	.538	4.78	2.93	8.42
401	-7.08	8.07	-2.65	8.44	-.341	12.23	5.54	20.75
402	-9.43	9.26	-.68	7.36	-.196	12.78	7.44	24.64
403	-5.48	5.88	-1.16	3.21	-.212	7.08	4.84	16.01
404	1.28	4.05	-.08	4.14	.491	4.75	3.10	9.26
405	5.77	4.46	-2.56	3.34	-.272	7.48	3.54	14.07
406	-1.60	4.81	-8.74	8.21	-.346	11.11	6.31	21.86
407	-5.84	6.16	-7.26	5.84	.679	10.19	7.26	19.49
408	-6.08	2.72	-4.43	3.46	.496	7.81	3.79	13.19
409	-11.38	7.97	-4.64	9.12	.819	13.60	10.39	34.34
410	-4.25	4.73	-3.29	4.43	.660	6.82	4.66	14.83
411	1.96	4.08	-1.89	1.60	.532	4.29	2.59	9.47
412	6.12	3.83	-1.65	1.64	-.042	6.67	3.53	12.08
413	-3.90	2.50	.45	1.82	.135	4.40	2.24	8.03
414	-.65	3.77	.49	2.67	-.203	3.96	2.05	6.77
415	6.44	4.35	-.65	5.72	.324	8.57	3.95	13.55
416	-.17	2.14	3.09	1.24	.332	3.61	1.48	6.09
417	-3.18	4.48	2.71	5.83	.446	7.15	3.95	13.12
418	1.54	3.94	.59	3.92	-.327	5.33	1.21	7.02

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419	3.13	4.48	-3.78	4.89	-.109	7.04	3.86	11.46
420	-3.83	4.53	-4.63	4.26	.053	7.89	2.95	13.58
421	-5.73	9.54	-4.46	5.74	.038	9.37	9.15	25.93
422	-10.60	8.97	-8.95	7.38	.947	13.99	11.45	32.21
423	4.33	2.85	1.39	2.45	-.441	5.12	2.79	9.26
424	1.90	5.15	.41	4.90	-.700	6.56	2.39	9.53
425	4.90	6.19	1.02	1.01	.967	6.26	4.83	15.00
426	-8.26	5.53	-6.03	8.80	-.088	12.47	7.06	24.55
427	.83	3.76	3.88	6.28	-.669	7.02	3.91	13.69
428	-1.17	2.88	1.95	1.88	-.534	3.73	1.36	5.58
429	5.29	4.06	3.35	4.40	.838	7.69	3.60	13.13
430	3.46	3.32	4.75	2.20	.057	6.54	2.56	9.26
431	2.80	2.12	-.75	1.95	-.036	3.44	2.09	7.89
432	2.77	3.00	-.22	4.70	.880	4.85	3.61	12.15
433	6.97	8.39	1.82	2.02	-.687	8.30	7.41	23.00
434	.89	6.87	7.64	2.83	-.473	9.55	4.32	16.63
435	-2.72	5.14	-8.03	2.88	.091	9.69	3.07	13.84
436	-1.84	8.36	-3.26	6.84	.251	10.05	4.17	16.06
437	-.62	2.44	.75	6.11	.652	5.46	3.22	10.22
438	.45	3.81	3.41	4.90	-.850	6.39	2.33	9.22
439	2.64	2.09	2.83	3.56	.342	4.58	3.19	9.71
440	5.79	4.42	-3.65	4.58	-.617	7.69	5.16	15.11
441	5.31	6.02	-1.92	3.72	.730	7.47	4.76	18.00
442	1.51	7.60	-2.37	4.33	.083	7.69	4.24	15.00
443	-2.70	3.28	2.96	1.99	.247	5.09	1.85	9.08
444	2.90	3.02	-1.24	1.22	.025	3.65	2.59	8.44
445	1.82	3.97	2.67	5.40	.690	5.20	5.09	14.63
446	-3.72	5.51	-3.38	4.40	.057	6.58	5.39	15.36
447	.20	3.47	-4.39	6.13	-.112	6.93	4.10	12.52
448	.48	2.84	-4.25	3.21	.594	5.27	2.75	8.93
449	4.06	2.89	4.08	8.77	.580	7.85	7.26	20.38
450	-1.79	3.40	-2.13	3.27	-.440	4.65	2.54	8.01
451	-.47	2.89	1.71	4.68	.310	5.12	1.97	7.96
452	.41	3.38	.57	2.24	-.422	3.25	2.21	7.62
453	-3.29	2.89	8.03	3.83	.624	9.47	2.59	13.64
454	.78	4.56	.31	6.59	.220	7.21	2.33	10.57
455	3.30	2.48	3.12	3.68	-.573	5.85	2.05	8.86
456	1.26	2.98	5.23	3.92	-.475	6.75	2.28	9.44
457	-2.47	3.49	6.55	6.01	.677	8.86	3.82	15.58
458	.33	1.77	3.82	4.69	-.355	5.49	2.74	8.85
459	-3.46	3.12	6.97	5.29	.543	9.23	3.07	12.73
460	.65	7.12	-4.82	9.32	.128	11.27	4.38	18.22
461	-.23	2.38	6.83	5.78	.705	7.23	5.72	16.17
462	-3.78	3.36	-2.83	2.53	-.540	5.87	1.95	9.07
463	3.78	3.42	3.58	3.83	-.535	6.80	2.14	9.59
464	4.37	5.96	3.26	4.94	.250	8.58	3.13	14.28
465	-1.82	5.01	-1.36	4.68	.055	6.03	3.37	10.15
466	.97	3.45	1.42	5.14	.699	4.99	3.64	11.80
467	3.39	3.90	.43	5.53	-.289	6.51	3.29	10.90
468	-3.50	2.71	1.51	4.07	-.474	5.34	2.82	9.41
469	-2.37	5.88	2.27	2.95	.145	5.92	3.95	12.06
470	-2.85	4.20	2.20	2.73	-.060	4.96	3.43	11.35
471	-.91	4.22	.52	4.64	-.963	4.07	4.65	13.40
472	3.52	3.79	1.18	2.24	-.820	5.01	2.54	9.88
473	-.04	4.04	-4.68	4.75	-.663	6.48	4.00	12.94
474	9.70	7.85	-1.45	5.48	.016	11.09	7.81	27.38
475	-5.98	2.66	3.70	4.21	.764	8.02	2.79	13.45
476	-4.19	3.54	-.95	2.13	-.258	5.30	2.47	8.42
477	5.76	5.09	.90	4.20	.003	7.73	3.76	13.79
478	3.07	4.00	8.41	11.66	-.228	12.08	8.76	24.41

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SANTA MONICA 6HR WIND CHANGE 9-16 KM WINTER

479	3.65	3.54	2.63	3.27	.228	5.80	2.84	8.79
480	.12	2.37	-7.00	6.20	-.014	7.66	5.75	18.29
481	-4.83	5.06	-1.35	2.88	-.098	6.06	4.54	15.16
482	-1.82	4.21	-5.62	6.13	-.330	7.86	4.96	16.99
483	-2.16	1.55	1.22	2.18	-.239	3.09	1.82	6.86
484	-2.62	1.74	.47	1.19	.633	3.00	1.49	5.05
485	.07	3.06	.74	4.43	.186	4.23	3.02	8.02
486	2.69	4.19	1.87	3.27	.338	4.85	3.69	11.90
487	2.10	7.96	3.49	3.23	-.543	8.06	4.32	16.28
488	-4.00	5.17	-1.58	2.71	.125	5.85	4.02	14.56
489	10.44	15.82	-6.01	10.02	-.736	15.88	15.11	37.61
490	-.26	7.47	.73	5.00	-.273	7.70	3.70	14.16
491	-2.86	6.14	3.13	4.05	.843	7.43	3.40	12.17
492	.76	6.86	3.19	2.95	.334	6.84	3.82	12.36
493	3.79	10.84	5.68	6.61	-.403	11.82	7.39	20.62
494	.42	4.94	4.97	6.11	.650	7.34	5.35	17.24
495	-8.32	8.54	7.80	6.84	-.418	13.42	7.89	25.27
496	-4.20	5.14	6.70	1.85	-.419	9.34	1.27	11.34
497	-.94	3.46	3.36	3.00	.159	4.99	2.54	8.14
498	-.51	3.12	-6.16	5.75	.383	7.39	4.90	16.15
499	3.19	4.17	.71	2.51	-.727	4.92	2.87	11.53
500	.37	5.86	2.68	4.30	-.677	7.18	1.50	9.13
501	-2.76	6.19	-2.64	2.53	.365	6.56	3.51	11.32
502	1.41	3.81	.23	5.00	.060	5.63	2.37	8.88
503	-1.40	2.77	-1.22	1.15	.292	2.97	1.69	5.92
504	-2.34	1.90	-1.31	2.75	-.409	3.78	1.75	5.68
505	1.71	3.32	3.04	3.31	.189	4.90	2.90	8.68
506	4.40	3.24	.10	2.29	-.177	4.95	3.14	11.02
507	-6.19	3.59	-3.83	4.88	.499	8.31	4.28	14.32
508	-5.14	5.65	-1.19	4.44	-.657	7.25	4.83	15.00
509	-1.63	2.79	-3.73	4.14	-.784	5.79	2.36	8.60
510	-.69	7.55	-8.09	6.14	.839	10.83	5.99	21.56
511	-4.40	4.78	-.46	4.11	-.473	6.96	2.59	12.18
512	-.50	3.69	-1.03	3.44	-.302	4.36	2.28	8.90
513	-2.79	5.32	4.53	2.26	-.612	7.10	2.86	11.04
514	7.63	2.82	4.33	4.02	.216	9.50	2.99	13.56
515	-4.38	2.36	3.55	3.46	-.001	6.20	3.13	10.80
516	-4.37	3.41	-2.03	4.06	.350	6.05	3.57	12.43
517	-.98	4.72	7.28	9.19	.554	10.12	7.15	21.28
518	-1.12	3.58	-1.33	3.87	.596	4.35	3.12	10.04
519	-5.31	4.77	3.03	3.06	.543	7.38	3.55	12.47
520	2.66	2.60	3.49	2.56	.176	5.29	1.83	8.56
521	4.72	5.69	-2.28	4.00	-.721	6.37	5.77	20.02
522	6.36	4.85	-.13	2.54	-.163	7.19	4.14	12.46
523	-8.88	7.19	-7.10	8.54	.717	13.52	7.97	25.96
524	-5.36	2.95	-4.33	5.46	-.244	8.37	3.57	14.80
525	-6.54	6.26	-4.49	5.90	.771	8.96	7.37	24.15
526	-2.29	5.22	-14.96	5.53	.450	15.90	5.56	23.17
527	-4.67	7.49	-.41	4.85	-.336	8.92	3.71	13.00
528	-7.76	2.85	-4.40	2.21	-.541	9.28	2.34	13.06
529	-3.22	4.51	1.07	3.11	-.340	5.07	3.71	14.06
530	1.32	3.97	3.28	1.64	-.744	5.11	1.71	7.03
531	-4.83	3.84	-.48	4.47	-.701	6.88	2.74	11.91
532	-2.75	4.35	-1.51	2.03	.468	4.63	3.13	10.32
533	-1.58	2.20	2.69	2.61	-.038	3.71	2.66	7.75
534	.55	2.20	.45	2.61	.514	2.85	1.73	6.14
535	9.46	2.22	-.58	2.96	-.140	9.91	2.04	13.01
536	.83	9.44	-2.18	4.94	.844	9.33	4.50	16.06
537	-3.37	2.52	-.95	6.13	.284	6.48	3.17	11.00
538	3.06	2.80	-1.75	2.17	-.223	4.54	1.79	7.65

SANTA MONICA 6HR WIND CHANGE 9-16 KM WINTER

539	-1.29	2.17	-1.20	3.07	.320	3.25	2.36	8.34
540	1.42	2.27	.24	5.08	.558	4.25	3.56	12.22
541	-1.65	1.66	1.70	2.67	-.286	3.59	1.26	5.41
542	.03	1.30	3.71	1.44	-.452	3.94	1.33	6.23
543	1.89	2.82	-4.66	2.87	-.722	5.53	3.19	11.10
544	-.19	5.79	-.35	4.06	-.816	5.24	4.34	14.67
545	-.34	2.63	4.39	3.08	-.674	5.67	1.35	7.69
546	2.77	1.94	3.64	3.48	-.320	5.40	2.52	8.89
547	4.33	4.68	-.14	6.81	-.526	8.09	3.88	15.90
548	-5.18	4.36	-5.54	4.02	-.643	9.09	2.55	12.49
549	4.12	5.73	-5.01	7.01	-.727	8.24	7.23	22.29
550	-2.37	5.57	-9.25	7.80	.685	11.28	7.12	24.30
551	5.69	7.17	4.50	4.27	.564	9.79	4.50	14.55
552	3.50	4.35	5.35	6.20	.362	8.11	5.37	17.53
553	1.10	3.89	-1.57	4.82	.239	5.66	2.45	9.76
554	-1.63	5.73	5.76	9.87	-.479	9.85	7.76	23.00
555	3.46	5.49	7.78	3.64	-.330	10.20	2.74	14.05
556	1.00	7.54	-.51	3.74	-.491	7.23	3.55	14.00
557	1.65	3.29	4.16	3.41	-.532	5.70	2.85	9.43
558	-.12	4.10	1.35	4.88	-.487	5.34	3.18	9.75
559	-2.72	2.96	-7.98	9.35	.392	9.67	8.41	25.83
560	2.96	3.08	-3.18	3.67	-.473	5.33	3.47	12.85
561	-1.46	3.59	1.15	3.91	.355	5.06	1.71	7.01
562	1.68	1.83	5.83	4.03	.149	6.77	3.03	9.58
563	6.11	7.59	-16.23	10.73	-.693	18.61	10.99	37.12
564	-3.00	5.59	3.12	8.79	.006	8.90	6.27	22.78
565	-2.20	6.83	-1.75	5.21	-.373	7.68	3.92	13.41
566	-2.74	5.25	3.88	3.59	-.640	6.97	3.30	13.23
567	-5.96	3.57	.41	3.05	.078	6.48	3.86	11.76
568	1.10	4.88	-1.32	2.77	.124	5.34	1.52	7.48
569	-.43	4.46	-5.52	6.03	-.363	7.74	4.77	12.50
570	-1.04	6.06	-7.37	5.44	-.856	9.44	5.27	18.08
571	-2.87	4.24	-10.83	7.55	.846	11.65	7.97	21.30
572	-.81	2.32	1.52	4.18	-.258	4.27	2.32	8.22
573	.81	6.14	1.24	4.88	-.233	7.03	2.74	12.01
574	-5.81	4.93	-2.03	6.13	-.151	8.62	4.51	15.40
575	.03	3.47	2.81	2.21	.373	4.23	2.35	8.40
576	-3.65	4.51	-7.73	7.83	.854	9.36	8.07	20.46
577	-.03	4.07	-1.07	3.01	-.450	4.54	1.84	8.02
578	4.77	4.67	-2.19	4.86	.017	7.63	3.23	13.24
579	-5.66	3.67	.80	1.86	-.696	6.04	3.55	11.05
580	-12.23	8.80	-2.88	3.67	.814	12.90	9.00	23.65
581	3.80	8.07	-2.57	8.45	.476	11.37	3.57	17.73
582	.53	6.52	-3.00	2.73	.200	6.67	3.11	10.97
583	-15.66	8.58	-3.72	5.06	.846	16.35	9.48	30.13
584	-8.68	9.51	-3.88	8.02	.963	10.84	11.13	35.83
585	-4.15	7.09	-7.15	5.40	.285	10.66	5.25	21.46
586	5.76	5.19	17.16	12.45	.745	19.01	11.97	33.77
587	-.48	3.86	-2.07	3.25	-.318	4.56	2.61	8.31
588	3.57	2.79	-4.06	2.96	-.075	6.00	2.96	9.58
589	-.05	2.97	5.33	5.71	-.610	6.36	5.26	15.08
590	-.62	2.85	3.72	2.45	-.564	4.75	2.16	8.04
591	-2.47	4.16	.89	3.53	.573	5.51	1.73	7.55
592	-1.07	2.96	-2.35	2.88	.503	3.97	2.59	9.27
593	-4.11	6.38	-4.82	4.22	.770	8.01	5.57	17.35
594	-2.62	4.29	-11.40	10.00	.455	12.56	9.72	29.60
595	-5.05	9.53	-4.64	9.85	-.485	13.94	4.42	21.83
596	-6.10	6.64	5.19	9.79	-.412	12.19	6.60	24.26
597	-2.72	3.45	2.63	4.09	-.318	6.01	1.91	8.52
598	-.49	3.17	4.82	3.35	.310	5.79	3.13	11.24

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599	-7.73	6.75	-.68	3.66	.767	8.68	6.46	19.68
600	4.03	11.74	-3.78	4.29	-.298	10.30	8.36	27.34
601	-3.70	3.25	-.92	2.05	-.446	4.70	2.46	8.15
602	3.30	3.22	1.14	2.58	-.018	4.27	3.17	7.94
603	7.85	2.15	.84	2.64	-.610	8.30	2.03	12.91
604	3.84	4.32	.21	4.80	-.209	6.56	3.07	10.64
605	4.84	4.67	-1.97	4.57	-.475	7.16	3.92	13.31
606	-5.20	4.76	-6.83	5.55	-.742	10.65	2.86	15.22
607	-2.39	6.52	16.14	4.35	.063	17.50	3.96	21.89
608	5.98	2.10	-15.33	5.25	-.159	16.64	5.03	23.70
609	-1.22	3.86	-1.21	3.53	.300	4.50	2.75	8.98
610	14.27	11.47	1.10	3.00	.263	14.66	11.35	31.23
611	-8.15	10.28	-10.05	9.38	.865	13.69	13.07	37.41
612	-2.61	4.93	-.63	4.33	.714	6.01	3.15	11.96
613	-3.04	3.70	.25	2.64	.825	4.62	2.61	8.04
614	.67	2.69	1.88	3.03	.368	3.59	2.49	8.12
615	-6.41	5.80	-2.06	2.31	.502	7.16	5.67	16.52
616	.63	2.68	1.81	4.32	.001	4.34	2.92	9.13
617	-6.80	4.95	1.08	2.37	.467	7.32	4.79	14.63
618	-4.97	5.02	.76	1.99	.199	6.65	2.73	11.15
619	2.50	5.08	.75	2.70	.093	5.37	2.81	8.94
620	2.54	2.85	7.09	5.59	.412	7.97	5.62	16.31
621	1.56	3.84	1.78	5.17	.065	6.12	2.28	8.50
622	-1.09	5.09	-6.57	4.58	.345	8.36	4.19	17.07
623	4.20	5.56	-14.17	6.65	-.352	15.50	7.09	23.27
624	8.16	6.16	-3.96	3.38	-.154	10.15	5.07	16.49
625	7.61	5.41	-.37	4.71	-.802	9.56	3.63	15.59
626	3.26	3.71	-.82	3.75	.784	5.68	1.97	10.37
627	-6.95	1.32	3.11	3.33	-.100	8.13	1.90	10.47
628	4.70	.95	-2.05	1.95	-.340	5.34	1.45	7.97
629	4.46	1.91	-8.89	10.24	-.432	12.11	7.35	28.35
630	.70	5.17	-11.49	8.26	-.791	12.68	7.92	29.07
631	4.76	3.76	-2.80	8.51	-.364	8.85	5.65	18.19
632	9.30	7.05	5.49	4.43	.863	11.36	7.43	22.83
633	-8.95	6.12	1.92	1.57	.860	10.00	4.62	18.16
634	-1.49	3.92	-5.45	4.59	.834	6.65	4.73	14.74
635	-7.15	2.87	-1.63	4.35	.324	8.37	2.94	11.52
636	.91	2.78	-1.14	3.11	.087	3.84	1.74	6.11
637	.89	6.48	-4.52	4.92	-.542	7.20	5.59	18.71
638	1.79	3.08	2.17	4.67	-.366	5.22	3.03	10.43
639	2.91	3.01	4.32	2.36	-.346	6.08	1.84	8.66
640	3.09	2.38	1.76	3.72	.143	4.71	2.94	10.22
641	-2.95	10.39	-.59	5.50	-.247	9.05	7.42	22.70
642	10.44	8.27	.51	6.60	.440	12.63	7.37	24.42
643	-1.04	5.93	2.08	3.25	.301	5.97	3.34	11.96
644	2.99	4.54	2.54	4.86	.577	6.39	3.90	14.64
645	4.44	6.27	-8.10	4.87	-.646	10.21	6.43	19.58
646	8.80	2.37	-8.92	4.33	-.342	12.86	3.85	17.64
647	-10.87	2.25	4.47	3.44	-.468	12.04	2.99	15.57
648	-1.17	4.27	-1.18	1.38	-.294	3.86	2.52	7.30
649	-4.17	1.14	2.44	2.11	.249	5.18	1.34	7.49
650	-1.54	2.61	2.91	2.17	-.067	4.32	1.60	6.33
651	8.91	4.58	-4.68	3.42	-.692	10.32	5.17	15.96
652	1.58	6.78	4.46	5.47	.325	8.25	4.88	17.45
653	2.65	5.97	-.90	1.79	.280	4.44	5.02	15.80
654	2.63	2.94	-1.51	1.79	-.795	3.55	2.82	8.07
655	1.73	2.78	1.52	1.71	-.632	3.61	1.35	5.19
656	3.89	4.94	.63	1.97	.388	5.11	4.02	13.13
657	.14	1.91	5.15	4.54	.785	5.45	4.56	15.89
658	-4.53	1.24	1.47	2.40	-.300	5.16	1.66	8.31

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659	-7.68	6.45	-.85	4.88	-.501	10.35	3.36	17.05
660	-3.05	3.67	-1.47	1.76	.769	4.28	2.95	8.91
661	6.96	8.61	.82	9.32	.853	12.51	6.18	19.68
662	4.03	6.11	-.95	5.06	.060	7.79	3.61	12.63
663	6.56	3.98	3.12	3.36	-.570	8.19	3.28	15.27
664	3.94	3.78	-2.34	4.90	-.121	6.75	3.21	11.03
665	6.47	5.07	.25	3.12	.849	7.74	3.84	13.73
666	11.91	3.82	2.57	3.34	.934	12.41	4.39	18.80
667	5.46	3.42	6.11	5.06	.743	8.63	5.39	16.10
668	.73	3.39	1.56	1.68	.826	3.25	2.38	6.95
669	6.89	2.86	3.30	3.64	-.608	8.50	2.37	12.10
670	7.01	6.95	.56	3.91	.352	8.08	6.74	17.77
671	3.63	4.46	4.70	1.77	.564	6.96	2.85	12.18
672	1.45	3.43	2.59	1.76	-.043	4.08	2.43	8.12
673	1.54	2.08	-.24	3.78	-.239	3.65	2.48	7.01
674	-2.08	4.48	-3.54	5.21	.553	6.54	4.20	13.96
675	-1.95	3.13	2.75	4.15	-.266	4.56	4.02	12.51
676	4.02	6.75	-4.19	4.81	-.824	8.18	5.54	17.06
677	.91	3.91	.53	2.24	.811	3.44	2.83	9.33
678	-2.22	10.39	.87	4.21	-.906	5.79	9.69	29.60
679	1.35	3.21	3.17	2.05	.084	4.57	2.05	7.16
680	2.99	1.78	.71	5.73	-.133	5.32	3.79	13.74
681	-1.09	1.98	3.31	2.30	-.006	4.13	1.90	7.99
682	6.87	6.67	3.15	2.70	.446	8.53	5.82	20.00
683	-3.26	3.62	-14.94	10.29	-.726	16.00	9.69	33.43
684	-1.74	2.87	-3.78	3.02	-.589	5.37	2.03	9.38
685	-3.67	4.77	3.32	4.34	.301	6.90	3.91	11.93
686	2.18	2.33	3.02	4.61	.160	5.21	3.39	11.18
687	1.19	4.69	1.10	1.39	.292	4.29	2.43	9.04
688	-.91	3.46	-.47	2.28	-.709	3.35	2.34	6.75
689	-.45	1.42	1.16	4.16	-.805	3.56	2.56	7.46
690	2.20	3.77	-3.81	2.42	-.689	5.45	2.86	9.82
691	1.34	4.45	-2.14	1.60	-.247	4.39	2.77	8.98
692	-1.77	5.48	2.58	3.16	-.584	4.90	4.87	15.91
693	-6.73	5.40	-8.71	4.23	.647	11.39	6.11	21.93
694	-3.84	6.47	-6.19	6.45	.598	10.01	5.45	18.87
695	6.90	4.21	1.96	1.21	.378	7.33	4.08	13.32
696	5.54	4.45	2.29	3.84	.184	7.11	4.22	16.04
697	1.68	5.38	2.21	2.46	-.289	5.12	3.72	11.72
698	-.27	3.32	3.37	6.24	.581	6.36	4.09	14.09
699	2.30	2.43	1.18	2.35	-.581	3.80	1.61	6.68
700	4.05	5.34	-.46	1.63	.028	6.08	2.82	10.34
701	.22	2.54	-1.17	3.05	.022	3.20	2.38	7.25
702	1.42	3.36	.72	4.21	-.728	4.88	2.17	8.51
703	-6.61	4.32	1.59	3.54	.320	7.73	3.96	13.01
704	-2.06	2.33	-1.28	3.63	.092	4.30	2.03	6.89
705	-3.27	1.83	-3.14	4.43	-.075	5.56	3.33	11.79
706	-2.68	4.17	-3.89	3.46	.182	6.08	3.55	12.67
707	2.16	2.04	2.99	1.62	.460	3.98	2.06	6.08
708	4.44	3.10	1.29	2.53	.112	5.33	2.82	9.20
709	-4.35	5.30	-3.76	3.98	.889	7.65	3.87	12.19
710	-.16	2.44	-2.47	2.15	-.148	3.62	1.61	5.32
711	4.16	2.11	1.76	3.37	.520	5.60	1.82	9.76
712	2.44	2.92	5.34	4.13	.304	6.95	3.11	10.65
713	2.74	3.29	4.82	2.40	.686	5.98	3.30	11.27
714	2.65	2.04	2.02	3.18	-.454	4.62	1.61	6.31
715	1.61	.89	-2.18	2.06	-.521	3.20	1.33	5.39
716	2.37	2.09	-1.99	3.14	-.803	4.44	1.65	6.95
717	.51	1.82	-.02	1.99	.093	2.33	1.17	4.00
718	-.40	3.08	-3.55	2.67	-.255	4.79	2.25	8.72

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719	.52	2.41	3.04	2.59	-.459	3.90	2.47	7.96
720	3.03	2.15	-.33	1.86	-.260	3.70	1.74	6.52
721	.92	2.35	5.49	4.45	-.377	6.75	2.93	10.81
722	.23	2.29	4.77	3.86	-.389	5.36	3.66	11.36
723	-1.77	4.41	2.93	5.34	-.311	6.40	3.81	10.39
724	-1.43	1.76	-7.48	5.01	.836	7.74	5.10	17.41
725	.48	3.23	1.71	3.55	.470	4.13	2.66	8.80
726	4.17	4.54	3.45	1.58	-.030	6.78	2.04	9.02
727	-5.13	3.68	-1.00	2.35	-.416	5.77	3.50	11.44
728	-4.69	5.82	-5.87	3.71	.716	8.11	6.09	20.25
729	-14.32	14.82	-1.71	5.11	.371	16.31	13.39	38.57
730	-.20	7.27	-5.05	6.04	-.269	9.16	4.77	15.87
731	2.58	6.58	3.00	6.25	.787	7.02	6.63	18.65
732	3.54	4.24	3.92	4.20	.125	7.15	3.01	10.99
733	-8.29	5.38	-3.85	2.90	-.045	9.73	4.98	18.30
734	-2.93	4.90	-1.06	4.01	.094	5.56	3.99	12.36
735	5.34	6.51	2.92	3.90	.222	7.53	5.93	16.98
736	2.31	6.66	2.09	3.54	.528	7.34	2.53	11.46
737	-1.00	5.20	8.18	8.71	.851	11.23	6.04	18.49
738	-4.20	4.87	4.45	7.71	.813	10.05	3.27	15.87
739	-.91	2.07	1.68	2.77	-.311	3.55	1.31	5.44
740	1.68	2.26	-.53	2.51	-.246	3.20	1.79	6.54
741	-10.15	4.55	3.21	9.49	.271	13.03	6.80	25.18
742	-5.86	4.31	4.11	7.64	-.005	9.89	4.87	16.79
743	2.30	3.34	.67	2.70	.291	4.14	2.31	8.52
744	3.06	5.00	2.49	3.97	-.520	6.64	2.87	10.44
745	-1.72	6.71	-3.79	2.98	-.476	7.46	3.18	13.96
746	9.46	8.74	-3.69	3.55	-.627	11.29	7.83	24.60
747	1.92	2.82	9.84	4.87	.560	10.38	4.85	17.19
748	-1.57	2.42	10.45	5.60	.488	11.29	4.37	17.90
749	-8.18	5.48	-4.86	6.33	.037	11.38	5.05	15.96
750	1.54	5.00	-17.11	14.76	-.027	18.32	14.01	37.73
751	-1.55	2.59	7.49	5.68	-.267	8.30	5.20	14.82
752	.36	4.88	3.36	3.23	.262	5.84	2.88	9.36
753	-7.99	6.19	-.97	4.62	.704	9.06	6.32	19.04
754	-3.73	6.63	-7.45	6.46	.787	9.48	7.89	25.77
755	-1.59	3.52	.24	3.76	.234	4.80	1.77	8.59
756	-3.59	2.50	1.44	3.02	-.244	4.52	3.03	9.92
757	5.16	5.44	-6.07	4.45	.124	9.52	4.29	14.66
758	-.13	3.01	-.59	3.22	-.769	3.80	1.84	7.02
759	-.07	3.60	-1.60	5.68	.571	5.48	3.72	11.93
760	-8.77	6.52	6.09	7.62	-.575	12.96	6.22	24.31
761	-1.73	5.34	-3.38	4.61	-.028	6.68	3.91	12.80
762	8.92	7.07	-4.96	9.47	.908	14.26	5.13	22.59
763	-.70	2.81	-9.23	3.89	.730	9.65	3.78	15.04
764	-.73	1.94	-4.75	8.50	-.218	8.59	4.25	13.35
765	2.23	4.16	5.15	2.68	-.066	6.66	3.13	9.22
766	5.18	2.68	.09	6.66	.289	8.06	2.81	12.38
767	1.20	5.01	-1.79	1.92	-.150	4.58	3.18	9.03
768	-.85	4.34	1.93	2.25	-.292	4.37	2.68	9.92
769	1.14	2.27	1.32	3.49	-.507	3.74	2.20	5.86
770	4.66	3.43	.72	3.77	.782	5.74	3.70	10.67
771	-1.83	3.83	-1.04	2.39	.615	4.14	2.42	8.55
772	4.70	3.66	5.50	4.16	.622	7.65	4.85	16.60
773	1.29	2.50	2.31	2.21	.350	3.56	2.17	7.54
774	6.65	4.31	.33	3.97	.067	7.93	3.63	12.11
775	1.44	2.69	-.43	3.21	.645	3.93	1.59	6.55
776	6.40	2.36	-.32	2.37	.308	6.78	2.37	9.65
777	-7.09	5.80	-.59	4.72	.406	9.09	4.38	15.86
778	-5.54	7.56	-5.12	5.80	.565	9.85	6.71	22.30

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779	.03	2.35	1.10	3.26	-.670	3.54	1.81	6.46
780	-.87	2.43	.93	1.34	-.216	2.72	1.03	4.10
781	10.59	5.30	-.25	3.36	-.881	11.22	4.87	17.54
782	3.73	5.81	3.13	7.12	.247	7.82	6.46	17.45
783	-7.24	4.91	-7.64	4.74	.771	10.76	6.40	18.01
784	-3.02	3.90	-8.26	6.53	.684	9.32	6.85	22.96
785	1.54	4.77	.37	4.26	-.023	4.90	4.04	11.67
786	7.39	6.39	3.17	5.99	.641	10.02	6.00	21.42
787	3.13	4.37	-5.77	5.39	-.120	8.07	4.79	15.00
788	9.27	6.76	1.06	8.16	.863	11.84	7.19	25.43
789	-.34	3.94	-11.77	9.46	.112	12.85	8.66	24.76
790	-2.50	3.06	-2.75	9.01	.631	7.87	5.96	20.65
791	2.22	4.47	-.05	3.14	.787	4.79	3.06	10.90
792	5.85	5.78	1.75	4.41	-.018	7.76	5.16	15.26
793	.10	5.59	4.28	4.16	-.676	6.80	4.09	13.76
794	-2.26	4.94	-9.31	7.40	.738	10.68	7.33	21.38
795	1.07	2.05	6.93	1.99	.298	7.36	1.61	9.49
796	.07	2.02	2.23	4.14	.640	4.65	1.50	6.74
797	4.15	2.98	5.11	5.37	-.515	8.03	3.69	15.44
798	-.35	3.98	-4.24	6.54	.518	6.98	4.86	17.86
799	-1.35	3.51	-.41	3.14	-.214	4.39	1.55	6.57
800	-.90	.82	.40	1.89	.630	1.95	1.01	3.32
801	4.70	3.46	-.55	2.74	.626	5.54	3.15	11.08
802	4.97	4.60	-2.82	2.87	-.106	6.96	3.37	11.51
803	-2.60	4.16	3.51	3.24	-.326	5.76	3.42	10.55
804	-.76	4.23	-.15	2.35	-.076	4.39	1.44	6.07
805	-.92	3.99	-.57	3.88	-.384	4.74	2.57	9.14
806	-5.46	5.52	1.59	2.90	-.453	7.14	4.20	15.16
807	.72	3.90	2.51	2.55	-.701	4.62	2.26	9.79
808	2.85	2.65	-2.32	2.71	.013	4.34	2.88	7.50
809	.96	2.95	.54	2.95	.142	3.60	1.98	6.95
810	-.05	2.74	.52	3.31	.391	3.79	1.53	6.11
811	.46	3.40	-1.60	3.58	.142	4.24	2.65	8.60
812	1.44	3.07	-3.13	3.01	-.072	4.91	2.12	8.35
813	.37	3.96	.18	2.33	.100	3.86	2.06	8.00
814	4.71	2.74	-2.65	3.35	-.374	6.04	3.23	12.99
815	-4.18	2.61	-2.36	2.56	.319	5.32	2.71	9.82
816	-2.26	4.06	-4.89	4.86	.682	6.22	5.38	16.61
817	-2.45	2.34	-.93	2.71	-.235	4.05	1.38	6.13
818	-.77	3.44	-4.82	3.32	.050	5.92	3.17	10.01
819	1.16	2.67	4.26	3.52	-.516	5.52	2.65	8.51
820	4.60	5.36	-.19	4.72	-.219	6.98	4.42	13.79
821	2.56	3.91	-2.10	4.86	.394	6.01	3.17	12.45
822	2.21	2.31	.33	5.93	.601	5.67	3.08	10.19
823	-2.78	3.21	.13	3.33	.284	4.82	1.90	7.57
824	-2.99	5.26	2.12	4.23	-.179	6.97	2.33	10.40
825	2.98	2.48	-3.83	6.10	.295	7.15	3.44	12.20
826	5.06	8.71	-2.45	7.47	-.906	9.40	8.17	24.05
827	-7.52	6.07	.69	3.31	-.332	8.39	5.69	15.21
828	-6.78	7.46	-2.28	3.42	.723	7.88	7.40	23.62
829	-2.69	1.69	1.51	2.50	-.847	3.36	2.67	9.02
830	-.64	1.69	2.08	3.08	-.520	3.42	2.10	6.04
831	5.59	4.91	-8.28	8.08	-.750	10.95	8.15	24.42
832	3.55	4.22	6.04	6.69	.157	9.02	5.08	17.29
833	2.54	2.23	2.11	3.05	.835	4.26	2.46	7.94
834	2.69	3.48	3.68	3.85	-.292	5.85	3.40	9.36
835	-3.54	2.76	1.53	3.76	-.850	4.49	3.98	12.43
836	1.23	2.35	1.73	1.25	.370	3.02	1.33	4.77
837	5.47	2.75	3.85	4.39	.658	7.23	4.28	13.26
838	-.02	4.20	-.95	2.32	.756	4.01	2.38	7.36

SANTA MONICA 6HR WIND CHANGE 9-16 KM WINTER

839	1.45	4.06	9.05	7.75	-.586	10.89	6.08	23.54
840	7.30	5.12	2.69	3.36	.026	8.80	4.28	14.10
841	-.21	4.56	4.06	7.15	.516	7.47	5.20	16.83
842	-3.50	3.53	.41	1.98	-.515	4.17	3.26	10.83
843	5.10	3.39	3.91	3.21	.211	7.06	3.48	10.34
844	-9.24	9.13	-10.03	11.51	.764	15.20	12.82	31.80
845	1.14	3.93	1.33	4.80	.659	5.09	3.51	11.36
846	-3.30	4.12	4.92	8.03	-.772	8.34	6.49	18.08
847	-1.31	5.80	-3.08	4.57	-.007	7.24	2.71	10.43
848	2.79	2.40	-4.27	5.21	.129	6.83	3.04	10.99
849	-14.80	9.40	-7.67	6.32	.802	16.90	10.93	32.70
850	-2.37	6.53	-5.34	3.55	.290	8.30	3.94	14.82
851	.57	4.38	2.78	4.36	-.501	5.88	2.82	10.44
852	-1.51	1.66	3.28	3.10	-.261	4.03	2.95	7.69
853	-2.12	6.98	-6.35	5.70	.196	9.83	4.67	16.58
854	-.34	7.08	-9.48	10.73	.005	13.30	8.13	28.55
855	-2.00	4.45	2.77	3.43	-.235	5.41	3.38	10.54
856	1.68	1.92	2.88	3.53	.594	4.41	2.58	8.77
857	-9.36	7.52	-5.34	6.34	.827	11.36	9.05	26.26
858	-5.85	8.37	-4.42	11.69	.360	12.79	9.01	24.73
859	8.84	4.09	.14	5.54	.446	10.12	4.44	18.34
860	2.55	2.78	-5.90	4.07	-.514	7.43	2.91	10.71
861	.60	5.88	5.71	4.29	.515	8.03	4.11	14.02
862	3.60	2.71	2.82	4.22	-.227	6.23	2.17	10.38
863	-7.30	4.59	-9.94	8.02	-.068	13.74	6.61	25.93
864	-7.83	7.84	-11.77	8.97	.780	14.84	10.90	35.50
865	3.55	4.24	4.63	4.59	-.316	7.41	3.89	11.81
866	3.87	3.89	.31	2.96	-.304	5.24	3.12	9.50
867	1.62	3.85	.49	2.41	-.101	3.80	2.73	10.03
868	.07	3.55	-3.85	2.40	-.467	4.77	3.04	10.56
869	-1.53	3.21	2.44	2.18	.592	4.48	1.29	6.55
870	1.93	4.05	-.23	3.00	.408	4.55	2.46	8.84
871	-4.10	3.07	3.70	2.62	.151	6.16	2.80	9.21
872	-2.29	3.69	2.94	3.16	-.621	5.30	2.72	9.90
873	-7.51	3.28	-3.92	2.78	-.015	8.87	3.24	13.11
874	-4.31	5.39	1.83	4.17	-.098	6.83	4.26	13.08
875	-8.66	5.62	-4.81	6.51	.696	11.27	6.40	19.69
876	.29	5.97	.97	6.81	.912	7.89	3.47	14.14
877	.77	3.56	-9.15	4.49	.003	9.83	4.32	16.57
878	.48	3.78	-2.85	6.26	.083	6.77	3.27	13.27
879	6.62	2.10	5.20	5.77	.374	9.41	4.17	14.57
880	.60	3.95	6.49	2.43	-.598	7.59	2.09	10.69

MEAN DU(M/S)= .11
MEAN DV(M/S)= -.15
SD DU(M/S)= 6.43
SD DV(M/S)= 6.96
R(DU,DV)= .13
MEAN W(M/S)= 7.60
SD W(M/S)= 5.66
SD MEAN(M/S)= 3.24
MEAN MAXW(M/S)=14.56
SD MAXW(M/S) 7.13

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	2.25	3.26	-2.95	2.29	-.106	4.56	2.77	8.56
2	-6.66	3.46	-1.59	2.46	.888	7.24	3.39	12.51
3	2.92	2.54	2.08	2.50	.702	4.14	2.77	9.26
4	.93	2.72	-1.46	4.01	.759	4.45	1.95	7.37
5	-1.09	1.91	4.71	3.58	.258	5.31	3.29	9.24
6	-.12	3.62	-1.94	2.70	-.500	4.47	1.19	6.03
7	2.96	2.83	1.28	1.24	-.132	3.86	2.07	6.22
8	3.00	1.92	-.29	2.02	-.949	3.50	2.02	6.56
9	-3.13	2.03	.74	1.97	-.073	3.78	1.83	5.75
10	-1.05	4.07	.27	1.51	.435	3.53	2.38	7.55
11	-2.75	1.52	-1.38	3.90	-.194	4.76	1.44	7.25
12	-.29	2.07	1.96	1.90	-.606	2.93	1.56	5.18
13	.96	2.91	5.86	2.17	.405	6.48	2.32	11.52
14	-.98	2.88	-.75	3.79	.063	4.15	2.09	6.49
15	2.77	2.52	.16	2.14	.128	3.82	1.71	6.64
16	2.53	1.90	-1.81	4.10	-.804	4.18	3.37	9.93
17	-.37	2.29	-.57	2.82	-.448	2.89	2.00	5.50
18	-1.10	4.38	1.06	2.35	.140	4.56	1.78	6.38
19	.62	1.57	-.21	2.79	-.035	2.98	.63	4.04
20	.65	2.03	-.14	1.89	-.222	2.50	.97	4.00
21	-.13	3.61	1.98	2.00	-.056	3.66	2.45	6.69
22	1.21	3.16	-1.54	2.57	.206	3.79	2.08	7.81
23	1.72	1.59	.91	2.03	.358	3.01	.69	3.95
24	2.03	2.17	.23	1.53	-.248	2.74	1.78	5.87
25	-.36	3.46	.62	2.06	.026	3.57	1.40	5.29
26	-2.24	2.78	-1.88	3.29	.494	3.91	3.27	8.72
27	-1.08	1.31	1.11	1.58	.380	2.34	.80	3.17
28	1.60	2.67	1.54	3.52	-.652	4.44	1.52	6.71
29	-2.50	3.51	2.04	2.60	-.468	4.45	2.86	9.96
30	-4.82	4.78	-3.05	5.32	.759	7.51	4.83	14.52
31	2.91	2.13	.22	2.54	.211	3.90	1.79	6.85
32	3.01	2.03	.99	2.75	.246	3.76	2.63	7.91
33	-.36	4.50	5.97	6.48	-.090	7.69	5.91	14.46
34	.72	3.42	3.02	3.54	.821	4.51	3.43	11.74
35	-.60	3.95	-.08	1.50	-.637	3.36	2.26	7.01
36	1.96	3.42	-1.67	3.24	-.805	4.10	3.21	10.83
37	-1.50	2.60	-1.47	2.43	.331	3.63	1.55	6.60
38	-2.25	1.98	1.45	1.04	.247	3.05	1.57	5.24
39	1.73	1.93	2.61	3.79	-.187	4.19	2.99	10.50
40	4.04	2.85	.60	3.34	.641	5.41	2.15	8.77
41	1.24	1.26	1.24	3.02	.014	3.27	1.36	5.36
42	-1.06	2.06	.27	2.78	-.194	2.81	2.03	6.55
43	.19	2.69	2.48	1.75	.222	3.75	1.08	5.48
44	4.60	3.26	2.60	3.05	.518	5.83	3.59	10.09
45	-1.78	1.69	-2.91	5.68	-.082	6.23	1.84	8.04
46	-.50	4.26	-1.69	1.85	.274	4.26	2.01	6.89
47	-2.01	1.89	.29	1.94	.194	3.05	1.13	5.30
48	.30	1.82	2.21	1.74	.317	2.96	1.38	4.50
49	2.99	1.75	.46	1.85	-.365	3.44	1.84	6.31
50	1.02	2.56	3.54	3.44	.187	4.99	2.27	8.34
51	-6.90	2.02	1.80	1.07	.348	7.25	1.82	9.38
52	-1.97	1.28	3.73	2.94	-.446	4.43	2.87	10.28
53	-.09	2.34	-1.60	2.52	.626	2.96	2.16	7.10
54	-1.45	1.64	-2.14	1.02	.748	2.90	1.30	5.00
55	-2.06	4.04	-1.11	3.15	.790	3.98	3.77	11.91
56	-1.78	2.84	1.56	1.49	.106	3.66	1.11	5.62
57	.39	1.75	-3.15	3.62	.343	4.04	2.99	7.97
58	-1.79	3.04	-4.48	2.78	.757	5.30	3.38	12.17

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

59	-2.50	1.83	2.81	1.91	.453	4.19	1.73	6.29
60	1.51	3.48	3.14	1.47	.503	4.45	2.32	8.49
61	.26	1.92	-.85	1.46	.116	2.29	.81	3.11
62	2.22	2.53	-.44	1.89	.174	3.44	1.46	6.48
63	-2.48	1.80	-3.95	2.98	.307	5.12	2.63	8.07
64	.47	1.56	-.16	3.56	.149	3.16	1.93	7.20
65	-.14	1.91	.28	2.46	.582	2.43	1.70	5.75
66	.01	1.43	-1.91	1.00	-.070	2.42	.67	3.34
67	-.73	3.08	-3.38	2.84	.522	4.70	2.40	8.88
68	.40	2.46	-1.21	2.32	-.221	3.15	1.33	4.70
69	-.65	3.13	1.71	2.72	-.726	3.68	2.30	7.60
70	-1.29	1.43	.86	2.45	-.451	2.63	1.67	4.81
71	1.12	2.50	-.10	2.79	-.089	3.36	1.54	5.58
72	2.01	1.84	.31	2.40	.225	3.18	1.46	5.04
73	.30	3.47	.68	1.62	-.242	3.36	1.48	6.08
74	-1.24	5.26	1.53	3.80	-.891	5.74	2.86	9.61
75	-2.52	2.24	-6.37	4.66	.768	6.97	4.97	16.24
76	1.02	1.20	-.16	2.09	-.691	2.25	1.09	4.33
77	2.24	2.48	-2.31	5.04	-.698	4.54	4.42	14.16
78	3.35	2.77	-.45	3.34	-.838	5.00	1.74	8.24
79	1.22	1.31	1.41	2.35	-.336	3.05	.67	4.00
80	.83	1.43	1.09	4.04	-.564	3.86	1.76	6.01
81	-1.22	1.03	1.71	1.96	.778	2.78	1.01	4.17
82	-.29	.71	1.10	1.86	.721	2.00	.91	3.72
83	.94	1.93	-.28	1.95	.338	2.49	1.18	4.23
84	-.25	2.96	2.10	1.48	-.224	3.12	2.20	6.89
85	-2.19	2.13	-.52	3.06	.476	3.51	2.32	8.07
86	-2.92	3.49	2.11	2.02	-.182	4.50	2.78	8.02
87	-3.19	1.47	-.61	2.05	.037	3.70	1.65	6.02
88	.80	1.72	-.63	2.28	-.268	2.64	1.10	4.02
89	-.85	1.83	-.19	2.62	-.073	2.92	1.08	4.13
90	-.69	1.82	1.09	3.36	.527	3.15	2.24	8.18
91	2.37	1.44	.37	2.32	-.541	3.25	1.37	5.43
92	.31	2.39	1.86	3.40	.130	3.81	2.12	7.87
93	-1.72	2.69	-.26	3.39	.121	4.21	1.26	5.85
94	-2.08	2.95	-1.81	2.35	.108	3.94	2.23	8.58
95	-1.22	2.79	-.98	2.71	.385	3.78	1.16	5.57
96	3.39	2.36	1.77	1.34	-.410	4.27	1.80	6.30
97	2.17	2.85	-1.50	2.23	.475	3.75	2.20	6.14
98	-.26	3.56	-1.10	2.65	-.707	4.12	1.20	5.71
99	-1.49	3.18	-.42	2.34	-.428	3.28	2.42	7.32
100	.74	3.10	-2.02	2.76	-.248	3.98	2.03	7.57
101	-.27	2.13	2.31	2.47	-.389	3.53	1.55	5.65
102	1.48	2.04	2.50	2.30	-.727	3.93	1.10	5.30
103	-1.85	2.42	-1.80	2.82	-.027	3.92	1.91	6.61
104	-1.41	1.88	-2.84	4.71	.171	4.62	3.55	9.97
105	-1.42	2.73	2.56	1.75	.512	3.98	1.44	5.93
106	-.29	2.47	1.42	2.44	.454	3.15	1.70	5.06
107	2.04	2.58	.07	1.80	-.434	3.27	1.51	5.44
108	2.29	3.25	.45	2.21	.189	3.66	2.48	8.04
109	3.26	4.52	2.84	3.16	.714	6.02	3.16	10.70
110	6.07	3.89	3.49	2.65	.924	7.12	4.50	13.35
111	5.16	2.64	-1.74	5.70	.811	7.53	2.80	11.92
112	3.31	2.42	-5.17	5.01	.488	7.71	2.34	10.75
113	.86	1.31	.22	1.87	-.377	2.09	1.02	3.84
114	.92	4.00	.96	2.49	.280	3.98	2.39	8.01
115	-.77	3.14	2.02	1.82	.438	3.81	1.31	5.56
116	3.63	2.68	1.08	2.78	.337	4.75	2.31	8.00
117	.14	1.57	1.06	2.05	.228	2.32	1.31	4.55
118	-1.47	1.48	-1.02	1.65	-.053	2.61	.83	3.47

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

119	-.01	2.95	-1.88	1.32	-.280	3.14	1.74	6.03
120	-2.39	3.92	-1.44	4.21	-.524	5.26	3.15	10.70
121	-.41	2.91	-.45	3.10	.730	3.84	1.17	5.90
122	1.30	.84	-.45	2.10	.000	2.30	1.08	3.60
123	.28	1.48	2.74	3.37	-.076	3.93	2.10	7.13
124	2.78	1.93	-.20	1.35	.572	3.05	1.93	6.01
125	-.73	1.81	-3.97	3.29	-.542	4.91	2.24	8.64
126	-1.24	2.04	-7.22	2.62	-.282	7.62	2.42	10.82
127	-1.24	2.43	-.80	1.78	-.045	3.04	.90	4.01
128	.18	1.17	-2.68	3.16	.525	3.56	2.23	6.76
129	.00	1.97	.55	2.49	.150	2.68	1.44	5.48
130	1.86	1.60	.53	3.15	.049	3.15	2.29	7.33
131	.03	1.89	1.13	2.18	.742	2.59	1.41	4.60
132	.61	2.84	-.70	1.59	.397	2.96	1.16	4.13
133	.78	2.51	-.19	2.32	.525	3.21	.67	3.81
134	-.77	2.38	1.23	3.24	.251	3.66	1.71	6.00
135	-2.36	.90	.53	2.09	.638	3.08	.97	4.31
136	-1.81	1.17	3.02	3.22	-.819	4.27	2.22	6.93
137	-.62	3.20	1.97	2.28	-.009	3.49	2.50	6.51
138	.40	2.39	-.71	2.35	.725	2.80	1.69	5.46
139	.48	1.50	-1.24	4.93	.742	4.01	3.13	9.63
140	.82	1.94	-.14	3.25	-.403	3.13	1.93	6.91
141	2.30	3.75	-1.76	1.08	-.093	4.25	1.98	6.75
142	-1.12	2.73	.17	3.25	.635	3.85	1.48	6.47
143	2.66	2.65	.82	3.22	.209	4.26	2.31	7.29
144	2.05	2.50	1.22	3.00	.393	4.05	1.66	6.26
145	-3.89	1.78	-4.09	3.45	.634	6.04	3.11	10.52
146	-2.46	2.61	-2.76	3.23	.475	4.55	3.01	10.29
147	-2.00	3.34	-4.27	1.20	.073	5.64	1.18	6.58
148	-2.59	4.10	1.60	1.61	.324	4.00	3.40	10.27
149	-.55	1.56	.88	1.32	.895	2.01	.85	3.01
150	.23	.75	-2.33	1.26	-.044	2.49	1.15	4.35
151	.35	1.70	1.76	1.02	-.226	2.40	.98	3.23
152	.66	1.45	1.56	1.90	-.534	2.48	1.37	4.01
153	-1.38	.77	-1.71	5.06	-.110	4.51	2.85	10.39
154	3.08	1.81	2.03	1.61	-.073	4.18	1.13	6.07
155	.08	1.12	-4.88	4.01	-.289	5.14	3.78	10.33
156	9.39	4.11	6.43	5.26	.730	12.14	4.87	19.76
157	-1.11	2.71	-.55	2.21	-.561	3.17	1.53	5.24
158	-.88	3.11	-.91	2.55	.370	3.58	1.76	6.39
159	-.36	2.19	1.08	1.85	-.364	2.79	.81	3.99
160	1.54	1.92	2.61	1.28	.584	3.39	1.63	6.17
161	.19	3.13	.91	1.39	-.545	2.92	1.67	5.90
162	.65	2.38	1.66	2.07	-.793	3.14	1.48	4.90
163	.73	3.48	-1.22	2.50	-.107	3.97	1.51	6.43
164	1.44	3.18	.54	3.44	.408	4.26	1.90	7.29
165	.05	.83	2.35	2.04	.304	2.93	1.12	5.13
166	.48	2.20	.44	3.53	-.386	3.58	1.69	6.63
167	1.68	1.12	-1.06	3.21	.285	3.58	1.11	5.62
168	2.37	3.75	.16	.91	-.174	3.54	2.63	8.08
169	3.55	2.08	-.04	2.34	-.087	4.08	2.26	7.27
170	3.11	1.90	-2.58	2.37	-.428	4.52	2.11	7.31
171	4.22	2.18	-.68	2.72	.665	4.89	2.37	8.59
172	-1.43	4.80	-1.92	1.53	.753	4.56	2.79	8.78
173	-.22	4.62	.67	2.62	.706	4.43	2.44	9.40
174	-9.24	4.93	-1.73	3.80	.378	10.01	4.98	17.11
175	-3.04	2.43	.85	2.17	.152	4.00	1.89	6.60
176	1.47	3.59	4.00	2.74	.481	5.48	2.54	8.86
177	-8.66	3.05	-6.85	4.55	.241	11.61	3.88	16.12
178	-6.56	2.11	-3.16	3.02	-.083	7.73	2.41	9.75

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

179	-2.89	5.18	-.91	1.54	-.161	4.67	3.79	11.72
180	-1.12	5.23	-1.47	2.87	.694	4.96	3.29	11.50
181	-.93	1.40	-.91	3.71	.480	3.58	1.67	5.84
182	-.25	1.80	2.33	3.91	.101	4.17	2.17	7.44
183	-1.46	2.05	-.57	1.94	-.273	2.78	1.36	4.13
184	-1.70	2.28	1.06	1.28	-.358	2.48	2.09	6.85
185	-5.97	4.79	-6.12	4.15	.460	9.06	5.44	16.04
186	-2.92	2.51	2.68	1.52	-.681	4.58	1.59	6.80
187	-2.42	1.94	-4.35	1.41	.240	5.24	1.63	7.26
188	-3.72	3.67	-.08	2.36	.459	5.12	2.15	8.09
189	-3.39	3.29	.81	2.14	-.301	4.23	2.96	9.44
190	-.24	2.11	.97	2.70	-.760	2.53	2.34	6.07
191	-2.65	3.92	-5.05	3.20	-.634	6.75	3.22	11.56
192	-2.88	2.06	-.66	1.10	.263	3.36	1.56	6.04
193	1.79	5.13	.77	3.05	-.808	4.73	3.72	12.49
194	-1.67	2.72	-2.18	3.48	-.562	4.31	2.58	8.82
195	.50	1.55	-.31	1.85	.021	2.18	.81	3.07
196	.47	2.76	-2.43	2.60	.848	3.80	2.17	7.72
197	-3.69	4.12	2.79	6.52	.772	7.98	3.19	12.36
198	-1.45	3.19	4.25	1.63	.178	5.28	1.94	7.10
199	-5.90	4.60	-15.18	11.45	.710	16.55	11.93	35.57
200	.18	2.22	-5.20	8.33	.620	6.86	7.15	19.39
201	.72	2.74	-2.02	4.37	.657	4.70	2.50	8.64
202	-.70	4.22	1.51	4.34	.336	5.61	1.77	7.84
203	-.02	2.67	2.28	3.43	.238	4.22	2.05	7.07
204	5.36	1.12	1.12	1.88	-.707	5.75	1.09	7.37
205	-.68	3.57	-1.02	2.20	.500	3.55	2.15	6.60
206	-1.72	2.31	2.75	2.52	-.552	3.93	2.44	7.60
207	-1.64	1.75	-4.99	4.90	.507	5.89	4.33	12.21
208	-2.21	3.18	-5.47	3.40	.825	6.21	4.15	12.31
209	-.24	1.31	1.10	2.21	-.752	2.42	1.14	3.90
210	1.36	1.53	.67	1.34	.038	2.26	.92	3.70
211	-3.11	2.49	1.90	3.21	-.205	4.47	2.96	9.62
212	2.17	1.92	.40	3.56	.444	4.10	1.54	6.45
213	2.61	2.37	.85	2.08	.178	3.72	1.61	6.28
214	1.99	3.01	.07	3.42	-.082	4.39	1.69	6.30
215	.11	4.16	2.65	2.16	.816	4.44	2.69	10.00
216	1.40	2.03	1.77	2.00	.025	3.01	1.86	5.07
217	.18	1.92	.79	2.58	.050	2.72	1.58	5.12
218	2.60	2.93	.01	2.12	.391	3.42	2.70	6.46
219	2.63	2.38	2.55	2.13	-.635	4.40	1.82	7.20
220	-3.66	2.86	1.57	2.35	.114	4.96	1.86	7.07
221	.21	1.51	.70	2.66	.516	2.57	1.50	5.12
222	-2.64	3.02	1.99	2.76	-.023	4.37	2.69	8.81
223	-.26	2.37	2.86	3.05	.598	4.24	1.89	7.13
224	1.00	2.27	-1.79	3.38	-.200	3.74	2.27	6.95
225	.27	2.29	2.24	1.31	-.033	3.09	1.32	5.01
226	1.49	1.81	-.32	1.70	.016	2.60	.99	4.13
227	.18	.72	1.18	2.60	.253	2.38	1.54	5.26
228	.51	3.42	-.77	4.14	-.001	4.83	1.63	6.87
229	.26	2.94	-.01	1.09	.349	2.43	1.74	5.39
230	.44	1.31	-.64	2.12	.575	2.20	1.13	4.04
231	-.85	3.19	-2.40	1.08	.331	3.87	1.19	5.41
232	-.82	2.78	-2.45	2.41	.380	3.44	2.75	8.61
233	.77	1.99	-.85	2.72	.653	2.86	1.83	5.36
234	-.67	1.70	-.54	2.12	.172	2.40	1.22	4.00
235	-.38	2.98	1.33	2.81	-.141	3.72	1.72	6.08
236	-.22	1.97	-2.32	4.08	-.289	4.49	1.82	6.10
237	-.32	1.49	.00	1.26	.455	1.62	.93	3.44
238	-.23	1.36	-1.79	1.20	-.710	2.28	1.03	4.19

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

239	.50	2.79	-.37	1.69	-.179	2.76	1.49	4.80
240	.30	2.42	-.75	2.14	.793	2.92	1.11	4.36
241	-.51	1.58	-.79	2.77	.226	2.95	1.03	4.49
242	-1.63	2.16	-6.40	3.20	-.190	7.04	2.84	10.75
243	3.27	4.57	2.43	2.45	.284	5.57	3.16	12.51
244	-1.79	4.36	.89	5.30	.526	6.12	2.85	10.16
245	-1.91	4.42	-1.72	2.84	-.047	5.20	1.95	9.08
246	-1.62	2.31	-2.23	3.99	-.207	4.94	1.27	6.33
247	.46	3.16	.50	1.81	.368	2.89	2.01	6.03
248	3.60	5.10	-1.79	3.14	-.745	5.54	4.35	11.88
249	-.38	2.46	-.50	1.47	.416	2.35	1.50	5.48
250	.86	1.88	.65	3.44	.075	3.41	1.78	5.62
251	-1.48	1.47	-1.61	3.18	.500	3.14	2.52	7.04
252	2.39	1.23	.00	1.85	-.677	2.94	1.21	5.08
253	-1.43	1.56	-1.27	1.76	.876	2.59	1.41	4.06
254	.96	1.52	-3.42	1.46	.066	3.81	1.49	5.48
255	-.77	2.89	1.05	2.19	-.270	3.03	2.09	6.06
256	-.45	2.03	-.21	2.94	-.223	3.12	1.28	5.23
257	-.68	3.11	1.32	2.42	-.552	3.56	1.82	6.44
258	1.11	3.24	1.14	2.04	.200	3.15	2.46	7.10
259	-1.13	.59	-.80	1.70	-.171	2.03	.81	3.00
260	-1.76	1.85	-1.02	1.46	-.427	2.68	1.42	4.33
261	-2.94	2.93	-.77	1.07	.551	3.62	2.29	6.89
262	.39	3.49	.55	1.58	.535	3.33	1.49	5.96
263	-.13	2.02	.66	3.06	-.044	2.97	1.92	6.46
264	.70	1.13	-3.24	1.97	-.219	3.54	1.82	5.80
265	2.40	2.45	-4.85	4.15	-.499	6.08	3.78	11.22
266	.48	2.36	.55	2.56	.217	3.11	1.21	5.02
267	.59	1.37	.94	2.16	-.272	2.20	1.52	4.01
268	-.66	1.57	-1.78	1.50	-.421	2.53	1.20	4.03
269	-.54	2.51	1.11	4.63	.330	4.71	1.92	6.99
270	-1.01	1.67	-1.74	2.08	.260	2.94	1.32	4.98
271	-1.55	1.53	.63	1.63	-.230	2.37	1.31	3.43
272	-.91	1.56	1.54	1.35	-.553	2.40	1.12	4.40
273	-.96	2.16	2.80	4.09	.275	4.49	2.85	8.61
274	.52	1.25	2.22	4.79	-.027	4.41	2.82	9.85
275	-.67	.75	-.64	2.32	.445	2.07	1.39	4.17
276	-1.87	2.72	.30	1.08	-.573	2.88	1.75	5.34
277	.42	1.71	-.30	.89	.563	1.51	1.17	3.78
278	.42	2.54	-1.28	3.39	.477	3.79	1.80	6.85
279	-.25	2.12	-.92	2.91	.225	3.09	1.68	5.68
280	.86	1.93	-.89	1.21	.272	2.31	.87	3.62
281	2.01	4.19	.07	7.00	-.481	6.31	4.98	16.04
282	1.17	3.94	2.71	3.10	-.369	4.50	3.41	9.01
283	-1.84	2.41	-3.24	4.25	-.099	5.41	2.44	8.46
284	-1.06	1.72	4.29	2.89	-.160	4.91	2.45	8.93
285	-.11	1.05	-.19	1.69	.494	1.66	.88	3.17
286	1.05	3.71	.08	2.28	-.231	3.55	2.37	7.78
287	-1.19	3.34	-.61	3.18	-.276	3.92	2.33	8.65
288	-.11	1.73	.99	1.45	.239	2.11	1.02	3.20
289	-2.55	2.68	.51	1.51	.289	3.10	2.48	6.47
290	-3.12	2.63	-1.14	2.50	.829	3.92	2.84	8.89
291	.30	4.28	-4.10	2.46	-.155	5.54	2.88	9.50
292	3.28	5.30	.90	2.58	.686	4.64	4.81	14.17
293	-2.20	2.13	-.05	3.26	-.450	3.73	2.14	6.89
294	-.68	1.88	.52	3.87	.622	3.55	2.16	6.65
295	-1.85	2.58	-.40	1.80	-.648	3.06	1.78	5.66
296	2.97	1.88	.74	1.93	-.572	3.55	1.88	6.51
297	.08	3.56	-.65	1.32	.081	3.22	1.68	6.35
298	-.29	2.28	-.18	1.21	.352	2.33	.68	3.26

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

299	-1.68	1.70	1.60	1.71	.265	3.05	1.11	4.74
300	2.26	1.80	-1.23	1.20	-.246	2.82	1.77	5.02
301	-.96	2.81	.53	1.72	-.292	2.49	2.24	7.17
302	1.25	3.95	1.25	3.05	.689	3.65	3.61	11.53
303	.83	1.68	.76	1.91	-.072	2.40	1.11	4.32
304	1.28	1.65	.46	1.54	.388	2.42	.63	3.39
305	1.15	2.97	-.06	1.83	.083	2.95	1.90	5.87
306	.29	3.28	-.51	1.51	- 641	2.81	2.06	6.45
307	-.66	2.84	.89	3.53	-.042	4.15	1.36	6.10
308	-.11	.74	.53	2.91	-.582	2.69	.96	3.71
309	1.30	2.25	-2.66	2.52	-.784	3.80	2.19	6.43
310	.75	3.98	-1.36	1.90	-.752	4.05	1.77	6.89
311	-1.68	3.03	.13	3.64	.204	4.42	1.73	6.59
312	-1.44	1.54	-.54	3.19	-.221	3.35	1.49	5.12
313	.06	3.14	-1.67	2.82	.201	3.77	2.14	7.65
314	-.70	4.02	-1.56	3.39	-.323	4.62	2.47	8.01
315	.21	1.40	.06	1.53	.604	1.74	.92	3.11
316	2.15	2.28	1.51	2.17	-.786	3.74	1.27	5.43
317	-1.13	1.03	-.22	1.76	-.265	2.00	1.03	3.05
318	-.12	2.29	.09	1.37	-.444	2.27	1.06	3.96
319	-.36	2.70	-.60	1.25	-.981	2.54	1.38	5.09
320	.76	4.31	-.96	1.21	.277	4.22	1.02	5.98
321	-.76	2.06	2.07	4.02	.138	4.07	2.60	7.72
322	.78	2.96	.27	2.45	-.067	3.59	.71	4.62
323	-.63	1.51	-.48	2.57	.551	2.46	1.60	4.81
324	-.08	1.70	.42	1.46	-.707	1.94	.93	3.68
325	-.04	2.45	-.19	1.55	.133	2.49	1.10	4.56
326	-.57	1.88	.04	1.60	-.740	2.05	1.26	3.69
327	-.79	2.37	-1.10	2.64	-.168	3.48	.78	4.51
328	2.70	3.68	.76	2.73	.844	4.63	2.27	7.62
329	.83	2.10	1.27	2.85	-.509	3.51	.93	4.84
330	-.30	2.73	.75	1.30	-.343	2.85	.66	3.75
331	-1.25	2.52	1.04	1.43	-.588	2.69	1.74	4.85
332	-.93	1.59	.85	2.07	.038	2.56	1.00	3.91
333	-.02	1.71	-1.38	2.74	.707	2.48	2.34	6.98
334	-1.26	3.26	-2.55	2.26	-.318	4.14	2.28	7.89
335	-.05	2.20	.56	1.95	.460	2.30	1.68	5.03
336	-2.44	3.19	-1.70	2.18	.853	3.75	2.98	9.19
337	-1.75	1.37	-.42	2.82	-.109	3.22	1.22	4.23
338	-.16	3.16	.56	2.11	-.740	3.04	2.01	5.94
339	-2.36	2.97	.35	3.61	.137	4.55	2.09	6.90
340	.43	2.26	-.02	2.37	-.435	2.82	1.28	5.46
341	-2.56	3.11	1.63	3.18	-.032	4.46	2.70	8.04
342	1.62	2.32	-2.26	2.78	-.179	3.68	2.51	8.09
343	-.68	2.38	-1.87	3.16	-.726	4.06	1.02	5.25
344	.15	2.60	-.62	1.86	-.597	2.80	1.26	4.13
345	1.58	2.78	2.21	3.17	-.275	4.31	2.17	6.97
346	2.16	1.85	-.21	2.13	.016	3.02	1.68	5.13
347	-1.19	2.32	.24	2.73	-.194	3.39	1.08	5.59
348	-.25	1.71	2.70	2.48	-.538	3.43	1.96	7.55
349	1.15	2.66	-.69	1.45	.349	2.89	1.22	5.04
350	3.07	4.17	.88	4.03	-.810	5.21	3.73	12.34
351	-.92	1.51	.20	3.43	-.542	2.99	2.15	6.15
352	-1.04	1.62	.86	2.68	.251	2.96	1.29	5.00
353	-1.51	1.27	-.98	2.07	.338	2.58	1.38	3.89
354	-2.04	3.88	.87	2.05	.129	4.31	1.80	7.04
355	1.02	2.17	.40	3.67	-.163	3.90	1.35	5.71
356	-.62	2.35	1.04	1.67	-.758	2.78	1.02	4.29
357	-1.30	2.63	-2.10	2.25	-.181	3.52	2.15	6.24
358	1.24	4.87	-.06	3.00	-.062	4.95	2.44	7.62

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

359	.38	1.53	-.33	3.61	-.025	3.39	1.49	5.87
360	-.31	2.30	-2.44	3.06	-.385	3.49	2.74	8.63
361	.73	1.12	1.82	2.64	.089	3.12	1.15	4.50
362	3.69	2.89	-.05	2.66	-.112	4.62	2.53	7.63
363	-1.83	3.30	.12	1.99	-.489	3.12	2.72	8.92
364	-3.96	3.49	2.06	1.97	-.565	4.81	3.50	12.12
365	-.72	1.43	-.14	2.45	-.869	2.32	1.55	4.93
366	1.23	2.30	1.65	1.50	-.106	3.16	.89	4.93
367	.42	1.98	.10	1.61	.464	2.09	1.28	3.62
368	-.94	3.29	-3.23	1.30	.058	4.49	1.49	6.30
369	1.11	1.27	-.21	1.65	-.431	1.93	1.21	3.37
370	.33	1.72	-1.49	4.79	.876	4.58	2.03	7.38
371	-1.53	3.03	.87	2.04	.529	3.18	2.28	5.77
372	-.28	1.21	1.15	3.11	.830	2.69	2.07	6.48
373	-2.02	2.45	-.02	2.32	-.074	3.42	1.57	6.03
374	-.58	1.67	-.65	1.74	.146	2.24	.93	3.37
375	-3.28	1.23	-3.91	2.02	.714	5.18	2.19	8.63
376	-3.64	2.04	-2.16	2.91	.686	4.64	2.89	10.66
377	1.05	2.07	1.89	4.11	-.329	4.28	2.30	7.82
378	1.82	1.45	1.88	1.95	-.260	3.27	1.19	5.16
379	.25	1.78	-1.25	3.30	.244	3.43	1.49	5.76
380	.33	3.07	-.97	3.70	.222	4.02	2.33	8.05
381	.73	1.00	2.34	2.38	-.030	2.69	2.28	6.77
382	2.54	3.07	2.31	1.65	.083	4.54	1.38	5.55
383	.15	1.22	2.58	2.38	-.394	3.23	1.66	6.08
384	-.05	1.73	2.56	1.84	-.075	3.17	1.51	5.95
385	-1.93	1.38	1.93	1.58	-.039	2.97	1.68	4.56
386	-.95	1.62	1.01	2.12	.484	2.61	1.18	4.71
387	-1.02	1.08	-2.31	2.66	.243	3.09	2.15	6.23
388	-.63	1.28	.20	2.20	-.226	2.22	1.11	3.89
389	.01	3.42	-1.16	4.07	-.252	4.68	2.07	8.22
390	1.28	2.61	-3.68	2.49	.730	4.81	1.93	8.23
391	.46	1.38	.37	2.45	-.063	2.57	.78	3.44
392	2.05	2.26	-.31	2.90	-.440	3.58	1.89	5.92
393	-.27	1.20	1.01	3.56	.308	2.79	2.51	8.20
394	.08	2.92	-1.08	.62	-.313	2.67	1.40	4.62
395	.32	1.52	-.24	1.93	-.347	2.28	.43	2.97
396	2.13	1.85	2.02	1.86	.366	3.39	1.87	7.12
397	-3.41	3.81	1.12	2.21	-.291	4.40	3.43	11.21
398	.57	2.23	.65	2.46	.704	2.70	1.85	5.99
399	2.49	2.68	4.25	1.91	-.737	5.75	.73	6.76
400	1.59	4.43	-.70	3.26	-.618	4.45	3.28	9.29
401	-.20	2.15	1.82	1.94	-.457	2.95	1.46	4.81
402	.40	2.74	.28	2.67	.042	3.37	1.30	4.79
403	-1.79	1.74	1.21	1.79	.132	2.83	1.54	4.44
404	-.04	1.37	1.66	2.04	-.330	2.51	1.38	4.35
405	.44	2.96	-.35	1.89	-.552	3.08	1.30	5.66
406	1.09	2.06	-.58	3.88	-.125	3.88	1.87	6.71
407	.05	3.20	.61	3.06	.458	3.62	2.19	7.11
408	1.87	3.11	1.67	1.96	.772	3.48	2.59	7.24
409	-.65	1.37	-.46	2.92	-.195	2.83	1.35	5.15
410	-1.98	2.64	1.37	2.06	-.468	3.44	2.04	6.78
411	-.97	1.01	-.96	1.43	.496	1.77	1.26	3.24
412	.28	3.36	.14	1.13	-.503	2.77	1.93	6.40
413	-1.89	1.80	.24	1.35	.243	2.48	1.45	5.18
414	-1.40	1.17	.44	2.05	.327	2.48	.93	3.61
415	-.15	.82	.88	2.40	-.031	1.90	1.78	4.85
416	1.30	2.45	-.04	1.20	.143	2.65	1.10	4.01
417	-.46	3.60	-.55	2.13	.146	3.67	1.53	5.46
418	.88	.58	-.34	3.15	.347	2.77	1.53	4.63

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

419	-.99	1.18
420	-.75	2.25
421	-.53	2.77
422	-1.29	1.84
423	-1.15	1.58
424	-.67	2.28
425	-2.13	2.33
426	-1.45	1.93
427	-1.69	1.44
428	.17	1.51
429	-.46	2.65
430	.76	1.39
431	-1.88	2.21
432	1.50	2.92
433	.34	2.61
434	.71	1.14
435	-1.57	2.09
436	-1.27	1.18
437	-.48	3.70
438	.18	1.85
439	.52	1.18
440	-.59	1.66
441	1.29	2.68
442	.33	1.48
443	-1.78	2.20
444	.75	2.01
445	1.57	1.30
446	.44	2.06
447	-.29	2.29
448	3.51	1.80
449	1.12	2.04
450	-.79	2.25
451	2.20	10.77
452	-2.01	3.37
453	1.42	2.57
454	-.70	1.48
455	-.13	1.76
456	.16	1.76
457	-2.38	2.43
458	-.02	2.39
459	.76	1.91
460	1.74	2.87
461	-4.69	6.67
462	.76	5.28
463	-1.41	2.04
464	-1.78	2.31
465	1.82	2.88
466	-.07	2.43
467	3.26	1.89
468	-7.34	5.68
469	1.26	2.81
470	-.73	4.31
471	.55	3.17
472	-1.04	1.35
473	-1.48	1.42
474	-.21	1.67
475	.77	2.88
476	3.87	2.35
477	-2.58	2.95
478	-.11	2.53
.04	3.21	
-.05	1.38	
-1.82	2.67	
1.16	1.33	
-.44	1.51	
-.96	2.12	
-.48	3.71	
.98	1.30	
-.27	1.83	
-.17	2.67	
-.77	1.89	
1.51	2.04	
.31	2.18	
3.48	3.75	
.35	4.11	
2.68	2.16	
-2.95	3.90	
-1.34	3.37	
-.41	2.26	
-1.34	3.45	
.61	2.16	
-.31	4.07	
-2.44	2.26	
1.34	3.32	
-.05	2.39	
.10	2.89	
3.31	2.81	
-.25	2.86	
.63	3.53	
-1.06	2.57	
1.03	2.11	
-1.26	1.34	
-1.59	1.59	
-1.04	2.69	
1.13	2.18	
.28	1.20	
1.80	2.00	
.61	3.37	
-.91	2.72	
-2.08	1.61	
.05	2.84	
-.39	2.03	
-3.12	7.31	
-.48	1.44	
-1.70	2.14	
-.91	2.20	
1.08	2.70	
-1.78	2.60	
-2.84	3.93	
-4.80	2.30	
2.49	2.54	
2.10	1.64	
.12	1.42	
-2.08	1.52	
-1.41	2.03	
1.13	1.10	
1.71	2.55	
.32	3.93	
2.50	1 28	
.76	3.88	
.475	2.96	1.62
-.102	2.41	.92
.304	3.78	1.52
.441	2.58	.92
-.521	2.27	.72
-.869	2.64	1.78
-.623	4.53	.94
-.130	2.27	1.72
.419	2.44	1.38
.408	2.41	1.64
-.531	3.01	.99
.333	2.21	1.93
-.191	3.24	1.26
-.355	4.99	3.21
-.377	4.04	2.22
.138	3.19	1.75
.089	4.77	2.45
.470	3.53	1.47
.223	3.62	2.00
-.307	3.57	1.62
.239	2.03	1.40
.422	3.70	1.97
-.177	3.71	2.26
-.607	3.14	1.99
-.024	3.14	1.66
.445	2.86	1.88
-.393	4.26	2.01
.605	3.12	1.17
-.561	3.33	2.32
-.394	4.33	1.90
-.033	2.84	1.38
-.357	2.58	1.30
.011	6.62	8.71
.162	4.39	1.44
.301	3.16	1.89
.310	1.78	.76
-.219	2.76	1.41
.344	3.14	1.83
.738	3.67	2 28
-.762	3.16	1.30
-.765	3.08	1.13
-.348	3.13	2.15
.882	8.59	6.99
-.598	4.65	2.38
.782	2.75	2.37
-.142	3.12	1.87
.791	3.97	1.54
-.314	3.40	1.68
.407	5.33	2.79
.623	9.01	5.69
.364	3.84	2.50
-.393	4.39	2.13
.434	2.83	1.77
.295	2.65	1.50
.222	2.57	1.81
-.361	1.73	1.43
-.414	3.56	2.02
.207	5.10	2.87
-.131	4.40	1.67
.029	3.91	2.07
	5.91	
	4.06	
	6.06	
	3.61	
	3.04	
	5.22	
	5.41	
	5.84	
	5.02	
	5.49	
	4.85	
	4.85	
	4.84	
	9.08	
	7.21	
	6.05	
	8.04	
	6.43	
	6.05	
	6.22	
	4.01	
	6.09	
	8.21	
	6.98	
	6.19	
	4.80	
	8.07	
	4.58	
	7.67	
	7.81	
	5.00	
	5.16	
	25.83	
	6.65	
	6.63	
	2.63	
	5.08	
	6.27	
	7.23	
	5.62	
	5.32	
	5.79	
	21.86	
	9.02	
	7.23	
	5.47	
	6.99	
	5.27	
	9.96	
	18.97	
	6.98	
	7.82	
	5.93	
	4.62	
	6.30	
	4.35	
	6.39	
	8.10	
	7.26	
	6.63	

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

479	-.03	1.44	2.64	2.03	-.448	2.97	2.00	5.01
480	.74	1.84	1.25	2.24	-.230	2.96	.81	3.98
481	-1.47	1.82	1.47	2.59	-.252	3.07	2.02	5.61
482	2.38	2.71	2.26	1.57	.188	3.84	2.28	6.60
483	-2.59	1.95	.76	1.74	.643	3.32	1.57	5.45
484	.86	2.09	-.74	2.02	-.159	2.61	1.43	4.69
485	-.12	3.06	1.19	1.99	.510	3.16	1.83	6.67
486	-.36	2.11	.86	1.78	-.237	2.67	.58	3.52
487	2.34	2.44	.52	1.70	.151	3.26	1.79	5.39
488	.72	2.72	-2.06	2.52	.242	3.56	2.12	6.02
489	-.02	2.71	.08	2.53	.135	3.20	1.36	4.82
490	1.60	2.02	.47	2.56	-.192	3.22	1.34	4.94
491	-.47	2.16	3.75	3.01	.197	4.82	1.80	8.12
492	1.74	5.09	2.64	2.92	.329	5.43	3.42	12.03
493	.56	.82	.08	2.20	-.308	1.93	1.24	3.54
494	1.50	2.30	1.85	1.63	-.163	3.43	.91	5.12
495	3.63	4.42	-7.26	5.38	-.924	8.41	6.54	19.33
496	-1.80	2.95	-.19	2.39	-.745	3.67	1.58	6.00
497	1.25	1.49	-.96	2.04	.677	2.68	.96	4.22
498	-.91	3.61	-.67	1.12	-.620	3.54	1.08	5.05
499	-1.17	2.21	.91	3.59	-.092	3.65	2.19	7.09
500	.78	4.06	2.09	3.04	.683	4.85	2.01	8.10
501	.11	2.87	.70	1.80	.374	2.91	1.48	4.91
502	-.64	3.64	1.87	5.58	.435	5.65	3.42	11.95
503	-.69	4.01	-.24	.92	-.827	3.26	2.28	6.30
504	.25	2.28	-2.29	2.20	.165	3.25	1.97	6.47
505	-.53	2.80	-1.26	1.88	-.137	3.28	1.00	4.73
506	1.40	2.06	-1.99	2.74	-.573	3.76	1.46	5.57
507	2.19	5.15	-.45	2.54	-.154	5.39	2.23	8.40
508	1.77	4.57	-.58	3.13	.849	4.13	3.85	11.68
509	-.09	1.64	1.11	3.74	.574	3.49	1.98	6.02
510	.97	1.61	.02	2.46	-.095	2.77	.92	3.68
511	-.51	2.31	-.44	.96	-.397	2.24	.97	3.35
512	1.04	1.53	-1.46	1.91	-.192	2.45	1.65	5.40
513	-1.04	1.60	-2.07	1.39	.044	2.80	1.27	4.50
514	.89	2.95	-1.76	4.71	-.417	4.57	3.32	11.61
515	-1.49	3.02	.12	2.70	-.398	3.64	1.90	6.19
516	.47	4.23	1.58	1.74	.142	4.26	1.71	6.68
517	-.13	1.11	.23	1.29	.508	1.36	.90	3.04
518	1.86	2.51	-1.17	3.07	-.332	3.83	2.07	7.33
519	-.96	1.19	1.08	2.14	-.396	2.43	1.25	4.70
520	2.06	2.27	.92	1.20	.278	2.78	1.86	5.66
521	-.06	2.33	.76	1.45	.019	2.43	1.16	4.13
522	.40	2.85	2.15	2.58	.805	3.81	1.83	6.67
523	-.89	2.45	-.68	2.07	-.037	2.30	2.36	5.86
524	-1.78	4.00	2.84	1.25	.104	4.44	2.77	10.00
525	-1.05	1.99	-.95	2.43	-.601	3.00	1.31	4.73
526	3.98	3.83	1.70	5.37	-.251	6.77	3.46	10.36
527	-.57	2.16	1.06	2.90	-.269	3.36	1.29	5.17
528	.45	1.75	-.22	3.12	.371	3.05	1.48	5.00
529	2.53	3.65	-1.28	3.87	.778	5.19	2.51	8.78
530	-2.35	3.14	-4.33	2.46	.061	5.71	2.50	8.97
531	-1.52	1.58	1.00	1.80	.060	2.81	.65	3.94
532	-1.08	3.41	-.52	2.80	.331	3.92	1.78	5.73
533	-1.91	1.29	1.13	3.13	-.211	3.71	1.04	5.05
534	.51	2.48	3.99	3.70	-.356	5.07	2.97	8.64
535	-2.94	1.59	3.64	2.99	.134	5.18	2.39	8.07
536	2.48	2.58	.75	1.66	-.233	3.79	.69	5.20
537	-3.65	2.47	-2.43	2.44	-.501	5.21	1.71	7.12
538	-.58	2.49	1.44	5.26	-.695	4.73	3.25	9.06

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

539	-2.04	3.38	.61	3.92	-.573	4.64	2.63	9.20
540	3.58	3.68	-2.18	4.24	-.512	6.28	2.44	8.79
541	.85	2.14	.75	1.79	-.514	2.32	1.73	5.05
542	3.11	4.75	2.61	2.96	.402	5.23	4.32	14.04
543	-1.74	1.29	1.49	.85	.313	2.55	.96	3.48
544	.06	1.13	1.23	2.19	.017	2.14	1.56	4.95
545	-2.36	2.00	1.02	2.77	-.826	3.25	2.65	8.85
546	-.71	1.88	-1.32	4.49	.325	4.35	2.06	7.16
547	-3.28	2.50	.47	1.55	-.282	3.65	2.44	6.36
548	.52	1.99	-.55	1.82	.606	2.37	1.18	4.25
549	.00	1.95	-2.17	1.78	-.459	2.96	1.50	5.67
550	.19	2.19	-.36	2.72	-.622	2.82	1.76	5.03
551	-4.91	4.93	.58	2.92	-.544	5.82	4.67	14.75
552	-2.30	1.38	3.06	4.50	.578	5.15	2.88	9.28
553	2.84	1.27	-.83	1.53	-.251	3.28	1.29	4.73
554	2.57	1.59	-.09	1.33	-.417	2.92	1.44	5.20
555	-1.81	4.15	-.47	2.04	-.072	4.09	2.44	8.10
556	-.49	3.81	-4.05	2.44	.713	5.67	1.55	8.75
557	-.08	1.77	-.48	1.36	-.052	1.93	.96	3.02
558	.17	2.24	.34	2.92	.307	3.26	1.15	5.40
559	1.08	2.47	.56	4.46	-.545	4.66	1.54	7.25
560	3.06	5.27	.10	1.93	.108	5.13	3.42	9.83
561	-2.73	4.72	-1.63	2.85	.949	5.33	3.02	9.23
562	-2.15	2.00	.70	1.63	-.047	2.82	1.81	5.84
563	1.95	3.81	1.45	4.29	-.783	5.38	2.45	9.46
564	1.93	2.48	2.76	2.71	.611	4.30	2.29	7.02
565	.06	1.84	-.22	1.30	-.319	1.93	.88	3.39
566	-.57	.46	.91	1.34	.247	1.46	.95	2.88
567	2.13	1.96	.18	3.74	-.477	3.79	2.52	7.99
568	.81	2.57	-5.47	3.49	.029	5.98	3.57	10.85
569	-1.35	1.93	1.99	3.73	-.336	4.28	1.73	7.27
570	-.66	2.06	.86	3.03	-.093	3.03	2.01	6.74
571	.84	1.22	3.06	1.71	.684	3.29	1.87	6.31
572	2.35	1.74	.53	1.50	-.580	3.08	.97	3.98
573	-1.58	1.26	-.59	1.38	.147	2.03	1.41	4.00
574	.60	1.83	1.05	1.54	.076	2.41	.81	3.41
575	-2.06	3.43	1.51	2.40	-.650	4.10	2.35	6.78
576	2.79	4.79	-2.30	2.83	-.372	5.05	4.06	13.42
577	-.96	3.28	-2.01	3.40	.389	4.53	2.04	6.74
578	.19	2.43	.43	4.48	-.022	4.40	1.90	8.33
579	-1.27	1.44	-2.25	1.41	.489	2.97	1.24	4.61
580	.32	2.42	-1.10	2.38	-.594	3.00	1.59	5.93
581	-1.58	2.05	-.40	2.87	-.111	3.45	1.29	5.43
582	-3.33	3.54	.10	3.65	.416	5.32	2.40	9.33
583	-2.23	2.12	-1.72	2.43	.022	3.75	1.79	6.42
584	-1.59	1.42	-1.36	1.32	-.124	2.41	1.46	3.90
585	1.49	1.31	.57	1.89	.113	2.40	1.24	4.14
586	1.55	2.26	-.91	3.73	-.634	4.22	1.43	6.94
587	.80	1.57	.58	1.16	.389	1.90	.88	3.01
588	.73	1.97	-1.12	1.15	.067	2.26	1.15	3.54
589	-1.56	3.48	-2.04	5.46	.771	5.26	4.16	11.32
590	-.15	3.55	.79	4.80	.917	4.59	3.43	11.03
591	-.07	2.08	-1.69	3.74	.113	3.56	2.62	9.00
592	-1.15	1.92	-.63	2.13	-.657	2.64	1.45	5.08
593	-.06	1.71	.93	2.32	-.331	2.49	1.44	5.06
594	.37	1.22	1.76	1.72	.090	2.31	1.41	4.28
595	-1.49	3.08	.97	2.51	.469	3.77	1.71	6.33
596	-.22	2.95	-.59	2.06	.640	2.88	1.92	5.24
597	-.19	1.40	.13	2.14	.752	2.30	.66	3.05
598	.30	3.97	-1.19	2.93	-.094	4.47	1.73	7.56

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

599	-1.95	.99	.98	2.92	-.074	3.39	1.29	5.24
600	-.64	1.63	-.90	1.18	.599	1.97	.97	3.32
601	-1.03	2.67	-.08	2.84	.016	3.67	.87	4.95
602	-.33	1.31	1.75	1.20	.123	2.21	1.06	4.02
603	-.13	1.29	-.79	2.70	-.507	2.52	1.52	5.76
604	1.53	4.01	.67	3.53	.805	4.51	2.85	10.17
605	1.08	2.67	.68	2.34	.416	3.26	1.45	6.06
606	.50	1.99	-.58	3.27	-.240	3.42	1.33	5.36
607	-.44	3.49	.92	2.31	.631	3.78	1.42	5.31
608	1.86	1.55	-1.14	2.42	.617	3.19	1.39	5.01
609	.02	2.37	-.77	1.40	.326	2.41	1.22	4.24
610	.80	2.56	-.16	2.74	-.494	3.16	1.79	4.98
611	.71	1.41	-.43	2.14	.157	2.24	1.25	3.91
612	.53	1.79	-.83	2.45	.350	2.62	1.52	4.65
613	-1.38	2.31	-.98	1.81	.820	2.96	1.30	5.02
614	.93	1.08	.10	1.66	.370	1.92	.80	3.07
615	-.32	3.70	-3.08	2.43	-.791	4.80	1.98	8.04
616	-3.98	3.22	-1.21	2.62	-.626	4.93	3.02	11.07
617	.53	1.46	-.80	2.11	.622	2.12	1.55	5.00
618	-.25	1.24	.85	2.04	-.303	2.12	1.17	3.48
619	-.91	1.29	-.20	1.63	-.353	1.86	1.13	3.07
620	.12	1.38	-1.78	2.94	-.669	3.22	1.47	5.72
621	-.33	2.16	-1.76	1.93	.132	2.88	1.57	4.97
622	3.84	1.26	1.11	1.23	-.768	4.27	.72	5.30
623	-4.43	1.97	.78	2.76	-.453	4.95	2.57	9.14
624	-2.36	2.18	2.21	3.70	.054	4.73	2.12	7.48
625	.40	1.86	.07	2.76	.086	2.90	1.22	5.05
626	-.71	1.86	.87	5.62	-.127	4.30	3.88	9.85
627	-1.94	2.04	-.35	1.82	.001	3.09	.94	4.46
628	1.68	2.51	-.29	1.12	.152	2.54	1.85	5.84
629	2.05	3.21	1.17	1.75	.647	3.62	2.14	6.65
630	.17	2.27	-.59	2.42	.562	2.67	1.77	4.93
631	-1.59	1.76	.25	1.90	-.213	2.50	1.56	4.96
632	.81	1.79	2.45	2.13	-.505	3.24	1.79	4.99
633	-.37	1.09	1.12	1.59	.294	1.81	1.23	4.24
634	-.02	1.71	-.85	6.25	.197	5.15	3.44	12.41
635	-.94	1.04	-.47	1.94	.010	2.25	.49	3.08
636	-.12	1.06	-.98	2.82	.493	2.30	2.02	6.17
637	-2.23	1.08	.34	2.19	.432	3.05	1.01	4.19
638	-1.20	2.22	1.75	1.75	-.319	2.93	1.81	6.15
639	4.64	3.05	6.96	3.36	.315	8.86	3.25	13.09
640	5.96	4.30	-9.48	5.67	-.433	11.65	6.21	21.36
641	-.97	1.91	.79	1.39	.336	2.23	1.26	4.21
642	.51	2.13	.58	1.23	-.538	2.32	.69	2.93
643	.70	2.30	1.65	1.22	.164	2.91	.80	3.94
644	3.41	2.30	1.70	2.71	.492	4.51	2.43	7.72
645	-1.50	2.29	-.13	2.42	.651	3.24	1.22	5.01
646	1.11	2.35	2.91	2.83	.167	4.14	2.20	7.78
647	-.92	5.45	.85	4.15	.258	5.67	3.35	9.87
648	2.59	2.45	-1.29	4.02	.549	5.12	1.19	6.85
649	.39	2.33	-2.67	2.46	-.432	3.64	2.11	6.16
650	.94	2.20	.37	2.00	-.620	2.57	1.52	4.38
651	-.73	2.69	2.50	1.79	-.392	3.63	1.73	5.13
652	.93	2.95	.99	2.43	-.111	3.44	1.72	6.23
653	-1.99	1.97	1.33	2.32	-.249	3.51	1.25	5.61
654	-2.19	.86	.90	2.47	.673	3.21	1.14	4.79
655	-.57	2.12	-2.10	1.72	-.338	3.04	1.47	5.24
656	-1.01	1.79	-2.64	1.39	.234	3.23	1.50	5.89
657	-3.46	3.04	1.30	3.50	-.403	5.06	2.73	8.59
658	-1.17	1.60	.26	1.59	-.055	2.30	.75	3.03

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659	1.68	3.12	.72	2.91	.173	3.72	2.44	8.48
660	-1.24	2.38	-.90	2.68	-.750	3.34	1.61	5.81
661	.43	4.75	.79	2.72	-.714	4.92	1.65	6.38
662	-1.88	4.76	.71	.81	-.360	4.37	2.38	8.26
663	-.03	1.47	1.05	2.04	-.816	2.09	1.57	5.00
664	.38	1.27	2.18	1.70	.624	2.59	1.54	4.54
665	1.60	2.47	.14	3.80	.013	4.08	2.04	7.68
666	2.90	2.76	2.49	1.47	-.289	4.46	1.91	7.83
667	-1.86	2.01	-.29	1.81	.427	2.89	1.30	5.20
668	-2.43	3.47	-.38	3.40	.612	4.40	2.83	10.04
669	-.10	1.81	3.34	2.29	.642	3.77	2.23	8.68
670	-.34	2.22	1.08	1.16	.055	2.19	1.46	4.66
671	-2.22	1.21	-.15	2.60	.210	3.27	1.22	5.21
672	-.17	1.13	.40	2.06	.266	2.02	.99	3.41
673	2.11	2.66	1.38	2.56	-.489	3.79	2.06	6.13
674	-.85	1.91	1.60	3.26	-.433	3.57	1.81	6.19
675	.67	1.49	-2.11	2.95	-.319	3.36	1.86	5.36
676	-2.33	3.35	-1.70	4.00	-.014	5.33	1.93	8.43
677	-.40	1.88	1.30	2.25	.574	2.85	1.15	5.19
678	.95	1.72	2.37	1.75	-.686	3.24	1.17	4.35
679	2.54	1.12	-1.16	3.03	.386	3.92	1.27	5.74
680	8.91	4.62	-5.36	12.78	-.941	13.83	9.36	30.51
681	.71	2.70	1.87	2.06	.473	3.23	2.00	6.27
682	-2.30	1.68	-.37	1.59	-.446	2.93	1.29	5.44
683	.19	2.16	-.34	2.80	.479	3.17	.95	4.23
684	-.32	2.36	-.15	1.70	-.097	2.35	1.47	4.31
685	.50	1.85	.61	3.64	-.785	3.72	1.12	5.31
686	.42	2.33	1.30	3.44	.305	3.99	.93	5.10
687	7.29	4.67	.87	2.82	.089	7.97	4.32	14.49
688	-5.54	5.16	-3.83	2.11	.090	7.24	4.78	15.09
689	.58	1.92	1.94	2.61	-.225	3.26	1.70	5.76
690	2.37	2.94	.25	1.55	-.013	3.47	1.90	5.88
691	1.21	1.55	.15	2.09	.083	2.61	.73	3.39
692	1.95	2.49	-4.12	4.37	-.255	5.76	3.29	8.99
693	.00	3.53	-1.26	2.09	.021	3.65	1.77	6.39
694	.20	2.26	.28	4.58	.521	4.51	1.59	7.56
695	1.65	3.35	-.01	1.63	-.070	3.37	1.94	6.18
696	2.61	3.97	-.74	2.94	-.317	4.64	2.82	9.49
697	.34	1.94	1.05	2.47	-.522	2.87	1.27	5.05
698	2.90	3.28	1.20	2.43	.856	3.95	3.16	9.50
699	.13	2.88	1.99	1.37	.653	3.26	1.57	6.04
700	4.72	5.82	-4.33	1.55	-.641	7.15	4.96	16.21
701	1.52	2.90	4.65	3.72	-.299	5.74	3.43	11.12
702	6.27	2.60	-.91	3.93	.181	7.26	2.74	10.80
703	-1.22	2.62	-.27	3.89	-.452	4.14	1.97	6.54
704	5.06	2.87	1.61	2.35	.186	5.68	3.00	10.01
705	2.87	3.07	1.45	2.46	-.104	4.40	2.23	8.23
706	.25	2.69	-.05	1.91	-.466	2.66	1.64	5.47
707	.44	1.94	-.92	1.88	-.842	2.45	1.24	4.22
708	2.03	2.07	-.83	1.47	-.295	2.72	1.85	5.47
709	-2.04	2.42	3.86	1.96	-.248	4.92	1.92	6.95
710	-.78	1.95	3.54	4.12	.270	4.94	2.78	9.27
711	.42	3.46	-.02	4.36	-.454	4.51	2.73	7.82
712	5.17	4.63	-1.53	5.40	.308	7.71	3.90	15.54
713	2.95	2.37	1.41	1.70	.045	3.76	2.12	7.28
714	1.99	1.35	-1.47	1.84	-.745	2.85	1.70	4.95
715	-1.16	4.35	2.01	.71	-.353	4.08	2.51	8.58
716	1.68	3.58	.44	1.45	.695	3.51	2.03	7.13
717	.42	1.26	2.60	3.58	-.859	3.90	2.17	7.11
718	.41	2.23	2.30	1.30	.895	3.24	.90	4.42

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719	-.95	2.91	1.93	1.55	-.354	3.37	1.74	5.86
720	1.18	1.66	-.37	2.41	-.122	2.60	1.58	5.75
721	.02	2.21	.19	2.46	.401	2.59	1.78	5.15
722	4.36	1.48	2.46	3.13	-.179	5.78	1.52	7.48
723	1.30	3.21	4.31	3.01	.748	5.48	2.82	9.83
724	2.87	2.07	-3.24	3.88	.255	5.50	2.44	9.86
725	-1.86	1.60	-1.99	4.05	-.795	4.43	2.18	8.44
726	.24	5.95	-4.70	2.68	.715	7.20	2.83	11.41
727	1.19	1.66	2.36	2.55	.374	3.50	1.76	6.36
728	2.25	1.68	-.60	1.60	.257	2.91	1.36	5.22
729	2.34	2.52	.95	2.22	.290	3.33	2.41	7.21
730	1.53	1.68	-1.22	1.73	.350	2.79	1.08	4.06
731	-6.18	1.69	-9.69	4.48	.366	11.69	4.18	17.40
732	-5.20	3.91	1.98	5.41	.558	7.52	3.83	11.64
733	-1.82	1.42	-1.45	2.66	.383	3.48	1.14	5.06
734	2.33	3.15	.59	4.99	.135	5.37	2.80	9.70
735	-2.43	3.91	.12	2.03	.811	4.33	2.11	7.83
736	.04	1.93	.42	1.55	-.057	2.12	1.03	3.44
737	-.75	1.86	-.18	2.16	.421	2.43	1.40	4.31
738	-1.88	3.09	.07	1.91	-.136	3.29	2.16	7.01
739	-.38	1.83	.49	1.82	-.707	2.23	1.13	3.65
740	-.36	3.06	1.24	2.31	.273	3.37	1.85	6.38
741	1.11	1.73	-.32	2.49	-.115	2.79	1.29	4.44
742	1.28	2.36	1.77	2.16	-.060	3.33	1.68	5.81
743	-2.30	2.02	2.46	2.62	-.104	4.03	2.29	7.44
744	-.25	2.32	-1.92	2.04	.668	3.25	1.26	5.32
745	-1.65	2.94	-.13	3.40	.721	4.15	1.83	7.92
746	1.68	3.03	.81	2.74	.062	3.82	1.93	6.67
747	7.64	2.80	-2.98	5.80	-.721	9.49	3.84	13.78
748	1.61	1.87	-2.35	2.90	-.547	3.50	2.67	8.50
749	8.68	5.38	-8.11	10.19	-.504	13.12	9.82	28.29
750	-12.44	8.85	1.57	8.65	-.415	14.77	9.06	29.12
751	.62	1.42	-.39	2.64	.010	2.65	1.20	4.20
752	-2.45	5.46	-3.21	1.90	-.263	6.44	2.02	10.31
753	-1.62	1.30	1.49	2.13	.290	3.12	.73	4.03
754	-1.22	.91	-.09	1.76	.827	1.82	1.35	4.43
755	-.04	2.48	1.33	4.07	.194	4.14	2.19	7.73
756	-1.18	3.03	-.73	5.43	.843	4.88	3.62	11.14
757	3.07	4.09	-1.14	3.18	-.210	5.06	3.06	11.11
758	2.50	2.34	.93	2.46	.680	3.93	1.36	5.01
759	.70	7.56	-2.90	6.11	.429	8.93	3.45	15.75
760	.38	1.91	7.98	5.46	.579	8.13	5.56	16.48
761	-2.86	2.27	-1.72	5.58	.242	5.70	3.37	11.25
762	2.72	4.25	.99	5.39	.481	6.29	3.27	11.80
763	-1.59	1.77	-1.38	1.68	-.310	2.97	.92	4.14
764	.13	1.50	-1.32	1.21	-.034	2.11	.76	3.13
765	.25	1.99	.00	1.76	.605	2.18	1.26	4.63
766	.24	3.24	.51	.92	-.385	2.76	1.68	5.62
767	-.33	3.82	-.04	2.71	-.147	3.73	2.42	6.54
768	.72	3.01	-.82	1.95	.067	3.22	1.47	5.26
769	1.13	2.42	1.88	4.31	.243	4.26	2.97	9.74
770	-.49	4.82	2.72	2.28	-.297	4.64	3.50	9.18
771	-.76	1.72	-3.31	3.39	.706	4.22	2.68	7.64
772	-.44	.99	-2.15	3.39	-.201	3.45	2.04	7.17
773	-.17	2.12	-1.72	1.92	-.262	3.05	.90	4.09
774	.58	1.91	1.10	3.04	.546	2.98	2.09	6.66
775	4.97	3.42	-3.96	5.79	-.278	8.18	3.76	14.00
776	2.27	5.26	4.32	3.46	.678	6.54	4.19	11.64
777	3.94	3.89	-9.35	3.60	-.501	10.62	4.07	16.50
778	-3.81	2.84	-13.37	6.45	-.417	14.30	6.04	25.13

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779	-.39	4.81	2.56	2.47	-.126	4.94	2.93	8.02
780	2.28	3.98	.85	1.01	-.832	4.01	2.25	8.09
781	-.63	1.40	-.56	2.57	.343	2.40	1.64	4.75
782	-3.32	6.00	-.87	2.71	.746	5.71	4.36	12.01
783	-1.88	2.62	-.71	1.40	.410	2.91	1.90	6.55
784	3.02	2.70	2.26	3.26	.062	4.79	2.80	7.58
785	2.24	2.64	-2.07	2.42	-.163	3.81	2.60	8.48
786	2.59	2.87	-.48	3.29	.420	4.34	2.26	6.56
787	-.53	2.35	2.62	1.89	.073	3.60	1.51	5.36
788	2.26	2.23	-.61	2.61	.701	3.74	1.38	5.93
789	1.34	1.62	1.70	.79	.639	2.56	1.05	4.25
790	4.43	2.63	2.85	3.34	.864	5.78	3.40	9.89
791	-4.72	2.73	2.26	3.67	.042	6.33	2.49	8.56
792	-1.01	1.20	.28	2.26	.452	2.18	1.52	4.46
793	-2.97	1.84	-1.12	2.31	.613	3.74	2.02	7.83
794	-.02	1.54	.96	2.38	-.520	2.50	1.36	4.59
795	-.31	3.18	1.93	2.51	-.085	3.75	2.12	6.22
796	-.39	2.48	.83	2.84	.162	3.36	1.44	5.40
797	2.16	2.07	-1.30	1.50	.686	3.29	1.12	4.68
798	-.63	2.05	-1.73	2.49	.351	3.12	1.73	5.76
799	.93	2.94	-2.56	1.81	.697	4.02	1.32	5.10
800	-.71	3.34	.41	1.65	.152	3.20	1.66	5.23
801	1.04	2.43	-1.24	2.00	.579	3.19	1.03	5.04
802	3.51	2.72	-.18	2.39	-.492	4.07	2.86	8.04
803	.76	4.64	.79	3.26	.748	4.41	3.31	9.67
804	3.61	6.03	.95	4.16	.869	6.66	4.25	15.39
805	-1.15	2.34	1.73	2.08	.362	3.31	1.43	5.18
806	3.78	2.47	2.15	3.91	.174	5.68	2.42	9.43
807	-4.34	3.00	-3.25	2.06	.245	5.86	2.74	9.23
808	-4.18	2.07	-1.94	1.58	-.050	4.94	1.76	7.63
809	.50	1.82	.57	2.46	.734	2.42	1.78	5.67
810	1.27	3.52	-.66	2.53	.695	3.45	2.70	7.98
811	-2.76	1.53	.86	1.87	.050	3.45	1.32	5.37
812	-.17	.96	-1.95	2.05	-.685	2.37	1.74	5.54
813	-.53	2.75	1.10	2.97	-.051	3.51	1.93	6.11
814	4.23	1.61	.68	2.99	-.593	5.15	1.41	7.10
815	1.25	2.16	1.06	1.94	-.101	2.79	1.57	5.00
816	3.85	3.49	2.24	3.19	.127	5.58	3.01	10.09
817	.52	1.89	1.01	.93	-.021	2.17	.69	3.42
818	1.41	4.24	1.24	3.37	.424	4.45	3.21	10.27
819	-1.23	2.41	.33	1.05	.209	2.28	1.65	4.64
820	-.91	1.60	.42	1.14	.836	1.86	1.00	3.34
821	.87	2.53	3.26	1.54	.299	4.14	1.44	7.06
822	-2.44	4.18	-1.41	3.19	.785	5.29	2.05	8.71
823	.62	1.54	.42	3.00	.427	3.03	1.14	4.03
824	1.85	1.04	-.85	1.90	-.266	2.72	.94	4.30
825	-.15	3.07	.37	1.93	.263	3.09	1.48	4.47
826	.55	2.18	.34	2.00	-.435	2.72	.79	3.92
827	-.77	1.39	.73	3.02	.322	3.01	1.35	5.22
828	2.14	2.98	.63	1.87	-.214	3.36	2.24	7.01
829	3.67	5.07	-.34	2.98	-.712	5.78	3.39	12.03
830	.40	2.44	5.71	4.12	-.400	6.35	3.75	10.94
831	-5.32	2.09	-.18	2.37	.323	5.80	1.94	8.19
832	-1.73	1.51	1.37	1.90	-.277	2.72	1.73	5.05
833	-3.03	2.11	.05	2.43	.315	3.84	1.97	7.21
834	-1.05	2.09	.77	1.84	.009	2.72	1.05	4.11
835	-8.99	9.47	12.17	11.74	-.073	18.82	9.02	27.68
836	10.70	9.60	1.64	2.72	.124	12.72	6.90	21.99
837	-2.16	1.25	.45	1.21	-.077	2.48	1.23	4.80
838	.63	.79	.92	1.44	.223	1.46	1.28	4.02

SANTA MONICA 6HR WIND CHANGE 3-9 KM SUMMER

839	.32	2.83	-2.67	5.39	.238	5.77	2.58	9.58
840	1.17	1.58	-3.14	2.74	.213	3.78	2.53	7.57
841	-1.77	3.02	.54	3.56	.833	4.48	1.57	6.01
842	-.37	2.65	2.06	2.05	-.145	3.57	1.23	5.46
843	-.37	2.44	3.50	3.26	.445	4.48	2.75	8.25
844	2.02	2.63	2.93	2.69	.451	4.66	1.89	7.88
845	1.70	1.80	5.10	2.62	-.033	5.63	2.63	8.83
846	-1.26	1.74	.95	3.01	-.569	3.27	1.60	5.90
847	9.56	3.87	-9.33	7.34	-.195	14.33	6.13	21.02
848	1.71	1.10	-9.98	8.19	.301	10.28	8.04	27.65
849	1.44	2.91	3.34	2.51	-.270	4.59	2.38	7.76
850	2.57	1.20	4.64	1.71	.292	5.41	1.75	8.59
851	-2.21	2.18	.51	1.25	.281	2.90	1.58	5.22
852	-.10	1.84	-.40	1.55	.509	2.01	1.14	3.14
853	.82	1.61	.81	1.86	-.039	2.38	.98	3.67
854	2.03	2.00	-2.38	2.87	-.820	4.13	1.94	7.02
855	-1.20	1.65	2.84	1.92	.255	3.57	1.64	5.74
856	.64	3.16	-.13	3.90	-.388	4.60	.99	6.50
857	2.50	3.53	-3.73	3.32	.361	5.99	2.27	10.45
858	-.20	1.66	-2.00	3.34	.348	3.80	1.37	6.16
859	3.39	2.49	2.05	1.74	.256	4.51	1.95	6.84
860	-1.31	1.21	-1.24	2.86	.145	3.15	1.38	5.24
861	.66	2.58	.83	1.25	.469	2.39	1.69	5.70
862	1.02	1.98	-1.19	3.07	.694	3.21	2.05	7.24
863	-1.62	2.88	1.67	2.32	-.014	3.50	2.39	7.53
864	3.77	5.39	3.34	2.42	-.635	6.74	3.39	13.00
865	-1.11	2.91	.74	1.36	-.367	3.02	1.32	4.47
866	-.39	2.39	-.30	2.67	-.485	3.02	1.56	5.81
867	3.26	3.55	-2.19	2.73	-.546	4.60	3.66	10.12
868	-1.25	3.29	-4.23	2.25	.723	5.00	3.07	9.02
869	.11	2.19	3.20	1.40	.878	3.76	1.50	5.81
870	1.23	1.65	.88	2.27	.249	2.76	1.29	4.97
871	-3.13	3.00	-4.20	3.16	-.238	6.20	2.48	8.97
872	-1.62	2.87	1.18	4.00	.455	4.09	3.08	7.62
873	-1.32	3.68	-2.58	5.17	.491	5.55	3.76	13.35
874	-1.38	3.90	-1.85	4.36	-.604	4.84	3.61	12.09
875	-4.16	3.48	2.71	3.11	-.864	5.86	3.22	9.81
876	2.16	3.93	-4.18	4.67	-.758	5.81	4.88	13.90
877	.35	3.32	2.02	2.79	.259	4.11	1.99	6.33
878	2.44	4.51	2.87	3.35	-.473	6.05	2.34	10.69
879	.90	3.28	2.21	1.52	.087	3.46	2.40	8.08
880	.64	4.72	-.03	1.78	-.953	4.25	2.21	6.96

MEAN DU(M/S)= .03
MEAN DV(M/S)= -.01
SD DU(M/S)= 3.35
SD DV(M/S)= 3.49
R(DU,DV)= .05
MEAN W(M/S)= 3.92
SD W(M/S)= 2.83
SD MEAN(M/S)= 1.79
MEAN MAXW(M/S)= 7.10
SD MAXW(M/S) 3.58

SANTA MONICA 6HR WIND CHANGE 9-16 KM SUMMER

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	1.10	3.04	-1.55	3.90	.763	4.84	1.37	6.77
2	-7.18	3.73	-2.24	2.15	.713	7.66	4.01	13.27
3	-.46	3.17	2.64	3.54	.067	4.70	2.37	8.78
4	2.55	5.22	.45	6.25	.495	7.14	3.96	15.21
5	-2.39	11.45	4.75	9.93	.995	14.42	4.94	20.36
6	-2.72	4.38	-3.18	3.08	.882	4.83	4.70	12.00
7	2.83	2.89	3.26	2.86	.403	4.87	3.26	10.16
8	2.75	1.93	-2.02	2.07	-.201	3.86	2.08	6.56
9	-1.75	1.78	2.12	3.22	-.448	3.88	2.22	8.50
10	.50	3.23	2.02	4.70	.555	4.58	3.68	13.26
11	.66	5.82	.77	2.89	.758	5.21	3.51	13.28
12	-.25	4.37	.04	2.53	.062	4.36	1.97	8.21
13	-.79	3.19	2.63	2.53	-.329	4.03	2.57	8.85
14	1.05	2.74	-.40	2.03	.514	2.81	2.01	6.00
15	.04	3.42	.17	4.48	.703	4.83	2.28	8.35
16	4.50	2.05	3.14	3.04	.191	6.07	2.40	9.01
17	.43	2.16	.38	2.08	-.453	2.66	1.15	4.39
18	.77	2.72	1.75	2.73	.002	3.54	2.17	7.13
19	.30	2.77	.17	3.63	.097	3.95	1.77	6.23
20	-.15	2.07	-2.14	2.74	.228	3.44	1.88	6.87
21	-3.14	1.79	.72	1.36	-.054	3.46	1.80	6.67
22	-1.53	2.63	-.91	1.88	-.391	3.20	1.54	5.40
23	4.32	3.84	.48	2.65	.512	5.42	3.14	12.18
24	1.71	2.42	.30	2.60	-.045	3.36	1.78	5.87
25	-2.39	1.56	.27	1.76	.172	2.83	1.73	5.28
26	.00	1.70	-3.05	2.89	.474	3.92	2.07	7.88
27	1.20	2.83	-.86	3.94	-.467	4.22	2.40	7.84
28	3.04	2.64	-2.33	1.77	.160	4.43	2.10	8.89
29	-4.70	5.03	.81	2.95	-.046	6.64	3.09	10.36
30	-4.07	5.85	-3.74	3.98	.808	7.30	4.90	14.52
31	.24	2.49	-2.00	3.67	-.058	3.82	2.75	8.24
32	2.12	2.07	7.38	6.19	.347	8.11	5.90	16.35
33	-4.42	3.30	2.21	6.86	-.303	8.05	3.45	13.15
34	.93	3.59	6.88	4.15	.503	7.75	4.07	14.24
35	-2.74	4.32	2.81	3.26	-.119	5.56	3.40	11.04
36	1.44	2.77	2.05	4.53	.040	5.11	2.35	9.13
37	-1.87	3.17	2.99	3.65	-.450	4.96	3.09	8.21
38	-1.36	2.58	.13	1.56	-.371	2.72	1.66	5.24
39	-.28	2.70	2.50	3.28	.229	4.14	2.41	8.29
40	3.09	1.49	.60	3.26	-.049	4.30	1.74	6.16
41	-.25	2.80	3.85	3.89	-.156	5.35	2.68	9.04
42	.14	3.41	.49	4.44	.484	4.75	2.44	8.60
43	3.40	6.60	3.27	4.52	.652	6.95	5.85	17.13
44	8.12	4.94	1.22	2.11	.532	8.42	4.98	18.40
45	-1.12	1.17	-1.44	3.32	.120	3.19	2.14	6.79
46	-4.82	3.06	-1.69	3.25	.796	6.19	2.41	10.84
47	1.04	2.01	1.11	2.86	.291	3.31	1.55	5.64
48	.72	4.02	.36	1.70	-.138	3.63	2.17	8.16
49	4.22	2.14	-.60	1.63	-.467	4.48	2.25	7.25
50	-.62	2.21	5.57	2.64	-.355	6.09	2.32	8.34
51	-1.86	3.31	2.44	3.28	.726	4.59	2.89	9.30
52	-2.77	4.43	3.92	4.95	-.838	7.40	2.80	10.43
53	-3.18	2.91	-1.15	2.64	-.233	4.37	2.57	7.97
54	-6.27	3.95	-2.33	1.25	.069	7.12	3.20	12.30
55	-.05	8.03	-3.75	5.93	.924	9.64	3.12	13.86
56	.28	3.40	1.87	4.18	.411	5.04	2.01	7.93
57	3.67	4.46	3.29	4.08	-.044	6.37	4.23	14.00
58	-2.71	6.51	-2.12	4.21	.830	6.84	4.48	13.24

SANTA MONICA 6HR WIND CHANGE 9-16 KM SUMMER

59	-2.63	2.43	-1.56	1.64	-.205	3.76	1.77	6.29
60	-1.54	2.14	-.97	1.70	.177	2.84	1.42	5.39
61	1.24	2.11	-.51	1.65	.354	2.64	1.12	4.18
62	2.33	5.49	-1.35	2.22	.206	5.30	3.35	11.23
63	-.27	2.71	.54	3.08	.311	3.38	2.05	7.17
64	2.70	2.63	1.47	2.66	-.124	4.02	2.51	7.25
65	-.06	2.13	-1.04	2.67	.645	2.88	1.86	6.17
66	-.82	1.75	-.12	1.81	.693	2.31	1.02	4.02
67	-2.70	3.45	1.22	2.20	-.262	4.31	2.35	7.60
68	-.74	2.58	.59	3.12	-.284	3.63	1.55	5.75
69	-2.00	3.67	-4.70	1.57	.259	6.03	2.03	8.96
70	.34	2.61	.19	2.08	.679	2.65	1.81	7.01
71	.56	5.20	3.22	1.92	.614	5.51	2.86	11.23
72	.46	3.44	2.23	1.93	.185	4.11	1.51	6.11
73	-1.29	3.13	.88	1.73	.732	3.31	1.75	6.05
74	3.18	5.40	-.94	1.75	-.011	5.07	3.92	12.85
75	-6.39	3.32	-14.53	9.23	.747	16.09	9.40	27.88
76	-.46	2.36	-4.86	4.65	-.048	6.11	3.45	12.36
77	-.39	3.82	2.53	3.51	-.409	4.51	3.33	9.97
78	3.96	2.65	-.06	2.66	-.512	4.85	2.29	7.65
79	-2.34	4.07	-1.56	2.68	-.246	4.23	3.52	11.05
80	.02	2.38	1.06	3.93	.043	4.21	1.47	6.01
81	.66	1.97	2.16	2.36	.433	3.01	2.21	7.27
82	.65	2.33	1.48	1.69	.311	2.58	1.90	6.97
83	-1.58	3.58	2.28	1.58	.792	4.17	2.05	7.41
84	3.82	3.22	-1.15	2.01	-.476	4.72	2.67	8.48
85	-1.91	1.52	-2.53	2.63	.966	3.79	2.07	8.07
86	-.96	2.35	1.42	1.63	.252	2.89	1.42	4.51
87	-4.43	2.24	-1.43	2.24	-.427	5.24	1.83	8.04
88	1.25	3.46	-5.87	5.36	-.138	7.10	4.92	15.09
89	-.33	2.98	1.58	2.88	-.458	3.83	1.84	6.28
90	-1.03	1.57	.52	2.23	-.328	2.37	1.59	5.82
91	-.12	2.97	.73	1.93	-.151	3.22	1.15	4.79
92	2.43	2.88	.14	3.65	.562	4.69	1.80	7.06
93	-1.28	3.07	1.99	3.78	-.102	4.74	2.10	8.13
94	2.82	2.40	.31	2.48	.247	4.01	1.63	6.56
95	-2.17	1.41	-.66	2.44	-.060	3.27	1.25	4.93
96	1.81	2.75	2.75	3.61	.332	4.55	3.05	11.08
97	-.70	2.25	2.44	4.02	-.041	4.28	2.75	8.29
98	-1.57	2.03	1.55	1.81	-.039	3.17	1.21	5.13
99	.88	1.94	-.08	1.87	.374	2.35	1.35	5.01
100	2.80	2.15	-3.84	4.51	-.629	5.81	3.48	9.88
101	1.92	2.28	-.31	1.02	-.673	2.58	1.70	5.04
102	.29	2.49	.36	2.77	-.102	3.34	1.16	5.24
103	-.03	2.39	-1.72	2.55	.247	3.61	.85	5.13
104	-.19	3.49	-3.30	5.32	.805	5.55	4.22	11.55
105	1.51	1.40	3.35	2.80	-.555	4.34	1.93	6.84
106	-1.95	3.91	-.36	2.83	.849	3.87	3.28	10.51
107	.58	2.29	.02	1.79	.105	2.45	1.39	4.83
108	.00	2.17	.25	2.32	.158	2.55	1.65	5.71
109	5.57	2.10	4.32	3.01	.336	7.49	2.50	11.18
110	10.16	5.46	2.27	3.28	-.186	10.95	5.23	17.48
111	3.55	4.50	-3.60	6.75	.457	8.87	2.28	11.92
112	-.29	5.24	-5.32	5.70	.204	8.06	4.27	15.72
113	-3.91	5.61	-.25	2.19	.463	5.92	3.72	12.59
114	.53	2.26	-1.49	3.66	-.082	3.75	2.30	7.37
115	3.09	2.81	2.61	.67	-.483	4.58	1.78	8.01
116	.99	1.42	.77	2.57	.588	2.64	1.57	5.82
117	.86	3.40	.63	4.27	.102	4.53	2.76	10.02
118	-.92	2.38	-1.25	2.42	.011	3.16	1.70	6.41

SANTA MONICA 6HR WIND CHANGE 9-16 KM SUMMER

119	-1.90	2.21	-2.91	.95	.137	3.96	1.30	6.01
120	-2.44	1.62	-.87	2.29	-.280	3.39	1.56	5.94
121	-2.03	4.05	-4.16	2.44	.198	5.63	3.27	9.48
122	-.23	3.49	-4.65	4.10	.311	6.14	3.27	13.21
123	2.31	2.02	-1.55	5.00	-.495	4.44	3.93	12.99
124	2.49	2.63	3.51	6.87	-.217	7.04	4.32	16.95
125	-3.39	3.39	-.84	5.51	-.671	6.11	3.62	11.30
126	.70	2.23	-7.26	5.26	-.627	7.56	5.30	15.60
127	1.51	2.38	1.84	1.90	.448	3.58	1.03	5.30
128	1.55	1.12	2.50	3.76	.832	3.19	3.70	11.22
129	-.47	4.06	-7.61	8.02	.505	9.08	7.28	21.85
130	3.43	5.13	1.76	3.69	-.359	6.71	2.35	9.19
131	-.44	2.17	-.24	2.86	.279	2.97	1.77	6.14
132	2.06	1.44	-.30	.84	.067	2.27	1.35	4.05
133	-.82	2.33	1.58	1.38	.380	2.85	1.30	4.90
134	.37	3.14	3.34	1.41	-.325	4.57	.99	5.37
135	-.80	1.57	.48	2.52	.042	2.67	1.30	5.68
136	1.51	1.77	.24	2.38	-.630	3.05	.91	4.17
137	-1.19	2.56	-.21	2.06	.091	3.05	1.36	5.28
138	-1.51	1.54	1.80	3.56	-.735	3.20	3.10	9.71
139	-.98	2.59	.52	2.60	-.613	3.15	1.87	6.45
140	2.44	2.38	1.98	2.82	.651	3.95	2.66	8.40
141	.16	2.99	-2.45	2.42	.415	3.56	2.68	7.34
142	-.59	2.15	.92	3.36	.560	3.60	1.55	6.92
143	-.74	1.60	3.31	2.31	-.584	3.62	2.45	8.25
144	2.82	2.82	1.91	2.94	-.255	4.68	2.19	8.34
145	-2.67	2.48	-4.28	1.53	.012	5.49	1.77	8.43
146	-4.51	4.16	-8.86	6.40	.658	10.46	6.79	19.87
147	-1.27	3.30	-3.75	3.19	-.520	5.43	2.29	8.82
148	.20	4.26	4.08	2.99	.288	5.63	3.16	10.57
149	-.36	1.47	-.12	1.09	.167	1.54	.90	3.00
150	.80	2.26	-2.07	2.03	-.148	3.34	1.45	5.36
151	-1.14	3.30	1.80	2.06	-.052	3.83	1.89	7.10
152	1.50	1.62	1.75	2.34	-.580	3.38	1.04	5.05
153	-2.96	1.91	-4.27	6.81	-.640	8.12	2.33	11.37
154	-.26	2.49	-.95	2.30	.315	2.89	1.76	6.00
155	-.70	3.69	-5.61	4.23	.860	6.96	3.57	11.96
156	13.80	7.56	8.57	8.60	.558	17.06	10.00	28.90
157	-2.59	4.48	-.83	2.89	.360	4.84	3.18	11.98
158	-.60	5.98	-.78	5.17	-.302	6.08	4.62	14.14
159	-1.83	2.26	2.43	.85	-.344	3.66	1.04	5.76
160	1.31	2.23	3.32	2.22	-.008	4.30	1.81	6.19
161	-.02	2.40	-1.84	2.24	-.145	3.09	1.93	6.50
162	.13	1.72	-2.38	2.51	-.172	3.15	2.11	6.56
163	1.48	2.92	.39	1.96	-.838	3.14	1.95	6.43
164	.43	3.30	-.07	1.59	.162	3.16	1.49	6.07
165	-1.62	4.43	-2.80	2.00	.338	5.16	2.28	8.93
166	-2.16	2.90	-2.32	3.40	.415	4.68	2.54	9.40
167	-.15	1.04	3.12	1.51	-.544	3.27	1.52	5.40
168	4.84	1.76	-.30	1.29	-.267	5.01	1.71	7.67
169	.22	3.70	2.78	4.02	-.166	5.02	3.15	11.26
170	-.90	3.67	1.67	3.21	-.582	4.48	2.22	8.20
171	2.04	3.07	.21	2.48	.675	3.47	2.58	8.59
172	2.76	3.85	-.79	2.77	.407	4.86	2.23	7.49
173	-3.60	3.71	1.45	3.89	-.039	5.98	2.27	9.03
174	-1.79	5.58	.90	4.15	.036	6.35	2.62	9.38
175	-.94	3.46	2.32	3.71	.762	4.17	3.60	12.02
176	-4.97	5.66	-1.28	2.75	.657	6.29	4.95	15.09
177	-6.64	4.25	-1.71	3.97	.782	7.56	4.73	16.12
178	-1.26	3.35	-.86	3.40	.351	4.01	2.66	9.75

SANTA MONICA 6HR WIND CHANGE 9-16 KM SUMMER

179	-2.36	5.47	.97	6.63	.206	8.03	2.75	11.72
180	-1.92	5.17	-5.08	4.45	.114	7.25	4.49	13.71
181	-1.58	2.50	3.74	2.51	.316	4.84	2.16	8.32
182	.46	2.33	2.14	2.83	-.002	3.72	1.75	6.78
183	-.56	2.30	-.78	2.68	.352	3.15	1.47	5.79
184	.63	1.29	.07	1.81	.224	1.93	1.08	3.50
185	-5.87	5.85	-2.73	3.55	.719	7.86	4.90	16.04
186	-.55	3.38	-1.92	5.18	-.280	5.48	2.93	10.64
187	-2.23	2.24	-.33	3.47	-.289	3.91	2.33	7.73
188	-1.23	3.58	-1.23	2.71	-.590	3.85	2.59	7.76
189	-2.96	3.62	2.06	2.34	.477	4.91	2.44	9.44
190	-1.41	2.61	.84	2.23	.039	3.25	1.67	6.07
191	.15	3.40	-2.23	7.22	.158	7.03	3.59	11.56
192	-2.04	3.40	.94	3.97	.132	4.83	2.52	8.78
193	-.96	3.40	.21	3.20	.066	4.29	1.36	6.27
194	.34	4.46	-3.02	4.07	.606	5.74	3.06	10.64
195	1.10	2.90	1.88	3.26	.230	3.98	2.52	7.99
196	-4.04	2.61	-6.65	4.25	.466	8.34	3.80	11.61
197	-5.11	3.59	3.32	4.21	-.432	7.44	3.13	11.01
198	.34	3.11	6.09	5.55	-.270	7.48	4.37	16.57
199	-4.23	4.06	-14.72	10.92	.703	15.77	10.95	35.57
200	-.11	4.50	-9.23	10.41	.186	12.09	7.68	22.39
201	-.95	3.87	.37	5.33	.472	5.89	2.22	9.80
202	.74	1.67	2.46	2.01	-.441	3.20	1.62	6.10
203	1.63	1.68	.44	3.35	.090	3.54	1.71	5.61
204	3.53	1.83	-.37	2.33	-.067	4.21	1.71	7.37
205	-1.82	2.65	-.43	3.69	.315	4.22	2.05	6.93
206	-1.04	2.65	3.47	1.93	-.235	4.60	1.25	6.61
207	-6.47	4.43	-11.89	8.50	.628	14.54	7.72	28.60
208	-4.56	4.70	-6.08	5.69	.384	8.93	5.41	16.21
209	-.19	2.52	.35	3.73	-.366	3.49	2.55	8.00
210	1.25	1.74	.70	2.13	-.304	2.72	1.21	4.92
211	-.52	1.30	2.26	1.95	.651	2.86	1.49	5.83
212	.50	1.21	2.18	1.02	.224	2.48	1.09	4.12
213	2.11	3.32	3.27	2.08	-.759	5.13	1.61	7.35
214	2.80	4.34	.59	3.70	-.169	5.85	1.67	8.42
215	-.93	4.43	1.49	3.79	.774	5.09	2.81	10.00
216	-.77	2.22	1.45	2.88	.342	3.56	1.36	5.11
217	-.37	1.16	.09	1.90	-.959	1.72	1.33	3.74
218	3.64	1.74	4.94	2.17	.581	6.24	2.49	9.32
219	3.22	5.69	2.45	7.45	-.927	7.87	5.98	22.39
220	-3.09	1.95	.31	2.84	-.085	3.96	2.22	7.07
221	-1.59	4.14	-.46	2.44	.373	4.12	2.61	9.22
222	-1.42	1.60	2.44	2.46	-.075	3.46	2.01	7.56
223	.47	3.19	.47	2.25	.374	3.36	1.67	7.46
224	-.95	2.88	-.98	4.16	.312	4.16	2.82	10.79
225	-.36	2.24	1.24	4.20	.015	4.41	1.53	6.60
226	1.16	3.82	3.17	3.13	-.456	5.48	1.78	7.94
227	2.40	2.53	2.19	4.30	.441	5.23	2.39	9.38
228	1.81	4.37	-3.52	3.32	.261	5.83	3.03	9.94
229	-1.10	2.81	-.74	2.37	.080	3.42	1.46	5.39
230	-1.27	1.31	.36	1.80	.048	2.10	1.38	3.62
231	-2.98	3.02	-2.91	1.81	.655	4.56	2.91	8.20
232	-1.13	3.05	-2.73	2.58	.625	4.20	2.40	8.61
233	-1.20	2.07	-.35	2.80	-.678	2.88	2.10	6.82
234	-1.76	3.21	-1.10	2.87	.708	3.82	2.61	9.99
235	.27	3.97	.46	.90	-.220	3.29	2.15	7.42
236	2.41	5.06	-.55	3.16	.368	5.14	3.52	11.51
237	-1.20	2.73	.39	2.43	.604	3.04	2.15	5.84
238	-2.46	2.21	.90	1.91	.189	3.56	1.39	5.29

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239	2.26	2.19	1.65	1.60	-.419	3.44	1.65	5.69
240	-.99	1.82	-.31	2.37	.515	2.78	1.14	4.06
241	.21	3.09	.14	3.22	.076	3.96	1.45	5.81
242	-2.19	.85	-3.81	4.02	-.154	5.50	2.07	8.34
243	-2.50	3.77	-.89	5.99	.265	6.23	3.71	13.01
244	3.40	3.39	5.44	3.85	.201	7.43	3.22	11.21
245	-.31	3.03	-1.40	2.34	.308	3.79	.80	4.71
246	-1.40	2.12	-1.99	2.97	.167	3.56	2.38	8.16
247	-.10	3.26	-.21	2.04	.119	3.19	1.82	6.57
248	1.58	2.54	-.33	2.56	-.153	3.51	1.40	5.40
249	-1.42	3.05	2.04	3.41	-.435	4.11	2.97	9.34
250	2.45	2.50	1.32	2.91	-.338	4.37	1.31	6.71
251	.30	3.00	-2.77	3.27	-.072	4.36	2.62	9.09
252	-.24	4.88	.22	2.09	.297	4.45	2.38	9.00
253	-.75	1.21	-.44	3.10	.336	2.98	1.34	5.56
254	-.05	2.21	-8.05	6.55	.473	8.40	6.42	18.74
255	.11	4.95	3.30	3.22	.707	4.88	4.49	15.19
256	-.23	2.29	1.30	1.80	-.168	2.83	1.16	4.64
257	-1.26	2.85	.83	2.51	-.281	3.68	1.25	5.41
258	.55	2.42	-1.34	2.25	-.238	3.04	1.67	5.26
259	.80	4.46	-2.01	5.14	-.699	5.61	3.96	11.74
260	1.52	3.43	1.69	2.41	.002	3.71	2.79	7.81
261	-1.70	2.65	2.47	3.18	.376	4.58	1.86	7.57
262	.69	1.95	-3.36	2.95	.801	4.52	1.62	6.05
263	-.80	2.35	1.07	2.55	.441	3.29	1.30	5.93
264	-2.63	1.81	1.80	2.58	-.427	4.16	1.31	7.09
265	3.10	4.02	-2.40	2.20	.406	5.08	3.02	10.67
266	1.26	3.63	.06	2.79	.224	3.99	2.15	7.31
267	.23	2.80	1.11	3.47	.045	4.21	1.03	6.31
268	-2.80	1.64	-3.03	3.21	.070	5.14	1.49	7.21
269	-.29	3.43	-3.48	2.95	-.388	5.14	2.06	7.61
270	.21	4.16	-3.56	1.93	.176	5.04	2.55	8.36
271	-1.45	3.02	2.10	2.86	.210	4.09	2.36	8.82
272	-1.16	2.06	.79	2.85	.177	3.30	1.49	5.64
273	-.32	3.23	3.13	2.72	-.108	4.89	1.34	6.75
274	-1.66	.96	3.35	3.93	-.512	4.97	2.03	7.88
275	-1.16	2.63	.71	1.63	.439	2.84	1.57	5.37
276	-1.27	3.26	.26	2.11	.806	3.27	2.19	6.56
277	-.66	1.96	.63	1.89	.259	2.32	1.47	4.61
278	.99	2.09	-.28	1.84	-.254	2.73	.70	3.60
279	.26	2.65	.10	2.34	.746	2.91	1.70	7.02
280	3.94	1.49	-1.20	5.74	-.735	5.84	3.95	14.53
281	-.13	4.87	3.14	3.59	-.331	5.95	2.72	9.13
282	-2.85	4.35	3.24	4.26	-.667	6.28	3.62	11.83
283	-.10	1.51	-2.17	3.12	.077	3.40	2.05	7.07
284	1.19	2.57	1.82	3.63	-.577	4.09	2.46	7.63
285	1.29	2.65	.00	1.92	.049	3.16	1.07	5.04
286	1.37	2.40	2.89	3.10	-.111	4.32	2.39	8.73
287	-3.71	3.48	1.41	2.34	-.758	4.95	2.73	8.65
288	.38	2.37	.67	2.48	.763	3.04	1.37	4.08
289	-7.34	4.73	2.10	1.51	.130	8.07	4.12	14.37
290	2.71	5.71	.96	3.07	.855	5.53	4.06	12.10
291	3.74	6.63	1.07	5.48	.424	8.44	3.12	13.50
292	11.61	5.91	-8.17	7.48	.111	15.91	5.66	20.15
293	-2.45	3.75	-1.61	2.17	-.869	4.38	2.58	9.48
294	-3.03	3.21	2.16	2.65	.583	5.03	2.03	7.41
295	1.38	4.66	2.88	2.10	-.188	5.27	2.44	9.02
296	-3.44	4.20	-1.72	3.39	-.074	5.97	2.29	10.76
297	-.21	3.48	-.33	2.31	.409	3.61	1.64	6.35
298	1.21	2.15	1.19	3.02	.278	3.47	1.81	6.02

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299	-1.73	3.68	1.92	2.17	.212	4.27	2.26	8.01
300	-1.77	2.02	1.23	2.73	.183	3.39	1.92	6.43
301	-3.43	2.83	.45	2.41	.377	4.44	2.22	7.60
302	2.69	2.66	.86	6.96	.456	6.42	4.19	12.75
303	.32	1.50	-2.47	2.60	.468	3.23	2.03	6.41
304	-.79	4.68	-.90	2.77	-.081	4.72	2.40	9.85
305	1.70	2.69	.76	4.02	.306	4.37	2.35	7.56
306	.29	2.79	-1.76	3.71	-.041	4.43	1.65	6.44
307	-2.02	2.64	-.32	1.89	.306	3.05	2.16	6.12
308	-.48	3.59	-.27	3.11	.134	3.91	2.34	7.44
309	-2.12	2.81	.07	3.36	.050	3.92	2.60	8.03
310	4.89	3.74	-1.49	4.58	-.587	6.24	4.52	15.22
311	-.43	2.55	.36	1.99	-.100	2.81	1.34	5.17
312	-1.66	1.88	.98	1.74	.819	2.77	1.41	5.32
313	-1.07	3.29	-1.73	2.19	.972	3.48	2.55	7.65
314	1.96	3.44	-1.88	3.59	-.438	4.44	3.27	8.75
315	-.96	3.06	1.36	2.33	-.204	3.47	2.05	7.44
316	.33	2.32	-.16	1.93	-.284	2.59	1.24	4.99
317	-1.04	1.94	.89	3.79	-.015	3.91	1.67	5.84
318	1.47	1.80	3.04	5.04	-.249	4.99	3.64	12.00
319	-.84	2.80	-.98	4.67	-.008	3.95	3.70	9.90
320	.54	3.45	1.03	4.28	.456	3.74	3.97	12.44
321	.31	2.88	3.33	3.77	.556	4.94	2.71	9.86
322	1.23	3.68	.05	2.71	.399	4.16	1.67	7.15
323	-2.18	2.71	2.81	3.10	.700	4.89	2.01	8.16
324	.12	1.82	-2.39	3.92	.057	3.58	3.25	11.40
325	-1.97	1.55	-1.53	1.34	.307	3.01	.97	4.41
326	-1.54	2.11	-.18	2.18	.457	2.92	1.51	5.89
327	.14	1.14	2.27	2.09	.212	3.09	.82	4.08
328	.17	3.40	.69	3.11	-.213	4.06	1.73	6.40
329	-.38	2.09	1.26	2.02	-.183	2.76	1.33	4.60
330	-.81	3.37	.13	2.01	.217	3.16	2.18	7.44
331	-.20	2.69	2.13	1.28	.015	3.34	1.18	4.80
332	2.69	2.55	-1.30	1.68	.138	3.69	1.99	6.78
333	-3.15	4.15	.21	3.93	-.472	4.99	3.94	11.42
334	-1.52	1.84	-1.93	1.73	.460	2.95	1.84	5.84
335	-2.07	1.60	1.94	.95	.072	3.13	1.22	5.16
336	1.41	1.14	-.63	1.94	-.292	2.35	1.21	4.71
337	1.06	2.05	2.59	1.55	-.011	3.39	1.54	5.47
338	1.01	1.97	-.59	1.69	-.594	2.16	1.71	5.94
339	.43	4.37	.88	2.16	.242	3.95	2.64	7.57
340	.01	1.54	-1.11	3.37	.017	3.32	1.58	5.42
341	-.89	5.96	-1.77	4.88	-.327	7.17	2.24	11.15
342	.34	3.76	-2.49	4.59	-.002	5.69	2.32	9.43
343	-.68	2.75	-1.44	3.22	-.240	3.92	1.79	6.81
344	-.80	3.66	1.14	2.67	-.305	4.24	1.46	7.37
345	1.68	2.30	.86	2.74	.556	3.42	1.87	6.57
346	3.15	4.58	.15	3.05	.253	5.46	2.73	10.06
347	-.56	3.46	.22	2.70	.061	3.73	1.93	6.80
348	-.48	2.65	1.08	2.24	-.265	3.13	1.56	5.35
349	3.72	3.30	-1.48	1.20	-.728	4.41	2.91	8.29
350	7.43	6.21	-1.43	4.12	-.711	8.87	5.58	17.35
351	-.98	2.49	1.49	2.54	.255	3.34	1.88	6.15
352	1.63	4.14	.41	2.39	.183	4.26	2.30	7.51
353	-3.44	1.84	-1.10	1.17	-.616	3.90	1.50	5.62
354	-1.51	2.97	-.08	2.53	-.381	3.74	1.38	5.57
355	.89	2.64	1.36	2.25	.291	3.32	1.57	6.01
356	-.95	2.37	-.13	3.66	.031	3.84	1.79	6.34
357	-.36	4.05	1.22	1.85	.512	3.98	1.90	6.98
358	-1.15	4.11	-.78	2.80	-.127	4.59	1.69	7.62

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359	-.73	2.26	-1.16	2.69	.267	3.26	1.53	5.87
360	-.40	1.26	2.63	2.40	.305	3.17	1.99	6.56
361	-.11	1.39	.75	1.02	.738	1.37	1.21	3.65
362	1.60	1.75	-1.80	2.20	.279	3.11	1.86	5.98
363	-1.47	1.99	.07	2.27	.779	3.00	1.14	5.01
364	-.59	1.27	2.45	1.35	.412	2.78	1.36	4.69
365	.88	1.57	.46	1.62	-.357	1.86	1.51	3.81
366	1.18	1.66	-.06	2.36	.084	2.77	1.09	4.19
367	-1.37	3.11	1.09	2.11	.105	3.62	1.63	5.70
368	-.71	2.33	-.38	3.06	-.253	3.45	1.37	5.02
369	-1.25	2.62	5.12	3.50	.029	5.77	3.57	11.22
370	2.04	4.01	-1.21	5.23	.289	5.85	3.28	9.33
371	-2.50	2.49	-.84	3.11	.035	4.23	1.83	5.77
372	.73	1.21	-.24	2.44	.011	2.41	1.20	4.44
373	-3.62	3.55	.49	1.72	-.419	4.21	3.25	10.83
374	1.40	1.28	-2.04	1.68	-.299	2.95	1.23	4.59
375	-.92	2.35	-1.46	3.69	-.136	4.03	1.99	7.10
376	1.00	2.50	-1.31	2.53	.055	3.32	1.77	5.89
377	-1.38	3.91	3.29	2.69	.335	5.44	1.82	8.53
378	.90	2.51	2.74	.97	.312	3.65	1.25	5.01
379	-1.30	2.47	-.25	5.97	.031	5.12	3.73	11.67
380	2.56	2.55	1.15	3.01	.135	3.72	2.95	7.61
381	.53	2.91	3.45	2.97	.010	4.58	2.70	9.40
382	2.82	2.44	4.36	3.14	-.192	5.96	2.47	9.50
383	-1.86	2.18	-.06	3.35	.605	3.57	2.33	8.88
384	.85	1.87	2.42	3.54	-.524	4.37	1.30	5.81
385	-.11	2.68	-.37	1.94	-.325	2.50	1.99	5.66
386	-.84	3.78	-.63	2.99	.799	3.91	2.67	9.01
387	-1.74	2.67	-.05	4.54	.547	4.84	2.10	7.18
388	1.54	2.18	.45	3.02	.376	3.38	1.93	7.01
389	-1.58	2.04	.64	4.23	.097	3.84	2.92	9.76
390	1.99	4.18	-1.17	3.00	-.641	4.76	2.58	8.77
391	.15	4.05	-.18	4.70	.466	5.29	2.57	8.50
392	.35	3.81	-2.44	3.00	-.852	4.58	2.55	9.56
393	-1.00	3.15	.06	2.77	.337	3.66	1.88	6.80
394	.20	1.97	.91	4.11	.394	3.80	2.28	7.99
395	-.96	2.30	1.37	3.27	.327	3.92	1.26	6.75
396	1.67	2.97	-.33	3.84	.579	4.33	2.33	7.12
397	-3.80	4.03	.26	3.35	-.238	5.77	2.46	11.21
398	-.88	3.56	.22	3.93	-.150	4.35	2.72	8.30
399	-6.51	6.09	4.10	2.74	-.014	8.80	4.85	17.61
400	-2.39	4.24	-3.22	4.07	-.437	6.06	3.31	10.20
401	1.54	3.46	.87	3.71	.381	4.59	2.28	7.26
402	3.70	4.53	1.92	2.27	.219	5.62	3.07	10.70
403	-.74	2.10	.52	2.20	.132	2.64	1.48	5.03
404	.39	2.62	1.99	2.44	.178	3.66	1.50	5.71
405	-.42	3.40	-1.42	2.60	-.130	3.87	1.91	6.33
406	.89	3.69	-1.85	1.93	-.258	4.16	1.51	6.99
407	.44	2.86	.34	3.15	-.371	3.71	1.64	6.21
408	.21	3.24	-.28	2.11	-.364	3.26	1.71	5.58
409	-.07	2.74	1.61	2.20	.115	3.52	1.08	5.15
410	2.78	3.54	-.26	2.89	.506	4.84	1.73	8.20
411	.31	1.46	.77	3.91	.125	3.47	2.10	6.58
412	-.42	3.25	-1.00	2.45	.041	3.71	1.48	5.94
413	-1.54	1.53	1.04	3.17	.391	3.39	1.79	7.00
414	-.91	1.52	-1.85	3.53	.280	3.41	2.52	8.10
415	.37	2.54	-1.01	2.07	-.460	2.76	1.82	6.01
416	2.65	3.87	.10	2.55	-.738	4.87	1.56	7.31
417	-2.53	2.18	-.49	1.37	-.295	3.22	1.55	5.00
418	-1.18	1.88	-.76	1.90	-.505	2.66	1.16	4.26

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419	1.55	1.19	-.96	3.96	-.289	3.55	2.55	8.57
420	.35	3.10	1.09	2.62	-.638	3.53	1.95	8.03
421	-.08	3.05	-.36	2.28	.868	2.99	2.11	7.40
422	-.81	1.28	-.37	2.23	.108	2.42	.92	3.28
423	-.50	2.17	.71	2.47	-.769	3.03	1.08	5.18
424	.28	2.96	.82	1.97	-.194	3.14	1.51	5.14
425	-2.14	2.56	1.44	1.36	-.124	3.61	1.04	5.13
426	-4.75	3.88	.44	3.52	.865	6.01	3.50	13.56
427	-3.16	2.62	-3.65	2.56	.008	5.41	2.58	8.98
428	2.66	3.19	2.26	3.08	.597	4.45	3.32	11.38
429	-.06	3.52	.98	2.23	-.819	3.59	1.92	7.27
430	2.41	2.41	-.05	2.42	.067	3.37	2.31	5.75
431	-3.96	2.40	-2.33	2.12	-.174	5.20	1.84	8.57
432	.21	2.04	-.54	4.71	.356	4.07	2.80	9.08
433	-.60	3.13	1.04	2.85	-.032	4.00	1.13	5.83
434	1.28	3.89	-.36	2.57	.146	4.11	2.11	8.33
435	-.49	2.30	-4.02	2.98	-.252	5.05	1.93	9.30
436	-.41	1.63	.98	2.12	.003	2.55	.99	3.79
437	2.36	2.37	1.00	3.12	.438	4.09	1.93	7.00
438	1.59	3.25	-.10	2.79	.338	4.15	1.25	6.29
439	1.56	3.32	-.29	3.73	-.824	4.30	2.58	9.99
440	2.00	1.60	1.72	2.16	.052	3.30	1.67	5.50
441	2.75	3.58	-.20	5.64	-.544	6.07	3.34	9.97
442	2.77	1.66	-2.99	1.89	.169	4.47	1.58	6.39
443	.10	3.08	-.05	3.43	-.265	4.06	1.58	6.72
444	-.61	3.37	.04	3.00	-.330	3.53	2.55	8.89
445	-1.30	2.42	2.46	4.85	.723	5.55	1.74	8.07
446	3.21	1.61	.25	3.99	-.549	4.70	2.25	8.31
447	1.45	3.58	-.69	4.96	-.716	5.02	3.40	9.01
448	.20	2.33	1.96	2.53	-.707	3.35	1.86	6.54
449	-1.06	3.13	1.78	2.20	-.537	4.12	.38	4.69
450	-.56	3.95	.09	4.39	-.349	4.92	2.74	10.42
451	-.58	4.71	-1.19	2.85	-.665	4.77	2.52	9.25
452	1.56	2.22	-3.61	1.63	.387	4.46	1.57	6.20
453	-.10	1.91	4.83	4.15	-.177	5.35	3.86	13.01
454	-3.63	2.87	-.78	2.34	-.594	4.53	2.45	9.34
455	-1.80	3.74	.17	4.17	-.726	4.93	2.71	8.71
456	1.41	3.53	.88	3.95	.461	5.14	1.03	6.39
457	-.79	4.11	.04	2.58	.126	4.32	1.72	6.71
458	-3.30	2.77	-6.89	3.79	-.593	8.40	2.84	12.01
459	3.20	3.21	-2.91	4.18	-.845	6.26	2.07	9.03
460	2.63	4.54	-.73	4.41	-.840	5.46	3.80	12.92
461	-4.57	7.62	-9.18	4.08	.819	11.71	6.17	21.86
462	.99	4.39	1.85	2.25	-.828	4.86	1.51	6.72
463	-1.04	2.41	-2.35	4.21	.573	4.41	2.98	8.08
464	-.35	4.00	.83	2.66	.166	4.06	2.27	6.83
465	3.29	3.30	.22	2.30	-.293	3.99	3.23	10.41
466	-2.63	1.57	-.44	3.79	-.236	4.21	2.15	8.50
467	.20	1.55	-2.11	3.86	-.635	3.40	3.03	9.96
468	-15.77	13.04	-4.74	3.42	.787	18.44	10.15	28.62
469	-1.47	4.05	3.84	2.27	.640	5.80	1.54	7.62
470	-1.24	6.05	-.34	2.96	.867	6.10	2.17	10.50
471	2.27	2.81	.31	2.91	.106	3.71	2.58	7.01
472	.74	1.92	-2.31	2.68	.085	3.56	1.75	5.83
473	-.70	2.49	-.47	2.94	-.507	3.24	1.92	5.66
474	1.37	.98	.18	3.35	-.319	3.18	1.67	7.00
475	-.22	2.63	1.02	3.72	-.619	3.99	1.95	6.39
476	2.68	2.76	-6.01	5.92	-.310	7.95	4.46	15.20
477	.05	1.39	.87	2.84	-.180	2.76	1.48	4.88
478	1.33	2.54	.28	3.10	-.609	3.52	2.00	6.01

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479	.14	3.93	1.99	2.70	-.271	4.57	1.86	7.57
480	.53	1.22	2.26	2.65	.050	3.23	1.65	6.16
481	-1.41	2.91	-.34	1.63	.149	2.87	2.04	6.00
482	-1.81	3.17	-.69	2.28	-.010	3.81	1.71	6.05
483	-.15	3.57	-2.93	6.12	-.176	6.39	3.66	11.00
484	-.32	3.33	-1.16	2.06	-.233	3.63	1.39	5.22
485	-.39	4.07	1.59	3.32	-.224	4.83	1.99	8.41
486	.95	2.43	-1.18	3.52	.169	4.11	1.27	5.71
487	-2.97	1.37	-1.70	2.28	.311	4.10	1.14	5.63
488	-.85	2.96	-.32	2.87	-.445	3.57	1.83	6.57
489	.43	3.66	2.84	3.47	-.274	5.12	2.22	8.70
490	2.18	2.49	1.86	2.40	.532	3.69	2.40	7.41
491	-2.79	3.50	4.51	1.98	.163	6.13	2.33	9.30
492	2.21	2.55	2.80	2.56	-.342	4.50	2.10	8.05
493	1.72	3.71	-1.78	2.77	.648	4.62	2.02	8.15
494	2.35	5.04	.71	4.92	.308	6.46	2.96	10.80
495	1.75	6.50	-4.18	4.90	-.734	6.92	5.93	19.33
496	.62	4.17	-3.02	4.70	-.753	5.92	3.20	10.61
497	2.09	1.67	2.57	2.32	.586	3.83	2.00	6.23
498	-1.52	4.07	.00	4.85	-.779	4.94	3.85	10.84
499	-.61	4.10	.41	5.49	-.085	5.60	3.42	9.58
500	2.26	3.94	-.84	4.51	.579	5.82	1.95	7.17
501	-1.55	3.64	3.43	3.10	.001	5.00	3.23	10.02
502	3.03	5.69	.99	6.72	-.307	7.78	4.47	16.31
503	1.08	4.83	.22	1.74	.456	4.33	2.53	8.60
504	-.06	4.61	-.83	4.97	.131	5.82	2.84	10.29
505	.19	3.74	1.28	3.78	-.045	4.66	2.31	8.77
506	-.24	2.76	1.19	3.37	-.663	4.07	1.33	6.39
507	-2.24	3.55	-1.93	2.86	.040	4.68	2.41	8.40
508	5.32	4.33	2.08	2.76	.918	6.46	4.00	11.68
509	-.26	2.10	3.81	3.94	-.203	5.07	2.70	9.59
510	.77	2.14	-5.43	3.09	.186	6.06	2.54	9.00
511	-1.19	3.05	.15	1.60	.270	3.18	1.39	5.36
512	-1.58	1.85	-1.82	2.95	.188	3.45	2.26	6.75
513	7.05	4.73	1.90	2.57	.242	7.89	4.33	13.01
514	-2.31	3.76	-2.34	4.66	-.424	5.45	3.77	11.61
515	-.77	1.60	-.45	2.14	.367	2.49	.98	3.94
516	2.27	1.29	.23	1.85	.161	2.83	1.36	4.53
517	-1.26	2.97	1.77	1.02	-.095	3.08	2.10	7.46
518	1.25	1.83	-1.54	2.78	.207	3.21	1.94	6.83
519	-3.04	1.94	.47	2.42	.684	3.90	1.74	7.13
520	-.57	1.49	1.05	1.47	-.251	2.11	.98	3.80
521	.22	2.85	-.43	3.06	.105	3.62	1.68	6.60
522	2.55	3.22	-1.35	3.35	-.515	4.33	3.12	9.82
523	-2.31	3.66	-3.20	3.52	-.173	5.68	2.59	9.75
524	.30	3.04	1.81	3.25	-.776	3.93	2.45	8.06
525	.12	3.96	-.23	3.44	-.542	4.39	2.36	8.11
526	-.02	4.00	.01	4.22	.512	5.02	2.24	9.15
527	-1.36	1.86	.73	.86	.069	2.10	1.37	4.46
528	1.20	2.18	1.71	2.54	.866	3.36	1.82	5.71
529	.26	3.37	-.26	2.82	.598	3.87	1.56	6.38
530	1.65	1.47	-6.40	2.19	-.078	6.75	2.19	9.26
531	-3.53	3.38	-.40	3.69	.044	5.28	2.77	10.34
532	-2.80	3.56	.31	3.30	.652	4.92	2.23	7.76
533	.14	4.96	1.51	5.02	.548	6.30	2.64	10.29
534	3.09	2.66	-2.81	3.69	-.218	5.53	2.39	10.50
535	-1.50	1.92	2.06	4.03	-.185	4.19	2.69	8.19
536	-.49	4.96	1.67	2.19	.176	5.00	2.09	7.73
537	-1.72	3.27	1.00	2.86	-.440	4.02	2.23	8.37
538	-1.57	2.55	-.08	3.76	-.615	3.78	2.67	8.53

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539	-1.67	2.73	-3.46	4.79	-.145	6.11	2.15	9.20
540	-.51	3.44	1.64	2.28	.079	3.71	2.17	7.80
541	1.49	3.51	.79	4.22	.081	4.51	3.17	9.35
542	-2.46	5.34	2.63	8.67	.897	9.70	3.35	16.63
543	-2.15	1.52	3.88	2.45	-.850	4.52	2.73	10.12
544	.36	1.61	1.53	2.34	-.575	2.68	1.64	5.24
545	-3.63	3.16	.51	4.00	-.490	5.25	3.14	10.55
546	.05	3.22	1.31	2.85	.244	3.90	1.75	6.01
547	-.09	3.58	1.24	1.77	.139	3.33	2.24	6.70
548	1.71	2.20	2.77	2.09	.344	4.18	1.16	6.10
549	-.41	2.56	.36	3.40	.140	3.73	1.59	5.80
550	1.50	3.04	-4.48	2.40	-.080	5.65	1.99	8.53
551	-4.87	1.78	1.26	1.83	-.195	5.29	1.83	7.44
552	-.67	2.24	4.82	3.78	.593	5.52	3.39	10.32
553	.68	4.35	-.06	1.56	-.036	3.33	3.03	9.45
554	1.01	1.23	-2.15	3.00	.267	3.38	1.98	6.46
555	.80	3.05	-.71	1.53	-.090	3.26	.89	4.34
556	2.67	3.87	-1.20	2.77	-.173	4.76	2.56	8.62
557	.08	1.55	.93	1.71	.287	2.15	1.02	4.07
558	2.54	3.91	-.96	2.33	.300	4.46	2.53	8.72
559	.65	2.58	-.40	2.77	.583	2.87	2.36	7.63
560	1.02	2.65	2.64	2.38	.418	3.80	2.31	8.29
561	-2.93	4.38	-1.55	2.82	.184	5.29	2.78	10.08
562	-1.87	1.26	-1.56	3.50	.357	3.79	2.06	8.36
563	.14	4.06	1.10	5.09	-.496	5.71	2.55	9.46
564	1.92	2.73	2.86	1.47	-.104	4.11	1.98	6.50
565	.01	1.20	1.96	2.26	-.121	2.62	1.75	4.80
566	.16	1.28	-1.84	1.89	-.104	2.47	1.45	5.39
567	-.94	2.47	-.31	3.00	.463	3.23	2.07	7.09
568	.95	1.56	2.35	2.53	-.147	3.42	1.68	5.38
569	-2.82	1.37	1.71	3.16	.180	4.39	1.51	7.27
570	1.86	2.27	.17	1.58	-.229	3.05	.99	4.62
571	-2.05	4.74	.54	3.89	-.318	5.21	3.41	12.24
572	2.42	1.91	.39	4.01	-.877	4.41	2.09	8.31
573	-1.96	2.20	1.19	3.61	-.370	3.87	2.60	7.89
574	1.23	3.22	-.91	3.90	-.659	4.45	2.37	8.93
575	-2.22	3.65	-.99	5.57	-.019	6.12	2.89	11.91
576	2.89	6.08	-2.94	6.33	-.609	8.41	3.96	14.01
577	-2.30	2.92	1.98	5.01	-.518	5.55	2.99	9.24
578	1.89	2.46	-1.09	2.91	-.156	3.80	1.86	7.04
579	1.02	3.66	-3.22	2.59	-.282	4.69	2.82	8.51
580	.67	2.59	-1.59	3.51	-.706	4.01	2.01	7.72
581	-3.35	1.68	2.54	2.35	-.625	4.49	2.34	8.45
582	-1.38	2.67	2.04	4.74	-.275	4.86	3.09	11.47
583	-.64	2.81	-2.55	2.25	.672	3.97	1.68	6.42
584	-.61	2.72	-.14	1.73	.945	2.87	1.19	4.62
585	-1.35	2.84	2.32	1.47	-.299	3.40	2.28	6.60
586	.70	2.31	1.18	2.36	-.148	3.18	1.23	5.09
587	-1.93	3.12	-4.00	5.09	.272	6.08	4.00	11.64
588	2.68	2.38	3.04	2.65	.520	4.36	3.12	8.48
589	-3.20	2.40	-1.99	3.98	.229	5.05	2.95	11.32
590	.86	2.87	1.88	2.67	.569	3.55	2.43	8.04
591	-3.45	3.52	-4.63	5.60	.410	7.32	4.54	15.45
592	-1.87	2.63	-1.22	3.97	.592	4.50	2.30	8.20
593	-.24	2.74	2.89	3.27	.243	4.13	2.88	7.79
594	.22	2.26	-1.19	3.28	.379	3.25	2.34	7.62
595	-2.79	1.88	.85	3.43	.591	4.35	1.86	7.41
596	1.27	2.22	.58	1.34	.580	2.51	1.33	5.24
597	.04	1.62	-.59	3.15	-.782	2.84	1.95	6.02
598	.79	2.40	-2.39	2.75	.626	3.73	2.16	6.34

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599	-1.15	1.42	-.93	2.52	-.166	2.53	1.88	5.24
600	-2.16	1.30	-.51	2.72	.358	3.43	1.13	5.10
601	-1.59	3.29	.43	2.77	-.273	4.08	1.60	7.21
602	-.76	2.38	.19	2.01	.057	2.61	1.61	5.68
603	-.73	2.35	1.37	3.25	-.162	3.58	2.04	6.76
604	3.12	4.32	.09	4.54	.272	6.41	1.88	8.67
605	-.20	2.75	.91	3.06	-.303	3.67	1.61	6.17
606	2.35	3.67	-2.78	1.19	.883	4.55	2.52	10.68
607	.34	2.78	.31	1.93	.144	3.01	1.15	5.38
608	2.65	4.09	-.21	2.32	.029	4.46	2.73	9.78
609	-.84	1.66	1.14	2.42	-.583	2.48	1.97	5.42
610	-1.53	3.22	-.58	1.57	-.605	3.33	1.79	5.53
611	1.39	3.09	.76	2.50	.061	3.32	2.45	7.09
612	-1.53	2.94	-.24	2.15	-.245	3.31	1.87	7.03
613	-1.01	2.56	-2.73	3.96	-.473	4.78	2.41	10.03
614	-.29	2.26	-2.23	2.14	-.191	2.77	2.59	7.07
615	-1.29	2.55	.72	4.37	.199	4.49	2.23	9.34
616	.40	2.86	-3.42	3.17	-.758	4.26	3.32	11.55
617	-.93	3.01	1.71	1.72	-.086	3.23	2.11	6.37
618	1.27	2.46	1.25	3.43	-.014	3.54	2.68	7.14
619	-1.93	3.49	-.22	3.06	.241	4.07	2.63	9.12
620	-.64	2.72	.75	2.71	-.518	3.20	2.03	7.03
621	.06	3.17	-1.09	2.15	.396	3.52	1.38	4.91
622	4.05	3.64	-.99	1.36	-.079	4.57	3.34	11.07
623	-2.22	3.34	3.21	2.91	-.477	4.89	3.12	9.14
624	-1.76	2.68	3.14	3.41	-.135	4.98	2.30	8.53
625	-1.16	2.22	1.38	1.03	.067	2.75	1.02	4.27
626	1.56	2.88	-.07	2.49	-.135	3.18	2.39	8.00
627	-2.19	2.54	-.40	1.71	-.240	3.30	1.63	7.10
628	-1.64	3.01	-.35	2.72	.600	3.58	2.24	6.50
629	-.69	1.79	1.65	2.36	.400	3.05	1.33	4.85
630	1.06	1.98	1.74	4.22	-.158	4.50	1.83	8.06
631	-1.79	4.32	-.24	3.94	-.264	5.29	2.43	9.03
632	-1.86	7.22	-.89	4.76	.822	5.80	6.41	21.01
633	-1.25	3.79	1.99	2.71	.075	4.76	1.46	6.57
634	4.04	3.82	-2.75	4.79	-.072	6.40	4.25	12.41
635	-2.18	2.20	-.19	2.61	-.828	3.39	2.00	7.37
636	-1.36	2.12	-.67	1.79	-.798	2.66	1.49	5.05
637	.00	2.25	.85	2.15	-.040	2.79	1.26	5.04
638	3.66	4.28	-1.77	3.63	-.256	5.45	4.05	11.97
639	3.35	3.88	4.70	7.02	-.206	8.29	4.88	17.58
640	3.91	3.49	-8.41	7.82	-.785	9.94	7.67	21.36
641	-.61	1.44	-.23	2.88	.008	2.88	1.17	5.39
642	.18	2.68	-1.74	2.49	.458	3.59	1.46	6.41
643	-1.05	1.51	1.43	3.09	-.251	3.08	2.14	6.74
644	.14	2.66	1.22	2.58	.175	3.28	1.77	6.36
645	2.70	2.77	3.87	2.84	.778	5.50	2.57	9.22
646	4.16	3.69	3.35	4.66	.813	5.99	5.19	18.25
647	1.55	4.73	2.27	4.80	.117	6.27	3.02	12.30
648	-1.55	3.81	-.50	2.23	.327	4.12	1.77	6.78
649	.09	2.07	1.47	3.85	-.525	3.73	2.39	8.00
650	2.22	2.80	-1.49	3.41	-.631	4.08	2.93	9.99
651	-.08	2.30	-1.48	2.44	-.615	3.22	1.37	4.88
652	-1.48	1.04	2.89	2.98	-.309	3.56	2.75	9.32
653	-2.64	2.52	2.75	2.65	.323	5.03	1.06	6.28
654	1.48	2.19	.75	4.52	.288	4.53	2.23	7.05
655	1.43	2.46	-1.89	2.60	.066	3.96	1.15	5.34
656	-.50	2.18	-2.40	3.56	.166	4.23	1.96	7.88
657	-3.60	2.97	2.91	2.54	-.286	5.36	2.63	9.07
658	-2.28	1.39	-1.31	1.92	.417	3.12	1.54	5.56

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659	.76	3.59	.26	2.41	.039	3.90	1.43	6.01
660	-.45	2.62	.11	1.88	-.557	2.79	1.32	4.57
661	-2.97	5.00	1.04	3.00	-.852	5.09	3.97	11.14
662	-3.62	4.02	-4.94	2.57	.729	7.07	2.91	12.58
663	-2.62	2.23	.80	1.45	.441	3.26	1.87	6.00
664	1.83	1.52	1.26	2.03	.622	2.67	1.98	6.23
665	1.62	3.62	.22	1.86	.453	3.85	1.64	6.36
666	2.31	1.51	-1.01	2.32	.654	3.41	1.26	5.18
667	-1.33	2.24	1.82	2.05	-.874	3.15	1.92	5.76
668	-1.13	2.18	1.05	1.62	.290	2.71	1.28	4.29
669	5.07	2.42	3.00	2.95	-.740	6.73	1.56	8.68
670	2.88	2.94	.20	2.32	.507	3.98	2.33	7.24
671	1.96	2.85	2.45	2.16	-.300	4.36	1.53	6.86
672	1.25	.84	2.74	1.41	-.275	3.18	1.22	4.66
673	2.11	2.94	.47	2.76	-.290	3.73	2.39	7.00
674	.88	2.81	1.13	4.28	-.351	4.73	1.72	7.31
675	.67	5.36	-.64	2.19	-.835	4.32	3.64	12.63
676	-.03	5.46	-2.25	2.25	-.020	5.23	3.07	10.11
677	-1.66	2.72	.86	3.06	-.668	3.67	2.32	8.47
678	-1.13	3.78	1.63	3.28	-.581	4.82	1.72	7.11
679	1.09	3.44	.88	3.25	.173	4.14	2.25	7.04
680	9.57	5.68	-12.69	12.29	-.964	17.09	11.75	30.51
681	.58	2.65	-.46	2.75	.432	3.21	1.85	6.14
682	-5.61	8.91	.39	5.54	-.965	6.85	9.62	30.44
683	-.75	7.81	-.47	2.03	-.044	6.93	3.32	11.21
684	3.57	4.22	1.61	2.95	.466	5.35	3.37	12.01
685	1.81	6.48	3.67	3.55	.137	6.78	4.60	15.07
686	.60	4.27	-2.33	4.47	-.040	5.77	2.60	9.40
687	-.93	3.90	2.98	1.72	-.612	4.54	2.38	8.55
688	-1.07	3.95	-2.28	3.58	-.386	4.99	2.70	9.36
689	1.35	2.10	2.20	1.83	-.399	3.41	1.45	5.03
690	3.27	3.66	1.28	2.12	-.464	4.85	2.27	7.06
691	.63	2.48	-1.15	2.41	-.166	3.19	1.50	5.64
692	4.31	3.96	-3.37	2.74	-.310	6.63	2.68	9.16
693	-1.28	2.87	1.66	1.39	.513	3.23	1.80	5.94
694	-2.25	3.72	-1.01	3.03	.531	4.49	2.64	8.76
695	.89	1.56	-2.75	3.61	.852	4.20	2.19	8.72
696	9.55	5.83	-.58	3.01	.495	10.10	5.57	17.63
697	.46	5.28	2.57	2.69	-.244	5.45	3.00	11.00
698	5.17	2.97	-.44	5.98	.411	7.28	3.84	13.47
699	-.20	4.12	-.40	2.92	.805	4.51	1.56	6.07
700	7.66	4.92	-5.27	3.93	-.659	9.80	5.36	16.30
701	1.01	2.88	6.20	2.08	-.543	6.85	2.03	11.12
702	.30	6.76	.17	2.36	-.330	5.59	3.97	14.20
703	6.59	5.19	1.14	3.86	.621	7.57	5.24	14.79
704	2.48	4.94	1.92	2.77	.075	5.39	3.18	10.01
705	1.88	3.00	.20	1.97	-.220	3.50	1.71	5.78
706	-9.46	10.87	.92	2.66	-.600	11.79	8.35	23.21
707	2.33	4.55	3.27	3.76	.705	5.88	3.70	12.67
708	3.14	3.75	.86	4.91	-.633	6.27	2.29	10.60
709	-1.96	4.70	4.73	4.90	-.686	6.71	4.97	15.43
710	-3.42	4.36	5.55	2.92	.866	7.94	2.01	10.16
711	3.33	3.57	3.23	5.45	.079	6.10	4.96	13.66
712	3.05	3.92	-2.04	3.73	.348	5.76	2.62	8.11
713	1.30	1.31	1.68	2.06	-.341	3.08	.47	3.66
714	2.32	2.25	.55	1.73	-.005	3.21	1.67	5.05
715	1.30	3.79	1.02	1.20	-.516	3.78	1.61	6.20
716	-.48	2.46	2.37	2.47	.542	3.53	2.14	7.14
717	2.78	2.17	1.01	3.65	.669	4.65	1.83	8.93
718	2.93	3.03	3.23	3.34	.316	4.94	3.76	10.07

SANTA MONICA 6HR WIND CHANGE 9-16 KM SUMMER

719	-.16	2.57	1.39	2.25	-.180	3.06	1.81	5.61
720	-.03	2.26	2.34	2.25	-.633	3.35	1.89	6.18
721	1.80	3.04	2.44	3.37	.870	4.52	2.79	9.00
722	2.94	1.91	.64	4.70	.633	5.18	2 32	7.48
723	.61	3.62	2.11	3.05	.712	3.98	3.14	8.23
724	.56	4.04	-.67	3.65	-.638	4.53	2.65	7.57
725	-.08	3.16	-.76	3.12	.355	3.70	2.17	6.65
726	-3.15	2.71	-2.74	2.62	.600	4.66	3.04	8.80
727	.59	2.40	3.76	3.03	-.579	5.14	1.13	6.69
728	4.04	1.59	.94	4.10	.562	5.51	2.07	8.41
729	2.12	2.90	4.09	3.63	-.146	5.29	3.72	11.28
730	6.21	3.49	2.79	4.17	.810	7.47	4.35	13.76
731	-6.64	4.29	-7.36	6.09	.631	10.40	6.64	21.05
732	-8.48	3.93	-2.58	4.48	.360	9.60	4.48	14.96
733	.35	2.55	.80	3.38	.276	3.56	2.07	7.65
734	2.17	2.42	-2.36	4.08	.156	4.87	2.66	9.23
735	-2.76	4.52	-1.82	3.30	.529	5.06	3.82	11.18
736	-1.04	2.81	.39	3.50	-.195	4.19	1.22	6.14
737	-2.00	2.92	.65	1.10	.539	3.28	1.58	6.05
738	1.76	2.32	2.56	3.71	.031	4.58	2.47	7.95
739	-1.01	1.96	.46	1.71	-.506	2.50	1.04	3.65
740	-.45	1.87	-2.39	2.57	.295	3.74	.95	4.89
741	-.22	1.08	1.49	1.67	.363	2.01	1.40	4.21
742	1.73	1.87	.30	2.08	-.350	2.91	1.27	4.47
743	.85	4.37	3.84	1.98	-.420	5.79	1.54	8.10
744	2.30	1.98	1.53	2.50	.504	3.81	1.52	7.12
745	2.13	1.79	2.21	3.24	-.225	4.37	1.62	6.84
746	1.15	2.23	-1.99	2.33	.531	3.52	1.50	5.84
747	1.57	5.32	-5.25	3.26	-.652	7.14	3.87	13.42
748	3.51	6.97	.73	3.29	-.340	6.67	4.82	15.02
749	7.79	5.28	-11.29	9.71	-.599	14.44	9.96	28.29
750	-10.16	7.32	5.01	9.15	-.515	13.99	7.77	21.72
751	-.15	3.65	-.80	3.47	-.384	4.05	2.71	8.39
752	.75	2.78	.47	3.36	-.695	3.76	1.94	7.31
753	-1.11	2.22	2.07	2.48	-.042	3.38	2.08	7.64
754	-.33	2.72	1.48	3.86	-.416	4.15	2.29	7.39
755	-1.09	2.38	1.79	2.49	-.746	3.41	1.88	6.80
756	-2.38	5.13	-3.80	4.44	.751	6.75	4.10	12.09
757	16.87	3.79	-4.32	3.91	-.338	17.69	4.32	22.64
758	-.30	3.48	.66	3.00	.156	3.81	2.28	7.38
759	-5.23	3.15	-7.17	6.04	.395	9.46	5.86	21.91
760	4.67	7.96	11.24	5.39	.446	13.64	7.01	24.57
761	-1.04	2.34	5.49	4.43	.112	6.27	3.99	14.00
762	4.35	2.16	.49	4.99	.517	6.21	2.73	11.31
763	-3.17	3.05	-3.05	4.38	-.840	6.12	2.76	10.48
764	-.73	2.09	-1.70	3.13	.277	3.67	1.66	6.33
765	1.69	2.30	.92	2.29	-.436	3.16	1.84	6.52
766	2.25	2.58	-.10	2.22	.427	3.69	1.35	5.62
767	-2.02	3.69	-.93	2.88	.381	4.74	1.38	6.58
768	-1.23	2.21	-.43	2.44	-.114	3.27	.73	4.09
769	.15	2.43	2.35	3.14	-.153	3.81	2.34	8.53
770	-1.95	2.90	-1.17	3.04	.036	3.77	2.71	8.00
771	-2.09	3.09	-7.23	6.44	.364	8.35	6.01	17.56
772	2.68	3.04	-1.10	2.15	.318	4.01	2.26	7.23
773	-.28	2.16	.14	2.05	.407	2.40	1.54	4.25
774	1.68	1.76	.41	3.23	.338	3.45	1.84	6.66
775	1.80	4.96	.26	2.45	.168	5.01	2.38	7.94
776	2.79	2.81	2.58	1.65	.814	4.12	2.78	7.94
777	-2.45	5.43	-6.91	7.68	.238	10.40	5.14	17.17
778	.33	5.32	-8.71	4.02	.587	10.29	3.18	14.01

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779	-.02	4.27	1.68	2.37	-.433	4.47	2.07	7.37
780	-.43	4.68	-.65	4.21	-.064	5.69	1.81	9.01
781	-.67	1.70	-.24	1.66	.170	2.07	1.15	4.26
782	-8.80	6.48	.51	3.13	.103	9.43	6.25	20.00
783	-4.54	1.80	-2.52	1.63	.602	5.30	2.15	7.96
784	2.30	3.02	-.68	3.27	.861	4.18	2.53	7.76
785	3.27	1.96	-1.00	2.87	-.011	4.11	2.47	8.48
786	4.88	2.10	.36	2.50	.497	5.34	2.33	8.01
787	-1.21	1.37	1.62	2.32	.162	2.94	1.42	5.36
788	1.19	1.80	3.98	2.64	-.091	4.62	2.35	9.15
789	1.89	4.44	2.49	2.25	-.448	4.77	3.15	9.44
790	3.42	2.38	4.88	4.20	.314	6.46	4.02	12.17
791	-4.44	4.03	2.35	3.06	.426	6.06	3.54	11.01
792	.15	3.14	5.74	3.95	.313	6.25	4.29	12.69
793	-.61	3.33	-1.49	2.34	.406	3.46	2.42	7.83
794	2.62	1.98	-.69	2.87	.645	4.04	1.39	5.43
795	-.26	2.34	1.02	4.60	.385	4.65	1.77	6.82
796	-1.44	1.37	.70	2.09	-.503	2.58	1.25	4.70
797	2.58	3.82	2.55	3.01	.767	5.26	2.67	9.00
798	-.86	2.80	-3.42	3.48	.368	4.87	2.66	8.70
799	-2.37	5.31	-2.97	2.17	.422	5.10	4.43	12.79
800	-1.91	3.69	-.14	2.59	.274	3.79	2.84	10.16
801	.46	3.06	1.08	1.66	.525	3.26	1.24	5.04
802	4.53	2.58	.82	3.76	-.490	5.81	2.54	9.00
803	2.32	5.61	3.35	1.72	.547	5.51	4.33	14.18
804	4.06	2.15	2.56	1.05	.422	4.91	2.12	8.02
805	-3.43	2.10	.33	2.26	-.153	4.16	1.81	7.04
806	1.33	2.28	-1.25	1.47	.434	2.81	1.47	5.53
807	-.45	2.36	-3.60	2.63	-.721	4.50	2.08	7.20
808	-1.39	2.82	-.33	3.45	.430	4.08	1.77	6.37
809	-1.37	2.50	.35	2.61	.488	3.28	1.76	5.57
810	1.31	1.30	5.36	2.41	-.600	5.83	1.86	7.57
811	-.72	2.64	.93	1.87	-.023	2.96	1.42	5.37
812	-2.60	3.37	.36	2.16	-.319	4.23	1.85	7.77
813	-1.09	3.72	.61	3.73	-.048	4.65	2.20	8.64
814	3.30	2.12	1.14	1.66	-.136	3.90	1.95	6.34
815	.85	2.89	.82	3.70	.498	4.18	1.91	6.52
816	3.11	2.83	1.44	2.70	.201	4.22	2.89	9.54
817	1.47	2.36	3.50	2.39	.708	4.01	3.06	10.08
818	5.88	4.74	1.07	4.04	.761	7.51	3.90	13.70
819	-.10	2.04	-1.50	1.80	.151	2.54	1.60	4.58
820	-1.76	1.41	-.30	2.02	.001	2.65	1.29	4.68
821	-2.64	4.36	1.17	2.84	.920	5.40	1.83	8.80
822	-2.11	1.58	-1.45	2.57	.229	3.48	1.66	6.32
823	1.72	3.42	1.52	2.27	-.109	4.02	2.10	8.45
824	2.65	1.40	-.97	1.84	.630	3.42	1.02	5.14
825	2.26	1.74	1.32	1.77	.024	3.24	1.40	5.17
826	.03	2.78	.64	1.40	-.364	2.63	1.51	5.24
827	.28	2.69	-.45	1.99	-.021	3.07	.89	4.05
828	2.96	3.09	1.78	3.97	.307	5.01	3.20	10.23
829	2.51	4.61	1.51	2.60	-.148	5.42	2.04	9.39
830	3.72	3.00	7.33	2.79	-.520	8.86	2.07	11.44
831	-3.31	3.99	3.55	4.53	.759	7.22	1.95	10.73
832	-2.10	1.99	4.61	3.00	.565	5.76	2.09	8.75
833	-3.23	1.39	-1.77	1.62	-.100	3.99	1.39	5.39
834	.68	2.52	-2.15	3.15	-.364	3.86	2.26	7.00
835	-4.87	2.56	-2.74	4.35	.091	7.01	2.23	9.48
836	-2.41	5.02	-.50	2.29	.052	5.20	2.53	9.89
837	-.66	4.00	-.56	1.66	.123	3.57	2.24	8.05
838	4.50	3.15	.84	2.08	.035	5.22	2.66	9.36

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839	-1.09	2.35	-3.64	6.35	.520	5.75	4.95	13.97
840	2.45	3.00	-1.32	2.37	.186	4.15	1.93	7.40
841	1.38	3.79	.86	1.61	.621	3.71	2.05	7.08
842	-2.18	2.42	-1.57	4.00	.267	5.08	.75	6.09
843	.01	2.24	4.83	4.36	.334	6.26	2.44	8.64
844	1.67	2.50	3.24	2.41	-.374	4.51	1.99	6.84
845	2.43	6.35	5.41	5.32	-.381	8.65	4.82	14.10
846	-4.09	2.96	3.23	4.23	-.104	6.20	3.72	12.33
847	4.26	3.69	-6.18	5.60	-.786	7.93	6.13	19.46
848	4.21	2.20	-11.76	10.12	.322	13.29	9.14	27.65
849	1.64	4.76	1.32	2.84	-.342	5.42	1.51	8.07
850	1.71	1.13	3.63	3.62	-.110	5.03	1.95	8.21
851	-4.70	1.88	-.64	1.37	.189	4.91	1.89	6.72
852	-2.30	2.29	.76	2.07	.290	3.08	2.31	7.68
853	.21	2.84	-.36	3.48	-.341	3.74	2.09	7.00
854	1.84	2.56	-.82	3.81	.150	4.38	1.95	7.18
855	-.92	3.19	1.79	5.30	-.548	4.49	4.47	14.88
856	3.30	2.60	-.06	3.14	.276	4.45	2.54	8.18
857	-.37	4.30	-2.08	6.34	.758	6.54	3.86	14.34
858	-3.11	2.71	-1.22	5.21	-.311	6.15	1.98	9.64
859	-3.25	3.50	.74	2.18	.175	4.10	3.24	9.85
860	-1.59	2.16	-.74	1.87	.790	3.00	1.20	5.11
861	.42	2.82	3.78	1.82	.040	4.72	1.52	7.00
862	.90	2.00	-2.38	2.33	.228	3.51	1.65	6.34
863	-.19	4.97	.22	4.77	-.123	6.29	1.50	9.01
864	-1.56	2.21	1.00	4.00	.226	4.30	1.91	6.80
865	.37	1.68	.91	2.13	.559	2.50	1.15	5.02
866	.12	1.76	-1.16	2.87	-.440	3.03	1.54	5.81
867	3.57	4.02	-2.89	2.32	-.073	5.63	3.08	10.12
868	-.08	2.95	-1.78	2.86	.314	3.85	1.88	7.45
869	-.50	2.76	3.69	1.55	.257	4.41	1.91	7.69
870	2.14	2.66	2.14	2.27	.519	4.29	1.30	6.34
871	-4.15	4.04	-2.41	2.70	.391	5.61	3.74	12.08
872	-2.69	2.92	2.96	3.33	.037	5.48	1.90	8.19
873	-1.96	5.18	-2.21	6.06	.383	7.00	4.19	13.87
874	1.04	3.27	-1.53	5.71	-.347	5.12	4.15	12.09
875	-9.28	4.96	3.34	2.35	-.787	9.98	5.25	20.41
876	-1.01	6.23	1.14	3.24	.093	5.70	3.85	13.44
877	2.90	2.84	8.67	9.30	-.179	10.27	8.35	25.59
878	5.94	3.95	-2.64	10.42	-.323	10.25	7.24	23.03
879	2.54	4.00	3.25	1.94	-.304	5.45	2.30	8.08
880	3.73	2.82	-.80	2.03	-.590	4.12	3.05	8.83

MEAN DU(M/S)= .02
MEAN DV(M/S)= .09
SD DU(M/S)= 4.06
SD DV(M/S)= 4.18
R(DU,DV)= .08
MEAN W(M/S)= 4.73
SD W(M/S)= 3.40
SD MEAN(M/S)= 2.10
MEAN MAXW(M/S)= 8.78
SD MAXW(M/S) 4.12

KSC ,UNFILTERED ,WINTER 3HR WIND CHANGE 3-9KM

	U-COMPONENT CHANGE			V-COMPONENT CHANGE		VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-.08	2.14	.05	1.19	.301	2.18	1.09	4.99
2	1.89	1.79	.17	2.19	-.463	3.01	1.58	8.14
3	3.85	1.96	1.76	2.19	-.228	4.80	1.86	9.56
4	-.06	1.74	.44	1.67	-.134	2.16	1.16	4.75
5	1.06	2.64	12.13	3.51	-.208	12.49	3.38	19.14
6	2.34	3.02	2.73	2.87	-.094	4.91	2.47	9.47
7	-1.35	5.30	-7.75	4.27	.067	9.40	4.44	16.18
8	.19	1.51	-.65	2.88	.008	3.04	1.31	5.83
9	.28	2.14	1.63	1.08	-.162	2.58	1.33	6.24
10	-.64	1.67	-2.24	3.71	.094	3.91	2.57	10.53
11	-.62	1.84	1.30	1.66	.553	2.37	1.61	6.59
12	-.21	2.98	-3.25	4.64	.295	5.39	3.44	14.21
13	-1.65	3.46	1.11	4.36	-.313	4.84	3.38	12.67
14	-7.26	4.90	-.53	2.70	.538	8.05	4.41	12.97
15	-2.73	3.70	-.60	4.59	-.392	6.07	2.37	11.32
16	-1.54	2.78	-.81	3.25	-.401	3.42	3.09	14.07
17	-2.35	3.12	.46	3.85	.067	4.55	3.09	11.59
18	-1.05	2.28	-.26	1.78	.357	2.50	1.80	6.99
19	.43	1.31	-2.06	1.95	-.047	2.77	1.50	6.73
20	.16	2.31	-.14	1.87	.088	2.70	1.24	5.44
21	.04	1.25	.90	1.45	-.186	1.95	.81	4.35
22	-.78	1.11	-.52	1.56	.002	1.90	.96	4.40
23	-.63	3.66	-.99	2.66	-.531	4.36	1.68	8.22
24	-.40	3.21	-4.58	3.30	.218	5.62	3.28	13.02
25	-1.77	2.20	.88	1.42	-.441	2.64	1.95	7.16
26	-.63	.85	-1.32	2.53	-.403	2.66	1.48	7.48
27	.91	3.78	-1.27	4.34	-.548	5.28	2.75	12.60
28	-.15	3.98	1.10	3.94	-.124	5.21	2.31	10.17
29	.43	3.03	4.24	4.55	.482	6.05	3.38	12.03
30	2.32	1.31	-.68	2.62	-.103	3.49	1.49	6.76
31	-1.36	4.54	-6.71	6.21	.589	9.00	4.99	15.81
32	-1.33	2.57	.48	4.23	.151	4.72	2.04	9.60
33	6.45	3.05	-2.11	2.69	-.318	7.39	2.82	11.48
34	3.12	1.94	1.58	2.24	-.428	4.33	1.52	7.15
35	1.93	1.74	3.03	2.90	-.159	4.60	1.77	7.87
36	.04	3.27	2.10	3.41	-.500	4.48	2.57	10.35
37	2.38	2.04	-1.80	3.09	.218	4.14	2.34	10.78
38	.93	2.70	.09	2.79	-.694	3.69	1.51	6.17
39	1.97	3.62	1.96	2.52	-.071	4.47	2.67	15.20
40	4.11	1.92	4.12	2.33	.631	6.41	1.36	9.00
41	.85	1.95	1.22	2.47	-.557	3.10	1.56	6.50
42	1.63	1.69	3.40	1.41	.242	4.07	1.57	7.16
43	-5.70	5.68	1.00	10.53	-.961	12.83	3.38	18.04
44	.71	1.57	-2.21	2.47	-.429	3.09	2.09	8.38
45	-2.20	1.43	2.32	1.07	-.163	3.43	1.26	6.51
46	.25	3.04	1.32	2.50	.070	3.78	1.71	7.60
47	-.09	1.70	.63	2.33	-.076	2.53	1.53	8.06
48	-.40	1.67	2.32	2.30	-.362	3.36	1.53	6.52
49	1.90	2.12	-2.05	2.15	-.287	3.58	2.02	7.57
50	1.96	2.32	2.62	2.32	-.014	4.22	1.91	7.99
51	-1.37	1.53	1.73	1.43	.357	2.86	1.03	4.92
52	.25	2.59	-.47	1.77	.022	2.86	1.38	5.88
53	-1.31	1.49	-.94	2.52	-.396	3.02	1.41	5.97
54	-2.56	2.00	-1.03	2.50	.598	3.59	2.22	11.75
55	.01	3.62	-7.25	6.89	-.470	8.98	5.68	20.29
56	.20	2.92	.46	3.66	-.200	4.06	2.37	10.89
57	-6.42	4.07	-2.01	2.63	.761	7.33	3.86	13.38
58	-1.56	2.22	3.00	2.32	-.082	4.32	1.74	7.61

59	4.39	5.11	.42	7.78	-.701	9.62	3.63	14.66
60	-.18	1.99	1.30	1.68	-.365	2.57	1.38	5.43
61	-5.57	4.25	-4.94	3.85	.225	8.52	3.96	16.75
62	-4.97	4.74	-1.31	2.79	-.039	6.64	3.54	13.86
63	-1.36	1.72	1.43	3.36	.140	3.97	1.52	6.97
64	-.66	1.98	.21	1.79	.417	2.51	1.13	5.06
65	3.45	3.94	3.40	2.54	.755	5.62	3.72	16.35

MEAN DU(M/S)= .16
MEAN DV(M/S)= .13
SD DU(M/S)= 3.76
SD DV(M/S)= 4.43
R(DU,DV)= .02
MEAN W(M/S)= 4.68
SD W(M/S)= 3.46
SD MEAN(M/S)= 2.41
MEAN MAXW(M/S)= 9.71
SD MAXW(M/S) 3.97

WT 61 500M .WINTER 3HR WIND CHANGE 3 MON

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.09	2.13	.05	1.17	.302	2.17	1.09	4.85
2	1.89	1.78	.17	2.20	-.489	2.99	1.61	8.77
3	3.86	1.96	1.77	2.20	-.236	4.81	1.87	9.28
4	-.05	1.75	.44	1.66	-.132	2.15	1.17	4.62
5	1.06	2.64	12.13	3.52	-.206	12.49	3.39	19.20
6	2.35	3.02	2.73	2.89	-.102	4.91	2.50	9.50
7	-1.34	5.31	-7.76	4.27	.066	9.40	4.46	15.86
8	.19	1.49	-.65	2.86	.025	3.04	1.26	5.25
9	.27	2.15	1.63	1.05	-.184	2.58	1.34	6.46
10	-.64	1.67	-2.23	3.71	.094	3.91	2.57	10.26
11	-.63	1.84	1.29	1.64	.566	2.35	1.61	6.42
12	-.20	2.98	-3.27	4.65	.290	5.38	3.48	14.25
13	-1.65	3.47	1.11	4.41	-.319	4.87	3.41	12.58
14	-7.27	4.90	-.53	2.71	.541	8.06	4.42	13.08
15	-2.74	3.71	-.60	4.58	-.392	6.08	2.36	11.49
16	-1.54	2.77	-.81	3.26	-.403	3.41	3.11	14.33
17	-2.35	3.11	.46	3.86	.077	4.55	3.08	11.74
18	-1.05	2.28	-.26	1.77	.367	2.49	1.81	6.83
19	.43	1.31	-2.06	1.91	-.043	2.77	1.47	6.85
20	.17	2.31	-.14	1.85	.082	2.69	1.24	5.32
21	.04	1.21	.91	1.42	-.155	1.92	.80	4.22
22	-.78	1.09	-.51	1.56	.009	1.91	.93	4.31
23	-.63	3.68	-.99	2.66	-.531	4.37	1.69	7.77
24	-.40	3.25	-4.59	3.28	.221	5.63	3.29	12.51
25	-1.78	2.19	.88	1.42	-.440	2.63	1.95	7.03
26	-.64	.80	-1.31	2.52	-.438	2.63	1.47	7.12
27	.92	3.78	-1.27	4.36	-.554	5.30	2.75	12.48
28	-.15	3.99	1.11	3.96	.116	5.23	2.33	10.04
29	.44	3.01	4.24	4.57	.483	6.05	3.38	12.03
30	2.32	1.27	-.68	2.62	-.081	3.48	1.48	6.90
31	-1.36	4.54	-6.71	6.24	.590	9.01	5.01	16.03
32	-1.33	2.57	.48	4.24	.151	4.73	2.04	9.57
33	6.45	3.04	-2.12	2.65	-.310	7.37	2.83	11.53
34	3.12	1.95	1.59	2.23	-.430	4.33	1.50	7.20
35	1.93	1.71	3.02	2.89	-.158	4.58	1.77	7.73
36	.04	3.28	2.11	3.40	-.502	4.48	2.58	10.39
37	2.39	2.03	-1.80	3.10	.228	4.14	2.34	10.64
38	.92	2.68	.09	2.78	-.702	3.67	1.48	6.14
39	1.96	3.57	1.97	2.48	-.083	4.47	2.57	14.22
40	4.11	1.91	4.11	2.33	-.638	6.41	1.35	8.89
41	.85	1.94	1.22	2.46	-.565	3.10	1.55	6.46
42	1.63	1.66	3.40	1.37	.249	4.05	1.55	6.69
43	-5.70	5.65	1.01	10.54	-.964	12.84	3.35	17.76
44	.71	1.49	-2.21	2.44	-.415	3.05	2.06	8.05
45	-2.20	1.42	2.31	1.04	-.161	3.42	1.25	6.44
46	.24	3.05	1.32	2.52	.069	3.79	1.72	7.58
47	-.10	1.68	.63	2.32	-.114	2.49	1.53	7.83
48	-.40	1.66	2.33	2.30	-.371	3.37	1.49	6.14
49	1.89	2.14	-2.05	2.17	-.296	3.61	2.02	7.61
50	1.97	2.32	2.62	2.32	-.010	4.22	1.92	7.94
51	-1.37	1.52	1.73	1.42	.357	2.86	1.00	4.93
52	.25	2.59	-.47	1.77	.020	2.85	1.41	6.06
53	-1.31	1.47	-.94	2.50	-.404	3.00	1.40	5.84
54	-2.56	1.97	-1.03	2.48	.610	3.60	2.17	11.84
55	.00	3.63	-7.25	6.93	-.471	9.00	5.71	20.20
56	.19	2.94	.45	3.69	-.198	4.08	2.40	10.85
57	-6.43	4.09	-2.01	2.64	.769	7.34	3.89	13.29
58	1.56	2.21	3.01	2.29	-.081	4.29	1.78	7.52

KSC .WL GT 500M .WINTER 31HR WIND CHANGE 3-9KM

59	4.40	5.12	.42	7.81	-.703	9.64	3.68	14.59
60	-.18	1.98	1.30	1.66	-.373	2.56	1.35	5.60
61	-5.56	4.30	-4.94	3.87	.222	8.53	3.99	16.78
62	-4.96	4.75	-1.30	2.81	-.036	6.66	3.52	13.47
63	-1.36	1.70	1.43	3.34	.167	3.96	1.48	7.04
64	-.66	1.98	.22	1.78	.434	2.50	1.14	4.94
65	3.46	3.95	3.39	2.53	.761	5.61	3.73	16.17

MEAN DU(M/S)= -.16
MEAN DV(M/S)= .13
SD DU(M/S)= 3.76
SD DV(M/S)= 4.44
R(DU,DV)= .02
MEAN W(M/S)= 4.68
SD W(M/S)= 3.47
SD MEAN(M/S)= 2.41
MEAN MAXW(M/S)= 9.62
SD MAXW(M/S) 3.96

KSC ,WL GT 1500M ,WINTER 3HR WIND CHANGE 3-9KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-.10	2.00	.05	1.04	.334	2.00	1.03	4.53
2	1.93	1.57	.19	1.74	-.547	2.78	1.24	7.51
3	3.88	1.60	1.72	1.77	-.075	4.62	1.52	7.30
4	-.12	1.43	.42	1.55	-.147	1.96	.90	3.75
5	1.08	2.43	12.05	3.39	-.189	12.36	3.29	18.10
6	2.33	2.79	2.74	2.48	.053	4.61	2.35	8.34
7	-1.28	5.10	-7.71	3.90	.035	9.08	4.45	14.87
8	.19	1.11	-.70	2.73	.040	2.80	1.16	5.07
9	.21	1.85	1.63	.67	-.175	2.32	1.09	5.18
10	-.60	1.42	-2.20	3.28	.130	3.51	2.37	9.76
11	-.62	1.67	1.33	1.37	.676	2.28	1.28	5.17
12	-.25	2.77	-3.24	4.25	.407	5.04	3.29	12.71
13	-1.60	3.29	1.05	4.14	-.412	4.69	3.09	11.66
14	-7.18	4.76	-.49	2.55	.586	7.90	4.30	12.87
15	-2.69	3.52	-.59	4.00	-.374	5.50	2.36	10.04
16	-1.56	2.69	-.70	3.35	-.440	3.26	3.27	15.19
17	-2.24	2.77	.40	3.32	.168	4.08	2.67	9.06
18	-1.03	2.12	-.27	1.52	.352	2.27	1.65	6.31
19	.44	1.09	-2.09	1.38	-.302	2.54	1.10	4.97
20	.17	2.15	-.12	1.31	.066	2.32	.97	4.58
21	.03	.96	.90	1.14	.048	1.63	.60	2.76
22	-.75	.98	-.52	1.38	.011	1.70	.88	3.45
23	-.60	3.49	-.99	2.35	-.602	4.04	1.64	7.66
24	-.33	2.95	-4.55	3.10	.263	5.45	3.06	11.19
25	-1.77	2.06	.91	1.35	-.490	2.49	1.95	6.06
26	-.66	.54	-1.25	2.17	-.400	2.29	1.32	5.73
27	.96	3.59	-1.29	4.18	-.547	5.18	2.44	11.51
28	-.13	3.68	1.08	3.78	-.101	5.04	1.88	8.70
29	.40	2.74	4.16	4.37	.567	5.78	3.26	11.13
30	2.27	.76	-.67	2.27	.042	3.14	1.21	5.87
31	-1.40	4.21	-6.61	6.05	.600	8.73	4.86	15.75
32	-1.30	2.34	.51	4.07	.130	4.44	2.05	8.14
33	6.44	2.90	-2.14	2.34	-.291	7.21	2.83	10.83
34	3.08	1.66	1.58	2.01	-.346	4.20	1.08	6.92
35	1.92	1.34	3.10	2.21	-.066	4.18	1.59	6.41
36	-.03	3.10	2.15	3.24	-.487	4.32	2.46	12.80
37	2.35	1.72	-1.77	2.77	.397	3.95	1.93	8.76
38	.98	2.39	.10	2.53	-.804	3.29	1.48	5.22
39	1.96	3.03	1.98	1.90	-.017	3.99	2.14	9.04
40	4.16	1.73	4.13	2.13	-.681	6.36	1.21	7.79
41	.83	1.58	1.24	2.27	-.643	2.81	1.41	6.02
42	1.59	1.28	3.41	1.11	.597	3.88	1.41	6.21
43	-5.71	5.33	1.06	10.18	-.975	12.47	3.14	16.72
44	.70	1.18	-2.11	2.09	-.463	2.74	1.78	5.71
45	-2.15	1.07	2.31	.84	.126	3.32	.90	4.76
46	.23	2.85	1.28	1.94	.176	3.33	1.57	6.23
47	-.09	1.49	.68	2.22	-.250	2.25	1.59	6.67
48	-.37	1.57	2.27	2.07	-.470	3.21	1.31	5.31
49	1.88	1.93	-2.05	2.06	-.297	3.38	2.07	7.06
50	1.93	2.20	2.65	1.98	.150	4.04	1.78	7.17
51	-1.35	1.41	1.70	1.26	.362	2.73	.92	4.52
52	.24	2.01	-.54	1.57	-.024	2.35	1.13	4.93
53	-1.35	1.29	-.93	2.16	-.479	2.70	1.30	4.70
54	-2.54	1.56	-.80	2.14	.658	3.48	1.40	7.99
55	-.03	3.43	-7.29	6.33	-.493	8.77	5.30	19.13
56	.19	2.58	.41	3.41	-.321	3.73	2.13	8.90
57	-6.39	3.74	-1.93	2.29	.761	7.14	3.57	11.95
58	-1.55	1.99	3.01	2.00	.019	4.06	1.72	7.33

KSC .WL GT 1500M .WINTER 3HR WIND CHANGE 3 SKM

59	4.41	4.87	.40	7.48	-.751	9.26	3.64	14.72
60	-.17	1.65	1.38	1.22	-.252	2.28	.97	3.95
61	-5.53	4.00	-4.93	3.57	.223	8.33	3.76	14.73
62	-4.95	4.49	-1.29	2.63	-.056	6.45	3.40	12.15
63	-1.34	1.50	1.46	3.17	.199	3.77	1.41	6.56
64	-.63	1.88	.22	1.63	.454	2.36	1.01	4.86
65	3.36	3.61	3.39	2.28	.789	5.45	3.36	13.52

MEAN DU(M/S)= -.16
MEAN DV(M/S)= .14
SD DU(M/S)= 3.58
SD DV(M/S)= 4.23
R(DU,DV)= .03
MEAN W(M/S)= 4.42
SD W(M/S)= 3.34
SD MEAN(M/S)= 2.41
MEAN MAXW(M/S)= 8.53
SD MAXW(M/S) 3.91

KSC ,WL GT 3000M ,WINTER 3HR WIND CHAN 3 9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.02	1.84	.08	.66	.209	1.80	.76	3.32
2	2.00	1.25	.26	1.12	-.781	2.42	1.00	5.66
3	3.75	1.06	1.63	.91	-.050	4.24	.88	5.34
4	-.10	.95	.42	1.40	.010	1.62	.63	2.50
5	.92	2.53	11.89	2.87	-.154	12.23	2.71	16.07
6	2.17	2.11	2.62	1.48	.202	3.81	1.92	6.83
7	-1.45	4.83	-7.68	3.58	.052	8.97	4.09	14.49
8	.13	.63	-.87	2.03	-.116	2.17	.76	4.42
9	.14	1.18	1.62	.41	.107	1.93	.67	3.44
10	-.65	1.02	-2.37	3.20	.401	3.24	2.62	10.91
11	-.47	1.21	1.29	.96	.849	1.92	.76	3.77
12	-.43	2.39	-3.00	3.61	.612	4.65	2.50	9.45
13	-1.73	2.34	1.22	3.03	-.307	3.57	2.51	8.60
14	-7.02	4.41	-.40	2.36	.607	7.68	3.93	11.64
15	-2.52	2.97	-.50	3.66	-.368	5.16	1.46	7.77
16	-1.51	2.67	-.40	3.07	-.561	3.37	2.76	10.51
17	-2.08	1.90	.35	2.88	.224	3.75	1.52	5.99
18	-1.03	1.75	-.17	1.08	.299	1.96	1.19	4.48
19	.37	.94	-1.94	1.04	-.863	2.29	.78	3.45
20	.09	1.91	-.15	.68	.162	1.88	.77	3.33
21	.07	.91	.74	.88	-.197	1.45	.25	1.86
22	-.81	.54	-.62	1.09	-.390	1.50	.51	2.56
23	-.72	2.82	-1.09	1.90	-.868	3.44	1.17	5.09
24	-.41	1.62	-4.61	2.72	.324	4.83	2.84	8.17
25	-1.72	1.85	.97	1.10	-.859	2.18	1.93	5.23
26	-.56	.35	-1.28	1.48	-.098	1.92	.76	3.30
27	.93	3.10	-1.25	3.82	-.652	4.80	1.89	8.52
28	.06	2.27	1.18	3.25	-.636	3.81	1.62	5.84
29	.32	2.70	4.30	4.01	.321	5.57	3.29	10.75
30	2.27	.55	-.68	1.45	.170	2.77	.55	4.10
31	-1.46	3.90	-6.54	5.45	.648	8.24	4.66	14.50
32	-1.33	1.62	.35	3.31	.075	3.75	1.17	6.13
33	6.37	2.78	-2.02	1.88	-.388	6.97	2.73	10.65
34	2.39	.98	1.49	1.81	-.479	3.84	.81	5.32
35	1.76	.89	3.13	1.83	-.004	3.89	1.36	5.76
36	-.15	2.70	2.26	2.94	-.550	3.85	2.50	10.90
37	2.22	1.32	-1.82	2.08	.632	3.59	1.18	5.48
38	.92	2.20	.16	2.38	-.932	3.02	1.50	6.38
39	2.12	2.11	2.05	1.67	.037	3.69	1.50	6.77
40	4.10	1.07	4.14	1.90	-.636	6.13	1.07	7.55
41	.69	1.18	1.32	2.09	-.816	2.44	1.42	6.52
42	1.70	1.18	3.39	1.00	.759	3.89	1.28	6.03
43	-5.53	5.39	.97	9.88	-.977	12.22	2.92	15.23
44	.67	1.06	-2.06	1.89	-.628	2.63	1.56	4.92
45	-2.10	.98	2.29	.48	.520	3.24	.59	4.27
46	.18	2.41	1.33	1.61	.204	2.76	1.60	7.35
47	.03	.89	.69	1.51	-.017	1.58	1.03	4.69
48	-.30	1.40	2.16	1.66	-.522	2.72	1.43	5.24
49	1.75	1.91	-2.20	1.63	-.276	3.22	1.97	6.14
50	1.89	1.76	2.43	1.98	.001	3.77	1.48	5.49
51	-1.40	.98	1.65	1.26	.749	2.58	.75	4.07
52	.25	1.33	-.63	.93	.191	1.64	.61	3.18
53	-1.35	1.10	-.91	1.77	-.593	2.50	.84	3.80
54	-2.54	1.45	-.69	1.31	.533	3.11	1.01	5.76
55	-.16	2.80	-7.34	4.90	-.758	8.10	4.47	16.30
56	.04	2.03	.37	2.22	-.006	2.66	1.45	5.03
57	-6.27	3.15	-1.89	1.63	.781	6.71	3.22	12.00
58	-1.54	1.69	2.91	1.76	.300	3.84	1.44	6.55

KSC .WL GT 3000M .WINTER 3HR WIND CHANGE 3-9KM

59	4.10	4.68	.28	7.79	-.655	9.19	3.84	14.93
60	-.18	1.01	1.44	.78	-.411	1.81	.68	3.39
61	-5.60	2.55	-4.85	2.56	.536	7.60	3.19	11.22
62	-4.86	4.11	-1.25	2.31	.091	6.01	3.35	11.82
63	-1.41	1.20	1.49	3.06	.124	3.61	1.40	6.16
64	.52	1.35	.09	1.18	.328	1.71	.81	3.24
65	3.06	3.00	3.43	2.14	.883	4.94	3.22	10.55

MEAN DU(M/S)= -.18
MEAN DV(M/S)= .14
SD DU(M/S)= 3.26
SD DV(M/S)= 3.95
R(DU,DV)= .04
MEAN W(M/S)= 4.04
SD W(M/S)= 3.16
SD MEAN(M/S)= 2.43
MEAN MAXW(M/S)= 7.09
SD MAXW(M/S) 3.69

KSC ,WL GT 6000M ,WINTER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.19	1.28	.05	.38	.161	1.26	.48	2.02
2	2.26	.53	-.22	.51	.121	2.32	.57	3.73
3	3.62	.70	1.41	1.11	.391	4.02	.80	5.33
4	-.29	.72	.23	.87	-.698	1.07	.52	2.04
5	1.48	.89	12.27	2.63	.519	12.38	2.66	16.21
6	2.65	2.16	2.91	1.15	.842	4.25	1.85	7.09
7	-.75	3.32	-7.31	2.81	.388	7.94	3.15	11.38
8	.12	.39	-1.19	1.83	-.313	1.77	1.34	4.45
9	-.05	.40	1.57	.45	.117	1.63	.42	2.11
10	-.85	.28	-2.60	2.74	-.172	3.08	2.36	7.55
11	-.82	1.39	1.41	1.37	.892	2.33	1.02	5.18
12	-.58	1.81	-2.91	3.03	.916	4.14	2.02	6.94
13	-1.78	1.02	1.01	1.66	-.625	2.52	1.29	4.89
14	-6.94	4.91	-.56	1.84	.433	7.65	4.18	12.25
15	-2.70	.89	-.28	3.18	-.359	4.17	.87	6.75
16	-1.83	2.45	-.24	1.42	-.899	2.65	2.09	7.18
17	-1.97	1.60	.27	1.50	.557	2.75	1.07	4.07
18	-.87	.86	.03	.58	-.291	1.10	.79	2.92
19	.46	.69	-2.19	.43	-.895	2.32	.50	3.25
20	-.08	1.95	-.19	.28	-.372	1.82	.76	3.13
21	-.04	.76	.86	.60	.060	1.24	.36	1.68
22	-.95	.21	-.89	.49	-.382	1.38	.27	1.77
23	-.42	1.30	-1.07	1.53	-.816	2.20	.69	3.42
24	-.36	.74	-5.11	2.45	.708	5.16	2.49	8.15
25	-1.79	2.09	.87	.91	-.966	2.37	1.88	5.03
26	-.50	.19	-1.10	1.14	-.973	1.47	.79	2.48
27	.82	2.43	-.89	1.70	-.588	2.97	1.20	5.17
28	.24	1.06	1.07	2.01	-.421	2.27	1.10	4.88
29	.00	2.23	5.08	2.55	.955	5.82	1.83	8.65
30	2.71	.49	-.41	.47	-.658	2.77	.54	3.81
31	-1.78	3.68	-6.51	4.16	.779	7.77	4.00	12.41
32	-1.34	.55	.62	2.26	-.505	2.68	.61	3.59
33	7.10	1.36	-2.16	1.25	-.459	7.51	1.44	9.22
34	3.04	.29	1.12	1.04	.240	3.38	.49	4.22
35	1.85	.96	3.61	1.37	-.496	4.27	1.02	5.69
36	.11	2.47	2.51	3.57	-.838	4.06	2.93	11.45
37	2.07	1.54	-1.80	1.34	.776	3.37	.57	4.08
38	.94	1.91	.48	2.60	-.995	3.13	1.28	5.39
39	2.63	.80	1.87	1.31	-.196	3.49	.75	4.76
40	4.08	.39	4.50	1.01	-.510	6.14	.60	6.92
41	.50	1.06	1.36	2.12	-.610	2.37	1.44	4.98
42	1.62	.86	3.53	.64	.523	3.94	.86	5.45
43	-5.55	5.14	1.67	7.71	-.998	10.45	3.18	13.78
44	.53	.40	-1.71	.61	-.096	1.83	.63	3.19
45	-2.23	.57	2.38	.48	.626	3.32	.34	3.63
46	.54	2.78	.88	1.89	-.563	3.23	1.37	7.26
47	.15	.78	1.08	1.38	.403	1.53	1.17	4.57
48	.06	1.37	1.86	.59	-.635	2.27	.73	3.44
49	1.42	1.30	-2.06	.45	-.612	2.69	.96	4.50
50	2.15	1.73	2.53	1.20	-.240	3.67	1.40	5.16
51	-1.61	.74	1.58	.98	.906	2.55	.23	2.84
52	.10	.88	-.68	1.59	-.684	1.46	1.28	5.66
53	-1.47	.33	-.91	.76	.525	1.82	.58	2.88
54	-2.43	1.61	-.95	1.06	.941	2.90	1.46	5.06
55	.09	1.69	-7.87	2.44	-.954	8.07	2.38	11.93
56	.08	.69	.65	1.17	.453	1.40	.55	2.40
57	-5.95	1.76	-1.68	1.70	.894	6.41	1.76	8.89
58	-1.32	1.36	2.72	.61	.223	3.28	.77	4.31

WL GI 6XXM .WINTER 3HR WIND CHANGE 3-9KM

59	4.61	4.13	-1.17	4.52	-.132	7.17	2.90	11.22
60	-.23	.74	1.47	.49	-.802	1.63	.59	3.08
61	-6.38	1.56	-5.03	2.14	.351	8.32	1.94	10.35
62	-5.02	3.02	-1.62	1.72	.068	5.73	2.66	9.28
63	-1.63	.93	1.94	2.28	-.332	3.24	1.40	4.87
64	-.68	.46	-.14	.75	-.284	1.05	.40	1.63
65	3.04	2.10	3.31	1.90	.934	4.57	2.72	8.27

MEAN DU(M/S)= -.16
MEAN DV(M/S)= .14
SD DU(M/S)= 3.04
SD DV(M/S)= 3.56
R(DU,DV)= .11
MEAN W(M/S)= 3.69
SD W(M/S)= 2.89
SD MEAN(M/S)= 2.41
MEAN MAXW(M/S)= 5.84
SD MAXW(M/S) 3.29

KSC ,WL GT 9000M ,WINTER 3HR WIND CHANGE 3.9KM

NP	U COMPONENT CHANGE MEAN	U COMPONENT CHANGE STD.DEV.	V COMPONENT CHANGE MEAN	V COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV	VECTOR WIND CHANGE MAX
1	.02	.89	.01	.19	.392	.86	.29	1.17
2	2.58	.48	-.31	.38	.583	2.63	.46	3.39
3	4.04	.55	.85	.62	-.860	4.19	.47	5.26
4	-.24	.33	.08	.35	-.657	.50	.23	.86
5	.79	.76	12.24	2.29	.535	12.28	2.31	15.18
6	2.25	1.85	2.61	.80	.902	3.74	1.38	5.29
7	-1.05	2.58	-7.36	2.50	.880	7.77	2.79	13.36
8	.12	.48	-1.37	1.38	-.801	1.69	1.07	3.44
9	-.12	.24	1.51	.29	.603	1.54	.25	1.85
10	-.89	.46	-2.78	1.88	-.640	3.10	1.64	5.46
11	-.50	1.15	1.80	1.50	.989	2.42	1.08	4.82
12	-.77	1.55	-3.31	2.67	.979	3.99	2.26	7.37
13	-1.64	.86	1.07	1.13	-.901	2.07	1.25	4.12
14	-6.59	2.46	-.12	1.67	.235	6.80	2.45	9.48
15	-2.53	1.04	.42	2.18	-.659	3.19	1.48	6.57
16	-2.08	2.62	-.34	.70	-.922	2.89	1.85	6.24
17	-1.91	.85	.41	.68	.568	2.17	.55	2.88
18	-.95	.40	.25	.18	.029	1.01	.37	2.03
19	.64	.62	-2.18	.08	.017	2.34	.28	3.30
20	.24	1.83	.02	.42	.774	1.71	.79	3.21
21	-.09	.37	.68	.83	-.162	1.07	.40	1.45
22	-1.03	.16	-.72	.40	.861	1.29	.33	1.73
23	-.49	.72	-.84	.99	-.825	1.52	.38	2.09
24	-.26	.54	-4.96	1.93	.819	4.99	1.94	7.18
25	-1.91	1.44	.95	.93	-.886	2.25	1.55	4.06
26	-.38	.18	-1.14	.78	-.891	1.30	.62	2.20
27	.86	1.36	-1.06	.98	-.840	1.88	1.06	3.57
28	.26	.47	1.24	1.39	.306	1.49	1.23	4.02
29	-.48	1.82	4.28	2.59	.960	5.03	1.79	7.70
30	2.61	.78	-.55	.91	.680	2.88	.45	3.47
31	-2.16	3.23	-6.85	3.41	.936	7.80	3.57	11.99
32	-1.47	.64	.61	1.32	-.713	2.08	.60	2.95
33	7.04	.99	-2.20	.97	-.733	7.42	1.13	8.53
34	3.02	.26	1.21	.52	.652	3.28	.40	3.88
35	1.66	.97	3.74	1.28	-.646	4.31	.89	5.32
36	-.45	2.50	3.17	3.63	-.938	4.54	3.00	10.57
37	2.05	.89	-1.43	.99	.790	2.81	.29	3.20
38	.58	1.27	.72	1.97	-.987	2.39	.79	3.42
39	2.69	.92	1.90	1.18	-.137	3.51	.88	4.54
40	4.05	.69	4.59	.76	.589	6.14	.91	7.75
41	.14	1.00	1.47	1.51	-.832	2.07	1.08	3.93
42	1.66	.32	3.68	.35	.069	4.05	.36	4.80
43	-5.29	3.21	1.37	4.81	-.997	7.67	2.08	9.84
44	.60	.19	-1.88	.40	-.295	1.98	.41	2.60
45	-2.06	.63	2.38	.38	.647	3.22	.28	3.59
46	.86	2.14	.55	1.70	-.832	2.72	1.04	5.54
47	.32	.61	1.47	1.19	.668	1.63	1.17	4.01
48	.25	.46	1.77	.34	-.848	1.86	.26	2.38
49	1.28	.52	-2.17	.28	-.423	2.55	.43	3.28
50	2.36	1.65	2.34	.79	-.348	3.66	.99	4.66
51	-1.75	.39	1.56	.61	.133	2.41	.44	3.20
52	.29	1.15	-.92	1.79	-.914	1.78	1.52	6.23
53	-1.65	.47	-.82	.52	-.646	1.94	.32	2.90
54	-2.45	.88	-.96	.43	.948	2.64	.96	3.79
55	-.40	1.56	-7.72	1.05	-.788	7.90	.96	9.46
56	-.10	.56	.56	.84	.755	1.08	.43	2.03
57	-5.98	1.14	-1.50	1.73	.975	6.37	1.31	8.29
58	-1.33	.47	2.77	.59	.411	3.13	.47	3.67

KSC ,WL GT 9000M .WINTER 3HR WIND CHANGE 3-9KM

59	3.90	3.62	-1.01	1.58	.314	5.12	2.36	8.34
60	-.31	.39	1.65	.41	.561	1.73	.37	2.59
61	-5.95	1.84	-4.89	1.43	.055	7.89	1.56	9.60
62	-4.77	1.91	-1.45	1.27	.486	5.14	1.92	7.44
63	-1.74	.71	1.86	1.45	-.477	2.81	1.07	3.93
64	-.63	.18	-.04	.49	.295	.80	.21	1.05
65	3.27	1.59	3.57	1.68	.977	4.85	2.31	7.48

MEAN DU(M/S)= -.18
MEAN DV(M/S)= .16
SD DU(M/S)= 2.77
SD DV(M/S)= 3.29
R(DU,DV)= .16
MEAN W(M/S)= 3.41
SD W(M/S)= 2.62
SD MEAN(M/S)= 2.28
MEAN MAXW(M/S)= 5.07
SD MAXW(M/S) 3.07

KSC UNFILTERED WINTER 3HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	.64	1.89	-.30	2.04	-.287	2.54	1.31	6.47
2	1.19	3.02	2.47	2.49	-.110	4.42	1.80	7.71
3	-1.06	7.18	.51	6.28	-.446	8.27	4.87	18.87
4	1.04	2.74	1.03	2.84	-.238	3.71	1.98	8.42
5	5.25	4.87	-1.26	4.49	-.411	7.93	3.17	15.02
6	-1.90	2.95	.35	2.98	.316	4.14	2.02	8.12
7	-6.03	3.88	-12.57	8.21	.189	15.40	6.29	29.08
8	1.64	1.70	-2.41	3.14	.216	4.19	1.93	8.1
9	-.27	2.44	.98	2.04	-.064	2.79	1.84	7.79
10	2.45	4.40	-2.12	5.20	.383	6.71	3.42	13.29
11	1.25	2.05	2.12	3.42	.431	4.06	2.34	10.64
12	-1.57	5.16	-.72	5.90	.027	7.56	2.68	16.14
13	.33	3.92	.34	2.20	.135	3.88	2.30	10.90
14	-1.77	5.85	2.99	4.82	.140	7.76	3.03	16.11
15	-1.14	4.01	3.02	6.29	-.627	7.41	3.32	14.24
16	-3.87	2.87	1.17	7.66	-.118	7.88	4.59	18.53
17	.09	2.12	-2.19	2.33	.090	3.43	1.72	8.25
18	.43	1.81	-.57	2.53	-.199	2.72	1.66	7.05
19	2.36	2.45	-2.00	2.66	-.069	3.95	2.65	10.63
20	-.61	4.19	.80	3.66	.334	4.95	2.71	9.63
21	-.04	2.37	-1.48	3.12	-.424	3.72	1.94	8.59
22	-.79	2.08	.63	2.64	-.237	3.14	1.56	7.29
23	-1.46	1.77	.09	2.81	-.137	3.04	1.97	8.00
24	-.90	2.13	-.77	2.52	.476	3.03	1.74	7.36
25	-.58	2.91	2.21	2.22	.173	3.96	1.67	7.16
26	-2.47	2.22	-1.11	2.75	-.158	3.92	2.11	8.25
27	.48	3.38	-1.39	3.05	-.045	4.18	2.33	10.51
28	1.79	3.51	3.51	4.26	-.115	6.20	2.74	14.07
29	1.36	6.86	1.32	7.76	-.084	9.97	3.34	16.43
30	-1.84	4.65	-2.46	3.51	.590	5.73	3.22	13.80
31	-3.87	3.65	-3.95	6.89	.346	7.92	5.35	23.76
32	-.69	2.89	1.51	3.34	-.070	4.14	2.25	9.48
33	4.62	2.01	.26	2.54	-.545	5.33	1.86	8.57
34	1.03	1.50	.88	2.94	-.314	3.18	1.63	7.02
35	-.53	1.43	3.02	2.74	-.422	3.91	1.90	8.31
36	-4.04	4.13	1.94	7.81	-.652	9.06	3.97	18.96
37	.41	2.75	-.45	2.83	.293	3.53	1.85	11.42
38	2.19	3.30	1.69	4.00	-.231	5.30	2.53	11.19
39	-.71	2.25	1.70	1.81	.079	3.07	1.51	6.18
40	4.53	3.34	3.95	3.20	.156	6.89	3.17	13.45
41	-2.60	2.32	2.92	2.87	-.023	4.91	2.17	9.95
42	2.00	4.12	5.15	3.05	-.153	7.23	2.08	13.09
43	-3.52	4.19	.45	4.29	-.295	5.89	3.72	15.32
44	2.01	2.15	-.31	2.33	-.579	3.26	1.89	7.95
45	1.02	2.04	3.33	2.59	-.170	4.30	2.10	10.40
46	1.81	5.32	-3.67	5.81	-.771	7.07	5.36	21.75
47	-1.49	2.88	2.48	3.05	.280	4.67	2.04	9.27
48	1.79	1.67	1.60	2.28	-.347	3.43	1.40	6.54
49	1.48	3.31	-2.78	2.61	-.218	4.67	2.42	11.64
50	2.30	3.48	-1.36	4.43	.375	5.35	3.19	12.43
51	-2.41	1.89	-.08	2.26	.244	3.41	1.69	7.40
52	2.02	7.61	-5.65	7.37	-.111	10.99	5.19	20.25
53	-2.37	2.67	-.63	3.12	-.722	4.24	2.19	10.46
54	-1.87	4.59	-1.14	4.98	.165	6.53	2.80	11.58
55	3.19	6.20	-.04	6.83	.421	8.48	4.81	17.03
56	3.80	3.39	1.33	2.15	-.259	5.04	2.60	10.95
57	2.62	2.89	2.11	3.16	.052	4.95	2.23	11.16
58	-.89	3.68	1.69	3.62	.125	4.69	2.86	12.79

KSC UNFILTERED WINTER 3HR WIND CHANGE 9-16 KM

59	-4.56	3.32	-4.03	8.62	-.318	9.85	5.01	22.19
60	-.74	1.18	1.78	2.36	-.171	2.85	1.59	6.36
61	1.47	5.65	-2.50	2.95	.114	6.17	3.29	12.79
62	1.79	2.09	.74	2.74	.313	3.56	1.71	7.66
63	-2.24	2.57	-1.37	3.22	-.585	4.44	2.03	9.65
64	-.30	1.47	-1.38	2.46	-.489	2.75	1.62	7.57
65	.79	2.16	3.45	3.06	.103	4.83	1.78	8.45

MEAN DU(M/S)= -.05
MEAN DV(M/S)= .07
SD DU(M/S)= 4.22
SD DV(M/S)= 4.95
R(DU,DV)= .02
MEAN W(M/S)= 5.33
SD W(M/S)= 3.73
SD MEAN(M/S)= 2.39
MEAN MAXW(M/S)=11.69
SD MAXW(M/S) 4.81

KSC, WL GT 500M, WINTER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.63	1.82	-.30	2.01	-.280	2.49	1.28	6.01
2	1.20	2.99	2.46	2.45	-.087	4.38	1.80	7.90
3	-1.06	7.19	.51	6.31	-.445	8.29	4.88	18.49
4	1.04	2.74	1.04	2.85	-.236	3.72	1.98	8.33
5	5.26	4.87	-1.27	4.52	-.408	7.95	3.17	14.66
6	-1.91	2.96	.34	2.97	.320	4.15	2.01	8.76
7	-6.03	3.92	-12.57	8.25	.194	15.41	6.33	28.97
8	1.64	1.66	-2.41	3.05	.239	4.11	1.91	8.25
9	-.28	2.43	.96	1.98	-.081	2.76	1.77	7.01
10	2.45	4.43	-2.13	5.21	.385	6.73	3.45	13.15
11	1.25	2.02	2.12	3.40	.441	4.05	2.31	10.71
12	-1.56	5.19	-.72	5.91	.029	7.59	2.65	15.67
13	.33	3.95	.34	2.17	.132	3.89	2.32	10.86
14	-1.76	5.89	2.99	4.84	.133	7.80	3.02	15.83
15	-1.14	4.04	3.03	6.31	-.625	7.45	3.31	14.21
16	-3.87	2.86	1.19	7.70	-.131	7.90	4.61	18.50
17	.08	2.07	-2.20	2.23	.071	3.35	1.71	7.96
18	.43	1.78	-.56	2.52	-.212	2.71	1.63	6.90
19	2.36	2.45	-2.00	2.67	-.070	3.95	2.66	10.62
20	-.62	4.20	.80	3.65	.340	4.96	2.71	9.82
21	-.03	2.36	-1.48	3.11	-.434	3.67	1.97	8.42
22	-.80	2.07	.64	2.61	-.267	3.13	1.52	7.23
23	-1.46	1.74	.09	2.77	-.138	3.00	1.95	8.29
24	-.89	2.11	-.78	2.46	.521	2.97	1.75	6.97
25	-.58	2.88	2.21	2.20	.198	3.95	1.64	7.25
26	-2.47	2.21	-1.11	2.75	-.158	3.93	2.08	8.38
27	.47	3.38	-1.38	3.06	-.051	4.18	2.33	10.32
28	1.80	3.47	3.51	4.28	-.115	6.20	2.73	14.01
29	1.37	6.89	1.32	7.79	-.090	10.01	3.34	16.42
30	-1.84	4.64	-2.46	3.52	.591	5.74	3.21	13.72
31	-3.88	3.65	-3.95	6.92	.346	7.94	5.37	23.20
32	-.69	2.87	1.51	3.37	-.084	4.13	2.29	9.55
33	4.63	1.98	.25	2.52	-.549	5.32	1.85	8.54
34	1.03	1.47	.89	2.92	-.332	3.15	1.62	6.75
35	-.53	1.41	3.03	2.69	-.416	3.89	1.88	8.07
36	-4.05	4.12	1.94	7.81	-.651	9.07	3.97	18.52
37	.41	2.77	-.46	2.83	.308	3.56	1.83	11.49
38	2.19	3.29	1.68	3.98	-.219	5.30	2.48	10.33
39	-.71	2.25	1.70	1.78	.088	3.06	1.50	6.13
40	4.54	3.29	3.94	3.19	.163	6.85	3.18	13.03
41	-2.60	2.28	2.92	2.85	-.023	4.91	2.13	9.37
42	2.00	4.13	5.15	3.06	-.139	7.25	2.08	13.24
43	-3.53	4.21	.45	4.27	-.300	5.90	3.71	15.18
44	2.01	2.15	-.31	2.32	-.587	3.26	1.87	7.36
45	1.01	2.02	3.32	2.59	-.186	4.30	2.08	10.20
46	1.80	5.38	-3.68	5.87	-.777	7.12	5.41	21.80
47	-1.50	2.88	2.48	3.03	.282	4.68	1.99	9.12
48	1.79	1.65	1.59	2.27	-.363	3.41	1.39	6.58
49	1.48	3.26	-2.80	2.58	-.198	4.64	2.40	11.40
50	2.29	3.48	-1.36	4.47	.378	5.34	3.26	12.38
51	-2.40	1.87	-.08	2.23	.272	3.40	1.64	7.45
52	2.01	7.67	-5.64	7.42	-.113	11.06	5.21	20.41
53	-2.37	2.67	-.64	3.12	-.732	4.24	2.20	10.71
54	-1.87	4.60	-1.14	4.93	.172	6.52	2.77	11.00
55	3.19	6.22	-.02	6.86	.424	8.53	4.80	16.43
56	3.80	3.39	1.33	2.12	-.273	5.04	2.59	10.61
57	-2.61	2.82	2.10	3.13	.084	4.93	2.16	10.71
58	-.88	3.67	1.68	3.58	.121	4.63	2.89	12.49

KSC, WL GT 500M, WINTER 3 HR WIND CHANGE 9-16 KM

59	-4.56	3.31	-4.04	8.67	-.317	9.88	5.04	22.13
60	-.74	1.13	1.78	2.33	-.154	2.80	1.62	6.38
61	1.48	5.66	-2.50	2.95	.103	6.19	3.27	12.85
62	1.79	2.08	.74	2.71	.343	3.53	1.71	7.78
63	-2.25	2.57	-1.36	3.20	-.597	4.41	2.06	9.74
64	-.29	1.44	-1.38	2.45	-.507	2.72	1.62	7.60
65	.79	2.10	3.45	3.04	.101	4.80	1.75	8.19

MEAN DU(M/S)= -.05
MEAN DV(M/S)= .07
SD DU(M/S)= 4.22
SD DV(M/S)= 4.95
R(DU,DV)= .02
MEAN W(M/S)= 5.33
SD W(M/S)= 3.74
SD MEAN(M/S)= 2.41
MEAN MAXW(M/S)=11.54
SD MAXW(M/S) 4.78

KSC, WL GT 1500M, WINTER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.59	1.33	-.32	1.70	-.325	2.15	.69	3.48
2	1.17	2.53	2.44	2.23	.019	3.98	1.67	7.23
3	-1.09	6.86	.62	5.90	-.457	7.86	4.63	17.89
4	1.10	2.56	1.04	2.62	-.234	3.51	1.84	7.43
5	5.26	4.65	-1.09	4.37	-.455	7.68	3.24	12.96
6	-1.91	2.76	.34	2.51	.336	3.73	1.94	7.58
7	-6.05	3.70	-12.54	7.98	.180	15.30	6.07	27.85
8	1.64	1.20	-2.37	2.10	.175	3.43	1.54	6.43
9	-.27	2.19	.90	1.60	-.148	2.47	1.46	5.31
10	2.45	4.12	-2.17	5.00	.435	6.42	3.38	12.49
11	1.23	1.77	2.12	3.11	.539	3.74	2.20	9.40
12	-1.47	4.83	-.80	5.38	.096	7.20	1.74	11.63
13	.30	3.47	.41	1.52	-.024	3.22	2.05	8.47
14	-1.83	5.56	3.01	4.26	.241	7.30	2.86	13.94
15	-1.21	3.80	3.11	5.89	-.653	7.01	3.33	12.66
16	-3.80	2.79	1.14	7.02	-.089	7.47	4.11	15.81
17	.03	1.78	-2.17	1.56	-.149	2.89	1.40	6.42
18	.39	1.51	-.49	2.21	-.440	2.37	1.38	5.51
19	2.38	2.29	-2.07	2.54	-.155	3.89	2.54	11.42
20	-.69	3.60	.85	2.84	.515	4.36	1.78	8.52
21	-.03	2.07	-1.46	2.87	-.506	3.49	1.57	6.59
22	-.87	1.50	.64	2.18	-.477	2.60	1.18	4.59
23	-1.41	1.33	.06	2.21	-.097	2.62	1.34	5.89
24	-.89	1.63	-.82	1.95	.687	2.32	1.59	6.42
25	-.60	2.36	2.20	1.85	.321	3.40	1.61	7.06
26	-2.45	2.08	-1.08	2.54	-.141	3.75	1.98	7.54
27	.45	2.94	-1.31	2.63	-.062	3.80	1.74	7.54
28	1.73	2.57	3.45	3.80	-.047	5.62	2.07	9.95
29	1.30	6.45	1.31	7.50	-.099	9.60	2.97	13.62
30	-1.83	4.18	-2.45	3.21	.650	4.98	3.50	12.88
31	-3.83	3.48	-4.00	6.45	.422	7.47	5.33	20.08
32	-.71	2.53	1.53	2.76	-.078	3.67	1.82	7.63
33	4.63	1.75	.30	2.27	-.618	5.19	1.65	8.80
34	1.07	1.20	.87	2.14	-.451	2.56	1.17	4.99
35	-.58	1.23	3.03	2.44	-.427	3.59	2.03	7.25
36	-4.10	3.69	1.96	7.39	-.665	8.74	3.53	15.75
37	.34	2.45	-.57	2.75	.393	3.39	1.58	8.54
38	2.16	2.94	1.72	3.54	-.224	5.03	1.86	8.49
39	-.69	2.12	1.71	1.68	.112	2.95	1.41	5.57
40	4.51	2.80	3.95	2.51	.176	6.43	2.96	11.79
41	-2.66	1.65	2.90	2.54	-.107	4.58	1.91	7.95
42	1.99	3.86	5.02	2.39	-.194	6.84	1.72	11.82
43	-3.51	3.92	.43	3.72	-.393	5.50	3.37	13.53
44	1.99	1.97	-.33	1.96	-.550	3.00	1.67	5.91
45	1.04	1.67	3.32	2.29	-.248	4.05	1.94	8.92
46	1.86	4.93	-3.56	5.36	-.756	6.47	5.23	21.52
47	-1.49	2.56	2.43	2.61	.350	4.27	1.80	7.36
48	1.74	1.36	1.65	2.00	-.312	3.11	1.38	6.02
49	1.46	2.90	-2.78	2.22	-.128	4.32	2.12	9.06
50	2.27	3.04	-1.36	4.00	.475	4.90	2.85	11.11
51	-2.35	1.71	-.06	1.88	.295	3.09	1.56	6.49
52	2.08	7.30	-5.59	7.14	-.153	10.77	4.87	18.61
53	-2.37	2.52	-.67	2.80	-.761	3.99	2.07	9.36
54	-1.85	4.36	-1.32	3.87	.183	5.84	2.22	9.45
55	3.25	5.68	-.01	6.43	.565	8.15	4.19	15.65
56	3.73	3.19	1.41	2.16	-.323	4.91	2.56	10.07
57	-2.53	2.26	2.05	2.39	.063	4.31	1.69	7.83
58	-.80	3.22	1.65	2.67	.006	3.81	2.51	8.48

KSC, WL GT 1500M, WINTER 3 HR WIND CHANGE 9-16 KM

59	-4.64	2.89	-3.96	8.40	-.348	9.66	4.76	21.84
60	-.75	.79	1.74	1.96	.130	2.40	1.50	5.50
61	1.38	5.19	-2.50	2.25	.151	5.61	2.93	12.27
62	1.78	1.74	.75	2.10	.449	3.01	1.45	5.73
63	-2.26	2.39	-1.37	2.93	-.720	4.24	1.79	8.18
64	-.32	1.13	-1.42	1.99	-.600	2.34	1.36	5.51
65	.85	1.71	3.47	2.66	.099	4.46	1.67	7.15

MEAN DU(M/S)= -.06
MEAN DV(M/S)= .08
SD DU(M/S)= 3.95
SD DV(M/S)= 4.63
R(DU,DV)= .03
MEAN W(M/S)= 4.94
SD W(M/S)= 3.56
SD MEAN(M/S)= 2.43
MEAN MAXW(M/S)= 9.98
SD MAXW(M/S) 4.75

KSC, WL GT 3000M, WINTER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.54	.89	-.32	.84	-.428	1.21	.66	2.22
2	1.03	2.19	2.47	1.62	-.232	3.65	1.10	5.42
3	-1.07	6.61	.83	5.18	-.486	7.58	3.83	15.21
4	1.10	2.12	.95	2.26	-.183	3.30	.90	5.24
5	5.26	4.24	-1.05	2.62	-.549	6.36	3.62	11.11
6	-1.74	2.30	.49	2.08	.560	3.21	1.59	6.32
7	-5.90	2.01	-12.37	6.71	.032	14.52	5.09	23.48
8	1.59	.60	-2.38	1.86	-.017	3.18	1.38	5.70
9	-.23	1.62	.83	1.38	-.233	2.10	.92	4.26
10	2.41	3.06	-1.85	4.29	.417	5.62	2.32	11.12
11	1.15	1.47	2.06	2.99	.560	3.52	2.06	6.88
12	-1.26	4.10	-1.00	4.83	.201	6.47	.87	8.73
13	.24	2.20	.44	.77	.028	2.11	1.10	4.89
14	-2.02	4.75	3.05	3.43	.499	6.73	1.49	9.82
15	-1.34	3.05	3.00	5.07	-.791	6.09	2.95	10.09
16	-3.66	2.68	.90	5.60	.078	6.57	3.08	13.64
17	-.03	1.37	-1.94	1.37	-.848	2.56	.96	4.63
18	.37	1.08	-.50	1.98	-.435	2.15	.90	3.66
19	2.35	1.69	-2.40	2.09	-.062	3.78	2.05	9.35
20	-.69	3.36	.88	2.38	.646	4.10	1.16	6.33
21	-.09	1.56	-1.21	2.33	-.376	2.72	1.39	6.02
22	-.82	1.10	.63	1.72	-.681	2.05	1.00	3.93
23	-1.36	1.05	-.05	1.95	-.136	2.30	1.21	4.15
24	-.89	1.25	-.74	1.17	.796	1.73	1.13	4.11
25	-.63	2.16	2.21	1.42	.450	3.21	1.27	5.23
26	-2.46	1.88	-.99	2.15	-.181	3.51	1.68	5.85
27	.41	2.46	-1.39	1.92	-.005	3.07	1.56	6.10
28	1.42	2.43	3.33	2.51	.120	4.68	1.83	7.91
29	1.24	5.45	1.27	6.82	.005	8.20	3.45	12.92
30	-1.81	3.77	-2.41	2.57	.881	4.16	3.54	11.38
31	-3.67	2.96	-3.87	5.44	.555	6.50	4.95	16.10
32	-.78	2.12	1.59	1.30	.467	2.89	.97	4.71
33	4.74	1.47	.32	1.94	-.825	5.17	1.31	8.06
34	1.18	1.09	.90	1.29	-.250	1.99	1.05	4.55
35	-.59	1.06	3.06	2.09	-.472	3.27	2.12	6.58
36	-4.02	3.26	2.00	6.58	-.753	7.86	3.46	13.30
37	.32	1.57	-.38	1.64	.302	2.21	.71	3.27
38	2.20	2.28	1.91	2.97	-.443	4.42	1.72	7.36
39	-.70	1.99	1.73	1.67	.302	2.85	1.44	5.34
40	4.49	2.34	3.93	1.75	.394	6.13	2.55	10.30
41	-2.67	1.01	2.92	1.87	.168	4.31	1.23	7.10
42	1.62	2.80	4.92	1.49	-.730	5.98	1.06	7.77
43	-3.26	3.40	.52	2.81	-.486	4.99	2.32	10.26
44	1.93	1.68	-.33	1.53	-.510	2.68	1.34	4.72
45	1.08	1.19	3.35	1.84	-.445	3.84	1.56	6.95
46	1.88	3.54	-3.51	4.18	-.640	5.31	4.20	15.02
47	-1.51	2.10	2.54	2.12	.525	3.72	1.94	6.40
48	1.64	1.13	1.64	1.22	-.339	2.74	.82	4.16
49	1.50	2.52	-2.60	1.17	-.237	3.85	1.37	6.60
50	2.39	2.41	-1.24	2.30	.770	3.96	1.62	7.14
51	-2.34	1.59	-.01	1.31	.277	2.74	1.49	5.52
52	2.26	5.16	-5.91	5.05	-.202	8.69	4.07	14.32
53	-2.41	1.87	-.65	2.19	-.775	3.52	1.45	6.99
54	-1.95	3.85	-1.28	2.55	.215	4.31	2.85	9.47
55	3.41	4.73	-.25	4.75	.730	6.79	3.24	10.64
56	3.70	2.56	1.54	1.67	.136	4.45	2.37	8.59
57	-2.57	1.75	1.92	2.35	-.007	4.14	1.32	5.85
58	-.69	2.81	1.58	1.94	.073	3.47	1.60	6.27

KSC, WL GT 3000M, WINTER 3 HR WIND CHANGE 9-16 KM

59	-4.50	2.52	-3.65	7.52	-.522	8.99	3.93	18.08
60	-.83	.64	1.65	1.75	.466	2.27	1.32	5.00
61	1.35	4.77	-2.53	.99	.655	5.06	2.51	10.09
62	1.62	1.11	.73	1.73	.216	2.51	1.05	4.12
63	-2.13	1.51	-1.44	2.20	-.817	3.45	1.33	6.27
64	-.38	.79	-1.40	1.40	-.735	2.04	.75	3.18
65	1.00	1.54	3.40	2.25	.237	3.97	2.05	6.87

MEAN DU(M/S)= -.05
MEAN DV(M/S)= .09
SD DU(M/S)= 3.50
SD DV(M/S)= 4.04
R(DU,DV)= .06
MEAN W(M/S)= 4.33
SD W(M/S)= 3.13
SD MEAN(M/S)= 2.24
MEAN MAXW(M/S)= 7.89
SD MAXW(M/S) 4.01

KSC, WL GT 6000M, WINTER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.53	.64	-.22	.37	-.095	.74	.56	1.84
2	.70	2.09	2.56	1.36	-.445	3.53	.89	4.99
3	-.54	5.29	.79	2.46	-.659	5.73	1.43	8.16
4	1.38	.84	.93	1.60	.172	2.35	.74	3.53
5	5.19	3.98	-.75	3.06	-.866	6.45	3.33	10.59
6	-1.65	2.76	.76	1.28	.860	3.37	1.08	5.71
7	-6.19	.73	-13.01	6.23	.453	14.87	5.06	21.32
8	1.70	.45	-2.23	1.00	-.104	2.88	.88	4.51
9	-.04	1.15	.73	1.06	-.410	1.68	.38	2.30
10	2.66	1.52	-1.21	2.14	.774	3.61	1.54	7.31
11	1.34	1.66	1.91	2.48	.754	3.16	2.08	6.57
12	-1.24	3.44	-1.49	4.58	.589	5.83	1.57	8.33
13	.26	1.23	.43	.64	-.743	1.23	.81	3.37
14	-1.86	2.91	3.11	2.84	.815	5.34	1.04	7.93
15	-1.30	2.03	2.94	3.75	-.863	4.30	3.16	9.21
16	-3.68	2.95	.81	3.89	.750	5.92	1.69	8.35
17	-.13	1.09	-1.95	.64	-.829	2.26	.55	3.16
18	.32	.78	-.38	1.36	-.501	1.51	.64	2.88
19	2.25	1.15	-2.43	1.90	.594	3.74	1.38	7.91
20	-.45	3.33	1.19	1.24	.793	3.66	.90	4.76
21	-.06	.67	-1.39	1.28	.458	1.70	1.06	3.67
22	-.80	.47	.69	.66	-.357	1.18	.62	2.02
23	-1.46	.62	-.41	1.30	-.452	2.05	.38	2.94
24	-.89	1.21	-.43	.96	.898	1.55	.97	3.37
25	-.47	1.46	2.51	.88	.059	2.84	1.15	4.91
26	-2.27	1.69	-1.04	1.19	-.197	2.94	1.36	5.16
27	.07	1.01	-1.47	.97	-.022	1.78	.98	3.30
28	1.28	2.27	3.24	1.08	.027	4.20	.89	5.46
29	1.02	3.32	1.18	4.05	.756	5.13	1.86	7.95
30	-2.15	2.91	-2.85	1.57	.520	4.38	2.13	7.86
31	-3.63	2.65	-4.44	4.63	.897	6.15	4.86	12.87
32	-.98	1.60	1.48	.76	.525	2.35	.87	3.47
33	4.68	1.03	.33	1.68	-.856	4.98	1.00	6.74
34	1.22	.77	1.13	1.19	.094	1.91	1.08	4.48
35	-.65	.83	2.94	1.57	-.746	3.09	1.63	5.87
36	-4.20	2.66	2.21	6.12	-.958	7.42	3.44	12.54
37	.37	.96	-.27	1.34	.145	1.53	.75	2.88
38	2.28	1.92	1.96	1.35	-.507	3.62	1.18	5.70
39	-.71	1.86	1.61	1.37	.011	2.66	1.17	3.86
40	4.59	2.05	3.92	1.30	.853	6.08	2.32	8.98
41	-2.60	1.42	2.92	.82	.343	4.20	.58	4.98
42	1.99	1.29	4.74	.88	-.488	5.33	.70	6.15
43	-2.94	2.22	.62	1.72	-.828	3.47	2.21	10.56
44	1.94	.66	-.31	.88	.211	2.20	.45	3.07
45	1.30	.70	3.23	.91	-.397	3.58	.77	4.89
46	1.90	1.55	-3.06	1.60	-.767	3.72	2.02	8.13
47	-1.61	1.55	2.42	1.68	.603	3.51	1.15	4.85
48	1.51	.41	1.86	.92	.426	2.45	.86	4.73
49	2.10	1.13	-2.74	1.02	-.346	3.60	1.11	5.22
50	2.26	1.74	-1.27	1.27	.780	3.10	1.32	5.35
51	-2.25	1.14	.09	.64	-.859	2.38	1.06	3.90
52	2.37	3.29	-5.63	2.99	-.773	7.01	2.81	10.58
53	-2.40	.91	-.58	.97	-.578	2.67	.83	4.41
54	-1.98	2.97	-1.39	1.24	-.468	3.54	1.92	6.41
55	3.03	4.26	-.43	3.26	.962	5.85	1.95	8.42
56	3.80	1.32	1.03	.51	-.120	4.01	1.19	6.10
57	-3.00	.62	1.84	1.63	-.610	3.82	.91	4.73
58	-1.28	1.32	1.70	1.34	.230	2.58	1.17	3.99

KSC, WL GT 6000M, WINTER 3 HR WIND CHANGE 9-16 KM

59	-4.75	1.83	-2.46	2.89	-.755	6.23	1.25	8.19
60	-.72	.59	1.66	1.39	.519	2.21	.84	3.60
61	1.59	1.83	-2.90	.57	.011	3.63	1.20	6.16
62	1.55	.71	.95	1.38	.478	2.23	.86	3.91
63	-2.26	1.26	-1.62	1.32	-.754	3.26	.64	4.59
64	-.46	.45	-1.20	.82	-.686	1.50	.52	2.36
65	1.07	1.61	3.57	1.64	.883	3.87	2.05	7.36

MEAN DU(M/S)= -.05
MEAN DV(M/S)= .10
SD DU(M/S)= 3.01
SD DV(M/S)= 3.41
R(DU,DV)= .16
MEAN W(M/S)= 3.69
SD W(M/S)= 2.67
SD MEAN(M/S)= 2.11
MEAN MAXW(M/S)= 5.99
SD MAXW(M/S) 3.18

KSC, WL GT 9000M, WINTER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	.55	.25	-.34	.56	-.032	.80	.40	1.87
2	.41	2.20	2.22	1.16	.070	3.34	.23	4.02
3	-.79	4.22	1.53	1.55	-.910	4.58	1.46	6.66
4	1.34	.48	.94	.97	.545	1.87	.59	2.52
5	5.31	2.57	.30	2.57	-.968	6.19	1.79	8.64
6	-1.32	2.07	1.03	.74	.894	2.65	.78	3.78
7	-6.20	.82	-12.80	5.67	.399	14.56	4.82	20.16
8	1.81	.53	-2.27	.39	.339	2.94	.40	3.44
9	-.14	.59	.74	.87	-.323	1.25	.34	1.63
10	3.05	.91	-1.42	.97	.732	3.56	.59	5.58
11	.64	2.46	1.72	1.85	.792	3.24	1.53	5.53
12	-.93	3.34	-1.58	3.44	.781	4.73	1.98	7.62
13	.05	1.07	.42	.58	-.918	1.09	.67	2.81
14	-2.75	1.40	3.14	1.21	.814	4.54	.46	5.88
15	-1.26	1.34	2.89	1.76	-.769	3.24	2.09	6.68
16	-3.18	3.36	.90	2.77	.961	5.30	1.31	6.90
17	-.52	.83	-2.19	.37	.553	2.37	.56	3.97
18	.38	.31	-.36	.79	-.633	.89	.45	1.70
19	2.16	.61	-2.78	1.85	.809	3.81	1.26	6.69
20	-.43	2.25	1.13	.59	.823	2.55	.59	3.38
21	-.04	.32	-1.38	.55	.362	1.43	.53	2.32
22	-.95	.54	.67	.47	-.895	1.18	.68	2.44
23	-1.59	.29	-.55	.77	.499	1.83	.38	2.97
24	-1.02	1.17	-.64	.43	.663	1.43	.97	3.04
25	-.54	.85	2.71	.32	-.123	2.87	.47	3.84
26	-2.00	1.26	-1.15	.83	.170	2.55	1.03	3.88
27	.57	.27	-1.23	.71	.670	1.52	.29	2.02
28	.86	2.30	3.18	.39	.075	4.00	.50	4.83
29	.91	1.82	1.92	2.38	.643	3.38	1.44	5.35
30	-1.44	2.65	-3.07	.67	-.131	4.16	1.27	6.34
31	-3.43	2.41	-5.17	3.14	.758	6.45	3.54	12.00
32	-1.08	.91	1.47	.63	.279	2.06	.57	2.94
33	4.76	1.56	.26	1.44	-.874	5.03	1.38	7.22
34	1.43	.52	1.46	1.23	-.183	2.24	.96	4.40
35	-.50	.38	3.03	1.41	-.864	3.08	1.44	5.33
36	-3.70	2.23	1.94	4.95	-.946	6.24	2.81	10.76
37	.56	.49	-.50	1.14	.368	1.23	.75	2.50
38	2.66	1.72	1.95	.50	-.202	3.53	1.27	5.94
39	-.42	1.12	1.47	.76	-.306	1.91	.71	2.64
40	4.78	1.42	4.20	.98	.904	6.38	1.68	8.61
41	-2.24	1.47	2.97	.50	-.322	3.95	.77	4.87
42	1.78	1.20	4.62	.79	.493	5.06	.96	6.00
43	-3.44	1.86	1.03	1.51	-.934	3.97	1.71	7.76
44	2.02	.65	-.40	.50	-.002	2.14	.58	3.00
45	1.25	.82	3.27	.63	-.104	3.60	.58	4.54
46	2.06	.63	-2.84	.74	-.568	3.54	.86	5.63
47	-1.66	.89	2.29	1.20	.698	3.12	.73	4.08
48	1.34	.21	2.34	1.31	.490	2.75	1.22	5.45
49	2.38	.61	-2.51	.87	-.212	3.54	.77	4.35
50	2.42	.97	-1.09	.83	.904	2.85	.74	4.45
51	-2.29	.69	.13	.83	-.919	2.44	.68	3.50
52	2.22	2.18	-5.75	1.50	-.846	6.42	1.92	8.50
53	-2.40	.50	-.61	.48	-.406	2.53	.45	3.39
54	-2.12	1.66	-1.58	1.20	-.766	3.20	.97	4.49
55	2.97	2.68	-.82	2.61	.973	4.67	1.29	6.27
56	3.89	1.23	1.24	.44	.473	4.11	1.21	5.93
57	-3.00	1.06	1.75	1.02	-.956	3.52	1.36	4.76
58	-1.15	1.45	1.53	1.05	-.551	2.46	91	3.83

KSC, WL GT 9000M, WINTER 3 HR WIND CHANGE 9-16 KM

59	-4.56	.66	-2.00	1.77	-.617	5.28	.70	6.26
60	-.63	.38	1.58	1.15	.290	1.87	.92	3.15
61	.93	.69	-3.19	.68	-.104	3.38	.74	4.87
62	1.01	.92	.80	1.14	.028	1.86	.57	2.77
63	-2.42	.86	-1.14	.83	-.624	2.86	.62	3.99
64	-.48	.20	-1.41	.80	-.520	1.57	.66	2.54
65	1.32	1.11	3.87	.91	.873	4.16	1.23	6.65

MEAN DU(M/S)= -.04
MEAN DV(M/S)= .12
SD DU(M/S)= 2.74
SD DV(M/S)= 3.12
R(DU,DV)= .18
MEAN W(M/S)= 3.40
SD W(M/S)= 2.38
SD MEAN(M/S)= 2.02
MEAN MAXW(M/S)= 5.07
SD MAXW(M/S) 2.86

KSC ,UNFILTERED TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.73	1.99	2.02	1.71	-.448	2.88	1.78	7.60
2	1.42	1.96	-1.38	1.38	.505	2.83	1.28	6.30
3	.86	2.63	-2.26	1.92	-.657	3.38	2.23	10.36
4	.92	1.90	-1.52	1.24	-.183	2.59	1.25	5.11
5	1.26	1.87	1.83	3.90	-.078	3.90	2.90	11.68
6	.79	2.76	.77	2.99	-.649	3.68	2.04	8.88
7	-1.62	2.73	1.24	2.74	.406	3.98	1.81	10.08
8	-1.11	2.09	-3.17	3.13	.021	4.47	2.32	8.40
9	2.46	2.02	1.50	1.60	.241	3.41	1.81	7.67
10	1.37	2.74	3.45	2.99	-.235	5.22	1.69	9.54
11	-.86	.82	-1.31	1.26	.153	1.91	1.03	3.88
12	-2.28	1.82	-.41	1.51	.220	2.75	1.84	10.12
13	.28	2.66	-1.38	1.62	.226	3.00	1.64	6.72
14	-.95	1.31	2.47	2.44	-.198	3.48	1.60	6.90
15	.55	2.73	-2.60	4.08	-.081	4.19	3.68	13.96
16	1.29	1.79	.26	3.64	-.253	3.81	1.91	9.23
17	-.74	1.69	-.55	1.26	.058	2.15	.82	4.86
18	-5.29	5.99	-.30	1.87	.598	5.94	5.67	16.63
19	2.93	2.55	-.92	2.36	-.614	4.04	2.28	9.75
20	.77	2.79	-2.25	3.84	.459	4.82	2.22	8.98
21	-.94	2.59	-.89	1.93	.492	2.74	2.14	8.51
22	.31	2.16	2.00	2.79	.045	3.69	1.70	6.96
23	.50	3.49	2.85	2.08	.017	4.56	2.01	8.69
24	-3.12	3.17	-1.26	4.79	.285	6.07	2.72	11.72
25	-.31	2.10	3.59	1.36	-.213	4.22	1.20	6.42
26	.82	2.96	-2.20	2.39	-.014	3.95	2.09	9.30
27	.72	3.00	-3.72	3.52	-.017	5.13	3.07	13.30
28	2.28	3.15	1.65	3.65	-.699	5.02	2.42	11.64
29	-1.26	1.65	-.94	1.44	.175	2.27	1.45	6.71
30	-3.75	3.58	-.87	4.04	.375	5.66	3.44	12.65
31	3.05	2.31	2.52	1.73	.455	4.49	1.96	9.08
32	.24	1.09	3.24	1.49	.025	3.48	1.36	6.37
33	-.34	2.57	.87	2.61	.230	3.36	1.72	7.04
34	.70	2.82	-1.47	2.53	.133	3.67	1.87	8.45
35	-.71	1.67	1.17	1.60	.119	2.45	1.10	4.76
36	2.18	1.61	.58	1.62	-.298	3.02	1.08	4.90
37	.44	1.85	1.84	1.59	-.379	2.85	1.17	4.95
38	.86	1.51	1.11	1.94	.379	2.61	1.08	5.18
39	2.49	2.00	1.07	2.65	-.089	4.09	1.28	7.45
40	1.32	2.82	-.91	1.43	.122	2.87	2.08	9.27
41	-1.51	1.87	3.49	2.98	-.078	4.66	2.26	8.80
42	1.44	2.52	1.46	2.94	-.701	3.82	2.15	8.81
43	.70	2.15	-.26	1.95	.100	2.59	1.50	6.37

MEAN DU(M/S)= .17
MEAN DV(M/S)= .24
SD DU(M/S)= 3.03
SD DV(M/S)= 3.19
R(DU,DV)= .04
MEAN W(M/S)= 3.71
SD W(M/S)= 2.37
SD MEAN(M/S)= 1.03
MEAN MAXW(M/S)= 8.46
SD MAXW(M/S) 2.72

KSC ,WL GT 500M TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.73	1.98	2.02	1.70	-.460	2.87	1.79	7.51
2	1.42	1.96	-1.38	1.35	.519	2.82	1.28	5.91
3	.85	2.63	-2.26	1.91	-.667	3.35	2.27	10.17
4	.91	1.88	-1.52	1.23	-.195	2.58	1.23	4.86
5	1.26	1.88	1.83	3.93	-.077	3.92	2.92	11.62
6	.79	2.79	.77	2.98	-.656	3.69	2.07	8.85
7	-1.62	2.71	1.25	2.73	.416	3.98	1.76	9.96
8	-1.11	2.09	-3.17	3.12	.018	4.47	2.31	8.26
9	2.46	2.02	1.51	1.55	.241	3.40	1.81	7.57
10	1.36	2.74	3.45	3.00	-.234	5.23	1.69	9.28
11	-.86	.80	-1.32	1.24	.159	1.89	1.03	3.79
12	-2.28	1.82	-.41	1.49	.222	2.74	1.83	9.96
13	.28	2.64	-1.38	1.59	.228	2.97	1.63	6.70
14	-.96	1.29	2.47	2.40	-.210	3.45	1.60	6.83
15	.55	2.76	-2.60	4.11	-.083	4.20	3.73	13.96
16	1.29	1.79	.27	3.65	-.253	3.82	1.89	9.01
17	-.74	1.68	-.55	1.25	.060	2.14	.79	4.71
18	-5.29	6.02	-.29	1.82	.614	5.91	5.72	16.33
19	2.93	2.55	-.92	2.34	-.623	4.03	2.27	9.85
20	.77	2.80	-2.25	3.84	.462	4.82	2.23	8.81
21	-.94	2.59	-.89	1.94	.495	2.73	2.15	8.35
22	.31	2.15	2.00	2.78	.043	3.67	1.73	7.16
23	.49	3.50	2.84	2.09	.014	4.57	2.00	8.69
24	-3.11	3.18	-1.26	4.81	.285	6.09	2.71	11.58
25	-.30	2.07	3.59	1.33	-.247	4.21	1.12	6.10
26	.82	2.98	-2.20	2.39	-.005	3.96	2.09	9.36
27	.72	3.00	-3.72	3.53	-.016	5.14	3.06	13.31
28	2.28	3.16	1.65	3.64	-.718	5.02	2.44	12.07
29	-1.25	1.65	-.94	1.42	.175	2.25	1.45	6.65
30	-3.77	3.57	-.87	4.05	.376	5.67	3.45	12.76
31	3.06	2.31	2.52	1.75	.455	4.51	1.94	9.00
32	.24	1.07	3.25	1.48	.028	3.48	1.35	6.21
33	-.33	2.54	.87	2.61	.238	3.32	1.75	6.90
34	.70	2.83	-1.47	2.54	.127	3.69	1.86	8.19
35	-.71	1.67	1.17	1.60	.120	2.44	1.11	4.65
36	2.19	1.59	.57	1.61	-.307	3.01	1.05	4.90
37	.44	1.86	1.84	1.58	-.383	2.84	1.18	4.92
38	.86	1.50	1.10	1.93	.381	2.62	1.03	4.92
39	2.49	1.93	1.07	2.63	-.078	4.06	1.22	6.69
40	1.33	2.82	-.91	1.39	.115	2.84	2.09	8.99
41	-1.51	1.84	3.50	2.97	-.080	4.64	2.28	8.56
42	1.44	2.52	1.46	2.94	-.711	3.81	2.14	8.70
43	.70	2.12	-.25	1.95	.106	2.58	1.48	6.45

MEAN DU(M/S)= .17
MEAN DV(M/S)= .24
SD DU(M/S)= 3.02
SD DV(M/S)= 3.19
R(DU,DV)= .04
MEAN W(M/S)= 3.71
SD W(M/S)= 2.37
SD MEAN(M/S)= 1.04
MEAN MAXW(M/S)= 8.35
SD MAXW(M/S) 2.76

KSC ,WL GT 1500M . TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.76	1.78	2.02	1.58	-.521	2.70	1.74	6.59
2	1.42	1.67	-1.36	1.19	.551	2.67	.98	4.31
3	.84	2.43	-2.25	1.60	-.724	3.19	2.01	8.70
4	.92	1.77	-1.54	1.02	-.361	2.50	1.06	4.09
5	1.29	1.45	1.85	3.46	-.170	3.69	2.34	8.82
6	.77	2.59	.78	2.80	-.694	3.44	1.96	7.17
7	-1.70	2.52	1.20	2.45	.596	3.66	1.81	10.48
8	-1.11	1.89	-3.14	3.01	-.010	4.32	2.25	7.38
9	2.49	1.80	1.53	1.24	.357	3.28	1.60	6.34
10	1.33	2.48	3.46	2.56	-.301	4.93	1.46	7.26
11	-.88	.49	-1.27	1.09	.081	1.75	.87	3.02
12	-2.30	1.67	-.39	1.18	.307	2.62	1.65	9.57
13	.32	2.44	-1.35	1.30	.387	2.66	1.57	5.78
14	-.96	1.15	2.43	2.20	-.228	3.26	1.54	5.81
15	.50	2.52	-2.56	3.77	-.106	3.90	3.49	12.05
16	1.21	1.63	.25	3.48	-.357	3.65	1.71	7.27
17	-.73	1.53	-.54	1.10	.100	1.94	.79	3.80
18	-5.33	5.75	-.34	1.55	.731	5.76	5.54	16.35
19	2.93	2.34	-.89	2.11	-.693	3.84	2.12	8.84
20	.79	2.48	-2.21	3.63	.512	4.39	2.34	7.85
21	-.99	2.44	-.89	1.57	.476	2.47	2.02	8.58
22	.27	1.95	1.98	2.56	-.002	3.36	1.72	6.31
23	.53	3.36	2.85	1.92	-.044	4.49	1.77	7.72
24	-3.11	3.02	-1.29	4.66	.289	5.90	2.67	10.62
25	-.32	1.83	3.65	.83	-.451	4.08	.89	5.47
26	.85	2.75	-2.22	2.18	.012	3.83	1.81	8.28
27	.69	2.82	-3.74	3.36	.010	5.03	2.90	12.55
28	2.30	2.72	1.63	3.33	-.786	4.71	2.05	10.30
29	-1.22	1.41	-.95	1.19	.279	2.04	1.27	5.10
30	-3.78	3.25	-.90	3.77	.492	5.31	3.41	11.89
31	3.04	2.22	2.50	1.39	.494	4.44	1.61	7.46
32	.26	.95	3.28	1.28	-.061	3.47	1.15	5.54
33	-.31	2.25	.85	2.31	.310	2.88	1.70	5.79
34	.76	2.29	-1.52	2.32	.157	3.36	1.49	7.60
35	-.70	1.45	1.18	1.46	.167	2.20	1.12	4.26
36	2.20	1.10	.58	1.38	-.620	2.83	.49	3.79
37	.47	1.66	1.90	1.52	-.470	2.74	1.17	4.59
38	.84	1.14	1.10	1.81	.324	2.43	.73	3.75
39	2.48	1.46	1.06	2.57	.003	3.91	.82	5.13
40	1.36	2.54	-.89	.96	.267	2.48	1.96	7.90
41	-1.49	1.38	3.53	2.66	-.166	4.31	2.24	7.66
42	1.43	2.36	1.42	2.78	-.762	3.67	1.95	7.56
43	.69	1.76	-.27	1.80	.162	2.39	1.08	5.89

MEAN DU(M/S)= .17
MEAN DV(M/S)= .24
SD DU(M/S)= 2.84
SD DV(M/S)= 3.01
R(DU,DV)= .05
MEAN W(M/S)= 3.50
SD W(M/S)= 2.23
SD MEAN(M/S)= 1.03
MEAN MAXW(M/S)= 7.33
SD MAXW(M/S) 2.75

KSC .WL GT 3000M , TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.68	1.28	2.01	1.53	-.575	2.43	1.60	5.03
2	1.22	1.40	-1.27	.89	.567	2.19	1.03	3.94
3	.86	2.09	-2.20	.80	-.835	2.90	1.45	6.23
4	1.03	1.48	-1.55	.73	-.697	2.29	.96	4.26
5	1.25	.66	1.83	2.92	-.398	3.25	1.82	7.54
6	.72	1.84	.75	2.67	-.790	2.91	1.75	6.04
7	-1.87	2.55	1.21	2.17	.623	3.35	2.23	10.70
8	-1.12	1.21	-3.08	2.93	.246	4.20	1.76	6.40
9	2.50	1.58	1.51	.90	.607	3.07	1.55	5.94
10	1.43	2.01	3.26	2.12	-.165	4.35	1.51	6.27
11	-.75	.29	-1.20	.94	-.424	1.58	.69	2.78
12	-2.30	1.45	-.29	1.21	.155	2.65	1.37	7.76
13	.30	2.01	-1.39	.97	.446	2.27	1.36	4.40
14	-.98	1.01	2.50	1.71	-.206	3.01	1.44	5.54
15	.42	2.25	-2.45	2.98	.033	3.77	2.42	8.35
16	.97	1.73	.17	3.09	-.428	3.40	1.37	6.07
17	-.72	1.47	-.54	.96	.326	1.81	.78	2.94
18	-5.21	5.42	-.44	1.46	.719	5.82	4.99	14.78
19	2.87	2.00	-1.10	1.79	-.638	3.48	2.14	6.96
20	.85	2.05	-2.22	3.49	.559	4.14	2.19	7.87
21	-1.03	2.35	-.85	1.41	.544	2.12	2.18	9.02
22	.17	1.82	1.96	2.44	-.164	3.27	1.56	5.16
23	.55	3.05	2.80	1.37	-.037	4.16	1.40	6.25
24	-2.99	2.71	-1.28	4.27	.376	5.30	2.82	9.76
25	-.37	1.26	3.60	.63	-.444	3.81	.76	5.18
26	.85	2.01	-2.15	1.54	.176	3.19	1.24	5.20
27	.68	2.42	-3.60	2.78	.009	4.61	2.39	9.59
28	2.18	1.18	1.71	2.24	-.561	3.62	.95	5.33
29	-1.30	.98	-1.00	1.07	.054	1.98	.93	3.72
30	-3.57	3.89	-1.06	3.90	.181	5.21	4.13	12.98
31	2.99	1.87	2.72	1.10	-.146	4.40	1.27	6.27
32	.35	.78	3.19	1.16	-.253	3.32	1.08	4.94
33	-.36	2.04	.85	1.85	.384	2.63	1.24	6.23
34	.67	1.57	-1.58	1.93	.722	2.52	1.66	6.94
35	-.65	1.01	1.16	1.14	.259	1.89	.72	3.04
36	2.10	1.03	.63	1.10	-.862	2.61	.52	3.47
37	.50	1.39	1.96	1.24	-.591	2.53	1.06	4.17
38	1.02	.68	1.24	1.49	.360	2.18	.71	3.65
39	2.49	.95	1.21	2.15	-.256	3.61	.41	5.00
40	1.33	1.94	-.94	.65	.635	2.32	1.20	5.25
41	-1.61	.67	3.46	2.35	-.507	4.02	2.10	7.27
42	1.42	1.56	1.52	2.54	-.930	3.30	1.51	7.02
43	.57	1.82	-.15	1.61	.057	2.27	1.02	4.67

MEAN DU(M/S)= .16
MEAN DV(M/S)= .25
SD DU(M/S)= 2.58
SD DV(M/S)= 2.77
R(DU,DV)= .09
MEAN W(M/S)= 3.20
SD W(M/S)= 2.04
SD MEAN(M/S)= 1.00
MEAN MAXW(M/S)= 6.28
SD MAXW(M/S) 2.52

KSC ,.WL GT 6000M . TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.63	1.23	1.95	1.28	-.846	2.30	1.45	5.08
2	1.82	.51	-1.35	.94	-.565	2.38	.81	3.53
3	1.13	1.15	-2.40	1.06	-.659	2.85	1.16	4.87
4	.94	1.51	-1.38	.44	.255	2.09	.95	5.21
5	1.49	.63	2.28	1.06	.678	2.77	1.12	5.08
6	.84	.99	.93	1.52	-.710	2.12	.61	3.15
7	-1.93	3.29	.67	1.85	.983	3.42	2.59	10.56
8	-1.19	.56	-2.68	2.75	.745	3.78	1.49	5.24
9	2.28	.97	1.44	.81	.927	2.73	1.20	4.30
10	2.05	1.10	3.30	1.40	-.757	4.22	.64	5.01
11	-.93	.13	-1.12	.63	.676	1.51	.51	2.16
12	-2.86	1.32	.24	.30	.738	2.90	1.30	6.63
13	.32	1.43	-1.31	.39	.521	1.90	.62	2.92
14	-1.18	.83	2.45	1.38	-.586	2.82	1.44	4.83
15	.07	1.38	-2.54	1.46	.615	2.88	1.47	5.55
16	.91	1.96	-.17	2.12	-.656	2.97	.57	4.18
17	-.95	.97	-.44	.60	.858	1.38	.70	2.37
18	-5.81	2.97	-.63	.41	.051	5.89	2.91	10.55
19	3.17	1.68	-.59	1.17	-.946	3.41	1.71	5.73
20	.57	1.27	-2.31	2.91	.866	3.44	1.97	6.42
21	-1.09	2.50	-.90	1.54	.930	2.25	2.36	8.47
22	.16	1.16	2.13	1.75	-.209	2.68	1.33	4.08
23	.89	2.11	3.12	.76	.090	3.90	.55	4.64
24	-3.46	1.26	-2.13	2.28	-.208	4.70	1.07	6.12
25	-.54	.73	3.86	.47	-.904	3.95	.61	6.01
26	1.05	1.42	-2.59	1.84	-.340	3.39	1.31	4.80
27	.57	1.25	-3.59	2.96	-.739	3.85	2.94	10.71
28	2.26	1.00	2.00	1.38	.283	3.25	1.20	5.67
29	-1.09	.80	-.75	.88	-.668	1.76	.22	2.21
30	-2.75	2.87	-1.39	3.41	-.086	4.83	2.43	7.65
31	3.22	1.05	2.71	.80	-.273	4.33	.84	5.34
32	.35	.51	3.39	.72	-.563	3.46	.65	4.29
33	-.16	1.55	1.26	1.92	-.357	2.33	1.50	5.19
34	.52	2.15	-1.46	1.68	.945	2.81	1.38	6.85
35	-.88	.69	1.22	.57	.605	1.70	.41	2.40
36	2.30	.77	.73	.64	-.856	2.57	.47	3.24
37	.26	1.06	1.98	.52	-.829	2.28	.42	3.19
38	1.02	.22	1.30	.90	-.376	1.86	.36	2.45
39	2.67	.55	1.35	1.58	-.701	3.41	.39	4.52
40	1.30	1.30	-.94	.70	.833	2.09	.59	3.35
41	-1.69	.45	3.50	1.38	-.663	3.92	1.35	5.68
42	1.86	.69	1.51	1.99	-.314	2.94	1.23	5.38
43	.22	1.36	-.63	.89	.500	1.58	.77	3.05

MEAN DU(M/S)= .17
MEAN DV(M/S)= .28
SD DU(M/S)= 2.30
SD DV(M/S)= 2.48
R(DU,DV)= .13
MEAN W(M/S)= 2.97
SD W(M/S)= 1.66
SD MEAN(M/S)= .99
MEAN MAXW(M/S)= 5.09

KSC .WL GT 9000M . TRANS 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.76	1.07	2.11	1.47	-.981	2.41	1.59	5.42
2	1.68	.48	-1.29	.51	-.683	2.14	.63	2.85
3	1.11	.79	-2.10	1.49	-.207	2.74	.96	4.12
4	1.36	1.93	-1.43	.44	-.919	2.35	1.52	6.01
5	1.69	.87	2.23	.67	.822	2.83	1.02	4.46
6	1.07	.38	1.00	.81	-.887	1.70	.26	2.27
7	-2.59	3.25	.46	1.85	.975	3.82	2.50	9.49
8	-1.22	.29	-2.52	1.54	.838	2.93	1.32	4.27
9	2.40	.72	1.38	.49	.887	2.78	.85	3.77
10	2.18	.42	3.18	1.16	-.625	3.98	.72	4.78
11	-.75	.24	-1.16	.33	.562	1.40	.35	1.94
12	-3.02	.22	.29	.58	.278	3.09	.20	3.36
13	.51	1.19	-1.51	.21	-.235	1.93	.54	2.76
14	-.97	.75	2.46	.92	.035	2.75	.91	3.72
15	-.05	1.09	-2.79	1.12	.766	2.95	1.24	5.00
16	.44	1.95	-.38	1.03	-.634	2.11	.84	3.65
17	-.88	.72	-.40	.41	.596	1.16	.53	1.82
18	-5.38	1.75	-.57	.18	-.063	5.41	1.74	8.03
19	3.13	1.30	-.51	.51	-.897	3.20	1.33	4.73
20	.71	.78	-2.67	2.33	.804	3.35	1.57	5.38
21	-1.48	2.59	-1.18	1.90	.977	2.74	2.52	8.44
22	-.02	1.15	2.10	1.39	-.799	2.57	1.02	4.26
23	.83	1.24	3.11	.85	.090	3.47	.75	4.44
24	-3.31	.40	-2.31	1.42	-.372	4.25	.67	5.27
25	-.77	.98	3.98	.73	-.968	4.13	.94	6.40
26	.44	1.13	-2.01	2.74	-.811	3.39	1.21	5.36
27	.94	1.04	-4.08	3.26	-.956	4.24	3.36	10.43
28	2.31	1.16	2.13	1.08	.841	3.20	1.46	5.40
29	-1.16	.21	-.73	.80	-.591	1.55	.40	2.84
30	-2.30	2.21	-1.42	2.19	-.464	4.05	.75	4.99
31	3.20	.61	2.90	1.12	-.324	4.43	.81	5.51
32	.29	.49	3.36	.54	-.782	3.42	.46	3.88
33	-.23	1.29	1.57	1.08	-.875	2.05	1.06	3.77
34	.18	2.08	-1.83	1.82	.991	2.97	1.46	6.40
35	-.98	.62	1.22	.33	.815	1.70	.26	2.35
36	2.26	.49	.80	.38	-.514	2.45	.39	2.94
37	.45	1.21	2.08	.20	-.754	2.43	.37	3.62
38	1.06	.24	1.15	.41	.063	1.60	.33	1.82
39	2.73	.18	1.43	1.44	.662	3.33	.71	5.02
40	1.34	.93	-.97	.51	.850	1.93	.36	2.60
41	-1.73	.25	3.86	1.15	-.717	4.25	1.11	5.43
42	2.34	.52	1.68	1.46	.158	3.11	1.01	4.44
43	.10	.61	-.45	.79	.599	1.08	.22	1.63

MEAN DU(M/S)= .17
MEAN DV(M/S)= .28
SD DU(M/S)= 2.17
SD DV(M/S)= 2.40
R(DU,DV)= .14
MEAN W(M/S)= 2.87
SD W(M/S)= 1.53
SD MEAN(M/S)= .98
MEAN MAXW(M/S)= 4.54
SD MAXW(M/S) 1.97

KSC UNFILTERED TRANS 3HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-1.04	2.47	4.90	2.36	-.304	5.59	2.33	10.92
2	-2.75	3.49	-1.28	2.48	.451	4.64	2.45	9.50
3	-.35	2.42	3.20	3.87	-.004	5.10	2.27	9.78
4	5.43	3.89	-2.47	4.22	-.489	7.37	3.78	17.75
5	2.80	3.08	1.11	3.85	.301	5.26	2.39	11.22
6	-.90	3.04	.90	3.50	-.210	4.36	2.01	9.08
7	-6.50	4.31	-1.45	5.28	.466	8.89	3.41	15.50
8	.95	4.88	-4.04	3.68	.247	6.15	4.09	17.91
9	1.63	2.79	.37	1.71	-.398	3.04	2.07	9.37
10	-.92	3.60	-.15	3.26	.114	4.49	2.06	9.40
11	-1.39	1.84	-.37	1.80	.596	2.48	1.60	6.80
12	-3.36	2.16	-.29	2.20	.383	4.05	2.11	9.97
13	.68	3.24	-.71	3.00	-.056	4.12	1.86	8.15
14	1.25	3.28	1.43	2.98	-.064	4.33	2.11	11.03
15	-1.31	4.71	.00	3.64	.549	5.35	2.90	12.18
16	-1.72	4.05	.55	3.20	.393	5.02	2.14	8.91
17	.07	1.49	1.10	2.44	-.075	2.41	1.89	9.36
18	-2.59	1.09	-.03	2.63	.379	3.65	1.22	6.75
19	1.39	3.42	-2.06	4.01	.423	5.25	2.51	10.87
20	-.82	2.92	-.53	3.53	-.144	4.29	1.87	8.00
21	-5.28	2.91	-3.63	3.85	.746	7.29	3.34	13.25
22	-1.61	2.74	3.09	3.61	.389	5.16	2.43	12.21
23	-.08	2.74	-2.71	4.18	.287	5.06	2.57	11.09
24	-5.61	3.85	10.91	7.02	.067	13.61	5.42	21.45
25	-1.62	3.13	5.15	2.40	-.192	6.26	2.35	11.25
26	1.65	6.85	5.64	7.34	-.015	10.36	5.27	18.37
27	.37	3.78	-7.31	5.17	-.433	8.65	4.44	18.12
28	2.26	3.02	1.27	1.66	.053	3.91	1.82	7.36
29	-2.74	3.75	-3.31	2.59	.177	5.54	2.91	12.95
30	2.95	7.18	-1.12	6.83	-.384	9.02	5.15	22.47
31	-.78	2.52	4.47	3.47	.183	5.75	2.43	9.24
32	.45	1.48	1.89	3.23	-.175	3.70	1.64	6.39
33	-3.07	4.36	-1.52	5.42	.406	7.01	3.31	16.53
34	-2.18	3.63	-2.66	3.88	.293	5.83	2.44	9.64
35	-.93	1.88	1.22	1.57	.157	2.54	1.36	6.03
36	.14	2.47	.72	1.77	.032	2.76	1.46	7.04
37	2.46	2.28	2.71	1.43	.018	4.22	1.68	7.30
38	.27	3.70	.22	2.87	.222	4.18	2.12	9.01
39	2.81	2.10	3.87	2.28	-.102	5.37	1.89	9.72
40	-.08	1.86	-.52	3.12	-.319	3.13	1.90	7.33
41	-.51	2.77	.09	4.32	.078	4.37	2.72	11.54
42	-5.75	8.91	2.47	4.02	-.393	8.98	7.36	23.84
43	1.90	4.07	-1.47	3.14	.130	5.17	2.32	9.99

MEAN DU(M/S)= -.57
MEAN DV(M/S)= .46
SD DU(M/S)= 4.42
SD DV(M/S)= 4.82
R(DU,DV)= .00
MEAN W(M/S)= 5.43
SD W(M/S)= 3.71
SD MEAN(M/S)= 2.27
MEAN MAXW(M/S)=11.50
SD MAXW(M/S) 4.48

KSC, WL GT 500M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-1.04	2.46	4.90	2.35	-.320	5.60	2.32	10.80
2	-2.75	3.51	-1.28	2.46	.461	4.65	2.45	9.44
3	-.35	2.39	3.20	3.86	.013	5.05	2.33	9.76
4	5.43	3.89	-2.46	4.24	-.492	7.37	3.78	17.81
5	2.80	3.08	1.13	3.85	.307	5.26	2.38	11.01
6	-.90	3.04	.90	3.50	-.220	4.38	1.97	9.08
7	-6.51	4.30	-1.45	5.27	.463	8.90	3.36	15.50
8	.95	4.93	-4.04	3.67	.249	6.17	4.09	17.72
9	1.64	2.79	.37	1.66	-.413	3.00	2.07	9.08
10	-.91	3.58	-.15	3.22	.118	4.48	1.97	9.07
11	-1.39	1.85	-.36	1.75	.609	2.45	1.59	6.47
12	-3.36	2.13	-.29	2.19	.392	4.05	2.08	9.52
13	.67	3.27	-.71	3.01	-.053	4.15	1.86	8.24
14	1.25	3.30	1.42	2.98	-.059	4.34	2.12	10.51
15	-1.31	4.73	.00	3.62	.554	5.36	2.89	12.43
16	-1.72	4.02	.55	3.20	.403	5.02	2.12	9.00
17	.06	1.47	1.09	2.43	-.049	2.40	1.88	8.87
18	-2.59	1.06	-.03	2.59	.413	3.63	1.17	6.68
19	1.39	3.41	-2.06	3.98	.421	5.21	2.53	10.53
20	-.82	2.89	-.53	3.52	-.145	4.28	1.84	8.18
21	-5.27	2.90	-3.63	3.82	.762	7.27	3.33	13.00
22	-1.61	2.73	3.10	3.56	.389	5.14	2.43	11.87
23	-.07	2.70	-2.70	4.12	.315	5.01	2.55	10.65
24	-5.61	3.86	10.92	7.03	.073	13.62	5.42	21.24
25	-1.63	3.12	5.16	2.39	-.181	6.26	2.35	11.17
26	1.66	6.86	5.62	7.37	-.015	10.35	5.31	18.79
27	.36	3.76	-7.31	5.12	-.440	8.58	4.49	17.64
28	2.27	3.00	1.28	1.63	.060	3.90	1.79	7.27
29	-2.74	3.74	-3.31	2.56	.168	5.54	2.87	12.63
30	2.96	7.22	-1.11	6.87	-.384	9.07	5.18	22.42
31	-.78	2.50	4.48	3.47	.192	5.74	2.43	9.25
32	.45	1.47	1.89	3.22	-.190	3.71	1.59	6.27
33	-3.07	4.37	-1.52	5.44	.399	7.02	3.32	16.23
34	-2.18	3.62	-2.66	3.88	.285	5.83	2.45	9.55
35	-.93	1.86	1.22	1.50	.157	2.47	1.40	6.26
36	.14	2.47	.72	1.76	.029	2.76	1.43	6.75
37	2.46	2.21	2.71	1.37	.072	4.17	1.67	7.14
38	.27	3.71	.23	2.85	.223	4.18	2.13	8.50
39	2.80	2.08	3.87	2.26	-.099	5.35	1.91	9.41
40	-.08	1.81	-.53	3.10	-.336	3.09	1.90	7.21
41	-.51	2.80	.09	4.34	.086	4.37	2.78	11.81
42	-5.76	8.95	2.47	4.03	-.395	8.99	7.39	23.72
43	1.90	4.06	-1.47	3.11	.132	5.15	2.31	10.01

MEAN DU(M/S)= -.57
MEAN DV(M/S)= .46
SD DU(M/S)= 4.42
SD DV(M/S)= 4.81
R(DU,DV)= .00
MEAN W(M/S)= 5.43
SD W(M/S)= 3.71
SD MEAN(M/S)= 2.28
MEAN MAXW(M/S)=11.36
SD MAXW(M/S) 4.49

KSC, WL GT 1500M, TRANS 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-.98	2.25	4.94	2.20	-.260	5.53	2.17	9.41
2	-2.72	3.27	-1.32	1.84	.530	4.37	2.02	8.44
3	-.28	1.76	3.25	3.55	-.019	4.51	2.43	9.15
4	5.41	3.73	-2.53	3.94	-.529	7.18	3.67	15.68
5	2.75	2.80	1.14	3.53	.317	4.95	2.16	8.90
6	-.84	2.15	.90	3.19	-.255	3.70	1.62	7.76
7	-6.43	4.12	-1.45	4.87	.505	8.61	3.14	14.68
8	.91	4.50	-3.99	3.20	.162	5.94	3.44	14.22
9	1.64	2.51	.33	1.15	-.571	2.60	1.90	7.35
10	-.81	3.24	-.13	2.73	.240	4.12	1.26	7.17
11	-1.38	1.59	-.38	1.32	.675	2.06	1.43	5.85
12	-3.35	1.58	-.24	1.87	.310	3.87	1.51	6.73
13	.61	2.80	-.76	2.64	-.076	3.63	1.58	6.61
14	1.23	2.95	1.42	2.32	-.108	3.79	1.78	7.65
15	-1.22	4.45	-.01	3.35	.621	5.12	2.47	9.46
16	-1.68	3.65	.52	2.86	.547	4.58	1.89	9.00
17	.05	1.13	1.06	2.13	.191	2.17	1.49	5.74
18	-2.58	.88	-.03	2.10	.492	3.35	.77	5.17
19	1.37	2.90	-2.11	3.41	.499	4.65	2.18	9.74
20	-.83	2.57	-.54	3.34	-.147	4.03	1.56	7.14
21	-5.22	2.64	-3.59	3.57	.867	7.03	3.24	11.67
22	-1.60	2.39	3.16	2.94	.390	4.62	2.34	8.99
23	-.16	2.11	-2.72	3.43	.491	4.09	2.63	9.96
24	-5.56	3.62	10.89	6.78	.099	13.39	5.40	20.18
25	-1.65	2.84	5.13	1.96	-.144	6.06	2.04	10.50
26	1.57	6.32	5.63	7.11	.003	9.98	4.98	18.22
27	.35	3.47	-7.31	4.54	-.556	8.29	4.17	16.89
28	2.29	2.73	1.29	1.26	.143	3.54	1.85	6.30
29	-2.76	3.39	-3.28	2.23	.124	5.32	2.56	10.84
30	2.97	6.61	-1.13	6.56	-.422	8.57	4.82	20.93
31	-.79	2.30	4.40	3.37	.231	5.56	2.37	9.79
32	.44	1.24	1.89	3.05	-.308	3.53	1.46	6.27
33	-3.12	3.76	-1.50	5.22	.435	6.64	3.00	14.05
34	-2.21	3.22	-2.64	3.69	.381	5.38	2.61	8.97
35	-.93	1.68	1.18	1.12	.022	2.21	1.19	4.69
36	.11	2.03	.73	1.56	.122	2.38	1.20	4.96
37	2.47	1.92	2.68	1.03	.279	3.94	1.59	6.52
38	.31	3.04	.21	2.43	.305	3.59	1.53	7.14
39	2.77	1.79	3.92	1.77	-.009	5.17	1.61	7.91
40	-.04	1.59	-.45	2.68	-.190	2.71	1.59	6.83
41	-.44	2.58	.16	3.99	.055	4.23	2.18	10.39
42	-5.73	8.56	2.52	3.73	-.443	8.56	7.27	23.76
43	1.93	3.80	-1.46	2.67	.215	4.81	2.05	8.56

MEAN DU(M/S)= -.56
MEAN DV(M/S)= .46
SD DU(M/S)= 4.13
SD DV(M/S)= 4.56
R(DU,DV)= -.01
MEAN W(M/S)= 5.08
SD W(M/S)= 3.55
SD MEAN(M/S)= 2.30
MEAN MAXW(M/S)=10.00
SD MAXW(M/S) 4.53

KSC, WL GT 3000M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-1.01	1.74	4.85	2.09	-.190	5.24	2.12	8.87
2	-2.55	2.79	-1.36	1.34	.710	3.88	1.69	6.51
3	-.25	1.07	3.23	3.20	-.165	4.02	2.38	8.00
4	5.22	3.42	-2.57	3.79	-.531	6.82	3.66	13.87
5	2.79	1.86	1.04	2.67	.379	3.97	1.91	7.81
6	-.81	1.47	.91	2.83	-.336	3.18	1.23	6.00
7	-6.30	3.84	-1.51	4.24	.569	8.07	3.09	13.99
8	.84	2.89	-3.81	1.99	-.199	4.56	2.60	9.16
9	1.66	2.20	.35	.70	-.782	2.37	1.60	5.80
10	-.81	2.65	-.14	2.29	.429	3.42	1.08	5.20
11	-1.32	1.21	-.43	.97	.733	1.76	1.11	4.45
12	-3.38	1.13	-.32	1.16	.202	3.64	.93	5.16
13	.65	1.44	-.75	1.61	-.384	2.23	.81	3.92
14	1.25	2.08	1.42	1.45	-.465	2.84	1.37	5.51
15	-1.05	3.97	-.06	3.30	.702	4.69	2.39	8.85
16	-1.45	3.07	.57	2.48	.595	4.08	1.13	6.62
17	.08	.56	1.04	1.63	.253	1.79	.93	3.57
18	-2.56	.39	.07	1.30	.077	2.86	.44	3.78
19	1.34	2.54	-1.97	2.63	.698	4.18	1.26	6.90
20	-.86	2.31	-.52	2.68	-.272	3.56	.89	6.68
21	-5.10	2.42	-3.48	3.34	.969	6.73	3.13	11.13
22	-1.49	1.81	3.13	2.68	.480	4.30	1.97	7.56
23	-.31	1.15	-2.79	2.77	.529	3.35	2.37	7.96
24	-5.63	2.96	10.77	6.24	.108	13.19	4.62	18.88
25	-1.65	2.50	5.16	1.58	-.362	5.91	1.79	9.31
26	1.58	5.90	5.72	6.42	-.021	9.69	4.13	16.25
27	.41	2.80	-7.37	4.07	-.620	8.03	3.79	14.91
28	2.27	2.28	1.24	1.31	.547	3.21	1.80	6.02
29	-2.65	2.90	-3.16	2.11	.264	4.81	2.60	9.76
30	2.71	4.88	-1.03	5.76	-.504	7.05	3.94	16.27
31	-.69	2.04	4.17	2.42	.329	4.94	1.84	8.50
32	.35	.92	1.91	2.79	-.263	3.21	1.44	5.20
33	-3.01	2.95	-1.40	4.84	.637	5.96	2.76	11.02
34	-2.23	2.70	-2.47	3.19	.593	4.48	2.90	7.95
35	-1.01	1.31	.99	1.04	-.353	1.97	.95	3.63
36	.22	1.40	.74	1.28	.353	1.83	.92	3.93
37	2.47	1.68	2.56	.81	.469	3.75	1.44	6.50
38	.18	2.05	.12	1.49	.038	2.38	.89	3.99
39	2.73	1.33	3.88	1.21	.112	4.90	1.31	6.88
40	-.02	1.01	-.39	1.34	-.131	1.60	.64	2.75
41	-.43	1.56	.08	3.40	-.104	3.45	1.49	6.51
42	-5.58	7.98	2.59	3.39	-.526	8.48	6.40	21.44
43	1.98	3.44	-1.45	2.31	.448	4.37	1.99	7.29

MEAN DU(M/S)= -.54
MEAN DV(M/S)= .45
SD DU(M/S)= 3.67
SD DV(M/S)= 4.20
R(DU,DV)= -.02
MEAN W(M/S)= 4.53
SD W(M/S)= 3.33
SD MEAN(M/S)= 2.36
MEAN MAXW(M/S)= 8.24
SD MAXW(M/S) 4.31

KSC, WL GT 6000M, TRANS 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-1.11	1.06	4.96	1.66	-.520	5.16	1.77	7.41
2	-2.99	1.58	-1.42	1.04	.483	3.53	1.44	4.95
3	-.35	.76	3.81	1.85	.168	3.97	1.69	6.81
4	5.58	1.94	-3.26	1.92	-.675	6.58	2.42	10.21
5	2.87	.96	.73	.87	.287	3.06	1.05	4.92
6	-.79	1.08	.92	1.53	.411	2.06	.86	3.87
7	-6.03	3.82	-1.42	2.56	.895	7.05	3.12	11.31
8	.95	1.79	-4.21	1.05	-.460	4.62	1.25	6.45
9	2.10	1.19	.41	.66	-.568	2.31	1.06	4.07
10	-.95	2.00	-.08	2.15	.910	2.79	1.31	4.92
11	-1.11	.63	-.43	.67	.566	1.36	.64	2.38
12	-3.55	.72	-.38	.94	.492	3.69	.71	4.67
13	.80	1.29	-.85	1.08	-.869	1.78	.99	2.95
14	1.39	1.37	1.41	.76	.254	2.26	1.14	3.91
15	-.55	2.39	-.13	3.23	.951	3.75	1.51	6.68
16	-1.32	3.20	.75	1.55	.454	3.80	.72	5.70
17	.17	.56	.89	1.34	-.366	1.57	.66	2.74
18	-2.32	.46	.32	.65	.120	2.44	.42	2.90
19	1.15	1.47	-2.23	1.33	.690	3.08	.86	4.20
20	-.82	2.22	-.59	2.58	-.582	3.27	1.38	6.02
21	-5.22	2.45	-3.50	3.27	.995	6.80	3.16	10.27
22	-1.64	1.18	3.29	1.84	-.276	3.86	1.85	6.07
23	-.38	.87	-3.16	2.08	.856	3.60	1.50	5.66
24	-5.31	1.44	11.37	6.06	-.397	13.07	5.03	19.03
25	-1.81	2.02	5.19	.78	-.348	5.80	1.11	7.73
26	1.51	3.88	6.32	5.26	-.157	8.22	4.15	13.17
27	.63	2.08	-7.64	3.49	-.938	7.97	3.43	13.02
28	2.14	2.12	1.09	1.84	.952	3.33	1.60	5.71
29	-3.03	1.02	-3.60	1.17	.577	4.76	1.37	6.82
30	2.14	2.64	-.98	1.67	-.448	3.43	1.88	7.22
31	-.79	1.76	4.22	1.49	.384	4.66	1.42	6.36
32	.21	.75	1.93	1.51	-.817	2.44	.83	3.46
33	-3.29	2.64	-1.83	3.35	.598	5.16	2.37	8.82
34	-2.19	2.10	-2.64	3.41	.836	4.58	2.59	7.64
35	-1.08	.89	.65	1.03	-.634	1.74	.64	2.89
36	.10	.73	.87	.84	-.705	1.22	.72	2.63
37	2.45	1.58	2.64	.47	.246	3.80	1.13	5.40
38	.32	1.59	.08	.88	.153	1.74	.63	2.97
39	2.86	.70	3.91	.81	.595	4.87	.96	6.20
40	-.15	1.06	-.05	.56	-.015	1.10	.49	2.01
41	-.57	.92	.31	2.91	-.719	2.95	1.00	4.47
42	-6.02	5.77	2.84	1.06	-.031	7.84	4.15	15.08
43	2.52	2.04	-1.15	1.36	-.038	3.33	1.60	5.54

MEAN DU(M/S)= -.55
MEAN DV(M/S)= .45
SD DU(M/S)= 3.17
SD DV(M/S)= 3.86
R(DU,DV)= -.03
MEAN W(M/S)= 4.06
SD W(M/S)= 2.99
SD MEAN(M/S)= 2.33
MEAN MAXW(M/S)= 6.40
SD MAXW(M/S) 3.62

KSC, WL GT 9000M, TRANS 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-1.07	.71	4.79	1.72	-.790	4.93	1.80	6.95
2	-3.00	1.41	-1.24	.95	-.228	3.46	1.20	4.65
3	.15	.83	3.43	.96	-.648	3.56	.86	4.84
4	5.76	.79	-3.75	1.27	-.661	6.91	1.28	9.80
5	2.86	.59	.59	.94	.839	3.05	.67	4.39
6	-.59	.78	.89	1.05	.612	1.54	.69	2.74
7	-5.79	2.97	-1.47	1.60	.941	6.11	3.12	9.96
8	.72	1.18	-4.58	.63	-.632	4.77	.74	5.77
9	2.31	.80	.57	.34	-.537	2.42	.72	3.35
10	-.59	1.49	.34	1.39	.939	2.01	.76	3.81
11	-1.33	.48	-.55	.41	.894	1.46	.58	2.22
12	-3.72	.28	-.15	.66	.840	3.78	.28	4.16
13	.86	.92	-.81	.75	-.955	1.32	1.02	2.76
14	1.11	.85	1.56	.66	.793	1.98	.95	3.04
15	-.29	1.87	.02	3.07	.977	3.31	1.42	5.38
16	-.77	3.02	.83	.98	-.008	3.27	.80	5.13
17	.14	.67	.74	.92	-.846	1.32	.35	1.81
18	-2.50	.36	.39	.62	.988	2.63	.18	3.23
19	1.27	.77	-2.25	.92	.340	2.75	.72	3.59
20	-1.19	2.10	-.64	1.94	-.884	2.85	1.37	4.97
21	-5.04	2.00	-3.17	2.77	.996	6.28	2.77	9.32
22	-1.51	.84	3.36	1.71	-.780	3.71	1.84	5.61
23	-.22	.45	-3.10	1.66	.929	3.28	1.36	4.41
24	-5.41	1.06	11.46	5.14	-.739	12.92	4.60	17.84
25	-1.79	1.29	5.43	.44	.288	5.86	.54	6.80
26	1.46	2.25	6.09	2.91	.011	6.65	2.93	9.83
27	.55	1.57	-7.53	2.58	-.960	7.70	2.62	11.25
28	1.98	2.05	.72	2.52	.983	3.54	1.55	5.61
29	-2.82	.77	-3.68	.71	.830	4.65	.97	6.07
30	1.57	1.56	-1.36	.82	-.602	2.38	1.31	4.98
31	-.46	1.29	4.19	1.17	.156	4.41	1.18	5.70
32	.30	.71	2.14	1.24	-.961	2.42	.93	3.95
33	-3.09	2.25	-1.62	1.93	.699	4.04	2.14	6.90
34	-2.06	1.23	-2.35	3.13	.913	4.05	2.15	6.85
35	-.94	1.07	.46	1.06	-.951	1.71	.67	2.56
36	.25	.64	.88	.43	-.821	1.17	.25	1.55
37	2.58	.70	2.67	.30	.092	3.75	.54	4.63
38	.26	1.37	.07	.82	.732	1.53	.52	2.58
39	2.95	.42	4.15	.32	.485	5.10	.44	5.73
40	.06	.76	-.21	.29	-.246	.77	.35	1.66
41	-.76	.60	.32	2.39	-.942	2.36	1.07	4.59
42	-5.84	3.58	3.09	.49	-.178	6.96	2.86	11.66
43	2.46	1.13	-1.28	.72	-.243	2.86	1.13	4.30

MEAN DU(M/S)= -.49
MEAN DV(M/S)= .45
SD DU(M/S)= 2.83
SD DV(M/S)= 3.62
R(DU,DV)= -.08
MEAN W(M/S)= 3.76
SD W(M/S)= 2.73
SD MEAN(M/S)= 2.27
MEAN MAXW(M/S)= 5.51
SD MAXW(M/S) 3.18

KSC ,UNFILTERED ,SUMMER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-1.68	1.62	2.19	1.79	.156	3.41	1.34	6.17
2	1.76	.88	.17	1.53	.046	2.33	.89	5.27
3	2.35	2.94	.34	2.34	.234	4.05	1.81	9.14
4	-.21	.74	1.92	2.32	.092	2.86	1.21	4.60
5	-1.04	1.91	-.56	1.40	.474	2.23	1.42	5.08
6	-1.45	1.34	.92	2.79	.580	3.28	1.33	6.22
7	-1.23	1.37	1.30	2.39	.144	3.09	1.13	5.70
8	-.18	3.19	.87	2.24	-.719	3.67	1.56	7.49
9	-.50	1.38	-1.15	1.73	.334	2.00	1.58	5.78
10	-.67	2.54	-.40	1.17	-.213	2.37	1.67	7.36
11	1.14	1.48	1.98	1.22	.184	2.76	1.12	4.52
12	-.24	3.31	-.33	1.98	-.208	3.69	1.19	5.95
13	1.36	1.48	-1.17	1.61	.002	2.68	.91	4.85
14	-1.87	1.15	1.28	1.80	-.231	2.87	1.18	6.18
15	.24	1.69	-.87	2.30	.009	2.75	1.18	6.92
16	.63	2.08	.74	2.62	-.571	3.12	1.54	6.14
17	-.71	1.87	.12	1.56	.179	2.23	1.20	5.69
18	-1.26	4.06	-.59	2.84	.330	4.69	2.09	9.83
19	-.24	1.99	-.09	1.43	-.429	2.19	1.11	4.26
20	-1.68	2.35	-.15	1.55	-.576	2.86	1.61	6.99
21	.36	1.53	-.59	1.47	.613	1.76	1.37	7.71
22	-.05	1.57	.13	2.34	.526	2.49	1.32	6.74
23	-.38	1.89	.60	1.43	.331	2.27	.99	4.61
24	.55	.76	-.51	1.21	.631	1.43	.73	3.05
25	-.47	1.00	1.31	1.68	.326	2.26	.79	4.06
26	-1.16	2.00	-.75	1.95	.233	2.90	1.14	5.49
27	-.16	1.30	-.06	2.72	-.306	2.56	1.59	6.59
28	-.79	1.63	.37	2.30	.233	2.71	1.16	5.76
29	1.61	1.22	.42	1.80	.387	2.54	1.02	4.52
30	3.69	2.43	-2.74	3.03	-.284	5.63	2.11	10.88
31	-1.99	2.42	-2.07	2.26	.376	4.08	1.61	7.75
32	-.72	2.09	.12	1.76	.467	2.54	1.24	5.92
33	1.22	1.90	-.74	1.62	-.850	2.55	1.32	5.03
34	-1.00	2.01	-1.69	2.02	.100	2.96	1.78	6.37
35	-1.40	1.43	.21	1.61	.073	2.31	1.13	4.58
36	-4.67	3.38	-.92	5.23	-.527	6.96	3.60	13.86
37	.57	1.74	.53	2.78	.174	3.09	1.34	5.99
38	-1.39	2.15	-.77	2.18	.565	2.92	1.82	7.30
39	.09	2.07	1.07	1.50	-.404	2.44	1.32	6.27
40	-.21	1.29	.48	1.19	-.417	1.71	.66	3.71
41	.30	2.06	-.28	2.02	-.123	2.60	1.31	5.78
42	.75	1.52	-.20	1.91	.091	2.46	.73	4.14
43	.77	.89	.15	.80	-.293	1.33	.54	2.75
44	-1.47	3.15	1.43	1.90	.002	3.77	1.86	8.43
45	.92	1.20	.95	2.30	.008	2.65	1.21	5.74
46	1.10	1.72	-.58	1.73	-.449	2.54	1.01	4.81
47	-.72	1.69	2.00	1.60	-.011	2.97	1.05	5.24
48	-1.35	1.26	.89	1.75	-.519	2.34	1.33	5.84
49	.09	1.70	-.21	1.34	-.307	2.02	.80	3.72
50	.52	1.02	-.05	1.02	-.268	1.38	.66	2.98

MEAN DU(M/S)= -.22
MEAN DV(M/S)= .10
SD DU(M/S)= 2.36
SD DV(M/S)= 2.30
R(DU,DV)= -.06
MEAN W(M/S)= 2.83
SD W(M/S)= 1.71
SD MEAN(M/S)= .99
MEAN MAXW(M/S)= 6.00
SD MAXW(M/S) 2.00

NP	U-COMPONENT CHANGE MEAN	STD.DEV.	V-COMPONENT CHANGE MEAN	STD.DEV.	R	VECTOR WIND CHANGE MEAN	STD.DEV.	MAX
1	-1.68	1.61	2.19	1.79	.160	3.40	1.36	6.20
2	1.76	.86	.17	1.51	.080	2.32	.88	5.42
3	2.35	2.93	.34	2.35	.236	4.07	1.77	9.07
4	-.21	.71	1.92	2.31	.099	2.85	1.20	4.49
5	-1.05	1.91	-.56	1.39	.474	2.23	1.41	5.02
6	-1.45	1.33	.93	2.79	.592	3.27	1.34	6.16
7	-1.24	1.33	1.30	2.41	.156	3.09	1.11	5.77
8	-.17	3.19	.87	2.24	-.722	3.69	1.53	7.32
9	-.50	1.38	-1.16	1.71	.331	1.98	1.58	5.73
10	-.66	2.53	-.40	1.15	-.209	2.35	1.67	7.31
11	1.14	1.46	1.97	1.19	.192	2.73	1.12	4.48
12	-.24	3.31	-.33	1.97	-.204	3.68	1.18	5.87
13	1.36	1.48	-1.16	1.61	-.010	2.68	.89	4.81
14	-1.87	1.10	1.28	1.78	-.245	2.85	1.18	6.12
15	.23	1.67	.87	2.30	.011	2.75	1.15	7.14
16	.63	2.08	.73	2.61	-.586	3.10	1.55	6.07
17	-.71	1.87	.12	1.56	.181	2.23	1.22	5.56
18	-1.26	4.06	-.59	2.84	.338	4.70	2.08	9.50
19	-.24	1.98	-.09	1.43	-.447	2.19	1.11	4.18
20	-1.68	2.34	-.15	1.52	-.597	2.84	1.59	6.64
21	.37	1.52	-.58	1.44	.609	1.73	1.36	7.49
22	-.05	1.56	.13	2.34	.537	2.49	1.31	6.57
23	-.38	1.90	.60	1.43	.343	2.28	.97	4.53
24	.55	.72	-.51	1.18	.651	1.40	.73	2.76
25	-.47	.96	1.31	1.67	.323	2.25	.76	4.10
26	-1.16	2.02	-.75	1.93	.229	2.90	1.13	5.29
27	-.17	1.28	-.05	2.71	-.316	2.56	1.57	6.73
28	-.78	1.61	.37	2.30	.228	2.69	1.16	5.75
29	1.62	1.16	.42	1.78	.393	2.51	.99	4.34
30	3.69	2.42	-2.74	3.03	-.298	5.63	2.09	10.72
31	-1.99	2.42	-2.07	2.27	.369	4.08	1.60	7.78
32	-.72	2.08	.11	1.73	.503	2.52	1.22	5.77
33	1.22	1.87	-.74	1.60	-.856	2.53	1.30	5.16
34	-1.00	1.98	-1.69	2.02	.089	2.93	1.79	6.29
35	-1.40	1.41	.21	1.59	.074	2.30	1.11	4.59
36	-4.66	3.38	-.93	5.24	-.523	6.96	3.59	13.79
37	.57	1.73	.52	2.78	.176	3.09	1.33	5.82
38	-1.38	2.14	-.77	2.17	.577	2.90	1.84	7.45
39	.08	2.06	1.07	1.49	-.421	2.42	1.32	6.01
40	-.21	1.27	.48	1.16	-.433	1.67	.66	3.56
41	.30	2.07	-.28	1.99	.117	2.59	1.29	5.58
42	.76	1.53	-.20	1.92	.101	2.47	.72	4.04
43	.77	.84	.14	.79	-.314	1.29	.53	2.60
44	-1.47	3.12	1.43	1.88	.025	3.76	1.81	7.83
45	.92	1.18	.95	2.31	.026	2.65	1.21	5.64
46	1.09	1.71	-.58	1.73	-.457	2.52	1.03	4.85
47	-.72	1.67	2.01	1.59	-.022	2.96	1.03	5.10
48	-1.35	1.26	.90	1.74	-.524	2.34	1.32	5.79
49	.09	1.69	-.21	1.32	-.320	2.01	.77	3.67
50	.52	.99	-.05	.99	-.297	1.37	.60	2.74

MEAN DU(M/S)= -.22
MEAN DV(M/S)= .10
SD DU(M/S)= 2.35
SD DV(M/S)= 2.29
R(DU,DV)= -.06
MEAN W(M/S)= 2.82
SD W(M/S)= 1.70
SD MEAN(M/S)= 1.00
MEAN MAXW(M/S)= 5.90
SD MAXW(M/S) 1.99

KSC .WL GT 1500M .SUMMER 3HR WIND CHANGE 3-9KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-1.65	1.38	2.21	1.66	.187	3.26	1.28	5.91
2	1.80	.80	.13	1.17	.104	2.19	.69	4.92
3	2.37	2.63	.37	1.97	.142	3.78	1.50	6.91
4	-.20	.61	1.93	2.16	.208	2.74	1.12	4.14
5	-1.02	1.76	-.56	1.24	.453	2.02	1.37	4.93
6	-1.46	1.21	.88	2.43	.752	2.99	1.16	5.60
7	-1.20	1.13	1.28	2.30	.187	2.92	1.03	4.89
8	-.11	2.99	.83	2.07	-.816	3.50	1.25	5.94
9	-.55	1.25	-1.19	1.58	.421	1.82	1.56	5.15
10	-.64	2.16	-.43	.95	-.010	2.07	1.36	6.18
11	1.13	1.24	1.96	1.00	.342	2.55	1.07	3.91
12	-.26	3.16	-.33	1.80	-.185	3.47	1.12	4.75
13	1.36	1.39	-1.14	1.28	.006	2.50	.68	3.61
14	-1.86	.77	1.25	1.56	-.215	2.62	1.08	4.62
15	.24	1.41	-.89	2.27	-.065	2.62	1.05	6.31
16	.63	1.77	.74	2.48	-.659	2.83	1.48	6.46
17	-.67	1.70	.11	1.45	.172	2.05	1.13	4.87
18	-1.29	3.78	-.60	2.52	.447	4.33	1.95	7.61
19	-.22	1.86	-.11	1.32	-.550	2.03	1.05	4.17
20	-1.64	2.06	-.16	1.26	-.741	2.56	1.42	5.29
21	.39	1.27	-.59	1.24	.636	1.56	1.10	5.40
22	-.05	1.43	.14	2.09	.547	2.33	.99	5.56
23	-.37	1.81	.60	1.26	.354	2.16	.82	4.06
24	.55	.58	-.51	1.10	.739	1.32	.61	2.22
25	-.49	.79	1.28	1.52	.509	2.08	.69	4.00
26	-1.17	1.89	-.74	1.77	.319	2.74	1.05	4.71
27	-.13	1.07	-.09	2.37	-.376	2.31	1.20	6.58
28	-.77	1.43	.37	2.18	.244	2.57	.93	4.66
29	1.62	.89	.43	1.63	.453	2.34	.88	4.34
30	3.68	2.13	-2.69	2.85	-.312	5.55	1.60	9.11
31	-1.95	2.28	-2.06	2.09	.405	3.87	1.60	7.40
32	-.73	1.94	.08	1.45	.657	2.27	1.10	4.96
33	1.21	1.75	-.73	1.41	-.890	2.36	1.21	4.65
34	-1.02	1.64	-1.70	1.73	.231	2.65	1.61	5.98
35	-1.38	1.27	.21	1.43	.240	2.18	.91	4.16
36	-4.62	3.06	-.90	4.96	-.531	6.65	3.43	12.21
37	.59	1.53	.51	2.66	.203	2.96	1.13	5.18
38	-1.38	2.00	-.75	1.95	.630	2.71	1.70	6.57
39	.08	1.83	1.12	1.41	-.463	2.26	1.22	5.06
40	-.21	1.15	.48	.89	-.571	1.43	.58	2.67
41	.29	1.58	-.25	1.82	-.148	2.13	1.17	4.41
42	.79	1.44	-.19	1.87	.122	2.40	.65	3.66
43	.78	.66	.14	.72	-.354	1.19	.40	2.64
44	-1.52	2.81	1.42	1.69	.078	3.59	1.45	6.14
45	.93	.93	.96	2.21	.102	2.49	1.15	4.87
46	1.07	1.57	-.57	1.58	-.530	2.37	.89	4.35
47	-.72	1.53	2.01	1.43	-.031	2.82	.99	5.05
48	-1.36	1.19	.91	1.52	-.545	2.24	1.17	5.21
49	.08	1.54	-.17	1.13	-.393	1.84	.54	2.85
50	.50	.78	-.04	.92	-.563	1.22	.46	2.34

MEAN DU(M/S)= -.21
MEAN DV(M/S)= .10
SD DU(M/S)= 2.19
SD DV(M/S)= 2.13
R(DU,DV)= -.05
MEAN W(M/S)= 2.63
SD W(M/S)= 1.57
SD MEAN(M/S)= .98
MEAN MAXW(M/S)= 5.14
SD MAXW(M/S) 1.69

KSC ,WL GT 3000M ,SUMMER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-1.57	.81	2.28	1.45	.471	3.11	.87	4.66
2	1.86	.65	.08	.69	-.521	2.02	.56	3.54
3	2.28	2.09	.30	1.49	.021	3.24	1.15	4.83
4	-.24	.53	1.94	1.88	.058	2.43	1.30	4.72
5	-.98	1.50	-.65	1.37	.655	1.93	1.33	4.58
6	-1.46	.94	.82	1.95	.771	2.65	.69	3.94
7	-1.21	1.18	1.29	1.96	.084	2.72	.96	4.01
8	-.21	2.72	.78	1.92	-.928	3.03	1.60	5.46
9	-.64	.89	-1.20	1.49	.828	1.61	1.51	5.20
10	-.71	2.17	-.35	.47	-.080	1.73	1.59	6.72
11	1.08	1.06	1.87	.86	.749	2.36	.98	3.55
12	-.31	3.01	-.32	1.28	-.139	3.11	1.07	4.42
13	1.43	.93	-1.16	1.15	.030	2.26	.69	3.71
14	-1.79	.56	1.24	1.02	-.073	2.33	.82	3.66
15	.34	1.04	-.85	2.21	-.191	2.37	1.06	5.29
16	.59	1.63	.86	2.51	-.690	2.80	1.49	5.86
17	-.70	1.49	.03	1.06	-.062	1.73	.92	3.23
18	-1.39	3.35	-.62	2.26	.553	3.83	1.99	7.07
19	-.19	1.27	-.09	1.20	-.757	1.46	.99	3.58
20	-1.57	1.70	-.07	1.04	-.922	2.08	1.46	4.60
21	.31	.95	-.54	.88	.601	1.26	.69	3.20
22	.02	1.26	.17	1.67	.620	1.96	.75	4.19
23	-.40	1.54	.67	1.03	.799	1.87	.73	4.10
24	.51	.46	-.49	1.06	.881	1.23	.55	2.06
25	-.61	.83	1.24	1.50	.330	2.10	.68	3.67
26	-1.15	1.70	-.89	1.44	.425	2.56	.69	3.62
27	-.05	.72	-.19	1.95	-.467	1.85	.95	5.94
28	-.84	.93	.35	2.11	.516	2.33	.84	4.79
29	1.69	.84	.54	1.48	.561	2.26	.97	4.66
30	3.65	1.94	-2.76	2.52	-.361	5.28	1.79	8.84
31	-1.94	2.07	-2.04	1.80	.589	3.40	1.97	6.38
32	-.66	1.64	.02	1.15	.710	1.93	.83	3.82
33	1.20	1.55	-.64	1.11	-.951	2.20	.80	3.36
34	-1.15	1.17	-1.83	1.41	.593	2.49	1.34	4.73
35	-1.37	1.01	.18	1.27	.379	2.04	.60	2.93
36	-4.64	2.82	-.97	4.28	-.608	6.31	2.97	11.05
37	.58	.92	.56	2.52	.186	2.61	.99	4.49
38	-1.33	1.95	-.71	1.78	.647	2.61	1.54	5.65
39	.03	1.27	1.17	1.16	-.416	1.81	1.02	3.50
40	-.22	1.01	.50	.61	-.760	1.13	.64	2.42
41	.30	.91	-.17	1.55	-.285	1.64	.80	3.32
42	.73	1.27	-.19	1.30	-.079	1.94	.31	2.82
43	.81	.56	.11	.45	-.415	1.00	.44	2.07
44	-1.39	2.82	1.39	1.06	-.106	3.24	1.55	5.91
45	.86	.52	.89	1.56	-.776	1.88	.85	4.27
46	1.00	1.16	-.56	1.37	-.824	1.95	.86	3.57
47	-.66	1.40	1.97	1.19	-.134	2.66	.79	4.12
48	-1.26	1.07	.86	1.35	-.567	1.94	1.24	4.70
49	.10	1.28	-.13	1.05	-.344	1.51	.69	3.26
50	.49	.67	-.08	.80	-.566	1.08	.41	1.75

MEAN DU(M/S)= -.22
MEAN DV(M/S)= .09
SD DU(M/S)= 2.00
SD DV(M/S)= 1.90
R(DU,DV)= -.07
MEAN W(M/S)= 2.34
SD W(M/S)= 1.49
SD MEAN(M/S)= .95
MEAN MAXW(M/S)= 4.44
SD MAXW(M/S) 1.64

KSC .WL GT 6000M .SUMMER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-1.55	.52	2.60	1.08	-.411	3.09	1.05	6.16
2	1.82	.34	.07	.41	-.778	1.87	.32	2.63
3	2.28	1.50	.28	1.19	.215	2.73	1.21	4.30
4	-.46	.63	1.80	1.54	-.292	2.02	1.47	4.90
5	-1.01	1.30	-.37	.42	.433	1.35	1.08	3.11
6	-1.60	.98	.72	.88	.832	2.15	.41	2.60
7	-.87	.60	1.11	.84	-.466	1.56	.79	2.69
8	-.51	1.61	1.19	.64	-.870	1.98	.87	3.50
9	-.63	1.54	-1.10	1.12	.836	1.59	1.64	6.22
10	-.88	1.69	-.17	.18	-.534	1.51	1.18	3.92
11	1.02	.78	2.31	.55	.845	2.62	.69	3.33
12	-.05	2.62	.13	.73	-.333	2.53	.99	4.49
13	1.30	.75	-1.17	.58	.159	1.91	.53	2.66
14	-1.64	.24	1.36	.95	.205	2.26	.61	3.43
15	.27	1.05	-.86	2.02	-.555	2.23	1.01	4.21
16	.92	.58	.77	1.99	-.252	2.05	1.23	5.01
17	-.96	.94	.29	1.04	.719	1.54	.76	2.79
18	-1.82	1.34	-1.07	1.12	.649	2.31	1.47	4.50
19	.07	.84	-.37	.88	-.804	1.12	.60	2.20
20	-1.69	1.64	-.14	.70	-.710	2.10	1.28	3.84
21	.43	1.13	-.53	.46	.867	1.30	.51	2.20
22	-.23	.57	.10	.56	-.120	.77	.32	1.59
23	-.32	1.26	.59	.80	.952	1.50	.65	2.99
24	.46	.17	-.80	.53	-.075	1.01	.37	1.54
25	-.56	.27	1.29	1.30	.642	1.80	.72	2.89
26	-1.38	1.51	-.94	1.19	.801	2.25	1.18	3.87
27	.11	.59	-.71	1.65	-.911	1.27	1.41	5.66
28	-1.14	1.00	.13	1.81	.890	2.20	.86	3.73
29	1.58	.52	.59	1.61	.939	2.14	1.07	5.24
30	3.81	1.62	-3.35	.92	.480	5.36	.75	7.23
31	-2.14	1.48	-2.07	1.56	.939	3.03	2.08	6.49
32	-.65	.75	.05	1.00	.818	1.28	.57	2.06
33	1.36	1.28	-.77	.91	-.831	2.00	.94	3.12
34	-1.00	1.17	-1.82	.96	.088	2.37	1.00	3.78
35	-1.60	1.11	-.04	.94	.862	1.95	.93	3.36
36	-4.87	2.08	-1.50	1.97	-.819	5.52	1.92	9.76
37	.53	.49	.92	1.66	.829	1.91	.68	3.25
38	-1.66	.86	-.73	1.61	.086	2.47	.73	3.81
39	.10	1.05	1.18	1.10	-.690	1.76	.78	2.86
40	-.32	.43	.36	.49	-.465	.72	.37	1.37
41	.43	.66	-.60	1.52	-.107	1.63	.78	4.25
42	1.08	.90	-.46	.68	.355	1.48	.68	2.44
43	.91	.45	.04	.35	.024	.97	.46	2.01
44	-1.70	1.31	1.65	.94	.412	2.71	.91	3.82
45	.78	.28	.91	1.44	-.515	1.60	1.02	4.06
46	.96	.80	-.85	.87	-.918	1.43	1.00	2.62
47	-.46	1.80	2.12	.86	.011	2.89	.56	3.64
48	-.97	.70	.66	.97	-.721	1.50	.75	2.56
49	-.09	.72	-.11	1.21	-.556	1.33	.48	2.58
50	.31	.75	-.11	.72	-.757	1.04	.34	1.49

MEAN DU(M/S)= -.25
MEAN DV(M/S)= .05
SD DU(M/S)= 1.76
SD DV(M/S)= 1.60
R(DU,DV)= -.03
MEAN W(M/S)= 1.99
SD W(M/S)= 1.32
SD MEAN(M/S)= .91
MEAN MAXW(M/S)= 3.66
SD MAXW(M/S) 1.59

KSC ,WL GT 9000M ,SUMMER 3HR WIND CHANGE 3-9KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-1.73	.73	3.08	.80	-.907	3.55	1.03	5.39
2	1.90	.28	.01	.22	-.917	1.91	.28	2.33
3	2.15	1.15	-.01	.75	.618	2.37	.94	3.41
4	-.63	.51	2.13	1.67	-.682	2.27	1.68	6.65
5	-1.19	1.13	-.32	.19	.466	1.36	.98	2.75
6	-1.32	.68	.82	.32	.365	1.65	.50	2.20
7	-.90	.75	1.19	.65	.509	1.71	.54	2.53
8	-.51	1.04	1.15	.32	-.535	1.58	.51	2.35
9	-1.07	2.03	-1.11	1.15	.991	2.10	1.85	6.53
10	-.95	1.10	-.26	.30	.679	1.18	.94	2.68
11	1.07	.65	2.21	.82	-.191	2.61	.60	3.28
12	-.10	1.87	-.06	1.15	.641	2.03	.84	4.27
13	1.27	.33	-1.24	.26	-.690	1.79	.38	2.32
14	-1.68	.33	1.44	.48	.009	2.25	.39	2.76
15	.46	1.14	-.84	1.40	-.810	1.79	.99	3.88
16	.82	.44	1.26	2.02	.355	2.11	1.43	4.97
17	-.87	.84	.37	1.03	.972	1.55	.49	2.49
18	-1.65	.38	-.98	.86	.529	2.04	.64	3.07
19	.12	1.00	-.25	.49	-.556	1.04	.48	2.16
20	-1.89	1.11	-.25	.58	-.082	2.01	1.08	3.25
21	.35	.49	-.57	.29	.922	.86	.19	1.15
22	-.18	.58	.01	.44	.370	.69	.29	1.36
23	-.15	.83	.71	.64	.992	1.19	.46	2.11
24	.44	.09	-.77	.44	.624	.96	.25	1.29
25	-.63	.20	1.17	.75	.768	1.49	.38	2.01
26	-1.19	1.13	-.94	.76	.858	1.71	1.11	3.10
27	.23	.40	-1.11	1.62	-.908	1.44	1.41	4.58
28	-1.11	.73	-.04	1.32	.892	1.83	.40	2.44
29	1.77	.81	.82	1.77	.997	2.39	1.37	5.73
30	3.90	.98	-3.73	.44	-.546	5.43	.88	7.07
31	-2.13	1.01	-2.10	1.03	.945	3.01	1.40	5.09
32	-.69	.45	.05	.93	.660	1.11	.57	1.87
33	1.39	.80	-.60	.64	-.381	1.67	.74	2.32
34	-.85	1.12	-1.99	.56	-.228	2.47	.40	3.06
35	-1.76	.92	-.09	.73	.719	1.99	.73	3.06
36	-5.25	.72	-1.43	.83	-.641	5.52	.65	6.85
37	.50	.40	.97	1.18	.773	1.52	.65	2.75
38	-1.58	.41	-.46	1.27	-.197	2.09	.32	2.69
39	.12	.42	1.34	.82	-.718	1.49	.65	2.28
40	-.26	.26	.48	.48	.644	.67	.38	1.95
41	.46	.48	-.19	2.20	-.152	2.08	1.00	5.25
42	1.04	.77	-.25	.73	.256	1.42	.49	2.16
43	.91	.32	.17	.85	.413	1.16	.58	2.90
44	-1.71	.58	1.45	.67	.350	2.34	.57	3.62
45	.73	.35	1.18	1.56	-.991	1.82	1.09	4.29
46	.85	.56	-.80	.58	-.954	1.18	.78	2.15
47	-.20	1.52	1.95	.55	-.214	2.53	.20	2.88
48	-1.04	.55	.67	.44	-.460	1.30	.59	2.10
49	-.09	.51	.07	1.20	-.692	1.17	.59	2.63
50	.19	.75	-.20	.35	-.303	.77	.40	1.46

MEAN DU(M/S)= -.25
MEAN DV(M/S)= .08
SD DU(M/S)= 1.63
SD DV(M/S)= 1.54
R(DU,DV)= -.02
MEAN W(M/S)= 1.88
SD W(M/S)= 1.24
SD MEAN(M/S)= .95
MEAN MAXW(M/S)= 3.23
SD MAXW(M/S) 1.51

KSC UNFILTERED SUMMER 3HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-.17	2.64	.13	5.14	-.604	5.42	1.98	9.11
2	2.03	1.65	-.36	2.41	-.238	3.22	1.55	6.58
3	.72	1.26	-.61	2.35	.246	2.58	1.14	5.91
4	.31	3.20	7.29	5.01	.332	8.43	4.18	15.03
5	-1.48	2.09	-.72	2.72	-.311	3.44	1.60	7.27
6	-2.26	3.14	-2.66	2.52	-.121	4.65	2.60	10.90
7	-2.87	2.95	-2.49	3.03	.466	4.98	2.74	10.83
8	-.04	3.10	-1.88	2.89	-.019	4.04	2.27	8.76
9	-4.51	4.31	-4.29	3.41	-.177	7.43	3.69	15.10
10	-2.31	3.38	-.94	2.82	-.448	4.76	1.68	10.17
11	.96	2.80	-2.34	3.46	-.691	4.61	2.21	8.00
12	-2.64	2.78	-4.22	4.07	.622	5.94	3.71	14.08
13	-.37	2.11	1.82	3.29	.274	3.42	2.65	12.44
14	.48	1.35	-1.31	2.64	-.200	3.02	1.26	5.44
15	2.49	2.43	-2.28	3.39	-.338	5.11	1.62	9.40
16	-.04	2.92	2.12	3.87	.337	5.14	1.21	7.41
17	2.10	2.14	1.06	1.98	-.345	3.39	1.59	8.07
18	-1.88	4.13	.91	2.07	.238	4.68	1.93	10.68
19	1.71	2.40	.38	2.41	.030	3.60	1.28	7.21
20	2.27	3.34	-1.36	2.35	-.080	4.17	2.49	10.33
21	.92	2.50	.14	2.29	.254	2.93	1.93	8.82
22	1.59	2.85	.16	2.28	-.291	3.47	1.94	7.07
23	1.32	1.71	1.90	1.44	.187	2.88	1.43	7.06
24	.57	1.44	-.91	1.74	-.646	2.22	1.15	5.51
25	.47	2.11	.87	1.81	-.229	2.70	1.20	5.19
26	.19	2.28	-.05	1.87	-.541	2.60	1.38	6.73
27	-.27	2.48	-2.47	3.67	-.702	4.28	2.73	10.05
28	-.52	3.28	-.07	2.47	.635	3.59	2.05	10.90
29	3.00	2.51	3.87	2.56	.400	5.46	2.65	11.07
30	3.00	2.74	-2.85	5.16	-.557	5.69	4.34	18.17
31	.15	3.69	-1.83	3.75	-.286	4.33	3.50	12.68
32	.21	1.78	1.83	1.78	-.246	2.81	1.36	7.08
33	.26	1.51	1.53	1.87	-.289	2.70	.95	5.44
34	1.42	3.25	-.75	2.62	-.379	3.78	2.38	11.60
35	2.48	5.17	-.94	2.41	.725	5.34	3.31	13.71
36	-1.66	3.39	1.13	3.55	.409	4.78	2.28	9.50
37	2.46	2.44	1.36	2.29	.059	3.90	1.97	8.47
38	.13	1.66	-.10	2.39	-.569	2.63	1.24	5.77
39	2.00	2.53	.72	2.43	.055	3.33	2.38	10.15
40	.99	2.43	2.87	2.24	.351	3.89	2.23	8.13
41	-2.39	2.62	6.04	5.67	.072	7.73	4.64	21.26
42	.72	2.49	2.02	2.64	-.616	3.90	1.58	8.11
43	.48	2.37	3.57	3.05	-.291	4.85	2.07	8.69
44	-2.58	3.37	.38	3.89	.495	5.10	2.69	10.43
45	.93	2.21	2.70	3.07	-.492	4.37	1.83	8.17
46	.29	3.04	1.47	3.92	.410	3.97	3.32	12.83
47	.64	3.19	.82	2.32	.404	3.63	1.85	9.82
48	-.91	1.98	-.44	2.13	-.617	2.75	1.36	5.81
49	.55	2.11	1.73	2.75	-.479	3.50	1.75	10.26
50	.47	2.27	-.60	2.36	.073	3.08	1.34	5.79

MEAN DU(M/S)= .23
MEAN DV(M/S)= .25
SD DU(M/S)= 3.19
SD DV(M/S)= 3.77
R(DU,DV)= .04
MEAN W(M/S)= 4.16
SD W(M/S)= 2.68
SD MEAN(M/S)= 1.34
MEAN MAXW(M/S)= 9.54
SD MAXW(M/S) 3.33

KSC, WL GT 500M, SUMMER 3 HR WIND CHANGE 9-16 KM

	U-COMPONENT CHANGE		V-COMPONENT CHANGE			VECTOR WIND CHANGE		
NP	MEAN	STD.DEV.	MEAN	STD.DEV.	R	MEAN	STD.DEV.	MAX
1	-.17	2.64	.13	5.14	-.606	5.42	1.98	8.93
2	2.03	1.64	-.37	2.38	-.240	3.20	1.54	6.55
3	.72	1.16	-.59	2.32	.315	2.51	1.12	5.31
4	.31	3.21	7.29	5.03	.334	8.43	4.21	15.11
5	-1.48	2.04	-.72	2.74	-.304	3.45	1.56	6.90
6	-2.25	3.17	-2.66	2.49	-.125	4.65	2.60	11.00
7	-2.87	2.95	-2.50	2.98	.482	4.95	2.74	10.85
8	-.04	3.08	-1.88	2.88	-.014	4.01	2.28	8.36
9	-4.51	4.31	-4.28	3.41	-.176	7.42	3.72	14.95
10	-2.32	3.37	-.94	2.83	-.445	4.78	1.66	9.33
11	.95	2.80	-2.33	3.46	-.694	4.61	2.22	7.85
12	-2.64	2.74	-4.23	4.07	.639	5.92	3.72	13.97
13	-.37	2.10	1.83	3.30	.274	3.42	2.65	12.76
14	.48	1.29	-1.32	2.61	-.203	2.99	1.20	5.40
15	2.50	2.45	-2.28	3.40	-.346	5.13	1.61	8.87
16	-.03	2.92	2.12	3.86	.341	5.14	1.19	7.05
17	2.10	2.11	1.05	1.94	-.341	3.35	1.58	7.44
18	-1.88	4.14	.91	2.06	.242	4.69	1.92	10.68
19	1.71	2.40	.38	2.40	.022	3.61	1.23	6.82
20	2.27	3.37	-1.36	2.36	-.087	4.20	2.50	10.42
21	.92	2.47	.14	2.24	.253	2.86	1.95	8.26
22	1.59	2.84	.16	2.26	-.292	3.45	1.94	7.12
23	1.33	1.68	1.89	1.37	.234	2.83	1.40	6.38
24	.57	1.42	-.90	1.70	-.672	2.19	1.12	5.05
25	.47	2.10	.86	1.79	-.234	2.67	1.18	5.24
26	.18	2.26	-.05	1.88	-.546	2.59	1.41	6.59
27	-.27	2.48	-2.48	3.68	-.708	4.30	2.71	10.02
28	-.52	3.25	-.08	2.47	.662	3.58	2.03	10.44
29	3.00	2.51	3.87	2.55	.407	5.44	2.67	11.14
30	3.01	2.69	-2.86	5.17	-.568	5.65	4.38	17.93
31	.15	3.72	-1.83	3.76	-.291	4.35	3.52	12.28
32	.20	1.78	1.84	1.77	-.261	2.81	1.34	6.63
33	.26	1.46	1.52	1.83	-.283	2.65	.93	5.42
34	1.41	3.24	-.75	2.60	-.373	3.79	2.33	10.11
35	2.47	5.19	-.94	2.41	.727	5.35	3.31	13.68
36	-1.66	3.39	1.14	3.57	.418	4.81	2.26	9.08
37	2.46	2.42	1.37	2.27	.076	3.85	2.02	8.34
38	.12	1.64	-.09	2.39	-.576	2.62	1.24	5.98
39	2.00	2.54	.72	2.43	.049	3.32	2.42	10.00
40	.99	2.44	2.88	2.21	.360	3.91	2.20	7.67
41	-2.39	2.62	6.04	5.72	.068	7.74	4.67	21.25
42	.72	2.46	2.02	2.64	-.640	3.91	1.54	8.27
43	.47	2.38	3.57	3.05	-.284	4.87	2.05	8.48
44	-2.58	3.38	.39	3.89	.495	5.09	2.70	10.20
45	.94	2.19	2.70	3.07	-.513	4.37	1.81	7.96
46	.29	3.06	1.47	3.92	.419	3.97	3.35	13.00
47	.65	3.20	.81	2.28	.405	3.61	1.85	9.49
48	-.91	1.95	-.44	2.06	-.641	2.70	1.33	5.59
49	.54	2.04	1.74	2.72	-.469	3.47	1.68	9.67
50	.48	2.26	-.60	2.36	.081	3.06	1.37	5.66

MEAN DU(M/S)= .23
MEAN DV(M/S)= .25
SD DU(M/S)= 3.19
SD DV(M/S)= 3.77
R(DU,DV)= .04
MEAN W(M/S)= 4.15
SD W(M/S)= 2.69
SD MEAN(M/S)= 1.35
MEAN MAXW(M/S)= 9.31
SD MAXW(M/S) 3.38

KSC, WL GT 1500M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.22	2.47	.07	4.92	-.646	5.19	1.82	8.13
2	2.03	1.30	-.37	2.19	-.369	3.02	1.25	5.36
3	.72	1.04	-.64	2.10	.478	2.36	.92	3.65
4	.32	2.79	7.26	4.85	.344	8.14	4.23	15.10
5	-1.52	1.68	-.68	2.55	-.247	3.27	1.18	4.87
6	-2.28	3.06	-2.63	2.19	-.124	4.66	2.13	10.13
7	-2.88	2.65	-2.51	2.37	.686	4.40	2.80	9.60
8	-.05	2.78	-1.86	2.57	-.005	3.80	1.81	7.46
9	-4.50	3.99	-4.30	3.01	-.247	7.17	3.49	13.79
10	-2.35	3.17	-.90	2.68	-.475	4.53	1.73	7.59
11	.98	2.56	-2.34	3.07	-.681	4.25	2.09	7.55
12	-2.63	2.39	-4.20	3.82	.790	5.53	3.78	13.93
13	-.38	1.75	1.75	2.90	.219	3.15	2.17	9.22
14	.52	1.06	-1.36	2.40	-.193	2.82	1.03	4.30
15	2.44	2.21	-2.29	3.14	-.354	4.90	1.37	8.02
16	.00	2.74	2.11	3.70	.387	4.95	1.01	7.07
17	2.06	1.84	1.05	1.68	-.297	3.06	1.47	6.24
18	-1.88	3.98	.87	1.75	.272	4.49	1.73	10.46
19	1.68	2.09	.37	2.24	.018	3.35	1.07	5.06
20	2.23	3.25	-1.34	2.20	-.043	4.00	2.48	10.59
21	.94	2.13	.12	1.63	.437	2.42	1.50	5.37
22	1.58	2.55	.13	1.65	-.303	2.89	1.83	6.52
23	1.33	1.38	1.91	1.04	.456	2.60	1.27	4.55
24	.58	1.32	-.89	1.48	-.781	2.04	.94	3.79
25	.52	1.88	.87	1.52	-.277	2.32	1.21	4.74
26	.20	2.06	-.08	1.61	-.557	2.31	1.23	5.20
27	-.28	2.24	-2.44	3.49	-.708	4.11	2.51	9.63
28	-.58	3.16	-.08	2.34	.741	3.43	2.00	10.39
29	2.96	2.38	3.91	2.28	.486	5.21	2.78	10.39
30	2.96	2.49	-2.93	4.66	-.622	5.12	4.36	15.20
31	.17	3.26	-1.82	3.45	-.272	3.92	3.25	11.64
32	.15	1.78	1.91	1.42	-.358	2.78	1.05	5.26
33	.26	1.19	1.47	1.62	-.338	2.33	.93	4.41
34	1.44	2.75	-.81	2.01	-.326	3.31	1.82	7.40
35	2.49	5.01	-.93	2.08	.807	5.08	3.25	12.81
36	-1.71	3.08	1.17	3.40	.530	4.63	1.95	8.18
37	2.48	1.95	1.39	1.98	.069	3.62	1.63	6.78
38	.14	1.46	-.11	2.21	-.678	2.37	1.19	5.28
39	1.90	2.24	.77	1.92	.114	2.97	2.02	8.86
40	1.01	2.18	2.81	2.01	.364	3.74	1.93	6.52
41	-2.40	2.22	6.02	5.36	.129	7.50	4.40	19.05
42	.71	2.26	2.04	2.32	-.701	3.67	1.27	6.09
43	.48	2.05	3.52	2.88	-.288	4.65	1.87	7.60
44	-2.52	3.24	.40	3.57	.515	4.72	2.72	8.97
45	.89	1.95	2.72	2.70	-.590	4.09	1.60	7.01
46	.31	2.80	1.39	3.34	.379	3.62	2.80	10.74
47	.60	2.86	.80	1.84	.389	3.24	1.44	6.33
48	-.83	1.60	-.45	1.63	-.712	2.24	1.05	5.07
49	.51	1.71	1.72	2.38	-.472	3.23	1.15	6.46
50	.48	2.06	-.63	2.09	.067	2.74	1.31	5.52

MEAN DU(M/S)= .22
MEAN DV(M/S)= .24
SD DU(M/S)= 2.98
SD DV(M/S)= 3.54
R(DU,DV)= .06
MEAN W(M/S)= 3.88
SD W(M/S)= 2.54
SD MEAN(M/S)= 1.34
MEAN MAXW(M/S)= 8.08
SD MAXW(M/S) 3.35

KSC, WL GT 3000M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.27	2.25	.03	4.65	-.711	4.82	1.85	7.58
2	1.93	.88	-.37	2.01	-.634	2.79	.94	4.73
3	.68	.77	-.70	1.79	.593	2.03	.77	3.25
4	.37	2.32	7.32	4.29	.324	7.85	3.99	13.75
5	-1.46	1.57	-.63	1.95	-.398	2.85	.81	4.04
6	-2.41	2.15	-2.56	1.96	.222	4.29	1.54	7.39
7	-2.84	2.39	-2.42	1.84	.598	4.10	2.51	8.98
8	-.11	2.22	-1.84	1.98	-.234	3.33	1.08	5.41
9	-4.36	3.66	-4.32	2.64	-.437	7.04	2.89	11.64
10	-2.26	2.30	-.84	1.99	-.597	3.69	1.20	6.85
11	.94	2.39	-2.22	2.77	-.713	3.92	1.95	7.28
12	-2.66	1.90	-4.17	3.27	.833	5.15	3.50	11.32
13	-.22	1.94	1.67	2.21	.191	2.84	1.83	6.43
14	.47	.58	-1.27	2.23	-.320	2.29	1.38	4.57
15	2.35	1.73	-2.37	2.61	-.255	4.22	1.78	7.57
16	.02	2.28	1.98	3.49	.477	4.52	.92	5.87
17	1.98	1.46	1.07	1.47	-.284	2.79	1.25	4.36
18	-2.01	3.96	.92	1.16	.632	4.18	2.10	9.59
19	1.69	1.28	.32	2.02	.313	2.71	1.15	4.73
20	2.05	2.47	-1.34	1.74	.266	3.64	1.36	6.84
21	.98	1.70	.11	1.01	.467	1.99	.97	4.01
22	1.56	2.28	.12	.76	-.342	2.33	1.67	5.64
23	1.33	1.19	1.85	.60	.861	2.41	1.08	4.39
24	.50	1.19	-.90	1.27	-.883	1.83	.86	3.60
25	.57	1.31	.89	1.05	.051	1.73	.97	3.46
26	.20	1.74	-.06	1.10	-.628	1.79	1.03	4.84
27	-.26	1.90	-2.26	3.16	-.667	3.75	2.17	8.38
28	-.65	2.98	.01	1.93	.740	3.11	1.82	8.45
29	2.96	1.94	3.84	2.01	.707	4.98	2.55	8.79
30	2.98	2.29	-2.86	3.55	-.729	4.87	3.35	11.70
31	.00	2.48	-1.68	2.56	-.392	3.38	2.02	8.17
32	.14	1.49	1.93	.63	-.712	2.46	.54	3.41
33	.29	1.07	1.34	1.58	-.378	2.20	.80	3.62
34	1.53	1.96	-.70	1.30	-.324	2.55	1.37	5.63
35	2.48	4.59	-.92	1.84	.946	4.68	3.09	11.32
36	-1.54	2.69	1.16	2.21	.333	3.79	1.20	6.82
37	2.53	1.17	1.36	1.83	.253	3.36	1.27	5.85
38	.08	1.19	-.16	1.86	-.891	1.88	1.16	3.88
39	1.79	1.34	.81	1.46	.510	2.53	1.19	5.47
40	.96	1.76	2.67	1.72	.365	3.28	1.83	6.52
41	-2.39	1.52	5.94	4.35	.280	6.82	3.95	15.11
42	.81	1.90	1.88	1.61	-.626	3.01	1.15	5.56
43	.48	1.02	3.52	2.30	-.652	3.91	1.90	6.63
44	-2.42	3.22	.50	3.17	.629	4.51	2.46	8.89
45	.89	1.35	2.81	2.22	-.728	3.69	1.35	5.54
46	.40	2.14	1.22	2.12	.352	2.76	1.74	5.17
47	.47	2.37	.80	1.54	.309	2.78	1.04	4.57
48	-.90	1.18	-.43	1.30	-.778	1.88	.72	3.29
49	.54	1.24	1.66	2.11	-.549	2.89	.84	4.15
50	.46	1.83	-.49	1.77	.023	2.45	.96	4.33

MEAN DU(M/S)= .21
MEAN DV(M/S)= .24
SD DU(M/S)= 2.64
SD DV(M/S)= 3.17
R(DU,DV)= .09
MEAN W(M/S)= 3.45
SD W(M/S)= 2.27
SD MEAN(M/S)= 1.35
MEAN MAXW(M/S)= 6.59
SD MAXW(M/S) 2.81

KSC, WL GT 6000M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	MAX
1	-.44	2.00	-.26	3.59	-.885	3.87	1.47	6.47
2	1.86	.46	-.22	1.00	-.106	2.14	.37	2.83
3	.57	.67	-.69	1.41	.889	1.68	.62	2.67
4	.65	1.36	7.92	3.17	.230	8.08	3.13	11.96
5	-1.42	1.19	-.89	1.10	-.134	2.10	1.00	3.32
6	-2.64	1.93	-2.69	1.11	.702	3.96	1.86	7.40
7	-3.28	.89	-2.39	1.91	.749	4.31	1.53	6.91
8	.02	1.13	-2.14	1.51	-.099	2.57	1.24	3.97
9	-4.41	2.78	-4.73	1.25	-.067	6.87	1.97	9.57
10	-2.16	.85	-1.06	1.08	-.873	2.76	.31	3.62
11	1.16	2.03	-2.35	2.69	-.741	3.90	1.73	6.57
12	-3.09	1.36	-4.52	2.96	.917	5.75	2.76	9.53
13	.25	1.61	1.61	1.37	-.415	2.33	1.31	5.44
14	.50	.70	-1.52	1.33	-.344	1.98	.94	3.64
15	2.56	1.00	-2.68	.83	-.192	3.80	1.00	5.17
16	-.18	1.77	2.43	2.99	.505	3.94	1.56	6.14
17	2.16	1.38	.94	1.11	.265	2.74	1.09	4.00
18	-1.85	2.72	1.14	.51	.780	3.17	1.50	7.22
19	1.67	1.45	.50	1.47	.875	2.52	.97	3.90
20	2.07	2.13	-1.32	1.54	.332	3.53	.67	4.98
21	1.18	.80	.10	.85	.555	1.62	.39	2.28
22	1.80	1.54	.11	.41	-.110	1.90	1.48	4.27
23	1.24	.54	1.79	.23	.545	2.22	.43	3.00
24	.26	.62	-.74	.78	-.863	1.13	.58	2.01
25	.61	.76	.99	.60	-.443	1.40	.56	2.22
26	.41	1.22	-.18	.88	-.736	1.31	.86	4.22
27	-.36	1.48	-1.93	2.39	-.142	2.98	1.70	5.98
28	-.61	2.82	.19	1.02	.254	2.58	1.65	7.18
29	3.28	1.55	3.95	1.83	.899	5.17	2.30	8.09
30	2.75	1.33	-2.55	2.32	-.743	3.98	2.32	8.85
31	.08	1.11	-1.53	1.43	-.269	1.92	1.39	4.48
32	.18	.78	2.02	.28	-.240	2.18	.20	2.63
33	.27	.91	1.30	1.59	-.459	2.13	.76	2.95
34	1.42	1.05	-.80	.81	-.566	1.79	1.10	3.77
35	2.63	3.34	-.87	1.12	.970	3.94	2.14	8.03
36	-1.75	1.87	1.32	1.59	.057	3.00	1.35	4.32
37	2.40	.97	1.04	.98	-.133	2.80	.93	3.89
38	.26	.85	-.22	1.41	-.759	1.52	.72	2.82
39	1.79	1.12	.70	.93	-.395	2.25	.88	4.10
40	1.27	.71	2.68	1.45	.047	3.18	1.13	4.93
41	-2.62	1.34	6.32	2.90	.335	7.16	2.39	11.22
42	.69	.78	1.96	1.27	.154	2.38	.94	3.73
43	.13	.51	3.73	1.69	.174	3.79	1.64	5.83
44	-2.30	2.01	.14	1.91	.815	3.26	1.54	5.92
45	.76	.94	2.90	2.17	-.800	3.49	1.55	5.39
46	.62	.92	1.45	.91	.559	1.79	.98	3.93
47	.36	1.68	.67	1.17	.035	2.04	.76	3.74
48	-1.05	.75	-.23	.53	-.643	1.26	.64	2.47
49	.57	.79	1.66	2.05	-.902	2.72	.69	3.80
50	.62	1.31	-.72	1.07	.411	1.90	.35	2.51

MEAN DU(M/S)= .22
MEAN DV(M/S)= .25
SD DU(M/S)= 2.23
SD DV(M/S)= 2.85
R(DU,DV)= .15
MEAN W(M/S)= 3.02
SD W(M/S)= 2.04
SD MEAN(M/S)= 1.51
MEAN MAXW(M/S)= 5.08
SD MAXW(M/S) 2.37

KSC, WL GT 9000M, SUMMER 3 HR WIND CHANGE 9-16 KM

NP	U-COMPONENT CHANGE MEAN	U-COMPONENT CHANGE STD.DEV.	V-COMPONENT CHANGE MEAN	V-COMPONENT CHANGE STD.DEV.	R	VECTOR WIND CHANGE MEAN	VECTOR WIND CHANGE STD.DEV.	VECTOR WIND CHANGE MAX
1	-.39	1.56	-.35	2.28	-.884	2.60	1.06	5.32
2	1.75	.67	-.20	.61	.658	1.93	.45	2.36
3	.80	.71	-.52	.80	.724	1.33	.54	2.31
4	.90	.94	7.43	2.72	-.519	7.62	2.50	10.58
5	-1.61	.63	-.81	.90	-.009	2.01	.63	2.76
6	-3.13	1.98	-2.63	.80	.668	4.20	1.91	7.32
7	-3.07	.93	-2.09	1.41	.978	3.83	1.40	5.90
8	.19	.89	-2.11	1.17	-.497	2.38	.98	3.38
9	-3.99	2.26	-5.00	.71	-.425	6.73	1.12	8.21
10	-2.10	.59	-1.18	.57	-.924	2.53	.28	2.98
11	1.07	1.80	-1.89	2.04	-.791	3.23	1.30	5.17
12	-3.23	.90	-3.89	2.95	.955	5.49	2.22	8.45
13	.74	1.59	1.15	1.16	-.729	2.09	1.16	5.46
14	.66	1.09	-1.73	.99	-.893	2.05	1.18	5.09
15	2.22	1.24	-2.94	.45	-.327	3.83	.81	4.94
16	-.33	1.82	2.75	1.50	.377	3.32	1.47	5.71
17	1.96	1.21	.83	.94	.687	2.39	1.05	3.53
18	-2.09	2.14	1.13	.27	.061	2.73	1.70	5.91
19	1.35	1.77	.26	1.18	.961	2.37	.89	3.44
20	2.05	1.56	-1.01	1.45	.673	3.10	.38	3.63
21	1.28	.40	-.01	.54	.159	1.41	.32	2.11
22	1.81	.65	.01	.37	.529	1.85	.64	2.88
23	1.08	.38	1.81	.11	.954	2.12	.26	2.51
24	.16	.36	-.77	.37	-.623	.85	.41	1.46
25	.71	.25	1.23	.40	.009	1.45	.37	2.12
26	.53	.97	-.38	.99	-.978	.97	1.19	4.12
27	-.23	1.08	-1.57	1.97	.561	2.41	1.32	4.59
28	-1.04	2.41	.35	.78	-.775	2.13	1.76	6.24
29	3.06	1.65	4.04	.93	.886	5.18	1.57	7.15
30	2.79	1.05	-2.58	1.39	-.701	3.88	1.54	7.18
31	.29	1.27	-1.28	.78	.070	1.82	.79	2.92
32	.30	.59	2.14	.31	.802	2.24	.35	2.74
33	.43	.48	.97	1.34	-.313	1.66	.61	2.39
34	1.29	.41	-.76	.46	-.894	1.52	.56	2.59
35	2.59	1.61	-.81	.43	.823	2.91	1.28	5.03
36	-1.54	1.88	.92	1.29	-.460	2.64	1.20	4.70
37	2.35	.70	1.09	.65	.229	2.65	.74	3.20
38	.41	1.07	-.18	.69	-.171	1.21	.59	2.79
39	1.76	.97	.82	.51	-.515	2.12	.68	3.26
40	1.22	.45	2.51	1.05	-.131	2.90	.83	4.12
41	-2.54	1.01	6.07	1.67	.375	6.72	1.42	8.79
42	.75	.64	1.73	1.03	.735	2.04	.93	3.17
43	.48	.53	3.63	.98	-.750	3.73	.88	4.91
44	-2.04	1.75	.40	1.14	.887	2.71	1.15	4.61
45	.76	.52	2.88	1.47	-.678	3.09	1.31	4.66
46	.82	.66	1.50	.82	.777	1.74	1.00	3.59
47	.41	.78	.74	.48	-.032	1.13	.51	2.28
48	-.94	.77	-.10	.37	-.308	1.14	.58	1.96
49	.68	.94	1.39	1.95	-.970	2.59	.59	3.47
50	.60	.78	-.46	.98	.423	1.44	.21	1.80

MEAN DU(M/S)= .24
MEAN DV(M/S)= .25
SD DU(M/S)= 2.04
SD DV(M/S)= 2.54
R(DU,DV)= .16
MEAN W(M/S)= 2.72
SD W(M/S)= 1.83
SD MEAN(M/S)= 1.48
MEAN MAXW(M/S)= 4.32
SD MAXW(M/S) 2.05

APPENDIX B

Bivariate Normal Statistics of the Wind Change Vector

Page numbers for the various data bases are given in the table below. The numbers within the table represent an abbreviation of the actual page number; for example, 'B-2' is entered as '2' in the table.

VAFB,UNFILTERED ,WINTER 3HR WIND CHANGE

ALTITUDE	DUBAR	SIGDU	DVBAR	SIGDV	COR	NOBS
.0	.00	.0000	.00	.0000	.000	50
.5	.21	2.5188	.68	5.1487	.194	50
1.0	-.33	3.3286	.18	3.6582	-.028	50
1.5	-.24	3.1854	.17	3.9424	-.220	50
2.0	.50	3.2081	.15	5.2748	-.125	50
2.5	-.47	3.5181	.86	4.6424	-.049	50
3.0	-.39	4.0707	.63	4.1994	.002	50
3.5	-.16	4.0938	.40	4.6611	.031	50
4.0	-.57	4.9930	.32	4.6232	-.168	50
4.5	-.56	4.5410	-.01	4.2721	-.063	50
5.0	-.66	4.1136	-.91	5.8142	.212	50
5.5	.17	4.1955	-1.14	6.2635	.240	50
6.0	.48	5.3042	-1.47	7.9870	.114	50
6.5	-.17	5.9753	-1.52	8.2979	.372	50
7.0	.35	8.0316	-1.33	9.0426	.564	50
7.5	.00	9.3187	-1.08	10.3884	.645	50
8.0	-.54	10.0152	-.34	11.1869	.797	50
8.5	-.05	9.3115	.45	11.4792	.795	50
9.0	-.21	9.4840	.07	11.6001	.714	50
9.5	-.42	8.6849	-.01	10.0036	.689	50
10.0	-.49	8.1819	-.66	10.0735	.632	50
10.5	-1.09	8.6132	.08	9.4433	.577	50
11.0	-.28	7.7378	-.12	8.9661	.607	50
11.5	-.77	7.3135	.17	7.4421	.589	50
12.0	.09	6.5988	.20	6.0789	.330	50
12.5	-.09	6.5833	-.50	5.2253	.222	50
13.0	-1.07	5.6246	-.13	5.2773	.192	50
13.5	-.85	4.3464	-.23	4.8164	.145	50
14.0	-.49	4.5411	.27	3.8995	.392	50
14.5	.42	5.3960	.71	3.9908	-.034	50
15.0	-.39	4.0918	.88	3.6898	.030	50
15.5	-.24	4.5890	-.18	3.6643	.302	50
16.0	-.30	4.8020	.29	4.0407	.274	50
16.5	.75	4.8200	-.36	2.7997	-.177	50
17.0	-.14	5.4614	.59	4.0873	.278	50
17.5	-.18	4.8068	.35	3.7533	.161	50
18.0	-.72	4.2174	-.66	4.4098	.232	50
18.5	-.68	3.4118	-.37	3.9228	.413	50
19.0	-.38	2.4054	-.12	3.4080	.461	50
19.5	-.19	1.2025	-.08	1.7188	.448	50
20.0	.00	.0000	.00	.0000	.000	50

SANTA MONICA 6HR CHANGE JANUARY

ALTITUDE	DUBAR	SIGDU	DVBAR	SIGDV	COR	NOBS
.0	.04	3.3325	.18	2.9512	.605	220
1.0	-.03	3.7055	-.08	3.6397	-.096	220
2.0	.07	3.8889	-.43	4.4095	.155	220
3.0	.26	4.3396	-.24	4.5760	-.008	220
4.0	.28	4.6986	-.28	4.9821	.099	220
5.0	.23	4.7401	-.47	6.3048	.084	220
6.0	.10	5.9622	-.65	7.6042	.106	220
7.0	.00	6.6473	-.64	8.9486	.106	220
8.0	-.17	7.5050	-.40	9.5154	.170	220
9.0	.12	8.0001	-.31	10.6471	.171	220
10.0	.30	8.4655	.10	9.7874	.176	220
11.0	.29	8.1432	-.39	9.5364	.159	220
12.0	.45	6.4402	.18	8.5698	.168	220
13.0	.78	5.7257	-.05	6.5048	-.024	220
14.0	.64	5.7182	.31	5.2001	.077	220
15.0	.31	4.8892	.36	4.8501	-.090	220
16.0	.08	4.7762	.50	4.0625	-.053	220
17.0	.21	3.9784	.07	3.5075	-.095	220
18.0	.27	3.7990	-.04	3.1618	-.043	220
19.0	.27	3.9956	-.11	3.5973	.076	220
20.0	.15	3.3189	.26	2.5730	-.179	220
21.0	.23	3.2683	.27	2.5716	-.008	220
22.0	-.09	3.0708	.27	2.9173	-.174	220
23.0	.06	3.2510	.41	2.6765	.151	220
24.0	.32	3.3276	.16	2.7273	.102	220
25.0	.37	3.6259	-.03	2.7966	-.087	220
26.0	.27	3.8033	.07	3.1671	-.064	220
27.0	.07	3.5599	.06	3.1488	-.060	220

SANTA MONICA 6HR CHANGE WINTER

ALTITUDE	DUBAR	SIGDU	DVBAR	SIGDV	COR	NOBS
.0	-.04	3.5498	-.04	3.1021	.542	880
1.0	-.08	3.3855	-.14	3.4870	-.095	880
2.0	-.02	3.8551	-.16	4.1184	.098	880
3.0	-.18	4.4591	-.10	4.6737	.113	880
4.0	-.05	4.6856	-.06	5.0709	.089	880
5.0	-.08	4.7346	-.01	5.7348	.091	880
6.0	-.16	5.6755	-.09	6.6426	.085	880
7.0	-.19	6.3793	-.03	7.5830	.089	880
8.0	-.26	7.1342	-.08	8.3179	.101	880
9.0	.03	7.7756	-.07	9.0437	.183	880
10.0	.19	8.0485	-.04	8.9338	.174	880
11.0	.12	7.7488	-.42	8.5891	.138	880
12.0	.08	6.7069	-.19	7.6835	.137	880
13.0	.28	5.6514	-.31	6.0003	.067	880
14.0	.15	5.3257	-.21	4.8948	.068	880
15.0	.03	4.5739	-.07	4.2863	.035	880
16.0	.03	4.4014	.08	3.8766	.001	880
17.0	.07	4.1151	-.12	3.3987	.018	880
18.0	.11	3.8502	.03	3.0306	-.006	880
19.0	.11	3.7653	-.12	3.2679	-.006	880
20.0	.07	3.5039	.06	2.8975	-.081	880
21.0	.11	3.3940	.01	2.8256	-.050	880
22.0	-.01	3.3593	.04	2.8635	-.054	880
23.0	.00	3.3393	.07	2.5389	-.014	880
24.0	.06	3.4103	-.01	2.7052	-.028	880
25.0	.20	3.4357	-.06	2.6926	-.067	880
26.0	.21	3.5390	-.10	2.8762	-.017	880
27.0	.09	3.5681	-.04	3.0124	.004	880

VAFB 7HR CHANGE WINTER 57 PAIRS

ALTITUDE	DUBAR	SIGDU	DVBAR	SIGDV	COR	NOBS
.0	.00	.0000	.00	.0000	.000	57
.5	1.84	4.1751	-.35	3.9155	.375	57
1.0	1.11	4.5246	-.27	5.3412	.157	57
1.5	1.42	4.8081	.16	3.8592	.059	57
2.0	1.55	5.0863	-.64	4.2068	.208	57
2.5	1.34	5.0549	-.70	4.3824	.210	57
3.0	.47	4.2842	-.05	4.6965	.232	57
3.5	.97	4.2517	-.78	4.3354	.224	57
4.0	.14	4.8212	-.77	5.8417	.014	57
4.5	.71	4.9659	-.83	4.9838	-.098	57
5.0	.51	4.3480	-.78	5.6057	.105	57
5.5	1.08	4.4259	-.42	5.4708	.062	57
6.0	1.07	6.3593	-.48	5.9741	.231	57
6.5	.74	6.9314	-.71	6.2054	.389	57
7.0	-.93	7.2830	-1.22	8.2449	.658	57
7.5	-1.10	9.4781	-1.87	9.7394	.650	57
8.0	-1.00	11.0647	-1.93	10.5500	.664	57
8.5	-1.33	10.5040	-1.75	11.2246	.644	57
9.0	-.65	10.6092	-2.27	10.7298	.642	57
9.5	-.66	9.4879	-1.83	10.3270	.458	57
10.0	.28	9.7533	-.53	9.5086	.453	57
10.5	.31	8.1605	.88	8.6208	.524	57
11.0	.35	7.4219	1.40	8.4439	.474	57
11.5	-.35	6.8329	1.06	7.9905	.334	57
12.0	.25	7.2663	1.74	7.8281	.613	57
12.5	.04	6.8022	1.52	6.2130	.471	57
13.0	1.28	5.9575	.25	6.0837	.086	57
13.5	1.93	4.3728	.80	6.4358	.122	57
14.0	.07	3.0527	2.35	6.1092	-.076	57
14.5	1.38	4.4395	.85	5.6718	.179	57
15.0	.67	5.0685	1.17	6.5395	.324	57
15.5	1.41	4.6178	-.32	6.2420	.238	57
16.0	-.84	4.5128	-.09	4.8927	.248	57
16.5	-.08	4.5575	-.45	4.0259	.259	57
17.0	1.21	3.6311	.43	5.0116	.153	57
17.5	1.20	5.2375	-.67	4.7090	-.066	57
18.0	1.46	4.3162	-.04	4.1826	-.003	57
18.5	.82	3.1346	-1.32	3.7983	-.028	57
19.0	.41	2.3469	-.51	2.7676	.137	57
19.5	.21	1.1779	-.28	1.4201	.129	57
20.0	.00	.0000	.00	.0000	.000	57

SANTA MONICA 12HR CHANGE JANUARY

ALTITUDE	DUBAR	SIGDU	DVBAR	SIGDV	COR	NOBS
.0	-.09	4.4196	.17	3.8752	.665	186
1.0	-.04	4.5828	-.01	3.9879	-.067	186
2.0	.31	5.2070	-.30	5.0866	.143	186
3.0	.87	5.4350	-.36	6.3846	.119	186
4.0	.28	6.6506	.18	7.6944	.171	186
5.0	.53	6.9749	-.23	9.9222	.227	186
6.0	.89	7.7210	-.21	11.0484	.071	186
7.0	.63	8.9684	-.47	12.8649	.157	186
8.0	.59	9.8431	-.34	14.6020	.293	186
9.0	.98	11.0545	-.03	16.0470	.267	186
10.0	.97	10.2734	.27	15.7069	.276	186
11.0	1.20	9.8882	.60	13.8175	.276	186
12.0	.81	9.1094	.41	11.6710	.284	186
13.0	.52	8.7099	.22	9.5227	.236	186
14.0	-.16	7.0920	.27	8.0716	.172	186
15.0	-.18	6.1227	-.06	6.4785	.114	186
16.0	.06	4.9796	-.09	5.6708	.204	186
17.0	.21	5.3699	-.23	4.7881	.159	186
18.0	-.10	4.9848	-.06	4.2541	.157	186
19.0	.09	4.5611	.03	3.8798	.144	186
20.0	.31	4.4419	-.09	3.5066	.098	186
21.0	.21	4.2740	.09	3.0819	.036	186
22.0	.27	4.3328	-.08	3.1518	-.045	186
23.0	.16	4.2902	-.07	3.0945	-.013	186
24.0	.21	4.2590	-.16	3.2197	-.070	186
25.0	.10	4.5292	-.35	3.8534	.042	186
26.0	.07	5.1335	-.33	3.6308	.100	186
27.0	-.08	5.6178	-.37	4.2613	.108	186

SANTA MONICA 12HR CHANGE WINTER

ALTITUDE	DUBAR	SIGDU	DVBAR	SIGDV	COR	NOBS
.0	.05	4.9382	.01	3.9539	.692	724
1.0	.14	4.0655	-.14	4.0926	-.044	724
2.0	.18	4.9900	-.07	5.0476	.075	724
3.0	.41	5.8851	-.05	6.0703	.086	724
4.0	.29	6.6186	.03	6.8830	.169	724
5.0	.29	6.9833	-.08	8.2079	.180	724
6.0	.49	8.0833	.05	9.3900	.074	724
7.0	.37	9.1153	-.11	10.5766	.127	724
8.0	.54	10.2657	-.06	12.2663	.202	724
9.0	.52	10.7738	-.12	13.4918	.222	724
10.0	.20	11.0020	-.25	13.7514	.247	724
11.0	.57	10.5929	-.34	12.6643	.239	724
12.0	.32	9.4120	-.10	10.6896	.210	724
13.0	.20	8.4050	-.05	8.9862	.157	724
14.0	-.05	7.1578	.16	7.4875	.138	724
15.0	.04	5.7628	-.12	6.2346	.125	724
16.0	.11	4.9956	-.11	5.3410	.139	724
17.0	.20	5.2176	-.18	4.4983	.036	724
18.0	.02	4.8234	-.13	4.1302	-.069	724
19.0	.12	4.5670	.02	3.6909	-.042	724
20.0	.32	4.1605	-.15	3.3192	-.004	724
21.0	.18	3.8943	.04	3.2335	-.087	724
22.0	.19	4.0329	-.01	3.2645	-.037	724
23.0	.14	3.9962	.03	3.2273	-.028	724
24.0	.18	4.1539	.02	3.1656	.059	724
25.0	.08	4.2449	-.06	3.3886	.058	724
26.0	.01	4.6451	-.01	3.4089	.079	724
27.0	.09	5.1076	-.04	3.8489	.110	724

APPENDIX C

Plots of Bivariate Normal Statistics Listed in Appendix B

VAFB 3.5 HR COMPONENT CHANGE
WINTER
MEAN, M/S
20
10
0
-10
-20
-30
26
24
22
20
18
16
14
12
10
8
6
4
2
0

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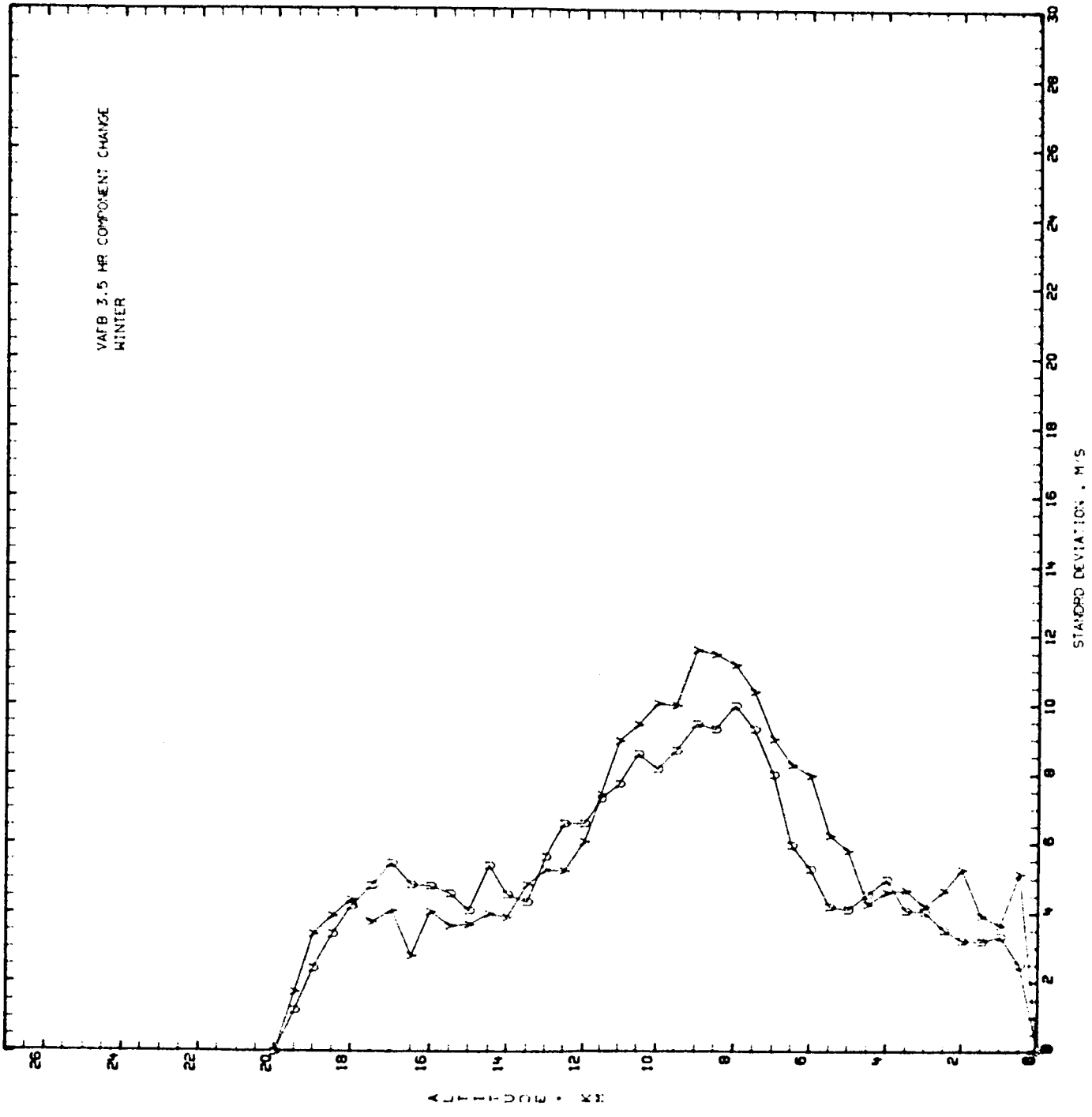

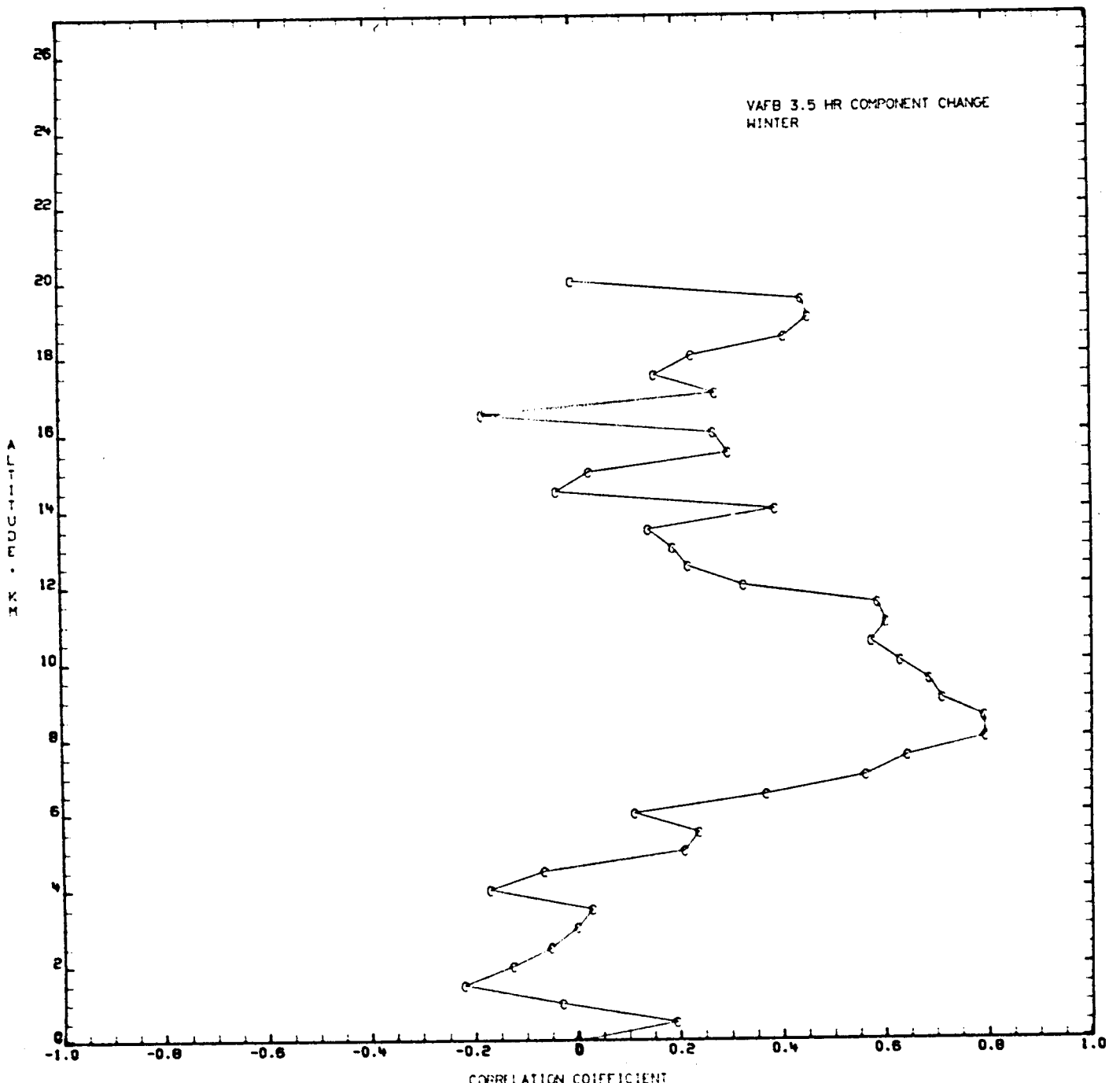
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WINTER
ALTITUDE - KM
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2
4
6
8
10
12
14
16
18
20
22
24
26
-1.0
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1.0
CORRELATION COEFFICIENT

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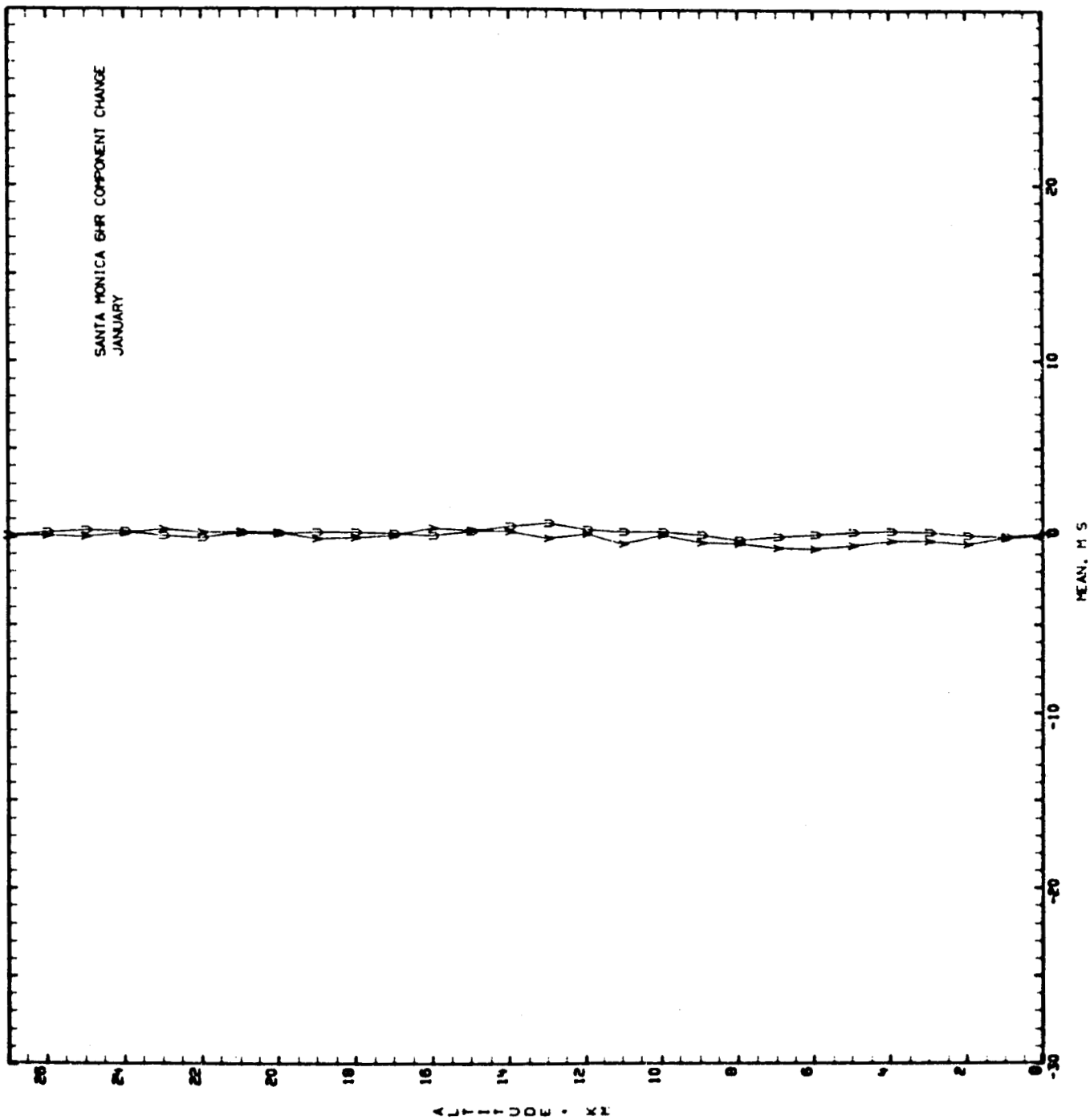

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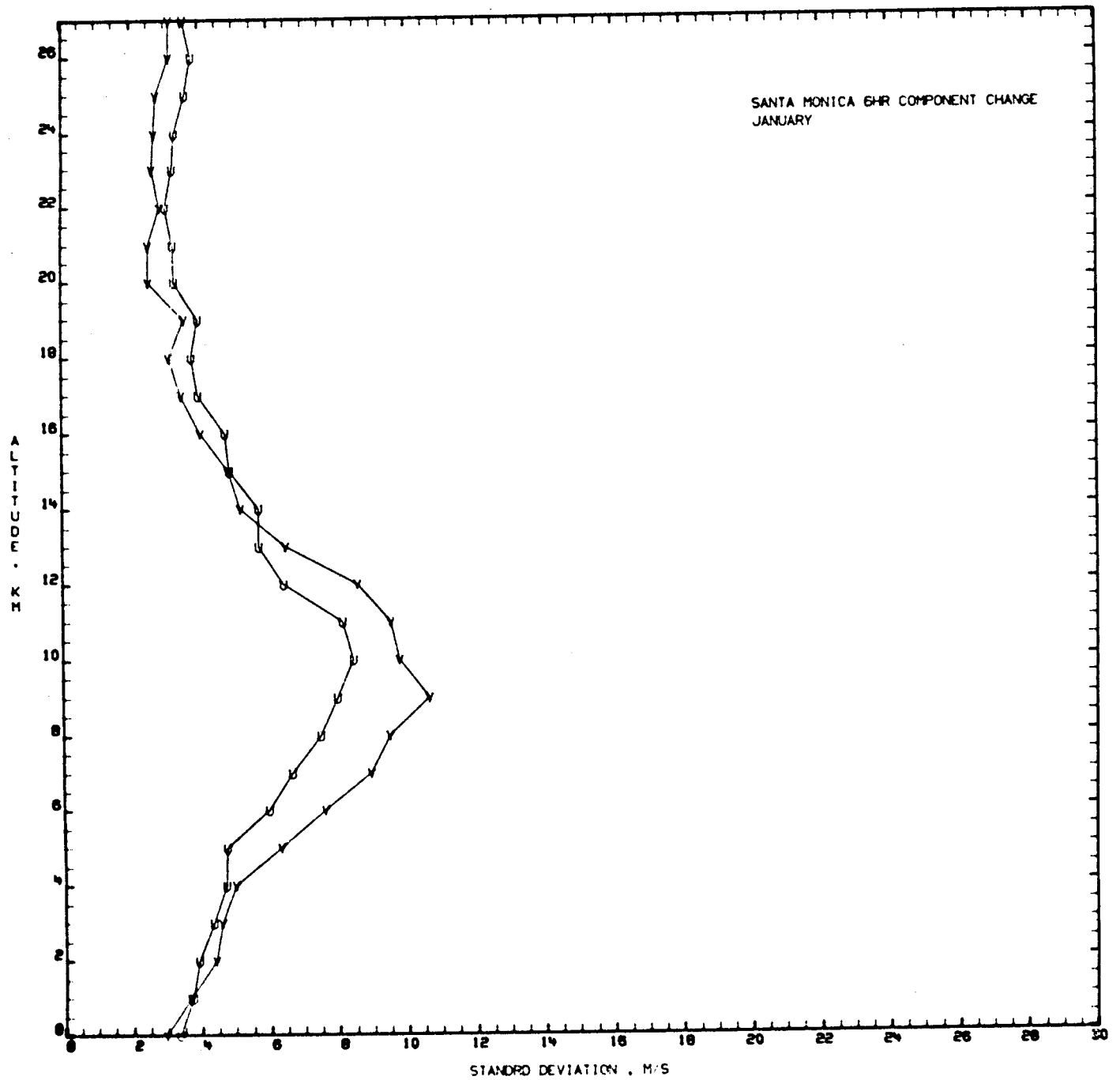
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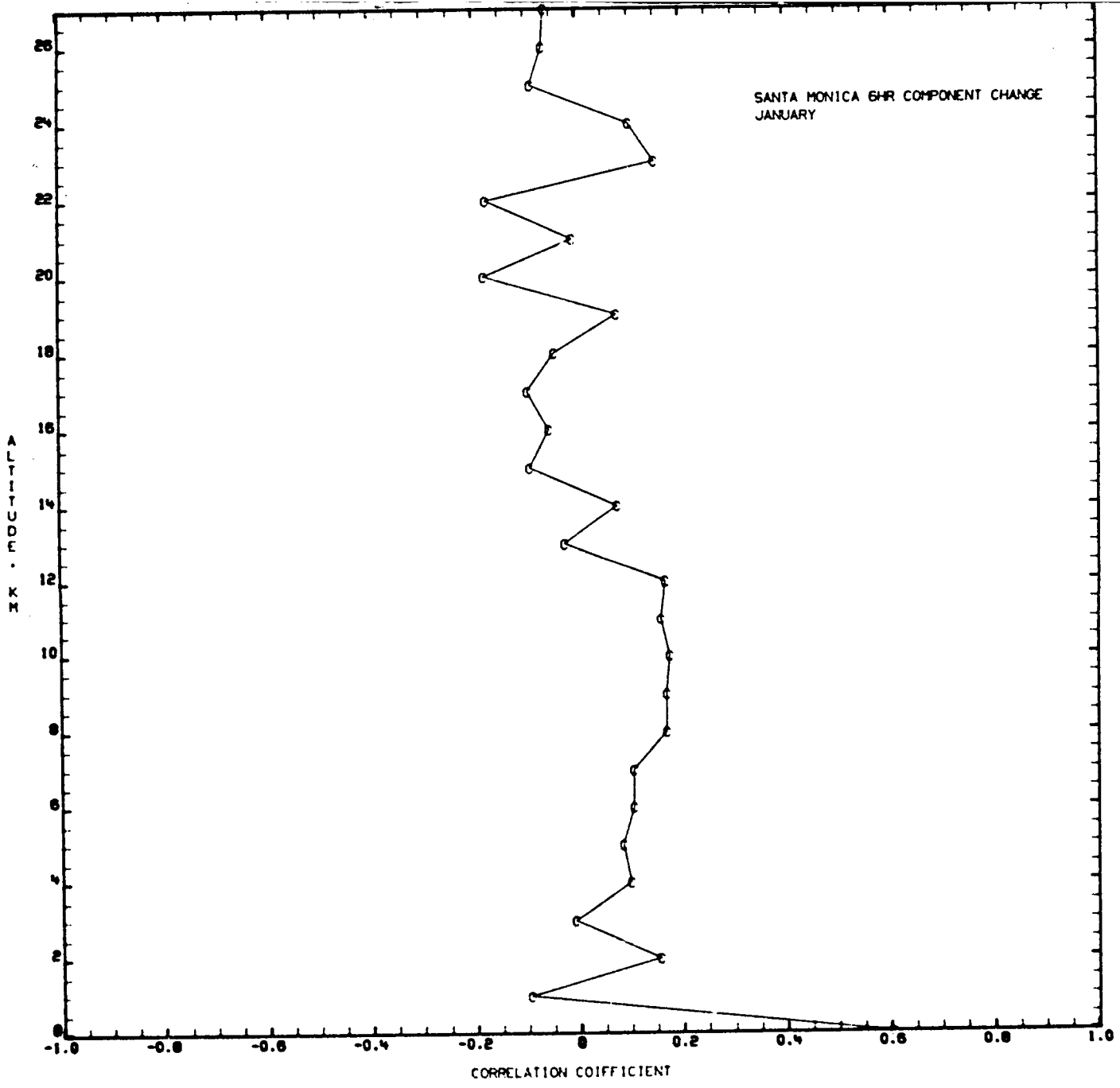
JANUARY
ALTITUDE . KM
STANDRD DEVIATION . M/S
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30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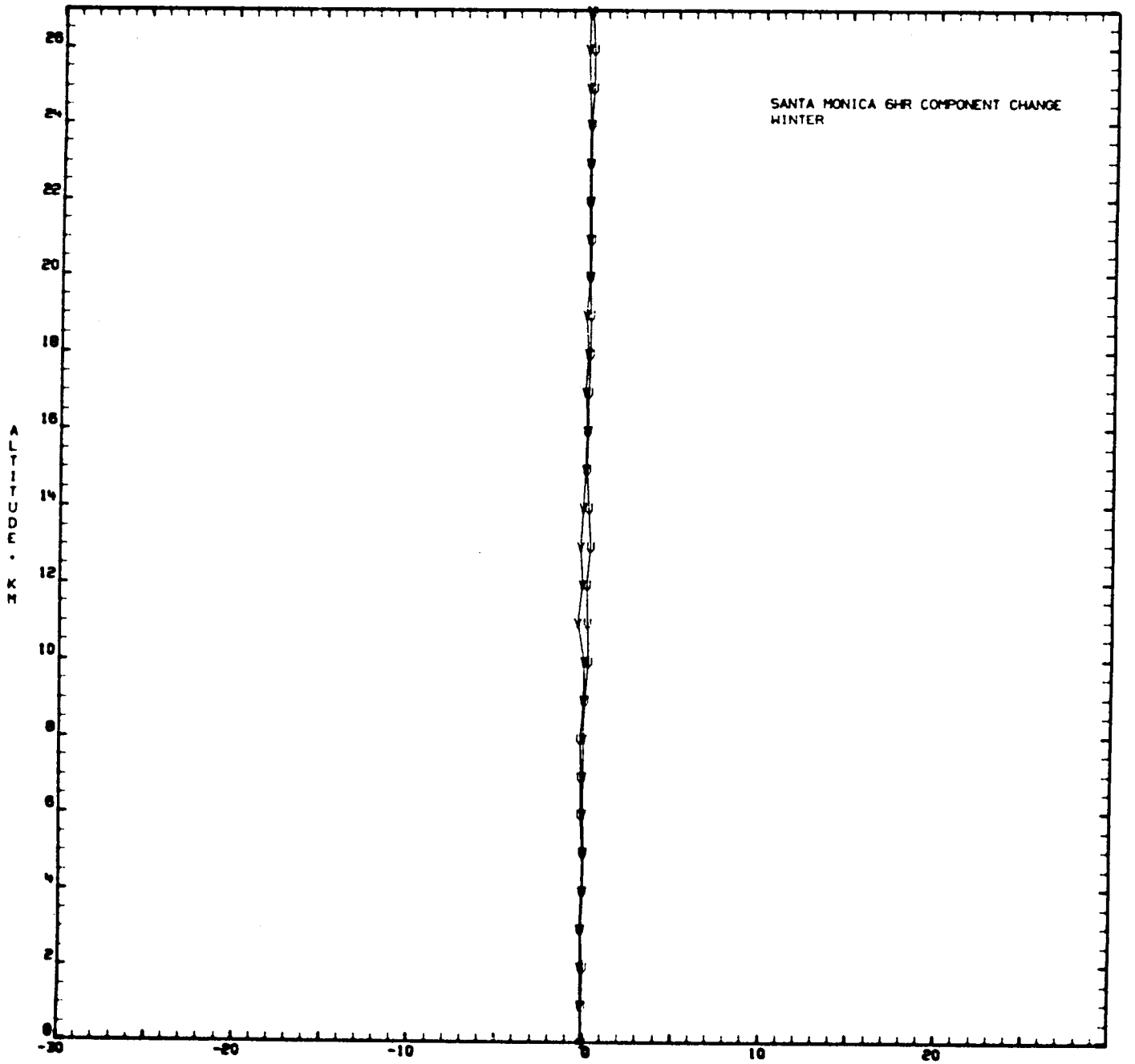
JANUARY
ALTITUDE - KM
0
2
4
6
8
10
12
14
16
18
20
22
24
26
-1.0
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1.0
CORRELATION COIFFICIENT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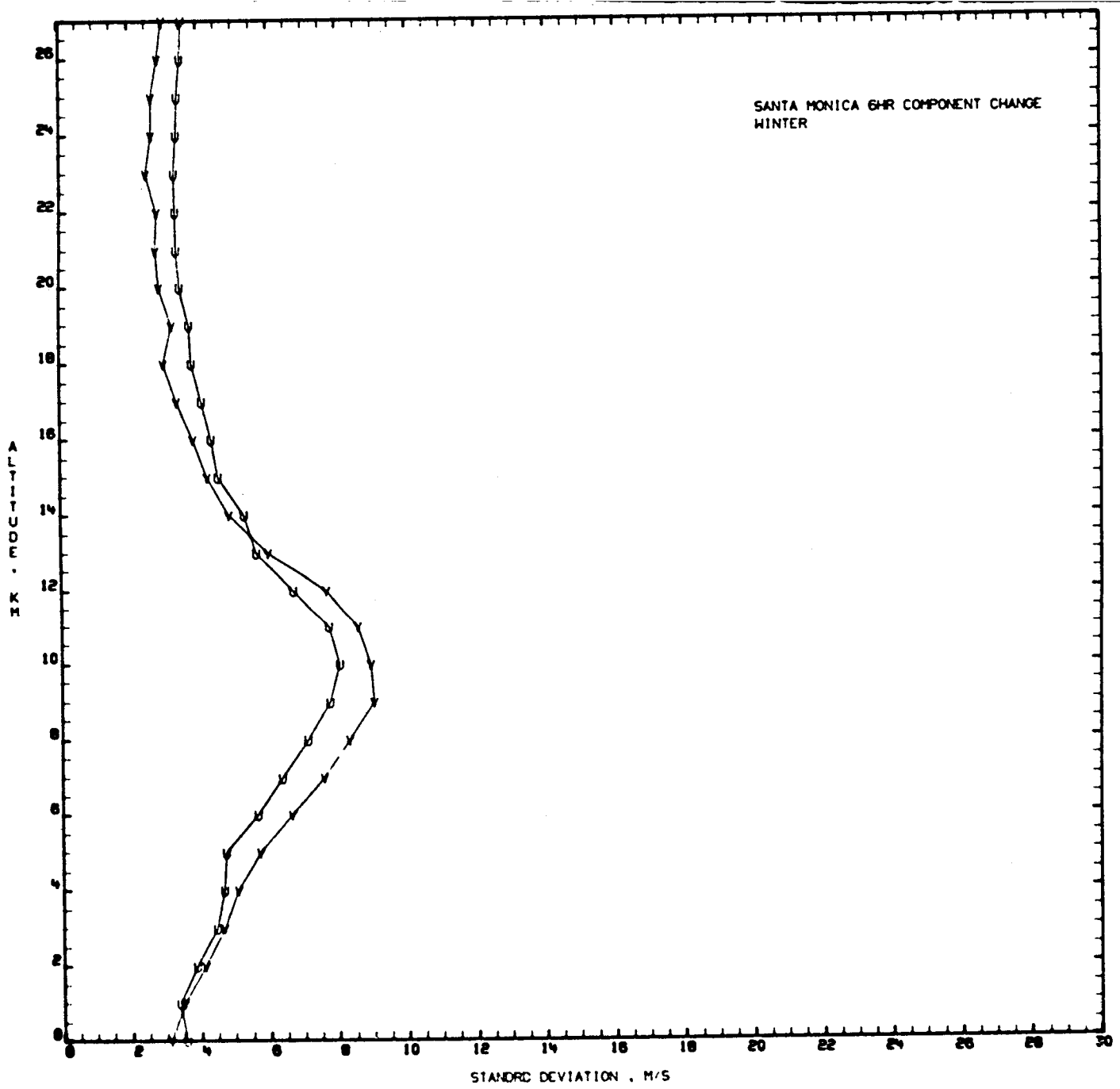
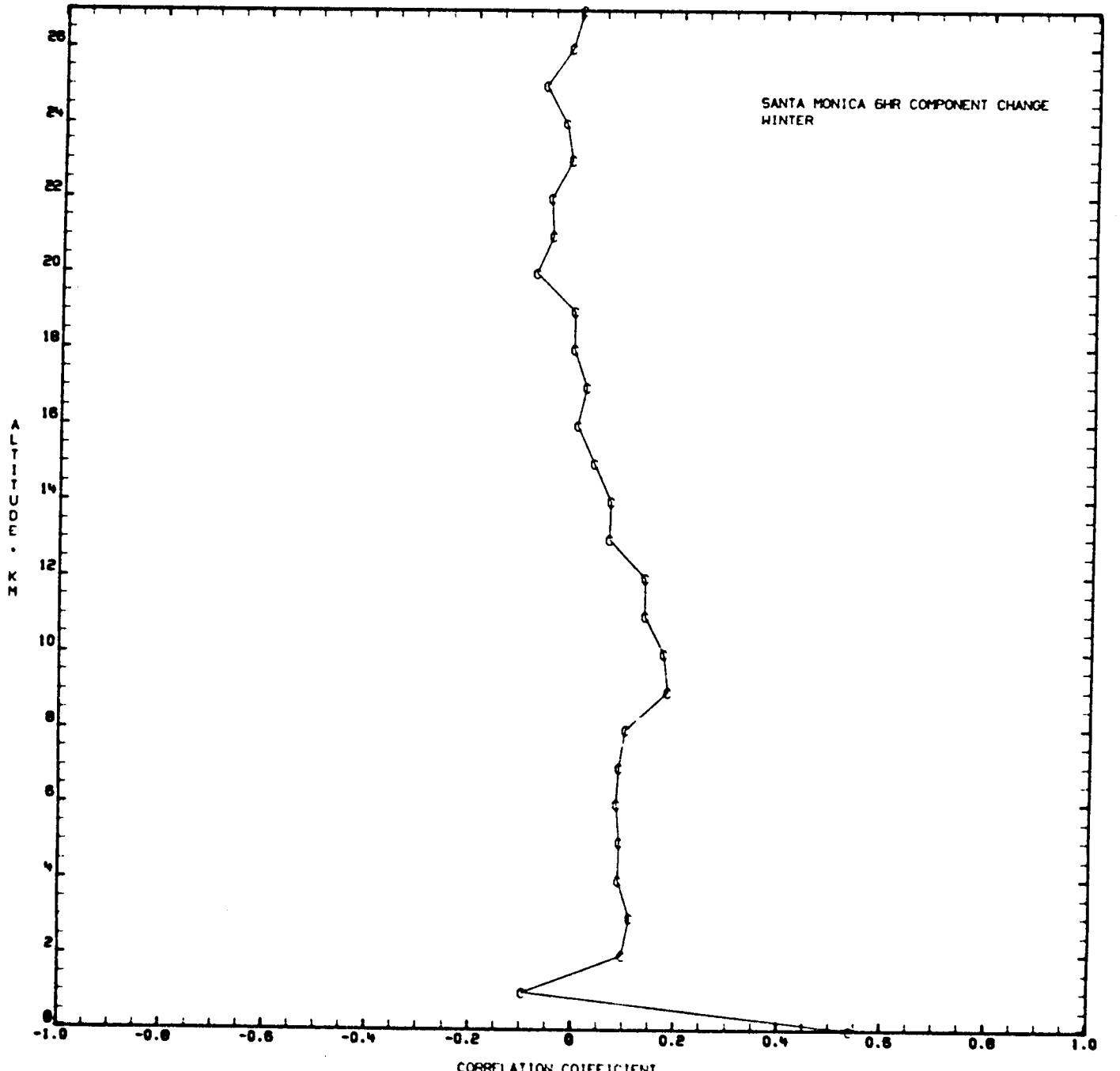
WINTER
ALTITUDE, KM
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-30
-20
-10
0
10
20


SANTA MONICA 6HR COMPONENT CHANGE
WINTER
ALTITUDE . KM
STANDRD DEVIATION . M/S
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30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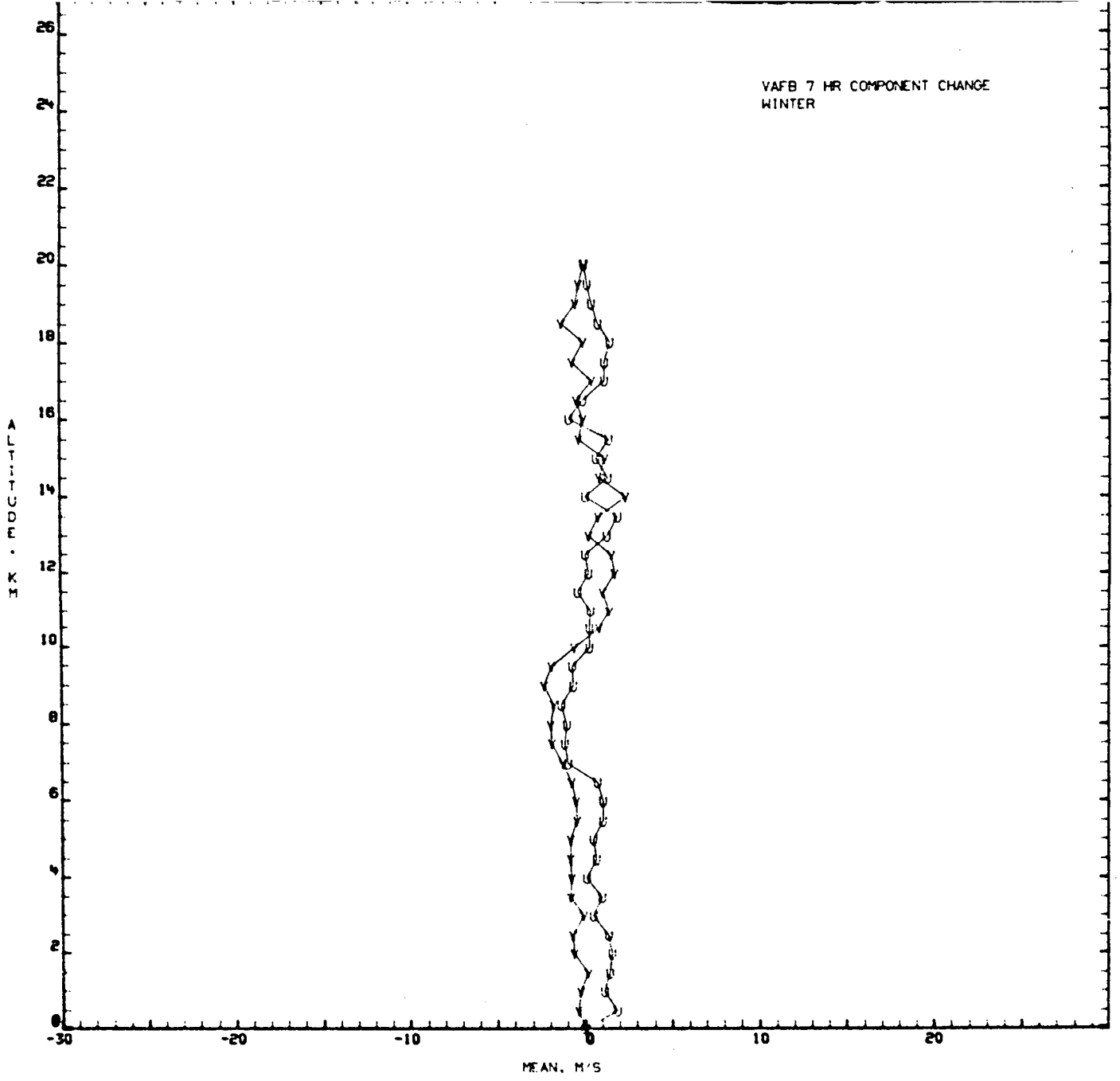
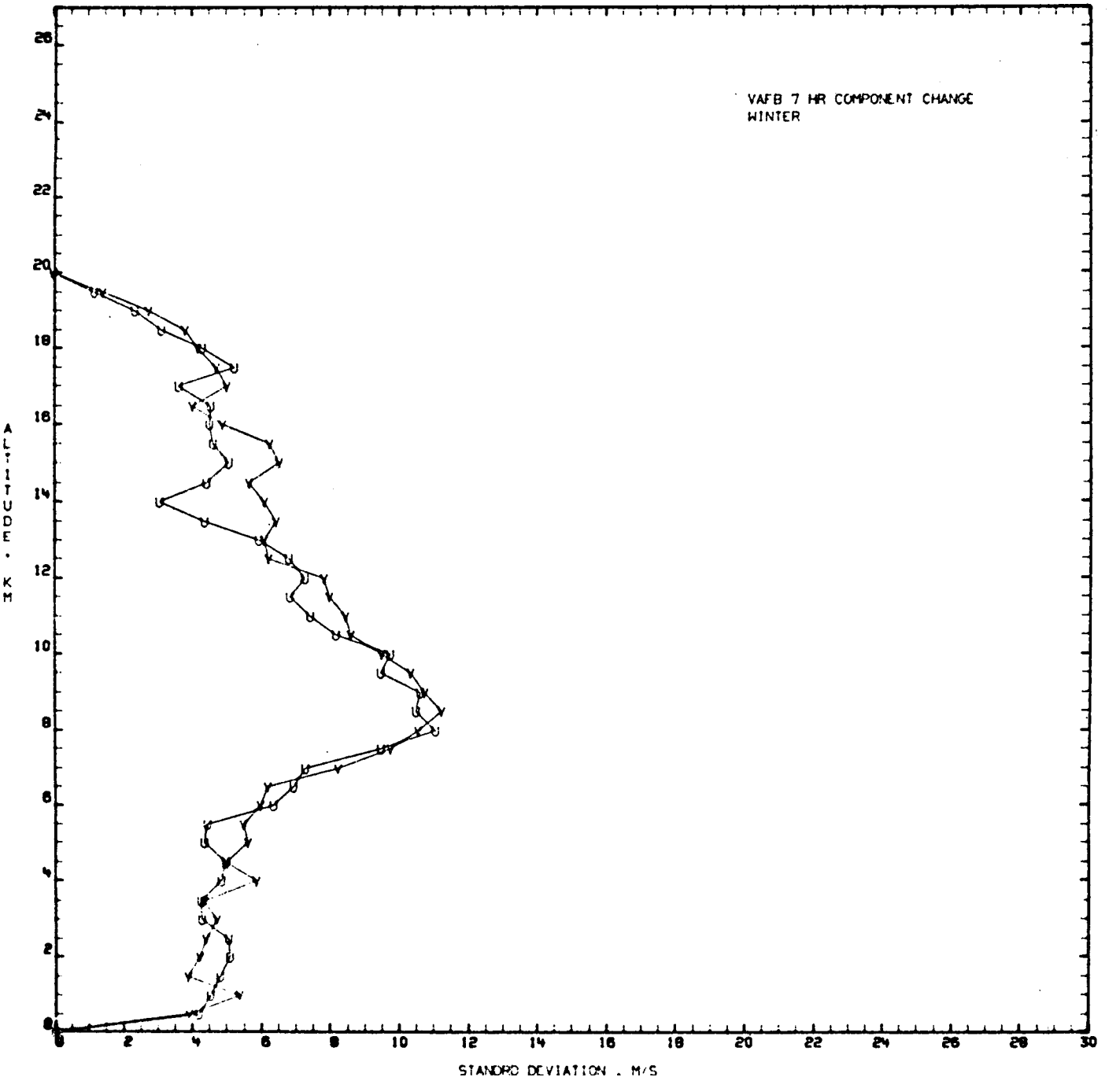
WINTER
ALTITUDE, KM
0
2
4
6
8
10
12
14
16
18
20
22
24
26
-1.0
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1.0
CORRELATION COEFFICIENT


VAFB 7 HR COMPONENT CHANGE
WINTER
ALTITUDE, KM
0
2
4
6
8
10
12
14
16
18
20
22
24
26
-30
-20
-10
0
10
20
MEAN, M/S


VAFB 7 HR COMPONENT CHANGE
WINTER
ALTITUDE . KM
STANDRD DEVIATION . M/S
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2
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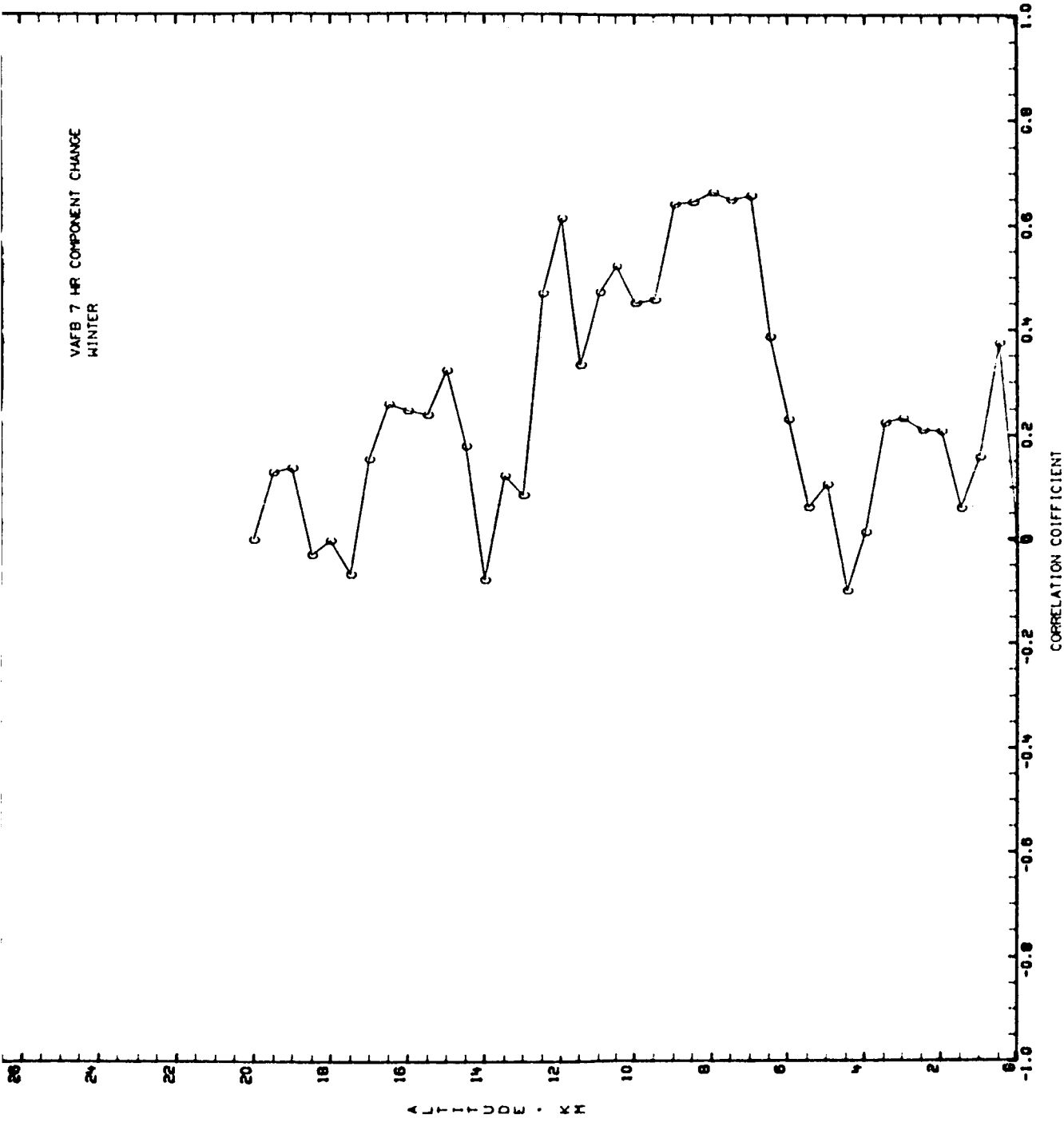
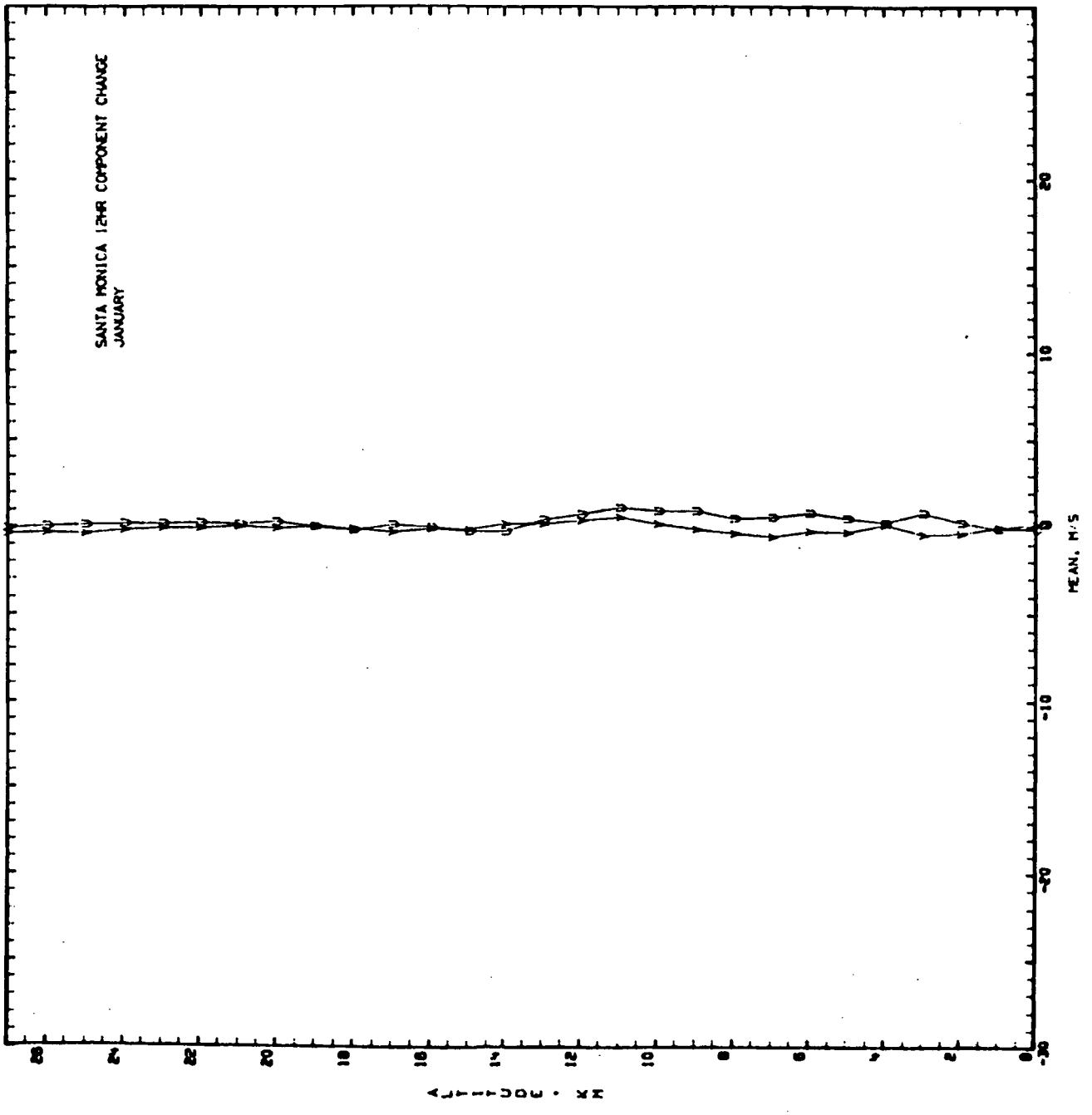
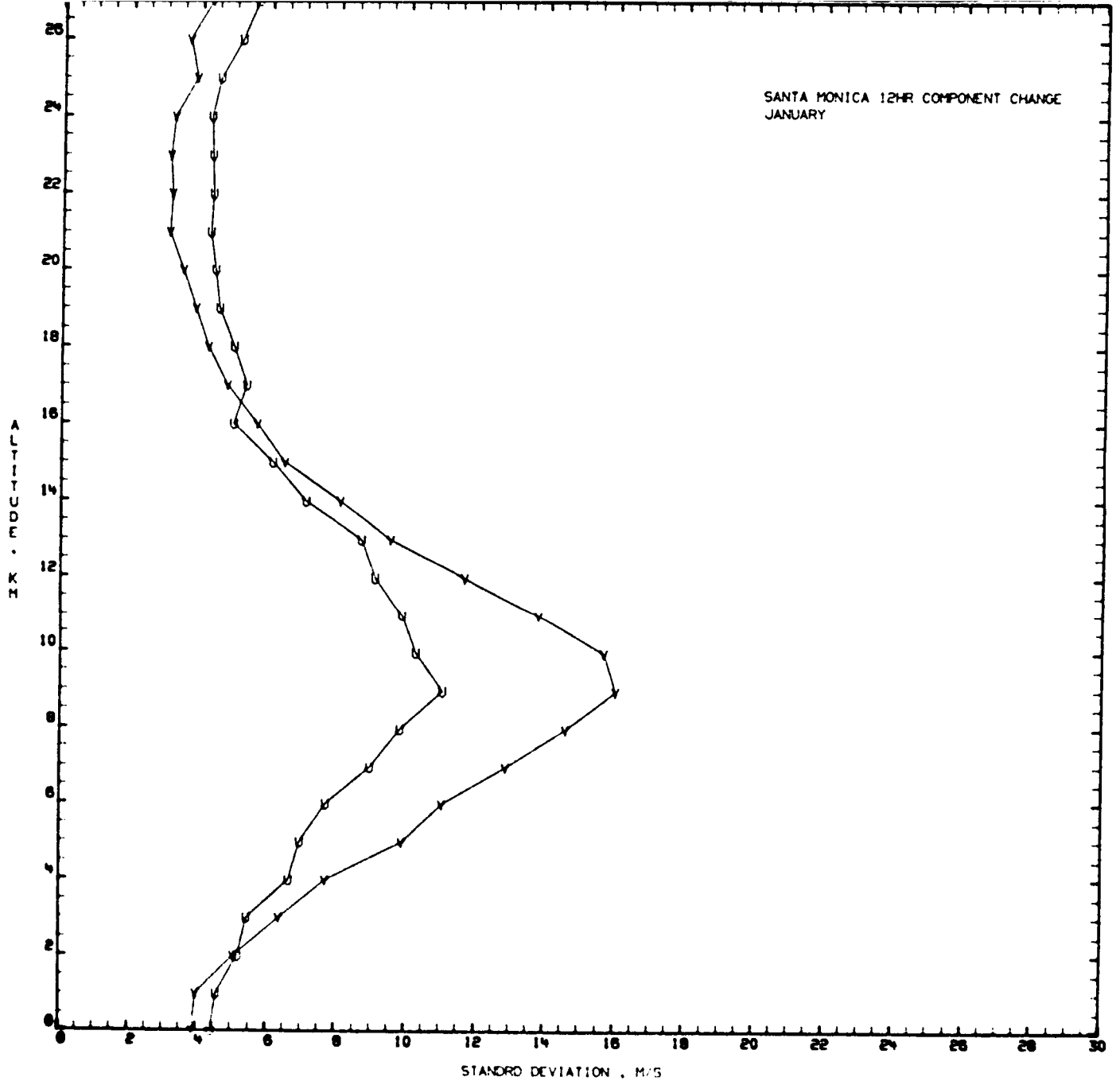
16
18
20
22
24
26
28
30


VAFB 7 HR COMPONENT CHANGE
WINTER
CORRELATION COEFFICIENT
1.0
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1.0
24
22
20
18
16
14
12
10
8
6
4
2
0


SANTA MONICA 12HR COMPONENT CHANGE
JANUARY
MEAN, M/S
20
10
0
-10
-20
-30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JANUARY
ALTITUDE . KM
STANDRD DEVIATION . M/S
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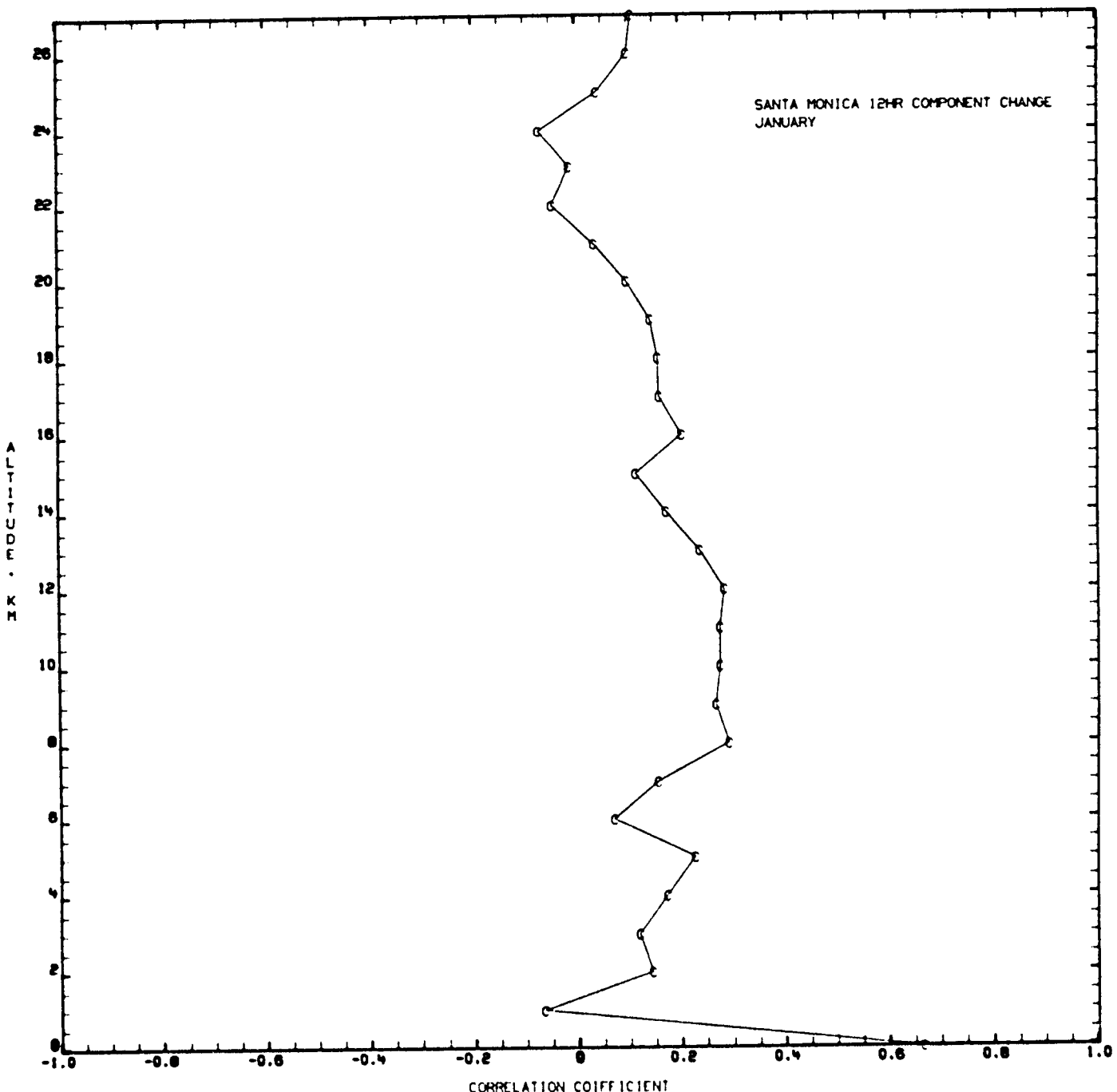
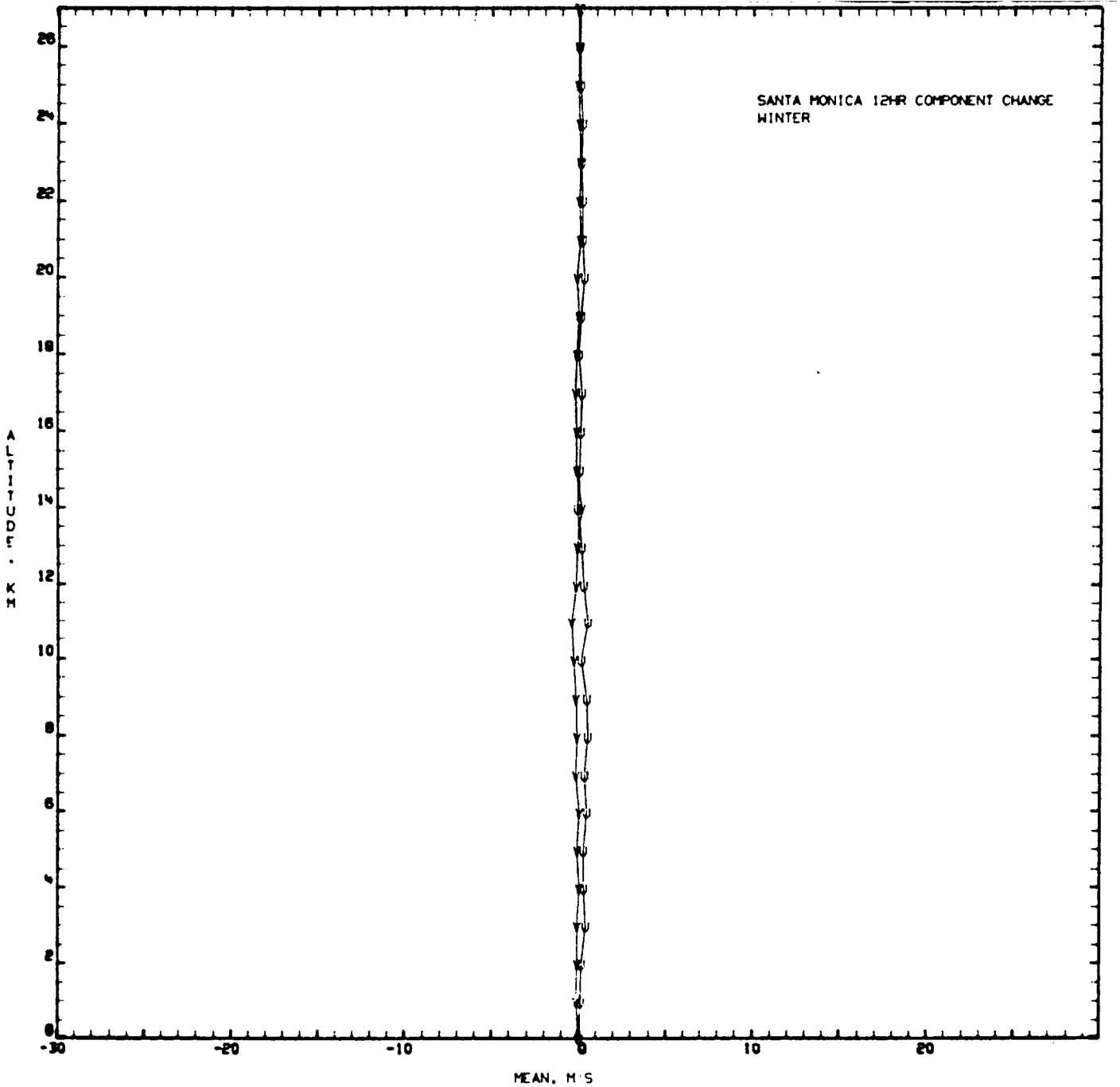
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30


SANTA MONICA 12HR COMPONENT CHANGE
JANUARY
KM ABOVE GROUND
0
2
4
6
8
10
12
14
16
18
20
22
24
26
-1.0
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1.0
CORRELATION COEFFICIENT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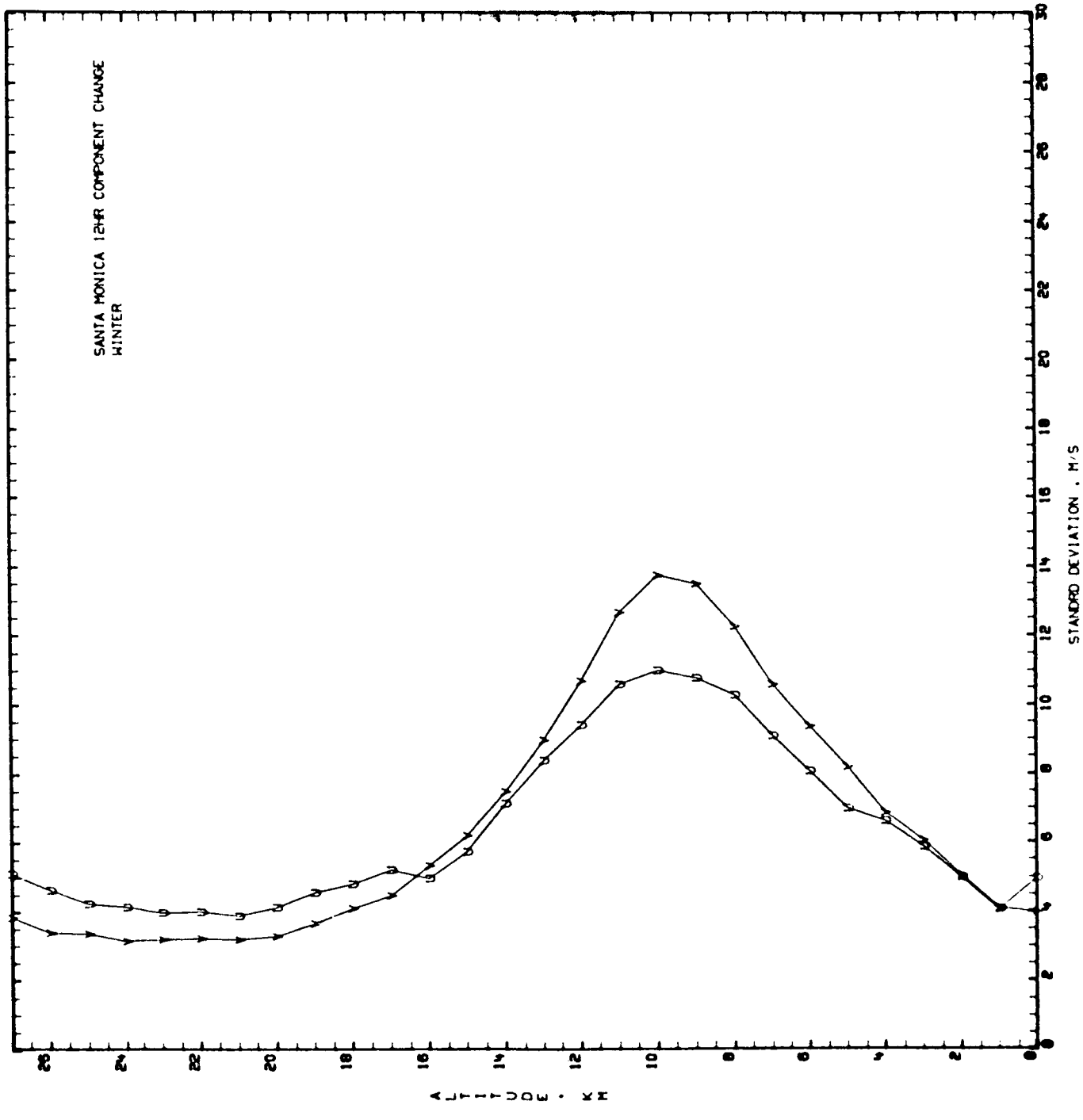
WINTER
ALTITUDE, KM
0
2
4
6
8
10
12
14
16
18
20
22
24
26
-30
-20
-10
0
10
20
MEAN, M/S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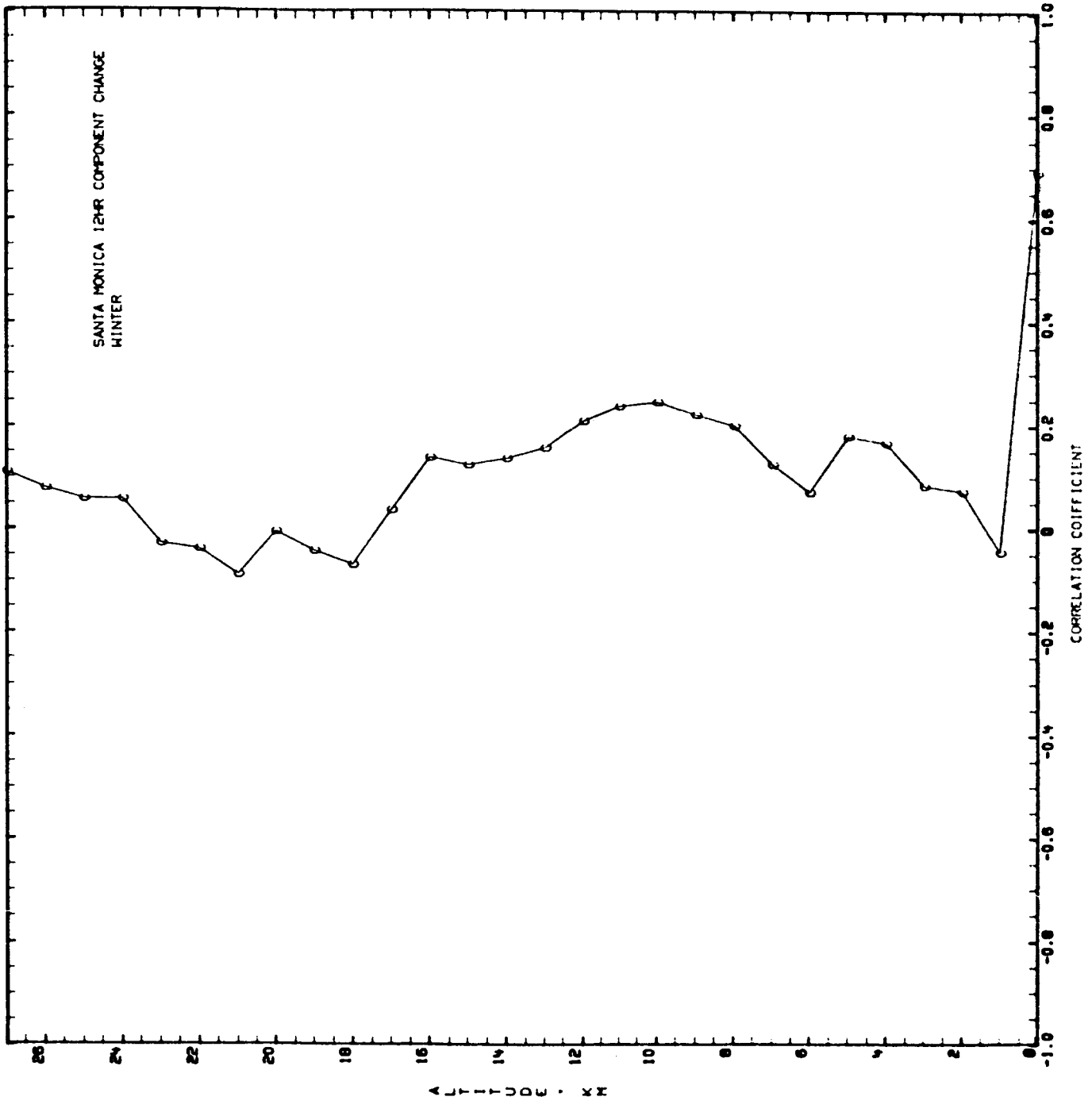
WINTER
STANDARD DEVIATION , M/S


SANTA MONICA 12HR COMPONENT CHANGE
WINTER
CORRELATION COEFFICIENT
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0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1.0
26
24
22
20
18
16
14
12
10
8
6
4
2
0

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16. ABSTRACT

Wind change statistics are analyzed for Vandenberg AFB, California (VAFB) and Kennedy Space Center, Florida (KSC). Means and standard deviations of wind component change and vector wind change modulus within 3-9 and 9-16 km altitude bands are tabulated. The contribution to 3.5 hr wind component change by wind perturbations in various wavelength bands is evaluated. Probability distributions of maximum 3.5 hr wind change in an altitude band are presented and a model for wind change at a specified altitude is tested with data derived from six data bases from VAFB and Santa Monica, California.

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