

(NASA-CR-170735) AVE/VAS I: 25 MB SOUNDING  
DATA Interim Report (Texas A&M Univ.) 53 p  
HC A04/MF A01 CSCI 04B

N83-24047

Unclas  
G3/47 03485

NASA CONTRACTOR  
REPORT

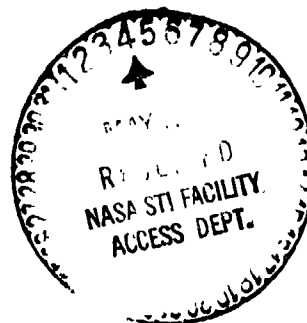
NASA CR-170735

AVE/VAS I: 25 MB SOUNDING DATA

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Interim Report, Contract NAS8-34133

March 1983



Prepared for

NASA - GEORGE C. MARSHALL SPACE FLIGHT CENTER  
Marshall Space Flight Center, Alabama 35812

TECHNICAL REPORT STANDARD TITLE PAGE

1. REPORT NO. NASA CR-170735	2. GOVERNMENT ACCESSION NO.	3. RECIPIENT'S CATALOG NO.	
4. TITLE AND SUBTITLE AVE/VAS I: 25-mb Sounding Data		5. REPORT DATE March 1983	6. PERFORMING ORGANIZATION CODE
		8. PERFORMING ORGANIZATION REPORT #	
7. AUTHOR(S) Meta E. Sienkiewicz		10. WORK UNIT NO.	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Texas A&M University College Station, Texas 77843		11. CONTRACT OR GRANT NO. NAS8-34133	
		13. TYPE OF REPORT & PERIOD COVERED Contractor (Interim Report)	
12. SPONSORING AGENCY NAME AND ADDRESS National Aeronautics and Space Administration Washington, D.C. 20546		14. SPONSORING AGENCY CODE	
		15. SUPPLEMENTARY NOTES Prepared for George C. Marshall Space Flight Center, Marshall Space Flight Center, Alabama 35812 COR: Robert E. Turner	
16. ABSTRACT  This report describes the rawinsonde sounding program for the AVE/VAS I (shakedown) experiment and presents tabulated data at 25-mb intervals for the 13 special rawinsonde stations and 1 National Weather Service station participating in the experiment. Soundings were taken at 1200 and 1800 GMT on February 6, 1982, and at 0000 GMT on February 7, 1982. The method of processing soundings is discussed briefly, estimates of the RMS errors in the data are presented, and an example of contact data is given. Termination pressures of soundings are tabulated, as are observations of ground temperature at a depth of 2 cm.  <p style="text-align: center;">ORIGINAL COPY OF POOR QUALITY.</p>			
17. KEY WORDS Meteorology Rawinsonde Atmospheric Variability Mesoscale Severe Storms		18. DISTRIBUTION STATEMENT Unclassified--Unlimited <i>E. C. McKannan</i> A. J. Dessler, Director Space Science Laboratory	
19. SECURITY CLASSIF. (of this report) Unclassified	20. SECURITY CLASSIF. (of this page) Unclassified	21. NO. OF PAGES 53	22. PRICE NTIS

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AVE/VAS I: 25 MB SOUNDING DATA

by

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1. Introduction

The AVE/VAS field experiment was conducted on five operational days during the Spring of 1982. The dates and observation times for this experiment are given in Table 1.

This report is primarily a data document containing rawinsonde data taken in a special meso- $\beta$ -scale rawinsonde network for the first (shakedown) day, AVE/VAS I (6-7 February, 1982). A description of the data processing method, together with the FORTRAN program for computing soundings and an error analysis, have been presented by Fuelberg (1974). A description of the synoptic conditions, observed weather, selected satellite photographs, and summaries of severe and unusual weather will be presented in a separate report.

2. AVE/VAS I (Shakedown)

Thirteen special rawinsonde stations and one National Weather Service station participated in AVE/VAS I. A list of the stations is presented in Table 2 and their locations are shown in Fig. 1. Table 3 gives locations and station heights in the special station network. Soundings were taken at three times: February 6, 1982 at 1200 and 1800 GMT, and February 7, 1982, at 0000 GMT.

3. Rawinsonde Data

3.1 Methods of Processing. All processing of the data (coding, error checking, and final computations) was performed at Texas A&M University.

The procedure used to compute the soundings is the same as that used for previous AVEs and is described by Fuelberg (1974). All keypunched input

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<sup>1</sup>Research Associate

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Table 1. Listing of operational days and sounding times in the AVE/VAS field experiment.

Operational Day	Dates	Observation Times
AVE/VAS I (Shakedown *)	6-7 February 1982	2/6 - 12, 18 2/7 - 00
AVE/VAS II	6-7 March 1982	3/6 - 12, 15, 18, 21 3/7 - 00, 03, 06, 12**
AVE/VAS III	27-28 March 1982	3/27 - 12, 15, 18, 21 3/28 - 00, 03, 06, 12**
AVE/VAS IV	24-25 April 1982	4/24 - 12, 15, 18, 21 4/25 - 00, 03, 06, 12**
AVE/VAS V	1-2 May 1982	5/1 - 12, 15, 18, 21 5/2 - 00, 03, 06, 12**

\* Meso- $\beta$  network only on shakedown

\*\* Final 1200 GMT sounding at NWS stations only

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Table 2. Rawinsonde stations participating in the AVE/VAS field experiment.

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Station Number	Location
<u>Special Stations</u>	
001	Crowell, TX
002	Henrietta, TX
003	Durant, OK
004	Throckmorton, TX
005	Denton, TX
006	Abilene, TX
007	Ennis, TX
008	Brownwood, TX
009	Hewitt, TX
010	Menard, TX
011	Burnet, TX
012	College Station, TX
100	Ft. Hood, TX
<u>NWS Stations</u>	
260	Stephenville, TX

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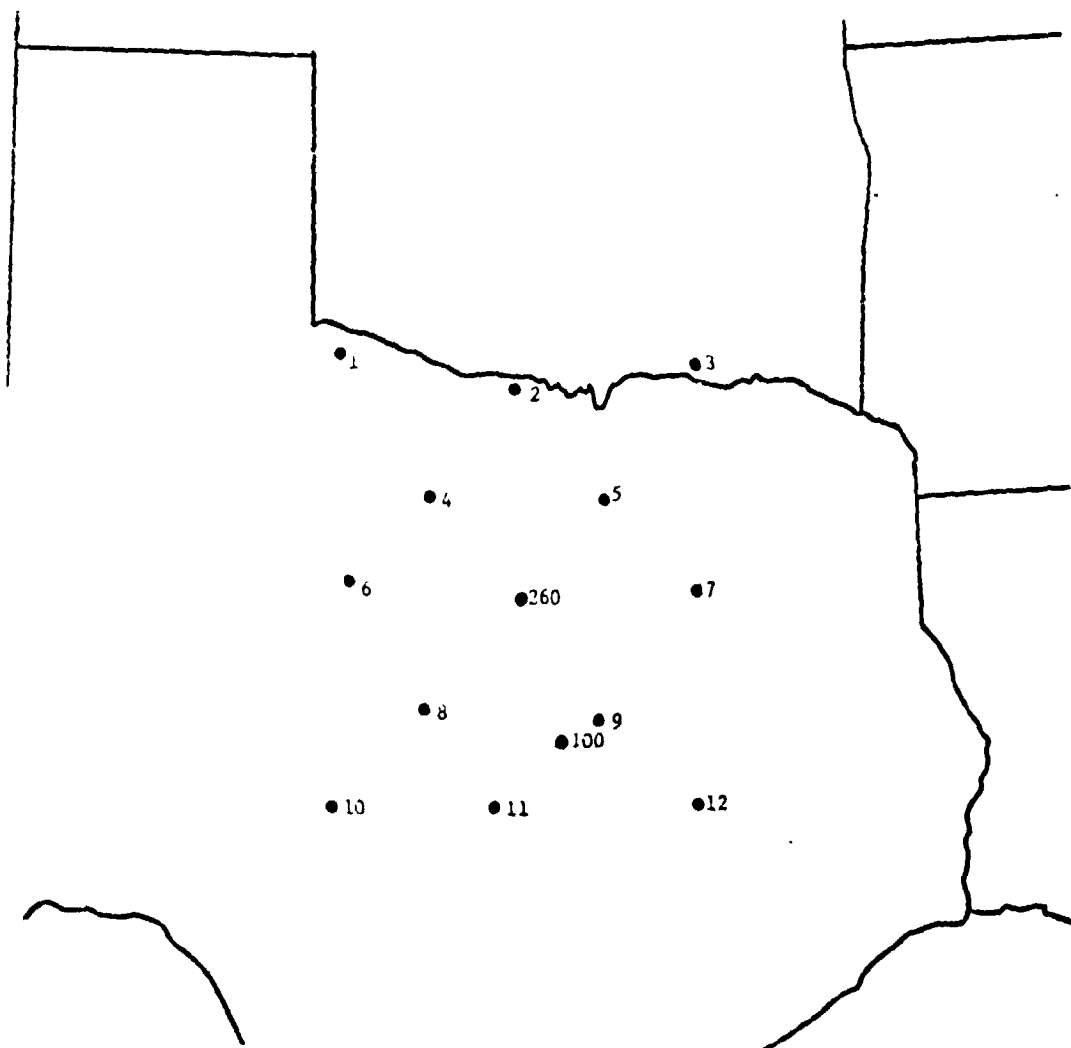


Figure 1. Location of rawinsonde stations participating in AVE/VAS I.



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Table 3. Locations of special rawinsonde stations  
participating in AVE/VAS I.

Station		Height(m)	Latitude( <sup>o</sup> N)	Longitude( <sup>o</sup> W)
Crowell, TX	(001)	450	33.98	99.71
Henrietta, TX	(002)	288	33.94	98.22
Durant, OK	(003)	211	33.94	96.40
Throckmorton, TX	(004)	405	33.19	99.18
Denton, TX	(005)	193	33.20	97.19
Abilene, TX	(006)	532	32.43	99.69
Ennis, TX	(007)	150	32.33	96.66
Brownwood, TX	(008)	502	31.71	99.10
Hewitt, TX	(009)	184	31.48	97.20
Menard, TX	(010)	588	30.94	99.81
Burnet, TX	(011)	387	30.74	98.23
College Station, TX	(012)	79	30.64	96.47
Ft. Hood, TX	(100)	289	31.10	97.40
Stephenville, TX	(260)	399	32.22	98.18

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data were checked for errors by calculating centered differences on the input data. Additional checks included centered differences on computed winds and checks on lapse rates of computed temperatures and dew points. Constant pressure analyses were made using meso- $\beta$ -network data and compared to NWS data received on facsimile and teletype. Suspected errors were checked against the original strip chart information and appropriate corrections made.

The final rawinsonde data set of AVE/VAS I (shakedown) consists of data computed at each pressure contact, while winds were computed from the available 30- or 60-s interval data by means of centered finite differences, and subsequently interpolated to each contact or 25-mb level.

It should be noted that humidity values, including dew point temperatures, were computed only at temperatures above  $-40^{\circ}\text{C}$ ; at temperatures below  $-40^{\circ}\text{C}$ , humidity values are missing and are indicated by a field of nines (e.g., 99.9 or 999.9). Moisture values were computed if the relative humidity exceeded 1%. If the value was below 1%, it was set equal to 1% and used in the computation of other moisture variables. The humidity equations described by Fuelberg (1974) were used in processing data from sondes using the old-type hygriators; computations for sondes with new carbon hygriators were performed using humidity equations currently in use by the National Weather Service.

3.2 Accuracy Estimates. Estimates of the r.m.s. errors in the wind and thermodynamic quantities of the AVE/VAS I data are the same as those for all previous /VEs and are given by Fuelberg (1974). The error estimates for thermodynamic variables are presented in Table 4.

The r.m.s. errors for wind speed and direction are difficult to describe since they are a function of tracking geometry and other factors. Maximum r.m.s. errors for winds (speed and direction) computed at 30-s intervals (based on the worst geometric tracking configuration) for 10 and 40 degree elevation angles are presented in Table 5. The accuracy of the wind data at pressure contacts at 25-mb intervals is greater than that stated for the 30-s winds because of the added smoothing, and interpolation performed. In addition, the errors stated for the 30-s wind were maxima for the stated conditions.

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Table 4. Estimates of the RMS errors in thermodynamic quantities of AVE/VAS rawinsonde data.

Parameter	Approximate RMS Error
Temperature	0.5°C (Fuelberg's value is 1°C)
Pressure	1.3 mb from surface to 400 mb; 1.1 mb between 400 and 100 mb; 0.7 mb between 100 and 10 mb.
Humidity	10 percent
Pressure Altitude	10 gpm at 500 mb; 20 gpm at 300 mb; 50 gpm at 50 mb.

Table 5. Estimates of RMS errors in AVE/VAS rawinsonde wind data.

<u>Pressure</u>	<u>RMS errors (<math>m s^{-1}</math>) in speed</u>		<u>RMS errors (deg) in direction</u>	
	<u>10 deg el</u>	<u>40 deg el</u>	<u>10 deg el</u>	<u>40 deg el</u>
700	2.5	0.5	9.5	1.3
500	4.5	0.8	13.4	1.8
300	7.8	1.0	18.0	2.5

3.3 Presentation of Data. An example of AVE/VAS I contact data is given in Table 6, with the explanation of column headings in Table 7. The first line of data for time 0.0 minutes is surface data. A series of nines is used to indicate missing data. The three numbers in the upper right-hand corner are the number of pressure levels computed, the minimum pressure obtained (mb), and an angle identifier with the value of 0 for 30-s angle input and 1 for 1-min angle input.

Winds based on low elevation angles are denoted by asterisks. One asterisk denotes elevation angles less than  $10^{\circ}$  but greater than  $6^{\circ}$ , while two asterisks denote angles less than  $6^{\circ}$ . These levels have been specially noted because caution must be exercised in the use of the data; winds computed at low elevation angles are subject to rather large r.m.s. errors.

Levels containing temperatures or times which have been interpolated are also denoted by asterisks. Missing temperatures and times at contacts are replaced by linear interpolation. A limit was set on this interpolation so that it would not extend for more than five contact levels. Interpolation over deeper layers could lead to inaccurate temperatures and geopotential heights, especially if data were missing in a surface inversion or near the tropopause. The deeper layers of missing data which exceed the five contact limit are denoted by two asterisks.

The contact data interpolated to 25-mb intervals are presented in Appendices I and II. The column headings are identical to those used for the contact data and are described in Table 7. The soundings are arranged by station number beginning with the special stations, and appear in ascending order by time for each station. The first line of each sounding is surface data, followed by data from 1,000 to 25 millibars (or to termination) successively. For the 25-mb levels where the pressure is greater than the surface pressure, missing data (nines) are indicated for each quantity. This is also done for 25-mb levels above the sounding termination point.

Table 8 contains a listing of actual sounding launch times and termination pressures for the special soundings taken for AVE/VAS I.

3.4 Soundings with Abnormal Characteristics. The sounding data collected during AVE/VAS I are generally of good quality following the processing and rigorous error checking. It is difficult to determine whether any

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Table 6. Example of AVE/VAS contact sounding data.

TIME MIN	CHTCT	WEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE MM	AZ DG
0.6	0.2	449.9	968.6	-5.0	-18.7	350.0	1.0	0.2	-1.0	269.2	271.6	0.9	33.0	0.0	0.0
0.0	0.0	512.2	975.0	-5.0*	99.9	999.9	99.9	99.9	99.9	269.8	999.9	99.9	999.9	959.9	999.9
0.1	10.0	600.7	960.0	-6.5	99.9	999.9	99.9	99.9	99.9	269.1	999.9	99.9	999.9	959.9	999.9
0.3	11.0	681.7	950.0	-7.7	-18.0	999.9	99.9	99.9	99.9	268.7	171.4	0.9	43.4	999.9	999.9
0.7	12.0	771.3	947.0	-9.2	-18.0	999.9	99.9	99.9	99.9	268.1	270.0	0.9	44.4	999.9	999.9
0.9	12.0	861.7	936.0	-9.2	-18.7	999.9	99.9	99.9	99.9	268.0	271.6	0.9	45.5	999.9	999.9
1.3	14.0	952.9	925.0	-10.5	-21.3	999.9	99.9	99.9	99.9	268.0	270.7	0.7	45.2	999.9	999.9
1.7	15.0	1053.8	913.0	-9.7	-20.4	999.9	3.1	-0.5	-3.1	271.4	273.7	0.8	38.1	0.4	168.0
1.9	16.0	1136.6	904.0	-8.3	-21.4	11.2	3.2	0.6	3.1	272.6	274.8	0.8	33.6	0.4	168.0
2.2	17.0	1217.1	894.0	-7.1	-20.8	22.6	3.5	-1.3	-3.2	274.7	277.0	0.8	32.3	0.5	172.0
2.6	18.0	1313.8	883.0	-6.1	-19.9	38.7	4.0	-2.6	-3.1	276.8	279.3	0.8	32.3	0.5	178.0
3.2	20.0	1493.0	873.0	-5.9	-19.8	45.5	4.0	-2.6	-2.6	280.4	282.6	0.9	32.0	0.6	182.0
3.4	21.0	1593.4	863.0	-5.2	-17.6	53.3	4.3	-3.5	-2.6	279.5	282.6	1.1	36.8	0.7	186.0
3.4	21.0	1693.7	853.0	-5.4	-18.6	54.2	4.6	-3.7	-2.7	279.2	282.1	1.1	37.4	0.8	197.0
3.6	22.0	1800.2	842.0	-6.4	-18.5	60.6	4.0	-3.5	-2.0	280.2	283.2	1.1	38.9	0.8	203.0
4.3	23.0	1789.1	831.0	-5.9	-17.6	78.5	2.1	-2.0	-0.5	281.8	285.0	1.1	38.9	0.8	204.0
4.6	24.0	1893.5	820.0	-5.9	-16.9	59.1	0.9	-0.7	-0.4	282.8	286.3	1.2	41.3	0.8	204.0
5.0	25.0	1999.0	810.0	-5.9	-16.3	339.9	3.1	1.1	-2.9	283.8	287.6	1.3	43.6	0.9	204.0
5.2	26.0	2088.9	800.0	-5.9	-14.9	336.0	5.1	2.1	-4.3	284.9	289.4	1.5	49.0	0.9	201.0
5.6	27.0	2185.5	790.0	-5.9	-14.4	328.0	8.5	4.3	-7.3	285.9	290.4	1.6	51.2	1.0	194.0
6.0	28.0	2285.5	780.0	-5.0	-13.1	318.2	10.5	7.3	-7.6	287.9	293.5	1.8	53.1	1.2	179.0
6.3	28.0	2376.0	771.0	-4.8	-14.6	310.2	10.5	7.3	-5.9	289.0	294.8	1.6	45.1	1.3	179.0
6.7	30.0	2479.0	761.0	-4.3	-16.0	284.1	11.5	8.7	-4.7	290.7	295.5	1.4	35.4	1.5	170.0
7.1	31.0	2583.0	751.0	-4.4	-17.5	280.4	13.5	12.7	-4.7	291.3	295.5	1.3	35.4	1.6	181.0
7.5	32.0	2689.7	741.0	-4.4	-18.0	280.4	13.5	12.7	-5.1	291.3	295.5	2.6	34.0	1.6	181.0
7.9	33.0	2797.3	731.0	-3.5	-8.7	278.4	17.9	17.4	-4.2	294.9	302.1	2.5	32.1	2.1	146.0
8.2	34.0	2895.5	722.0	-2.7	-10.2	274.0	19.9	19.7	-4.2	298.0	304.9	2.7	32.7	2.4	139.0
8.6	35.0	3006.1	712.0	-3.0	-11.5	272.3	22.9	22.9	-1.5	298.9	305.2	2.5	31.6	2.6	132.0
9.0	37.0	3118.2	702.0	-1.9	-17.5	268.3	25.3	25.3	-0.9	298.9	303.0	1.4	31.6	3.1	129.0
9.3	37.0	3220.6	693.0	-1.9	-17.7	266.2	27.3	27.2	0.7	301.2	305.3	1.4	28.0	3.6	122.0
9.7	39.0	3326.3	683.0	-1.5	-17.7	266.2	27.3	27.2	0.7	301.2	307.2	1.4	27.6	4.2	117.0
10.1	39.0	3441.8	674.0	-2.3	-16.3	263.8	28.8	28.7	2.3	303.3	307.5	1.4	28.5	4.8	112.0
10.5	40.0	3560.3	664.0	-2.8	-16.8	263.1	29.2	29.0	3.6	303.9	308.1	1.4	29.3	5.4	109.0
10.8	41.0	3680.3	654.0	-3.5	-16.8	263.1	28.5	28.3	3.4	304.2	308.3	1.3	28.9	6.7	104.0
11.2	42.0	3777.8	640.0	-4.3	-19.2	262.9	27.9	27.7	4.4	305.2	309.2	1.3	29.7	7.3	102.0
11.7	43.0	3880.3	627.0	-4.3	-18.6	264.5	28.1	28.0	3.2	305.9	310.2	1.4	30.9	7.9	100.0
12.1	44.0	4000.3	616.0	-4.4	-18.7	264.5	28.2	28.0	2.6	307.0	311.2	1.4	30.9	7.9	100.0
12.5	45.0	4114.2	606.0	-4.4	-18.7	265.4	30.6	30.7	2.5	308.3	312.8	1.4	31.0	8.4	99.0
12.9	46.0	4229.4	596.0	-5.3	-19.0	265.7	30.8	30.7	2.2	309.0	312.8	1.4	31.0	8.4	99.0
13.1	47.0	4348.9	591.0	-6.1	-19.6	265.7	30.8	30.7	2.2	309.0	313.1	1.3	32.7	9.7	98.0
13.7	48.0	4463.9	582.0	-6.7	-20.5	266.5	30.1	30.0	1.6	308.6	313.6	1.2	32.5	10.4	98.0
14.0	49.0	4583.3	583.0	-6.0	-21.3	266.5	28.9	28.8	1.6	308.6	313.2	1.1	33.9	12.1	95.0
14.5	50.0	4699.0	575.0	-6.9	-22.2	265.9	28.9	28.8	2.3	309.6	313.6	1.1	32.7	12.7	95.0
14.8	51.0	4812.5	568.0	-9.8	-22.9	265.9	30.7	30.2	2.3	310.2	313.6	1.1	32.7	13.6	94.0
15.3	52.0	4922.4	568.0	-10.2	-23.3	265.1	31.9	31.8	2.7	310.7	314.1	1.0	33.0	13.6	94.0

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OF TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

Table 6. Continued.

STATION NO  
1  
CROWELL, TEXAS  
6 FEBRUARY 1982  
1723 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT Y DG K	E POT Y DG K	WX RTO GM/KG	RH PCT	RANGE KM	AZ DG
15 7	53 0	5047 5	549 0	-11 0	-22 8	264 8	32 8	32 7	2 9	311 2	314 7	1 1	36 9	14 4	94
16 1	54 0	5160 0	541 0	-12 2	-24 0	264 5	33 3	33 7	3 2	311 1	314 4	1 0	36 4	15 2	93
16 6	55 0	5268 1	532 0	-13 3	-25 5	263 1	33 0	33 7	3 9	311 3	314 4	0 9	34 8	16 2	93
17 0	56 0	5368 7	525 0	-14 4	-26 8	262 9	35 2	34 9	4 8	311 1	313 8	0 8	34 6	16 9	92
17 4	57 0	5518 6	516 0	-14 8	-26 3	260 9	37 2	36 7	5 8	312 1	318 6	2 1	48 7	17 8	92
17 8	58 0	5637 9	508 0	-15 8	-26 8	260 6	40 4	39 9	6 8	312 4	318 7	2 0	93 2	18 7	91
18 2	59 0	5757 5	500 0	-16 8	-27 6	259 6	38 1	39 5	6 9	312 6	318 6	1 9	92 8	19 7	91
18 6	60 0	6001 6	484 0	-17 6	-28 6	259 8	31 9	31 2	6 7	314 5	320 3	1 8	91 6	20 6	90
19 2	61 0	6125 5	492 0	-18 4	-29 6	259 8	35 2	34 6	6 2	312 1	317 2	1 6	90 3	21 6	90
19 5	62 0	6125 5	476 0	-19 3	-30 6	261 6	40 7	40 2	6 0	313 9	318 6	1 5	89 3	22 4	89
20 1	63 0	6251 3	468 0	-20 4	-31 4	262 5	43 1	42 7	5 7	314 0	318 7	1 5	91 6	23 7	89
20 4	64 0	6378 8	460 0	-21 6	-32 6	263 9	55 0	54 7	5 9	314 1	318 4	1 4	92 1	24 5	89
20 7	65 0	6507 8	452 0	-22 7	-33 6	263 8	58 5	58 5	6 1	314 3	317 9	1 1	81 5	25 6	88
20 8	66 0	6622 3	445 0	-23 0	-34 6	264 8	62 7	62 7	6 2	315 4	318 8	1 0	76 1	23 4	88
20 8	67 0	6755 0	437 0	-24 3	-35 6	261 6	57 4	57 4	5 7	315 3	318 2	0 9	71 7	25 2	88
21 2	68 0	6869 6	429 0	-24 7	-36 6	261 6	45 3	44 9	6 7	316 5	319 3	0 8	65 6	27 3	88
21 6	69 0	7008 3	422 0	-25 4	-37 6	257 8	35 4	34 6	7 5	317 2	319 7	0 7	62 3	29 0	88
22 0	70 0	7148 1	414 0	-25 8	-38 6	257 5	39 4	38 5	8 5	318 4	320 8	0 7	58 2	30 4	87
22 4	71 0	7271 7	407 0	-25 9	-39 6	259 3	44 1	43 3	8 2	319 8	322 3	0 6	54 4	31 4	87
22 8	72 0	7397 2	400 0	-26 7	-40 6	261 6	49 4	48 9	7 2	320 3	322 3	0 5	53 2	32 9	87
23 4	73 0	7522 6	392 0	-26 9	-41 6	260 9	50 9	50 4	7 1	320 6	322 4	0 5	54 3	34 1	87
23 8	74 0	7647 1	385 0	-27 4	-42 6	258 7	48 8	48 0	7 7	321 6	323 4	0 5	54 3	35 5	86
24 3	75 0	7784 4	378 0	-28 7	-43 6	256 7	46 9	46 0	9 2	321 3	322 6	0 5	57 7	37 2	86
24 9	76 0	7930 3	371 0	-29 7	-44 6	257 0	53 6	52 3	12 0	322 0	323 6	0 4	56 9	38 6	86
25 3	77 0	8071 3	364 0	-31 0	-47 6	255 7	57 9	56 1	14 3	322 2	324 4	0 4	53 9	40 0	85
25 7	78 0	8208 4	357 0	-32 5	-48 6	254 2	59 3	55 3	16 2	323 1	324 4	0 4	52 3	42 1	85
26 3	79 0	8337 9	351 0	-32 5	-48 6	252 8	57 9*	53 8	17 1	324 7	326 0	0 4	51 1	43 0	84
26 6	80 0	8469 7	344 0	-33 3	-49 6	252 8	56 3*	50 6	16 6	325 5	328 7	0 3	49 6	45 0	84
27 2	81 0	8613 8	337 0	-34 5	-51 3	252 8	52 9*	52 0	15 7	326 3	328 8	0 3	49 6	46 5	83
27 7	82 0	8739 2	331 0	-35 3	-52 6	251 9	54 7*	56 2	17 0	326 3	328 0	0 3	49 7	48 2	83
28 2	83 0	8867 8	324 0	-36 3	-54 0	251 0	59 5*	56 2	19 4	327 0	328 0	0 2	49 4	50 0	83
28 7	84 0	9017 2	318 0	-37 3	-56 6	252 2	64 3*	61 3	20 7	327 3	328 1	0 2	49 2	52 0	82
29 2	85 0	9148 6	312 0	-38 3	-58 6	252 2	64 3*	61 3	19 6	327 7	328 5	0 2	48 9	53 5	82
29 6	86 0	9304 3	305 0	-39 4	-60 6	253 7	52 9*	50 7	17 3	328 3	329 1	0 2	48 9	54 8	82
30 0	87 0	9450 1	298 0	-40 3	-62 6	253 1	52 9*	50 7	14 9	328 8	329 9	0 1	48 9	54 8	82
30 5	88 0	9577 9	293 0	-41 9	-64 6	254 6	48 2*	48 3	13 3	328 6	329 9	0 1	48 9	56 3	81
31 2	89 0	9717 7	287 0	-43 1	-66 6	254 6	47 7*	48 0	12 7	328 7	329 9	0 1	48 9	56 3	81
31 5	90 0	9859 1	281 0	-44 2	-68 6	253 7	44 7*	48 0	12 3	328 7	329 9	0 1	48 9	58 3	81
32 0	91 0	9999 1	276 0	-44 2	-69 6	253 7	44 7*	48 0	12 3	328 7	329 9	0 1	48 9	60 3	81
32 4	92 0	10127 2	270 0	-44 8	-70 6	249 9	40 7*	38 2	14 0	330 8	329 9	0 1	48 9	61 4	81
32 9	93 0	10277 3	264 0	-45 7	-71 6	251 5	53 3*	50 5	16 9	332 1	329 9	0 1	48 9	63 3	80
33 3	94 0	10430 2	258 0	-46 3	-72 6	254 9	76 2*	73 4	20 7	334 3	329 9	0 1	48 9	65 4	80
33 7	95 0	10589 9	253 0	-47 7	-73 6	254 9	90 3*	87 2	23 5	334 3	329 9	0 1	48 9	67 7	80
34 2	96 0	10719 9	247 0	-47 7	-74 6	251 0	70 8*	67 0	24 8	334 5	329 9	0 1	48 9	70 2	80
34 7	97 0	10878 2	241 0	-48 7	-75 6	245 3	47 7*	43 4	20 0	335 7	329 9	0 1	48 9	71 9	80

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

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Table 6. Continued.

TIME MIN	CNTCT	HEIGHT GPM	PRES INB	TEMP DC C	DEM PT DC C	DIR DG	SPEED M/SEC	U COMP M/SEC	J COMP M/SEC	POT T D2 K	E POT T DC K	MI RTO CM/KG	RH PCY	RANGE FM	AZ DG
35 2	98 0	11016 0	230 0	-51 2	99 9	240 6	39 6*	34 5	19 4	335 5	99 9	99 9	999 9	73 0	79
35 7	99 0	11154 0	231 0	-52 3	99 9	243 2	52 1*	46 5	23 4	335 9	99 9	99 9	999 9	74 2	79
36 1	100 0	11286 1	226 0	-53 2	99 9	247 1	74 3*	68 4	26 9	332 5	99 9	99 9	999 9	75 3	79
36 5	101 0	11468 9	220 0	-54 5	99 9	250 4	102 8*	98 8	34 5	337 1	99 9	99 9	999 9	77 5	78
37 0	102 0	11618 0	215 0	-54 8	99 9	253 7	146 1*	139 6	43 3	338 9	99 9	99 9	999 9	81 1	78
37 4	103 0	11787 2	210 0	-54 9	99 9	252 1	185 0*	147 5	47 2	334 2	99 9	99 9	999 9	85 2	78
37 9	104 0	11922 6	205 0	-52 9	99 9	248 0	113 9*	105 6	42 7	336 5	99 9	99 9	999 9	89 6	78
38 3	105 0	12061 8	200 0	-52 4	99 9	246 1	88 3*	59 1	26 1	332 2	99 9	99 9	999 9	91 6	77
38 7	106 0	12211 9	196 0	-53 1	99 9	230 5	44 9*	24 7	26 4	332 3	99 9	99 9	999 9	92 6	77
39 2	107 0	12378 7	191 0	-52 6	99 9	236 7	51 2*	42 6	28 1	334 1	99 9	99 9	999 9	92 6	77
39 7	108 0	12550 1	186 0	-52 4	99 9	243 2	66 1*	59 0	29 8	337 1	99 9	99 9	999 9	93 5	75
40 1	109 0	12690 7	182 0	-52 3	99 9	243 3	88 9*	59 6	30 0	339 5	99 9	99 9	999 9	93 1	75
40 6	110 0	12876 6	177 0	-52 3	99 9	238 3	55 7*	47 4	29 2	331 1	99 9	99 9	999 9	93 9	75
41 1	111 0	13017 7	173 0	-53 7	99 9	235 2	46 1*	38 0	26 4	332 5	99 9	99 9	999 9	93 9	75
41 5	112 0	13200 1	168 0	-54 0	99 9	240 3	46 1*	40 0	22 8	335 0	99 9	99 9	999 9	100 3	75
42 2	113 0	13360 5	164 0	-54 8	99 9	251 9	87 3*	82 0	27 1	338 1	99 9	99 9	999 9	104 0	75
42 6	114 0	13517 9	160 0	-56 2	99 9	252 9	97 7*	93 5	28 3	336 5	99 9	99 9	999 9	106 5	75
43 1	115 0	13678 9	156 0	-56 0	99 9	252 6	64 6*	61 5	29 3	339 5	99 9	99 9	999 9	109 2	75
43 5	116 0	13843 9	152 0	-56 5	99 9	248 6	19 7*	18 3	19 2	339 2	99 9	99 9	999 9	110 4	75
44 1	117 0	14013 2	148 0	-56 5	99 9	251 5	12 6*	12 9	4 3	334 2	99 9	99 9	999 9	110 2	75
44 4	118 0	14231 0	143 0	-57 0	99 9	254 2	25 0*	24 1	6 1	337 0	99 9	99 9	999 9	110 8	75
44 9	119 0	14385 1	140 0	-57 7	99 9	254 6	31 2*	30 2	9 1	338 1	99 9	99 9	999 9	111 6	75
45 5	120 0	14547 4	136 0	-58 2	99 9	255 0	52 7*	51 8	12 9	338 5	99 9	99 9	999 9	112 6	75
45 8	121 0	14734 1	132 0	-60 0	99 9	255 0	53 1*	53 1	14 2	330 5	99 9	99 9	999 9	114 2	75
46 2	122 0	14925 4	128 0	-61 8	99 9	255 0	49 5*	47 8	12 6	330 5	99 9	99 9	999 9	115 5	75
46 6	123 0	15071 6	125 0	-63 7	99 9	255 0	43 9*	42 4	11 4	339 7	99 9	99 9	999 9	116 3	75
47 3	124 0	15271 1	121 0	-63 9	99 9	255 0	51 5*	49 7	13 3	332 9	99 9	99 9	999 9	118 4	75
47 6	125 0	15425 0	118 0	-63 9	99 9	255 0	52 9*	51 1	13 7	335 7	99 9	99 9	999 9	119 4	75
48 1	126 0	15636 5	114 0	-64 4	99 9	255 0	44 6*	42 1	11 6	338 4	99 9	99 9	999 9	120 9	75
48 7	127 0	15798 5	111 0	-66 0	99 9	255 0	40 7*	39 3	10 5	338 4	99 9	99 9	999 9	122 3	75
49 1	128 0	15964 6	109 0	-67 3	99 9	255 0	40 9*	39 5	10 6	330 3	99 9	99 9	999 9	123 3	75
49 9	129 0	16192 6	104 0	-67 3	99 9	255 0	56 2*	54 3	14 6	333 3	99 9	99 9	999 9	125 3	75
50 2	130 0	16368 8	101 0	-67 9	99 9	255 0	57 5*	55 6	14 9	335 4	99 9	99 9	999 9	125 5	75
50 4	131 0	16548 7	98 0	-68 6	99 9	255 0	54 8*	53 0	14 2	337 1	99 9	99 9	999 9	127 4	75
51 2	132 0	16735 3	95 0	-68 6	99 9	255 0	36 1*	34 9	9 4	338 5	99 9	99 9	999 9	129 2	75
51 7	133 0	16926 4	92 0	-68 7	99 9	255 0	37 4*	37 0	9 7	330 6	99 9	99 9	999 9	130 4	75
52 4	134 0	17124 1	89 0	-68 5	99 9	255 0	37 4*	36 1	9 7	332 6	99 9	99 9	999 9	131 6	75
53 0	135 0	17330 1	86 0	-66 7	99 9	255 0	41 9*	40 5	10 8	438 5	99 9	99 9	999 9	132 4	75
53 4	136 0	17545 2	83 0	-66 0	99 9	255 0	30 4*	29 3	7 9	420 5	99 9	99 9	999 9	134 3	75
54 1	137 0	17768 5	80 0	-66 0	99 9	75 0	12 1*	11 7	0 6	436 5	99 9	99 9	999 9	134 6	75
54 6	138 0	17922 1	78 0	-66 0	99 9	75 0	15 1*	14 6	3 9	433 6	99 9	99 9	999 9	134 2	75
55 2	139 0	18159 8	75 0	-66 5	99 9	75 0	15 1*	14 6	3 9	437 4	99 9	99 9	999 9	135 5	75
55 8	140 0	18406 6	72 0	-67 1	99 9	255 0	35 3*	34 7	9 3	449 8	99 9	99 9	999 9	135 9	75
56 6	141 0	18678 3	70 0	-62 9	99 9	255 0	39 3*	38 0	10 2	459 8	99 9	99 9	999 9	137 2	75

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

Table 6. Concluded.

STATION NO CROWELL, TEXAS															
6 FEBRUARY 1982															
1723 GMT															
TIME	CNTCT	HEIGHT	PRES	TEMP	DEM PT	DIR	SPEED	U COMP	V COMP	POT T	E POT T	MX RTO	RH	RANGE	AZ
MIN		GPM	MB	DG C	DG C	DG	M/SEC	M/SEC	M/SEC	DG K	DG K	GM/KG	PCT	KM	DG
78 0	143 0	19134.2	64 0	-60.7	99 9	255 0	11.4*	11 0	2 9	468 4	999 9	99 9	999 9	138 7	75
78 6	144 0	19231.6	62 0	-61 0	99 9	75 0	7 5*	-7 3	-2 0	489 9	999 9	99 9	999 9	138 6	75
79 0	145 0	19329.6	59 0	-61.2	99 9	75 0	20 0*	-19 3	-5 2	478 2	999 9	99 9	999 9	138 0	75
79 4	146 0	19427.1	57 0	-64.4	99 9	75 0	37 0*	-35 7	-9 6	473 6	999 9	99 9	999 9	137 2	75
80 0	147 0	20162.5	54 0	-64 6	99 9	75 0	42 3	-40 8	-10 9	480 5	999 9	99 9	999 9	135 2	75
81 4	148 0	20413.3	52 0	-64.1	99 9	999 9	99 9	99 9	99 9	487 1	999 9	99 9	999 9	999 9	999 9
82 2	149 0	20777.4	49 0	-63 9	99 9	999 9	99 9	99 9	99 9	495 9	999 9	99 9	999 9	999 9	999 9
82 8	150 0	21035.4	47 0	-59 8	99 9	999 9	99 9	99 9	99 9	511 6	999 9	99 9	999 9	999 9	999 9

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Table 7. Explanation of column headings of tabulated sounding data for AVE/VAS I.

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TIME (MIN)	Time after balloon release.
CNTCT	Contact number.
HEIGHT (GPM)	Height of corresponding pressure surface in geopotential meters.
PRES (MB)	Pressure in millibars.
TEMP (DG C)	Ambient temperature in degrees Celsius. NOTE: An asterisk indicates that time from release and/or temperature were linearly interpolated.
DEW PT (DG C)	Dew-point temperature in degrees Celsius.
DIR (DG)	Wind direction measured clockwise from true north and is the direction from which the wind is blowing.
SPEED (M/SEC)	Scalar wind speed in meters per second. NOTE: An asterisk indicates that wind quantities are based on an elevation angle that is between 10° and 6°. A double asterisk indicates that the elevation angle is less than 6°.
U COMP (M/SEC)	The E-W wind component, positive toward the east and negative toward the west.
V COMP (M/SEC)	The N-S wind component, positive toward the north and negative toward the south.
POT T (DG K)	Potential temperature in degrees Kelvin.
E POT T (DG K)	Equivalent potential temperature in degrees Kelvin.
MX RTO (GM/KG)	Mixing ratio in grams per kilogram.
RH (PCT)	Relative humidity in percent.
RANGE (KM)	Distance balloon is from release point along a radius vector.
AZ (DG)	Direction toward balloon measured clockwise from true north.

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Table 8. Launch time (GMT) and termination pressure (mb) for soundings taken for AVE/VAS I.

Crowell, TX	*	1723 47 mb	2306 102 mb
Henrietta, TX	1157 79 mb	1700 61 mb	*
Durant, OK	**	**	**
Throckmorton, TX	**	*	*
Denton, TX	*	*	2302 18 mb
Abilene, TX	**	**	2310 90 mb
Ennis, TX	1145 298 mb	1704 462 mb	2300 107 mb
Brownwood, TX	*	1722 13 mb	*
Hewitt, TX	*	1713 397 mb	2300 12 mb
Menard, TX	1225 11 mb	1714 19 mb	2318 57 mb
Burnet TX	*	1712 11 mb	2320 13 mb
College Station, TX	1401 213 mb	1701 200 mb	2338 164 mb
Ft. Hood, TX	1118 560 mb	1718 386 mb	2305 353 mb
Stephenville, TX	***	1715 11 mb	***

\* No data available due to equipment problems.

\*\* Operators unable to reach station in time to make the launch.

\*\*\* Sounding not available.

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unresolved errors remain in the data because so few complete soundings were taken.

Six soundings had missing temperature data for more than five consecutive contacts. These soundings along with the extent of missing data are listed in Table 9. Temperatures in these layers were not computed since linear interpolation was considered to be inaccurate. Geopotential heights could not be computed above these layers of missing temperature.

Appendix II contains a second copy of the affected soundings with temperatures interpolated through the missing data layers. Computed geopotential heights in these soundings should be used with caution (if at all), and other derived quantities (wind direction, speed, u- and v-components, and sonde range and azimuth) should be carefully considered before use.

4. Other Data

Ground temperatures at a depth of 2 cm (approx.) were taken at special stations maintained by TAMU. These measurements were taken immediately after the sounding launch. These temperatures are presented in Table 10.

Table 9. AVE/VAS I soundings with data missing for more than five successive contacts.

Station		Date/GMT	Explanation
Henrietta, TX	(002)	6/1157	Missing data 786-514 mb
Abilene, TX	(006)	6/2310	Missing data 179-133 mb, 115-99 mb
Hewitt, TX	(009)	6/1713	Missing data surface-863 mb
Menard, TX	(010)	6/1225 6/2318	Missing data surface-764 mb Missing data surface-363 mb
College Station, TX	(012)	6/2338	Missing data surface-939 mb

Table 10. Ground temperatures ( $^{\circ}\text{C}$ ) at a depth of 2 cm at TAMU special rawinsonde stations on February 6-7 1982.

Station	Time (GMT)		
	12	18	00
Crowell, TX	--	0.0	0.2
Henrietta, TX	--	0.9	2.9
Durant, OK	--	--	--
Throckmorton, TX	--	--	--
Denton, TX	--	-0.1	0.1
Abilene, TX	--	--	2.3
Ennis, TX	-4.0	-0.3	2.8
Brownwood, TX	--	1.9	3.9
Hewitt, TX	-5.0	-3.7	-0.7
Menard, TX	-5.0	-2.3	-0.5
Burnet, TX	0.9	1.1	4.0
College Station, TX	1.3	4.3	4.0

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Acknowledgements

A number of people have assisted in the production of this report. Their help is greatly appreciated. The author would like to acknowledge the efforts of the following people:

Dr. Robert E. Turner, Chief, and the personnel of the Environmental Applications Branch, Atmospheric Sciences Division, NASA/MFSC, who collected the sounding data from the National Weather Service stations.

Luke P. Gilchrist, president of GLG Company, Inc. He assisted in setting up the special rawinsonde stations manned by TAMU.

Jake Canglose, who provided expert guidance for the five TAMU technicians. Their efforts in maintaining, repairing, and sometimes even rebuilding the equipment used in the special network made the collection of this sounding data possible.

Dr. James R. Scoggins, who directed the field program conducted by TAMU, and the forty student workers who participated in the field work. These people risked life and limb; facing up to icy roads, adverse weather conditions, and unfriendly local law enforcement officials in order to collect the sounding data presented in this report.

Reference

Fuelberg, H.E. 1974: Reduction and error analysis of the AVE II pilot experiment data. NASA Contractor Report CR-120496. Marshall Space Flight Center, Alabama, 140 pp.

APPENDIX I

AVE/VAS I Rawinsonde Data

Presented at 25-mb Intervals

ORIGINAL PORTION  
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STATION NO 1  
CROWELL, TEXAS  
6 FEBRUARY 1982  
1723 GMT

143 47 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTD GM/KG	RH PCT	RANGE KM	AZ DG
00	0	488	986	-5	-16	350	1	0	-1	289	271	0	33	0	0
00	9	999	1000	99	99	99	99	0	99	99	99	99	99	99	999
00	6	544	975	-5	-5	99	99	0	99	288	270	0	99	99	999
00	6	746	950	-8	-16	99	99	0	99	288	270	0	99	99	999
00	6	952	925	-10	-21	99	99	0	99	288	270	0	99	99	999
00	6	1140	900	-17	-19	17	3	0	-3	273	275	0	33	0	0
00	6	1365	875	-5	-19	43	4	0	-2	277	280	0	32	0	0
00	6	1612	850	-6	-18	57	6	4	-3	279	282	0	37	1	0
00	6	1848	825	-5	-17	53	3	2	-1	282	285	0	40	2	0
00	6	2086	800	-5	-14	33	7	5	-5	284	289	0	49	0	0
00	6	2336	775	-4	-14	31	2	1	-6	285	291	0	49	0	0
00	6	2584	750	-4	-14	31	2	1	-6	285	291	0	49	0	0
00	6	2832	725	-3	-15	29	6	3	-5	286	292	0	48	6	0
00	6	3080	700	-2	-17	28	3	9	-3	287	293	0	47	1	0
00	6	3328	675	-2	-18	27	0	2	-3	288	294	0	46	8	0
00	6	3576	650	-3	-19	26	7	9	-5	289	295	0	45	0	0
00	6	3824	625	-4	-19	26	7	9	-5	289	295	0	45	0	0
00	6	4072	600	-6	-22	26	1	3	-7	290	296	0	44	0	0
00	6	4320	575	-8	-22	26	0	3	-7	290	296	0	44	0	0
00	6	4568	550	-10	-22	26	0	3	-7	290	296	0	44	0	0
00	6	4816	525	-14	-25	26	2	3	-7	291	297	0	43	0	0
00	6	5064	500	-16	-25	26	2	3	-7	291	297	0	43	0	0
00	6	5312	475	-19	-25	26	1	3	-7	292	298	0	42	0	0
00	6	5560	450	-22	-25	26	1	3	-7	292	298	0	42	0	0
00	6	5808	425	-25	-25	26	1	3	-7	292	298	0	42	0	0
00	6	6056	400	-28	-25	26	1	3	-7	292	298	0	42	0	0
00	6	6304	375	-30	-25	26	1	3	-7	292	298	0	42	0	0
00	6	6552	350	-32	-25	26	1	3	-7	292	298	0	42	0	0
00	6	6800	325	-36	-25	26	1	3	-7	292	298	0	42	0	0
00	6	7048	300	-40	-25	26	1	3	-7	292	298	0	42	0	0
00	6	7296	275	-44	-25	26	1	3	-7	292	298	0	42	0	0
00	6	7544	250	-48	-25	26	1	3	-7	292	298	0	42	0	0
00	6	7792	225	-53	-25	26	1	3	-7	292	298	0	42	0	0
00	6	8040	200	-57	-25	26	1	3	-7	292	298	0	42	0	0
00	6	8288	175	-62	-25	26	1	3	-7	292	298	0	42	0	0
00	6	8536	150	-67	-25	26	1	3	-7	292	298	0	42	0	0
00	6	8784	125	-72	-25	26	1	3	-7	292	298	0	42	0	0
00	6	9032	100	-77	-25	26	1	3	-7	292	298	0	42	0	0
00	6	9280	75	-82	-25	26	1	3	-7	292	298	0	42	0	0
00	6	9528	50	-87	-25	26	1	3	-7	292	298	0	42	0	0
00	6	9776	25	-92	-25	26	1	3	-7	292	298	0	42	0	0

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATON EXCEEDS 5 CONTACTS

STATION NO. 1  
CROWELL, TEXAS  
6 FEBRUARY 1982  
2300 GMT

TIME MIN	CNTCT	WEIGHT GPM	PRES MM	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POI T DG K	E POI T DG K	MI RTO GM/KG	RH PCT	RANGE KM	AZ DG
00.0	7.8	449.8	800.0	0.8	-19.8	360.0	0.0	0.0	0.0	275.5	277.9	0.8	20.0	0.0	0.0
00.3	98.8	480.8	1000.0	0.8	0.8	360.0	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
00.6	8.4	907.7	875.0	-0.4*	99.9	237.9	1.8	1.5	0.9	274.8	999.9	99.9	999.9	0.0	318.0
1.5	13.3	908.5	925.0	-4.3	99.9	240.6	1.5	1.4	0.7	274.9	999.9	99.9	999.9	0.1	50.0
2.8	15.7	1124.0	900.0	-4.6	-24.3	341.7	2.7	0.8	-0.5	276.5	276.5	0.8	19.4	0.1	122.0
3.3	18.2	1345.5	875.0	-5.2	-26.8	147.9	2.7	-1.4	2.3	278.0	279.2	0.5	16.5	0.1	253.0
4.1	20.7	1572.7	850.0	-5.9	-23.9	100.7	1.4	-1.4	2.3	279.9	281.8	0.7	16.3	0.1	338.0
4.9	23.3	1808.9	825.0	-5.5	-22.0	83.6	2.9	-2.9	-0.3	282.8	285.1	0.8	26.0	0.2	308.0
5.7	25.7	2048.7	800.0	-4.4	-22.0	39.8	3.5	-2.2	-2.7	286.5	288.5	0.7	19.6	0.3	283.0
6.6	28.3	2288.7	775.0	-4.0	-20.0	291.5	4.2	3.9	-1.5	289.5	291.3	0.8	18.1	0.2	271.0
7.5	30.8	2527.3	750.0	-4.3	-25.3	283.3	8.0	7.6	-1.6	293.9	293.9	0.6	17.4	0.0	130.0
8.4	33.8	2765.2	725.0	-2.8	-23.8	264.7	10.6	16.1	-4.2	298.6	299.0	0.8	17.5	0.7	112.0
9.4	36.2	3103.7	700.0	-2.0	-22.9	260.7	21.3	20.9	-4.0	303.6	303.0	0.9	18.2	1.9	105.0
10.5	38.9	3382.6	675.0	-1.8	-24.3	277.7	24.1	23.9	-3.2	303.6	303.1	0.8	15.9	3.5	103.0
11.8	41.7	3681.6	650.0	-3.8	-25.2	271.2	24.1	24.1	-0.5	304.7	307.1	0.8	17.0	5.0	100.0
12.5	44.4	4000.3	625.0	-5.8	-27.2	287.7	25.2	25.2	1.0	305.8	307.8	0.6	16.4	8.4	98.0
13.7	47.3	4318.9	600.0	-7.9	-25.6	282.6	24.9	24.7	3.1	307.0	309.6	0.8	22.5	8.0	95.0
14.7	50.2	4648.4	575.0	-9.6	-27.3	282.8	30.1	29.9	3.3	308.8	311.0	0.7	21.9	9.6	93.0
16.1	53.2	4980.1	550.0	-12.1	-15.9	282.8	30.5	30.2	3.8	309.7	315.9	2.0	73.3	11.8	90.0
17.1	56.1	5344.5	525.0	-14.2	-17.8	282.2	29.9	29.5	4.2	311.4	317.0	1.8	74.2	13.8	89.0
18.4	59.3	5712.8	500.0	-17.2	-20.3	281.0	29.9	29.5	4.7	312.1	316.9	1.5	70.2	16.1	89.0
19.7	62.4	6084.7	475.0	-20.0	-23.1	257.7	31.5	30.8	6.9	313.3	317.3	1.2	75.8	18.4	88.0
21.2	65.8	6484.7	450.0	-22.4	-27.1	258.9	35.8	35.1	8.2	315.1	318.1	0.9	64.8	21.3	86.0
22.7	69.0	6911.8	425.0	-25.4	-28.2	258.0	38.7	38.7	8.2	316.4	319.3	0.9	77.5	24.6	85.0
24.1	72.4	7349.5	400.0	-28.7	-32.3	258.9	37.9	37.2	7.3	317.7	319.8	0.6	70.7	27.8	84.0
25.7	76.0	7807.8	375.0	-32.3	-40.2	280.4	44.8	46.2	7.8	316.9	320.0	0.3	44.6	31.8	84.0
27.4	79.7	8282.4	350.0	-34.8	-41.5	283.5	44.8	46.2	12.6	321.7	322.7	0.3	50.7	36.7	83.0
28.1	83.8	8808.4	325.0	-38.5	-44.1	247.5	44.5	42.7	16.5	323.6	324.4	0.2	55.1	41.1	82.0
29.9	87.3	9351.6	300.0	-42.5	99.9	250.1	44.6	44.6	18.5	325.5	324.4	0.2	99.9	46.6	80.0
32.9	91.5	9933.4	275.0	-48.9	99.9	251.7	62.0*	51.2	19.4	327.3	999.9	99.9	999.9	53.3	79.0
34.8	95.8	10560.0	250.0	-50.2	99.9	249.9	60.5*	55.8	23.8	331.4	999.9	99.9	999.9	60.3	78.0
36.9	100.4	11243.2	225.0	-50.1	99.9	238.6	69.7*	60.1	35.3	341.7	999.9	99.9	999.9	68.4	76.0
38.1	105.4	12011.8	200.0	-51.7	99.9	238.4	67.9*	57.9	35.0	350.9	999.9	99.9	999.9	70.6	74.0
41.4	116.6	12871.7	175.0	-54.3	99.9	247.8	58.8*	54.4	22.2	360.4	999.9	99.9	999.9	86.5	73.0
47.3	118.7	13857.7	150.0	-63.6	99.9	250.7	38.9*	36.4	12.7	374.2	999.9	99.9	999.9	93.8	73.0
50.8	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	379.9	999.9	99.9	999.9	98.7	73.0
52.8	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
58.8	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
59.8	99.9	99.9	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS



ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 2  
HENRIETTA, TEXAS  
8 FEBRUARY 1982  
1157 GMT

TIME MIN	CNTCT	WEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POI T DG M	E POI T DG M	M S RTD GM/KG	PH PCT	RANGE MN	AZ DG
00	02	287.5	1005.0	-10.5	-18.0	315.0	5.0	3.5	3.5	262.3	264.7	0.9	54.0	130	79.0
00	08	325.8	1000.0	-11.4	-17.9	999.9	99.9	99.9	99.9	261.8	264.2	0.9	58.7	999.9	999.9
00	14	519.4	975.0	-13.6	-19.3	999.9	99.9	99.9	99.9	261.4	263.7	0.8	52.0	999.9	999.9
00	20	716.4	950.0	-15.0	-20.1	999.9	99.9	99.9	99.9	262.0	264.1	0.6	54.9	999.9	999.9
00	26	919.7	925.0	-12.7	-24.9	999.9	99.9	99.9	99.9	265.4	267.9	0.5	35.4	999.9	999.9
00	32	1128.2	900.0	-11.7	-26.3	999.9	99.9	99.9	99.9	268.4	269.4	0.5	22.9	999.9	999.9
00	38	1344.8	875.0	-12.5	-25.2	999.9	99.9	99.9	99.9	275.0	271.5	0.5	24.3	999.9	999.9
00	44	1569.9	850.0	-12.2	-23.2	999.9	99.9	99.9	99.9	279.6	273.6	0.7	14.3	999.9	999.9
00	50	1801.9	825.0	-12.4	-21.3	999.9	99.9	99.9	99.9	284.2	278.6	0.9	13.9	999.9	999.9
00	56	2047.9	800.0	-12.2	-18.4	999.9	99.9	99.9	99.9	288.7	280.2	1.1	13.9	999.9	999.9
00	02	2293.9	775.0	-9.9	-9.9	999.9	99.9	99.9	99.9	293.3	293.3	1.3	13.9	999.9	999.9
00	08	2539.9	750.0	-9.1	-9.9	999.9	99.9	99.9	99.9	297.9	299.1	1.5	13.9	999.9	999.9
00	14	2785.9	725.0	-9.0	-9.2	999.9	99.9	99.9	99.9	302.5	299.3	1.7	13.9	999.9	999.9
00	20	3031.9	700.0	-9.0	-9.2	999.9	99.9	99.9	99.9	307.1	297.3	1.9	13.9	999.9	999.9
00	26	3277.9	675.0	-9.3	-9.3	999.9	99.9	99.9	99.9	311.7	294.4	2.1	13.9	999.9	999.9
00	32	3523.9	650.0	-9.3	-9.3	999.9	99.9	99.9	99.9	316.3	291.5	2.3	13.9	999.9	999.9
00	38	3769.9	625.0	-9.3	-9.3	999.9	99.9	99.9	99.9	320.9	288.6	2.5	13.9	999.9	999.9
00	44	4015.9	600.0	-9.3	-9.3	999.9	99.9	99.9	99.9	325.5	285.7	2.7	13.9	999.9	999.9
00	50	4261.9	575.0	-9.3	-9.3	999.9	99.9	99.9	99.9	330.1	282.8	2.9	13.9	999.9	999.9
00	56	4507.9	550.0	-9.3	-9.3	999.9	99.9	99.9	99.9	334.7	279.9	3.1	13.9	999.9	999.9
00	02	4753.9	525.0	-9.3	-9.3	999.9	99.9	99.9	99.9	339.3	277.0	3.3	13.9	999.9	999.9
00	08	5000.0	500.0	-9.3	-9.3	999.9	99.9	99.9	99.9	343.9	274.1	3.5	13.9	999.9	999.9
00	14	5246.0	475.0	-9.3	-9.3	999.9	99.9	99.9	99.9	348.5	271.2	3.7	13.9	999.9	999.9
00	20	5492.0	450.0	-9.3	-9.3	999.9	99.9	99.9	99.9	353.1	268.3	3.9	13.9	999.9	999.9
00	26	5738.0	425.0	-9.3	-9.3	999.9	99.9	99.9	99.9	357.7	265.4	4.1	13.9	999.9	999.9
00	32	5984.0	400.0	-9.3	-9.3	999.9	99.9	99.9	99.9	362.3	262.5	4.3	13.9	999.9	999.9
00	38	6230.0	375.0	-9.3	-9.3	999.9	99.9	99.9	99.9	366.9	259.6	4.5	13.9	999.9	999.9
00	44	6476.0	350.0	-9.3	-9.3	999.9	99.9	99.9	99.9	371.5	256.7	4.7	13.9	999.9	999.9
00	50	6722.0	325.0	-9.3	-9.3	999.9	99.9	99.9	99.9	376.1	253.8	4.9	13.9	999.9	999.9
00	56	6968.0	300.0	-9.3	-9.3	999.9	99.9	99.9	99.9	380.7	250.9	5.1	13.9	999.9	999.9
00	02	7214.0	275.0	-9.3	-9.3	999.9	99.9	99.9	99.9	385.3	248.0	5.3	13.9	999.9	999.9
00	08	7460.0	250.0	-9.3	-9.3	999.9	99.9	99.9	99.9	389.9	245.1	5.5	13.9	999.9	999.9
00	14	7706.0	225.0	-9.3	-9.3	999.9	99.9	99.9	99.9	394.5	242.2	5.7	13.9	999.9	999.9
00	20	7952.0	200.0	-9.3	-9.3	999.9	99.9	99.9	99.9	399.1	239.3	5.9	13.9	999.9	999.9
00	26	8198.0	175.0	-9.3	-9.3	999.9	99.9	99.9	99.9	403.7	236.4	6.1	13.9	999.9	999.9
00	32	8444.0	150.0	-9.3	-9.3	999.9	99.9	99.9	99.9	408.3	233.5	6.3	13.9	999.9	999.9
00	38	8690.0	125.0	-9.3	-9.3	999.9	99.9	99.9	99.9	412.9	230.6	6.5	13.9	999.9	999.9
00	44	8936.0	100.0	-9.3	-9.3	999.9	99.9	99.9	99.9	417.5	227.7	6.7	13.9	999.9	999.9
00	50	9182.0	75.0	-9.3	-9.3	999.9	99.9	99.9	99.9	422.1	224.8	6.9	13.9	999.9	999.9
00	56	9428.0	50.0	-9.3	-9.3	999.9	99.9	99.9	99.9	426.7	221.9	7.1	13.9	999.9	999.9
00	02	9674.0	25.0	-9.3	-9.3	999.9	99.9	99.9	99.9	431.3	219.0	7.3	13.9	999.9	999.9
00	08	9920.0	0.0	-9.3	-9.3	999.9	99.9	99.9	99.9	435.9	216.1	7.5	13.9	999.9	999.9

.. BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 .. BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 .. BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG CONTACTS  
 .. BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 2  
HENRIETTA, TEXAS  
6 FEBRUARY 1982  
1700 GMT

TIME MIN	CRCT	WEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIA DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG M	E POT T DG M	MX RTO GM/NG	RH PCT	RANGE KM	AZ DG
0 2	0 0	267 5	1085 5	-3 5	-18 9	340 0	2 5	0 9	-2 3	289 2	271 0	0 8	29 7	0 0	0
0 7	0 0	320 0	1000 0	-3 7	-20 5	284 0	2 1	0 9	-0 5	267 2	269 5	0 7	29 7	0 1	256
0 7	0 0	527 5	975 0	-8 8	-18 4	999 9	99 9	99 9	99 9	266 3	268 6	0 9	45 0	999 9	999
1 3	11 0	777 0	950 0	-11 2	-21 0	999 9	99 9	99 9	99 9	265 8	267 9	0 9	44 0	999 9	999
1 3	13 0	332 3	925 0	-10 7	-20 8	999 9	99 9	99 9	99 9	268 4	269 0	0 4	22 2	999 9	999
2 0	18 0	114 0	900 0	-10 7	-20 8	999 9	99 9	99 9	99 9	273 2	274 3	0 4	15 4	999 9	999
2 3	18 4	1383 5	825 0	-8 8	-20 9	999 9	99 9	99 9	99 9	276 7	277 9	0 4	15 3	999 9	999
4 0	23 3	1508 8	800 0	-7 6	-20 9	999 9	99 9	99 9	99 9	279 1	280 3	0 4	15 2	999 9	999
4 5	23 7	2082 3	800 0	-5 1	-19 2	999 9	99 9	99 9	99 9	285 6	286 8	1 0	22 6	999 9	999
5 3	28 2	232 8	775 0	-4 6	-11 1	999 9	99 9	99 9	99 9	286 8	288 0	2 1	60 3	999 9	999
6 0	30 6	257 7	750 0	-5 1	-12 0	999 9	99 9	99 9	99 9	291 1	296 9	2 0	58 2	999 9	999
7 0	33 3	2837 5	725 0	-5 8	-10 8	999 9	99 9	99 9	99 9	294 0	300 5	2 3	63 4	999 9	999
7 9	35 9	3113 9	700 0	-3 8	-13 8	999 9	99 9	99 9	99 9	294 2	303 7	1 9	45 0	999 9	999
8 5	38 6	3402 0	675 0	-2 9	-20 7	999 9	99 9	99 9	99 9	302 4	306 0	1 2	25 2	999 9	999
10 3	41 3	3700 3	650 0	-4 1	-18 2	999 9	99 9	99 9	99 9	304 0	308 3	1 0	33 0	999 9	999
11 1	44 1	4008 0	625 0	-6 4	-22 7	999 9	99 9	99 9	99 9	305 1	308 3	1 0	32 5	999 9	999
12 0	46 7	4325 0	600 0	-8 2	-14 3	999 9	99 9	99 9	99 9	307 8	312 1	2 0	65 4	999 9	999
12 9	48 7	4654 7	575 0	-10 3	-15 4	999 9	99 9	99 9	99 9	307 8	314 1	2 0	65 5	999 9	999
13 7	52 5	4955 0	550 0	-12 3	-22 5	999 9	99 9	99 9	99 9	309 5	313 1	1 5	42 0	13 0	90
14 8	55 5	5348 7	525 0	-15 0	-20 2	260 5	35 7	35 2	5 7	310 4	315 0	1 5	64 5	13 0	90
15 8	58 5	5717 2	500 0	-17 6	-20 9	260 5	45 4	44 8	7 5	311 2	316 1	1 4	75 9	15 5	94
16 0	61 8	6098 1	475 0	-21 0	-22 0	262 2	39 3	39 0	5 3	312 1	316 4	1 1	91 1	18 1	92
18 0	65 0	6498 1	450 0	-23 5	-24 1	263 5	39 1	38 9	4 4	313 0	317 3	1 1	86 7	20 5	91
18 0	65 0	6812 0	425 0	-28 1	-28 4	262 7	43 5	43 2	5 5	318 9	319 6	0 8	70 4	23 1	89
20 1	71 7	7331 2	400 0	-37 9	-38 3	260 3	45 7	45 0	7 7	318 7	320 5	0 5	54 3	26 0	88
21 2	75 3	7812 0	375 0	-30 7	-38 1	257 7	48 5	47 4	10 3	321 0	322 4	0 3	47 5	29 0	87
21 2	78 0	8299 7	350 0	-33 4	-40 0	254 7	47 9	46 2	12 8	323 7	324 9	0 2	50 9	32 0	87
22 3	82 0	8817 2	325 0	-38 5	-44 6	254 6	48 0	47 3	13 0	327 7	327 2	0 2	42 1	35 5	86
23 5	87 0	9306 0	300 0	-40 9	-46 9	254 8	48 7	48 9	12 6	327 7	329 0	0 2	39 4	39 4	85
24 0	91 3	9953 7	275 0	-45 1	-49 9	254 8	50 2	48 4	13 1	329 0	329 0	0 2	47 7	47 7	84
26 1	95 0	10583 1	250 0	-50 1	-54 9	251 9	58 6	58 6	17 0	331 6	331 6	0 2	42 1	42 1	84
27 0	100 0	11286 1	225 0	-54 0	-59 9	244 1	55 5	49 3	24 3	335 8	335 8	0 2	52 8	52 8	81
31 0	105 0	12010 5	200 0	-55 1	-59 9	243 0	55 3	49 3	25 1	345 5	345 5	0 2	58 8	58 8	79
33 4	111 0	12871 7	175 0	-54 8	-59 9	254 2	54 7	52 4	14 9	359 9	359 9	0 2	66 4	66 4	78
38 2	117 0	13854 0	150 0	-58 8	-59 9	257 9	53 2*	44 0	11 2	372 2	372 2	0 2	75 5	75 5	78
38 6	123 7	14866 7	125 0	-65 3	-65 3	256 8	45 2*	29 4	5 4	376 7	376 7	0 2	84 1	84 1	78
42 8	131 0	16334 4	100 0	-67 0	-67 0	256 8	29 9*	29 9*	5 4	432 0	432 0	0 2	90 7	90 7	78
48 0	138 7	18074 1	75 0	-87 0	-87 0	999 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	100 2	78
50 9	99 9	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
50 9	99 9	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999

ONLINE  
OF PROGRAMS

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE ON TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONT/CYS

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 5  
DENTON, TEXAS

6 FEBRUARY 1982  
2302 GMT

TIME MIN	CRCTG	HEIGHT GPM	PRES MB	TEMP °C	DEW PT °C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0 0	5 1	193 2	1013 5	-0 1	-13 3	360 0	0 0	0 0	0 0	272 0	275 0	1 3	36 0	0 0	0 0
0 4	6 4	290 9	1000 0	-3 0	-14 1	999 9	99 9	99 9	99 9	270 1	273 6	1 3	41 9	999 9	999 9
1 2	6 7	400 6	975 0	-5 1	-16 7	999 9	99 9	99 9	99 9	270 0	273 4	1 3	48 9	999 9	999 9
2 0	11 1	703 0	950 0	-6 0	-16 7	999 9	99 9	99 9	99 9	270 5	273 4	1 1	44 4	999 9	999 9
3 5	12 3	911 5	925 0	-6 0	-25 8	999 9	99 9	99 9	99 9	273 2	274 6	0 5	19 2	999 9	999 9
4 3	15 1	1178 0	900 0	-3 9	-25 8	999 9	99 9	99 9	99 9	277 5	279 0	0 5	15 9	999 9	999 9
5 2	20 5	1278 1	875 0	-3 0	-25 8	999 9	99 9	99 9	99 9	260 1	281 6	0 5	15 8	999 9	999 9
6 1	22 9	1814 9	825 0	-3 5	-21 4	999 9	99 9	99 9	99 9	282 0	285 3	0 8	23 0	999 9	999 9
6 6	25 3	2059 3	800 0	-2 1	-13 0	999 9	99 9	99 9	99 9	288 9	293 9	1 4	35 6	999 9	999 9
7 6	27 8	2312 0	775 0	-1 6	-16 5	999 9	99 9	99 9	99 9	292 1	296 1	1 4	43 1	999 9	999 9
8 6	30 3	2573 3	750 0	-1 1	-20 2	999 9	99 9	99 9	99 9	295 4	298 5	1 0	30 9	999 9	999 9
9 6	32 9	2844 7	725 0	-0 5	-18 9	999 9	99 9	99 9	99 9	300 1	303 7	1 2	22 3	999 9	999 9
10 6	35 4	3125 8	700 0	-0 3	-16 7	999 9	99 9	99 9	99 9	302 7	306 6	1 5	27 9	999 9	999 9
11 6	38 1	3418 2	675 0	-0 9	-24 1	999 9	99 9	99 9	99 9	304 7	307 3	0 8	15 1	999 9	999 9
13 0	40 0	3718 3	650 0	-2 8	-24 4	999 9	99 9	99 9	99 9	305 8	308 4	0 8	17 0	999 9	999 9
14 1	43 4	4025 8	625 0	-5 7	-25 7	999 9	99 9	99 9	99 9	306 3	308 7	0 8	18 4	999 9	999 9
15 2	46 2	4344 5	600 0	-7 6	-27 2	999 9	99 9	99 9	99 9	307 1	309 6	0 7	22 0	999 9	999 9
16 4	48 0	4673 7	575 0	-10 4	-27 2	999 9	99 9	99 9	99 9	307 6	310 1	0 7	22 7	999 9	999 9
17 5	51 8	5014 7	550 0	-12 5	-21 1	999 9	99 9	99 9	99 9	307 6	310 1	0 7	22 0	999 9	999 9
18 0	54 7	5268 5	525 0	-15 1	-21 8	999 9	99 9	99 9	99 9	309 2	312 3	1 3	48 0	999 9	999 9
20 1	57 0	5528 3	500 0	-17 1	-20 0	999 9	99 9	99 9	99 9	310 3	313 3	1 3	48 0	999 9	999 9
21 5	60 6	5798 3	475 0	-18 0	-20 0	999 9	99 9	99 9	99 9	312 2	317 1	1 6	55 9	999 9	999 9
22 9	63 7	6118 3	450 0	-22 2	-21 5	999 9	99 9	99 9	99 9	313 5	318 1	1 4	78 2	999 9	999 9
24 3	67 0	6538 5	425 0	-25 4	-23 4	999 9	99 9	99 9	99 9	315 4	318 8	1 1	74 9	999 9	999 9
26 0	70 3	7073 7	400 0	-29 0	-31 2	999 9	99 9	99 9	99 9	316 4	319 1	0 8	70 1	999 9	999 9
27 8	73 7	7672 4	375 0	-34 8	-34 8	999 9	99 9	99 9	99 9	317 4	319 7	0 7	80 9	999 9	999 9
29 2	77 3	8318 6	350 0	-36 1	-39 8	253 9	41 8	40 1	1 1	318 9	320 7	0 5	77 6	33 0	84
31 3	81 6	8980 4	325 0	-39 8	-39 8	252 2	39 8	37 9	12 1	321 6	321 2	0 3	68 9	37 3	83
33 0	84 8	9380 6	300 0	-43 0	-48 1	251 4	43 1	40 9	13 8	324 7	321 2	0 3	99 9	41 5	82
35 0	88 9	9951 0	275 0	-48 5	-48 5	251 1	55 1	52 1	17 9	327 9	327 9	0 3	99 9	46 3	81
37 0	93 0	1058 1	250 0	-48 1	-53 6	241 3	56 1	47 1	26 9	333 1	333 1	0 3	99 9	51 6	80
39 6	97 0	11284 7	225 0	-53 6	-53 6	238 0	56 8	52 1	29 4	330 1	330 1	0 3	99 9	58 5	79
42 3	102 4	12022 3	200 0	-53 7	-58 9	252 2	46 8	44 9	22 8	347 4	347 4	0 3	99 9	56 5	78
45 3	107 6	12675 9	175 0	-58 7	-58 7	252 2	43 7	42 0	12 1	350 4	350 4	0 3	99 9	84 7	74
48 3	113 0	13468 4	150 0	-68 4	-68 4	198 9	35 0	33 4	7 1	367 6	367 6	0 3	99 9	92 6	74
52 4	125 7	18302 4	125 0	-70 7	-68 6	198 9	35 0	33 4	7 1	374 4	374 4	0 3	99 9	101 3	74
56 4	132 0	20408 5	100 0	-89 8	-89 8	261 0	46 3	46 0	7 3	391 2	391 2	0 3	99 9	107 9	74
60 2	141 0	24408 9	75 0	-84 4	-84 4	310 6	23 6	18 1	-15 3	420 5	420 5	0 3	99 9	121 3	75
63 3	148 3	28783 7	50 0	-96 1	-96 1	190 0	19 1	18 1	-18 3	491 7	491 7	0 3	99 9	141 1	76
65 3	158 3	34408 9	25 0	-96 1	-96 1	190 0	19 1	18 1	-18 3	623 6	623 6	0 3	99 9	144 4	77

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 6  
 ABILENE, TEXAS  
 6 FEBRUARY 1982  
 2310 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E (P) T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
00	9 6	531.9	970.5	-0.2	-15.6	305.0	5.0	4.1	-2.9	275.3	278.5	1.2	30.0	0.0	0.0
01	9 9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
02	9 9	99.9	999.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
03	13.7	701.8	950.0	-2.6	-22.4	999.9	99.9	99.9	99.9	274.5	276.4	0.7	20.1	999.9	999.9
04	18.1	912.3	900.0	-4.7	-20.5	999.9	99.9	99.9	99.9	274.5	276.6	0.8	25.2	999.9	999.9
05	18.5	1126.9	875.0	-6.1	-21.0	88.6	4.3	-4.3	-0.1	274.3	276.8	0.8	32.9	999.9	999.9
06	20.9	1346.2	850.0	-8.8	-23.6	59.4	3.2	-2.8	0.1	275.4	277.7	0.8	34.4	0.3	205
07	23.3	1572.6	825.0	-13.7	-28.6	21.3	1.1	-1.1	-2.9	282.2	284.1	1.6	19.8	0.4	227
08	25.8	1809.6	800.0	-11.3	-13.7	334.9	3.5	1.5	-2.2	287.7	292.4	1.6	37.6	0.6	223
09	28.3	2056.3	775.0	-1.6	-11.3	291.3	6.3	5.8	-2.3	292.9	298.7	2.3	37.7	0.7	216
10	30.9	2312.2	750.0	2.2	-10.2	289.3	10.7	10.1	-2.3	295.5	302.0	2.3	41.3	0.8	198
11	33.5	2576.7	725.0	2.2	-19.2	289.3	13.9	13.6	-3.5	299.0	302.5	1.1	19.0	0.9	167
12	36.1	2850.9	700.0	2.8	-22.7	281.4	17.0	17.0	-2.7	302.5	305.2	0.8	12.8	1.4	141
13	38.7	3133.7	675.0	1.4	-24.1	272.3	20.3	20.3	-0.7	304.1	306.6	0.8	12.8	2.2	123
14	41.4	3426.3	650.0	0.8	-25.4	266.4	22.1	22.1	0.5	306.5	309.3	0.9	14.2	3.1	112
15	44.2	3728.1	625.0	-1.6	-23.3	266.7	22.1	22.1	1.3	307.2	309.6	0.7	14.2	4.3	105
16	47.0	4038.8	600.0	-3.8	-27.5	263.5	22.9	22.7	2.6	308.1	310.2	0.6	13.7	5.8	100
17	49.8	4358.5	575.0	-6.2	-24.9	259.7	22.5	22.1	4.0	309.0	311.7	0.8	20.9	7.2	96
18	52.6	4651.0	550.0	-9.1	-14.3	259.6	23.5	22.2	4.2	309.3	316.2	2.2	66.2	8.7	93
19	55.4	4910.9	525.0	-12.1	-15.4	258.2	25.7	25.1	5.3	309.6	318.2	2.1	78.4	10.4	91
20	58.2	5170.9	500.0	-14.4	-17.3	254.3	28.3	27.3	7.4	311.1	318.6	1.9	78.7	12.3	89
21	61.0	5426.7	475.0	-16.2	-20.4	254.3	31.4	30.7	9.8	313.3	318.1	1.9	69.7	14.1	87
22	63.8	5682.2	450.0	-18.6	-22.4	258.0	34.4	33.7	12.2	314.9	318.0	1.3	72.8	16.5	85
23	66.6	5937.7	425.0	-21.0*	-25.9	259.9	37.4	36.9	15.0	316.9	319.9	0.9	99.9	18.9	83
24	69.4	6193.2	400.0	-23.6*	-28.2	260.3	40.4	39.9	17.8	318.5	320.4	0.9	99.9	21.3	81
25	72.2	6448.7	375.0	-26.9	-31.3	263.6	43.1	42.1	20.6	320.2	321.1	0.7	72.4	23.9	83
26	75.0	6704.2	350.0	-31.3	-34.4	263.6	45.8*	44.4	23.1	322.8	322.0	0.5	74.0	27.0	81
27	77.8	6959.7	325.0	-34.1*	-37.9	263.6	48.3	47.4	25.9	325.5	322.8	0.2	99.9	30.2	81
28	80.6	7215.2	300.0	-37.9	-44.0	263.6	50.8*	49.9	28.8	328.2	325.4	0.2	99.9	33.4	81
29	83.4	7470.7	275.0	-41.3	-49.9	263.6	53.3*	52.9	31.6	331.7	328.2	0.2	99.9	36.6	81
30	86.2	7726.2	250.0	-45.9	-55.9	263.6	55.8*	55.8*	34.4	335.1	332.0	0.2	99.9	39.8	81
31	89.0	7981.7	225.0	-50.1	-61.9	263.6	58.3*	58.3*	37.2	338.5	335.1	0.2	99.9	43.0	81
32	91.8	8237.2	200.0	-53.0	-67.9	263.6	60.8*	60.8*	40.0	341.8	338.5	0.2	99.9	46.2	81
33	94.6	8492.7	175.0	-56.9	-73.9	263.6	63.3*	63.3*	42.8	345.2	341.8	0.2	99.9	49.4	81
34	97.4	8748.2	150.0	-60.9	-79.9	263.6	65.8*	65.8*	45.6	348.6	345.2	0.2	99.9	52.6	81
35	100.2	9003.7	125.0	-64.9	-85.9	263.6	68.3*	68.3*	48.4	352.0	348.6	0.2	99.9	55.8	81
36	103.0	9259.2	100.0	-68.9	-91.9	263.6	70.8*	70.8*	51.2	355.4	352.0	0.2	99.9	59.0	81
37	105.8	9514.7	75.0	-72.9	-97.9	263.6	73.3*	73.3*	54.0	358.8	355.4	0.2	99.9	62.2	81
38	108.6	9770.2	50.0	-76.9	-103.9	263.6	75.8*	75.8*	56.8	362.2	358.8	0.2	99.9	65.4	81
39	111.4	10025.7	25.0	-80.9	-109.9	263.6	78.3*	78.3*	59.6	365.6	362.2	0.2	99.9	68.6	81
40	114.2	10281.2	0.0	-84.9	-115.9	263.6	80.8*	80.8*	62.4	369.0	365.6	0.2	99.9	71.8	81
41	117.0	10536.7		-88.9	-121.9	263.6	83.3*	83.3*	65.2	372.4	369.0	0.2	99.9	75.0	81
42	119.8	10792.2		-92.9	-127.9	263.6	85.8*	85.8*	68.0	375.8	372.4	0.2	99.9	78.2	81
43	122.6	11047.7		-96.9	-133.9	263.6	88.3*	88.3*	70.8	379.2	375.8	0.2	99.9	81.4	81
44	125.4	11303.2		-100.9	-139.9	263.6	90.8*	90.8*	73.6	382.6	379.2	0.2	99.9	84.6	81
45	128.2	11558.7		-104.9	-145.9	263.6	93.3*	93.3*	76.4	386.0	382.6	0.2	99.9	87.8	81
46	131.0	11814.2		-108.9	-151.9	263.6	95.8*	95.8*	79.2	389.4	386.0	0.2	99.9	91.0	81
47	133.8	12069.7		-112.9	-157.9	263.6	98.3*	98.3*	82.0	392.8	389.4	0.2	99.9	94.2	81
48	136.6	12325.2		-116.9	-163.9	263.6	100.8*	100.8*	84.8	396.2	392.8	0.2	99.9	97.4	81
49	139.4	12580.7		-120.9	-169.9	263.6	103.3*	103.3*	87.6	399.6	396.2	0.2	99.9	100.6	81
50	142.2	12836.2		-124.9	-175.9	263.6	105.8*	105.8*	90.4	403.0	399.6	0.2	99.9	103.8	81
51	145.0	13091.7		-128.9	-181.9	263.6	108.3*	108.3*	93.2	406.4	403.0	0.2	99.9	107.0	81
52	147.8	13347.2		-132.9	-187.9	263.6	110.8*	110.8*	96.0	409.8	406.4	0.2	99.9	110.2	81
53	150.6	13602.7		-136.9	-193.9	263.6	113.3*	113.3*	98.8	413.2	409.8	0.2	99.9	113.4	81
54	153.4	13858.2		-140.9	-199.9	263.6	115.8*	115.8*	101.6	416.6	413.2	0.2	99.9	116.6	81
55	156.2	14113.7		-144.9	-205.9	263.6	118.3*	118.3*	104.4	420.0	416.6	0.2	99.9	119.8	81
56	159.0	14369.2		-148.9	-211.9	263.6	120.8*	120.8*	107.2	423.4	420.0	0.2	99.9	123.0	81
57	161.8	14624.7		-152.9	-217.9	263.6	123.3*	123.3*	110.0	426.8	423.4	0.2	99.9	126.2	81
58	164.6	14880.2		-156.9	-223.9	263.6	125.8*	125.8*	112.8	430.2	426.8	0.2	99.9	129.4	81
59	167.4	15135.7		-160.9	-229.9	263.6	128.3*	128.3*	115.6	433.6	430.2	0.2	99.9	132.6	81
60	170.2	15391.2		-164.9	-235.9	263.6	130.8*	130.8*	118.4	437.0	433.6	0.2	99.9	135.8	81
61	173.0	15646.7		-168.9	-241.9	263.6	133.3*	133.3*	121.2	440.4	437.0	0.2	99.9	139.0	81
62	175.8	15902.2		-172.9	-247.9	263.6	135.8*	135.8*	124.0	443.8	440.4	0.2	99.9	142.2	81
63	178.6	16157.7		-176.9	-253.9	263.6	138.3*	138.3*	126.8	447.2	443.8	0.2	99.9	145.4	81
64	181.4	16413.2		-180.9	-259.9	263.6	140.8*	140.8*	129.6	450.6	447.2	0.2	99.9	148.6	81
65	184.2	16668.7		-184.9	-265.9	263.6	143.3*	143.3*	132.4	454.0	450.6	0.2	99.9	151.8	81
66	187.0	16924.2		-188.9	-271.9	263.6	145.8*	145.8*	135.2	457.4	454.0	0.2	99.9	155.0	81
67	189.8	17179.7		-192.9	-277.9	263.6	148.3*	148.3*	138.0	460.8	457.4	0.2	99.9	158.2	81
68	192.6	17435.2		-196.9	-283.9	263.6	150.8*	150.8*	140.8	464.2	460.8	0.2	99.9	161.4	81
69	195.4	17690.7		-200.9	-289.9	263.6	153.3*	153.3*	143.6	467.6	464.2	0.2	99.9	164.6	81
70	198.2	17946.2		-204.9	-295.9	263.6	155.8*	155.8*	146.4	471.0	467.6	0.2	99.9	167.8	81
71	201.0	18201.7		-208.9	-301.9	263.6	158.3*	158.3*	149.2	474.4	471.0	0.2	99.9	171.0	81
72	203.8	18457.2		-212.9	-307.9	263.6	160.8*	160.8*	152.0	477.8	474.4	0.2	99.9	174.2	81
73	206.6	18712.7		-216.9	-313.9	263.6	163.3*	163.3*	154.8	481.2	477.8	0.2	99.9	177.4	81
74	209.4	18968.2		-220.9	-319.9	263.6	165.8*	165.8*	157.6	484.6	481.2	0.2	99.9	180.6	81
75	212.2	19223.7		-224.9	-325.9	263.6	168.3*	168.3*	160.4	488.0	484.6	0.2	99.9	183.8	81
76	215.0	19479.2		-228.9	-331.9	263.6	170.8*	170.8*	163.2	491.4	488.0	0.2	99.9	187.0	81
77	217.8	19734.7		-232.9	-337.9	263.6	173.3*	173.3*	166.0	494.8	491.4	0.2	99.9	190.2	81
78	220.6	20000.2		-236.9	-343.9	263.6	175.8*	175.8*	168.8	498.2	494.8	0.2	99.9	193.4	81
79	223.4	20255.7		-240.9	-349.9	263.6	178.3*	178.3*	171.6	501.6	498.2	0.2	99.9	196.6	81
80	226.2	20511.2		-244.9	-355.9	263.6	1								

ORIGINAL  
OF PAGE

TIME MTZ	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE NM	AZ DG
0 0	5 2	149 7	1020 2	-8 1	-14 1	340 0	2 5	0 9	-2 3	263 5	266 8	1 3	62 0	0 0	0
0 6	7 1	304 3	1000 0	-10 3	-15 6	354 8	8 6	0 8	-8 5	262 8	265 9	1 1	65 3	0 2	175
1 3	9 4	493 8	975 0	-12 1	-16 3	353 6	10 1	1 1	-10 0	262 0	265 9	1 1	70 7	0 6	174
2 0	11 7	696 8	950 0	-13 8	-17 2	4 7	10 6	0 9	-10 6	263 2	269 7	1 0	73 5	1 1	174
2 7	14 1	900 0	925 0	-11 6	-20 4	14 6	9 0	-2 3	-18 7	267 5	276 7	0 8	47 8	1 5	180
3 3	16 5	1112 0	900 0	-7 0	-20 4	17 0	6 8	-1 8	-6 6	274 3	284 2	0 9	34 6	1 8	183
4 4	18 0	1332 7	875 0	-3 6	-23 8	35 1	5 6	0 4	-5 3	280 1	293 6	1 5	44 9	2 2	186
5 3	21 5	1564 4	850 0	0 4	-9 9	311 0	3 9	3 0	-3 9	289 5	295 1	2 2	44 4	2 4	185
6 9	24 9	1804 4	825 0	0 4	-9 9	275 1	4 0	3 0	-2 6	289 5	301 3	2 2	45 9	2 6	185
8 0	28 5	2052 9	800 0	2 9	-10 5	277 3	9 8	9 7	-0 9	300 5	307 6	2 4	39 3	2 6	177
9 7	31 6	2379 0	775 0	5 9	-10 5	276 7	16 2	16 0	-2 3	301 0	307 6	2 2	39 6	2 7	163
10 6	34 2	2854 1	750 0	2 8	-11 7	271 9	19 7	19 6	-2 3	302 5	308 5	2 0	30 9	3 3	147
11 5	36 9	3428 0	700 0	0 4	-13 5	266 0	22 3	22 3	-0 8	303 0	308 5	1 9	34 3	4 2	134
12 6	42 2	4328 0	675 0	-0 8	-14 2	266 1	23 9	23 9	0 3	304 7	310 3	1 9	34 7	5 1	116
13 7	45 0	4037 3	625 0	-3 1	-14 2	266 8	26 4	26 4	1 3	304 7	311 4	1 9	41 6	6 4	110
14 8	47 8	4356 5	600 0	-5 9	-13 9	265 2	28 3	28 2	1 6	305 5	312 0	2 1	52 9	7 9	105
16 0	50 6	4686 8	575 0	-7 3	-15 8	263 0	28 4	29 0	2 5	307 6	313 4	1 9	51 1	9 7	102
17 1	53 6	5028 1	550 0	-9 8	-16 2	262 6	27 2	27 0	3 3	308 6	313 5	1 6	50 0	11 3	97
18 2	56 6	5381 5	525 0	-14 5	-19 0	256 9	29 2	28 1	3 6	308 6	314 0	1 6	64 0	15 3	97
19 5	59 6	5750 0	500 0	-16 4	-23 4	256 3	34 5	33 5	6 6	311 0	316 1	1 6	68 5	17 1	95
20 8	62 9	6134 5	475 0	-18 2	-33 4	258 8	40 8	40 0	7 9	315 5	317 1	0 7	81 4	19 3	93
21 9	66 1	6536 5	450 0	-18 2	-33 4	258 8	39 9	38 7	9 5	317 4	319 3	0 5	82 9	22 1	91
23 3	69 4	6958 3	425 0	-21 8	-33 6	253 7	39 4	37 8	11 1	321 2	323 2	0 5	84 9	24 9	88
24 7	72 8	7403 0	400 0	-24 7	-38 0	249 8	38 7	36 3	13 4	322 9	324 4	0 4	86 8	28 0	86
26 2	76 3	7869 9	375 0	-26 0	-37 1	252 0	47 6	45 3	14 7	324 6	326 1	0 4	91 1	31 0	86
27 6	80 0	8362 2	350 0	-31 6	-37 5	250 0	45 5	42 6	15 6	326 6	327 6	0 4	95 9	35 0	83
29 4	87 9	9435 5	325 0	-35 4	-43 0	99 9	99 9	99 9	99 9	327 9	328 8	0 3	99 9	39 3	83
31 2	87 7	9435 5	300 0	-39 7	-43 0	99 9	99 9	99 9	99 9	329 4	330 9	0 3	99 9	45 4	83
33 0	90 9	99 9	275 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
34 9	93 9	99 9	250 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
36 8	96 9	99 9	225 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
38 7	99 9	99 9	200 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
40 6	99 9	99 9	175 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
42 5	99 9	99 9	150 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
44 4	99 9	99 9	125 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
46 3	99 9	99 9	100 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
48 2	99 9	99 9	75 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
50 1	99 9	99 9	50 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
52 0	99 9	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 7  
ENNIS, TEXAS  
06 FEBRUARY 1982  
1704 GMT

TIME MIN	CMTC	HEIGHT GPM	PRES INB	TEMP DC C	DEW PT DC C	DIP DC	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DC F	E POT T DC M	MI RATIO CM/KG	RH PCT	RANGE VM	AZ DC
0 0	4 6	149 7	1023 1	-4 5	-14 3	330 0	2 5	1 3	2 2	266 9	270 2	1 2	46 0	0 0	0
0 2	6 7	327 1	1000 0	-8 9	-18 2	4 6	7 7	-0 6	-7 7	264 2	260 6	0 8	46 7	0 4	176
0 7	9 1	522 3	975 0	-11 1	-18 0	4 1	7 4	-0 5	-7 4	263 9	266 5	0 9	46 7	0 5	178
1 5	11 5	721 2	950 0	-13 1	-18 4	7 1	7 6	-0 9	-7 6	263 9	266 4	0 9	54 0	0 8	180
2 2	13 8	924 5	925 0	-10 5	-21 4	12 3	8 9	-1 9	-8 7	268 5	270 6	0 7	41 3	1 2	184
3 0	16 3	1136 8	900 0	-10 7	-21 2	19 2	7 5	-2 5	-7 1	274 6	276 8	0 8	30 4	1 6	187
3 8	18 6	1358 4	875 0	-3 2	-17 4	18 3	4 5	-1 3	-4 3	283 6	288 9	1 1	32 3	1 8	189
4 6	21 3	1588 7	850 0	-0 8	-16 7	336 0	3 9	1 6	-3 5	285 3	288 8	1 2	28 7	2 1	189
5 4	23 6	1827 5	825 0	-0 4	-11 9	292 5	4 1	3 8	-1 6	291 6	293 6	1 9	41 9	2 2	185
6 2	26 3	2074 0	800 0	2 7	-13 7	295 1	8 9	8 1	-3 8	291 6	293 7	1 9	39 6	2 2	178
7 2	28 8	2328 8	775 0	7 2	-14 6	288 7	14 4	13 8	-4 1	298 0	301 9	1 7	29 7	2 2	163
7 7	31 4	2584 5	750 0	1 3	-14 6	278 2	15 3	15 2	-4 1	298 0	302 9	1 6	29 5	2 2	152
8 3	34 0	2864 3	725 0	-0 5	-17 4	261 8	16 7	16 5	2 4	293 0	303 0	1 3	26 3	3 5	138
9 0	36 6	3146 5	700 0	-1 6	-19 1	262 4	19 8	18 7	5 6	303 0	304 4	1 2	24 9	3 0	128
10 7	39 2	3435 6	675 0	-2 2	-21 2	282 6	22 9	21 9	8 9	303 2	308 4	1 0	21 7	4 8	114
11 7	41 9	3735 3	650 0	-4 6	-18 9	234 7	25 8	24 9	8 9	305 5	311 2	1 6	31 3	5 9	105
12 7	44 7	4045 8	625 0	-7 6	-16 2	255 1	27 4	26 1	7 1	307 2	312 5	1 7	30 8	7 4	95
13 8	47 5	4385 3	600 0	-10 2	-14 6	256 9	28 5	27 8	6 4	307 3	313 6	1 9	32 9	9 1	82
14 8	50 2	4685 1	575 0	-12 2	-15 7	256 9	30 1	29 3	6 6	308 0	314 6	2 2	32 7	12 8	69
15 9	53 1	5036 5	550 0	-14 4	-22 7	256 8	32 2	31 7	7 4	310 0	313 7	1 2	41 8	15 0	87
17 0	56 1	5391 1	525 0	-17 3	-23 5	99 9	34 4	31 4	9 9	311 9	315 6	1 1	49 4	18 8	87
18 4	59 1	5759 1	500 0	-19 0	-24 9	99 9	36 9	34 5	9 9	314 5	317 9	1 1	58 6	22 9	99
19 4	62 3	6142 3	475 0	-19 0	-24 9	99 9	39 9	39 9	9 9	314 5	317 9	1 1	58 6	22 9	99
20 9	65 8	6500 0	450 0	-19 0	-24 9	99 9	42 9	42 9	9 9	314 5	317 9	1 1	58 6	22 9	99
22 0	69 8	6850 0	425 0	-19 0	-24 9	99 9	45 9	45 9	9 9	314 5	317 9	1 1	58 6	22 9	99
23 0	73 8	7200 0	400 0	-19 0	-24 9	99 9	48 9	48 9	9 9	314 5	317 9	1 1	58 6	22 9	99
24 0	77 8	7550 0	375 0	-19 0	-24 9	99 9	51 9	51 9	9 9	314 5	317 9	1 1	58 6	22 9	99
25 0	81 8	7900 0	350 0	-19 0	-24 9	99 9	54 9	54 9	9 9	314 5	317 9	1 1	58 6	22 9	99
26 0	85 8	8250 0	325 0	-19 0	-24 9	99 9	57 9	57 9	9 9	314 5	317 9	1 1	58 6	22 9	99
27 0	89 8	8600 0	300 0	-19 0	-24 9	99 9	60 9	60 9	9 9	314 5	317 9	1 1	58 6	22 9	99
28 0	93 8	8950 0	275 0	-19 0	-24 9	99 9	63 9	63 9	9 9	314 5	317 9	1 1	58 6	22 9	99
29 0	97 8	9300 0	250 0	-19 0	-24 9	99 9	66 9	66 9	9 9	314 5	317 9	1 1	58 6	22 9	99
30 0	101 8	9650 0	225 0	-19 0	-24 9	99 9	69 9	69 9	9 9	314 5	317 9	1 1	58 6	22 9	99
31 0	105 8	10000 0	200 0	-19 0	-24 9	99 9	72 9	72 9	9 9	314 5	317 9	1 1	58 6	22 9	99
32 0	109 8	10350 0	175 0	-19 0	-24 9	99 9	75 9	75 9	9 9	314 5	317 9	1 1	58 6	22 9	99
33 0	113 8	10700 0	150 0	-19 0	-24 9	99 9	78 9	78 9	9 9	314 5	317 9	1 1	58 6	22 9	99
34 0	117 8	11050 0	125 0	-19 0	-24 9	99 9	81 9	81 9	9 9	314 5	317 9	1 1	58 6	22 9	99
35 0	121 8	11400 0	100 0	-19 0	-24 9	99 9	84 9	84 9	9 9	314 5	317 9	1 1	58 6	22 9	99
36 0	125 8	11750 0	75 0	-19 0	-24 9	99 9	87 9	87 9	9 9	314 5	317 9	1 1	58 6	22 9	99
37 0	129 8	12100 0	50 0	-19 0	-24 9	99 9	90 9	90 9	9 9	314 5	317 9	1 1	58 6	22 9	99
38 0	133 8	12450 0	25 0	-19 0	-24 9	99 9	93 9	93 9	9 9	314 5	317 9	1 1	58 6	22 9	99
39 0	137 8	12800 0	0 0	-19 0	-24 9	99 9	96 9	96 9	9 9	314 5	317 9	1 1	58 6	22 9	99

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL RECORD  
OF PUBLIC UTILITY

STATION NO. 7  
ENNIS, TEXAS  
FEBRUARY 1962  
2300 GMT

TIME MIN	CNTCT	WEIGHT GPM	PRES MB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U/COMP M/SEC	V/COMP M/SEC	POY V DG F	E/POY T DG V	WJ STO CH/NO	RM PCT	RANGE PM	AZ DG
0 0	5 0	149 7	1018 6	2 7	-9 5	310 0	1 5	1 1	1 0	274 4	279 3	1 8	40 0	0 0	0
0 5	6 0	287 1	1000 0	-2 7	-16 0	0 0	6 5	-0 1	6 7	270 8	272 8	1 1	39 1	0 0	214
1 0	6 0	487 3	875 0	-4 3	-16 1	0 0	6 8	-1 2	8 7	270 8	272 8	1 1	38 1	0 0	230
1 2 0	11 1	701 4	850 0	-6 0	-17 7	19 9	7 1	-1 4	7 0	272 2	272 8	0 8	28 8	0 0	197
2 7	13 4	909 9	825 0	-8 3	-24 5	21 3	8 5	-2 1	8 0	272 8	272 8	0 8	28 0	1 0	195
3 6	15 6	1725 8	800 0	-2 8	-25 4	37 4	10 9	6 4	8 4	278 6	280 2	0 5	28 5	1 0	202
4 4	17 8	1348 0	875 0	-2 6	-24 0	49 2	8 5	-5 5	8 4	281 1	282 0	0 8	27 2	2 0	205
5 2	20 4	1578 0	850 0	-0 9	-20 5	23 0	4 2	-1 6	3 9	285 3	287 8	0 9	27 8	2 4	207
6 1	22 7	1819 1	825 0	1 5	-9 8	1 5	4 1	0 1	4 1	290 2	292 2	2 2	22 9	2 4	205
7 0	25 2	2087 1	800 0	1 6	9 1	225 1	4 9	2 6	4 0	292 9	294 7	2 4	22 4	2 7	196
7 9	27 6	2323 8	775 0	2 9	9 4	271 4	8 9	8 3	3 2	297 3	299 7	2 4	29 7	2 7	196
8 9	30 2	2588 0	750 0	2 8	-14 7	270 9	12 9	2 9	3 2	299 5	304 5	1 7	28 9	2 0	182
9 7	32 0	2883 8	725 0	2 7	-19 9	269 0	15 5	-5 5	1 1	302 4	305 8	1 1	17 1	3 0	188
10 6	35 2	3145 8	700 0	0 3	-21 4	263 6	19 8	-9 8	1 9	302 8	305 8	1 1	18 5	3 0	146
11 7	37 8	3428 2	675 0	-1 0	-21 4	264 1	20 0	19 8	2 1	304 5	307 7	1 0	19 4	2 6	132
12 0	40 3	3737 3	650 0	-1 0	-9 7	262 0	25 1	24 9	2 3	307 8	315 3	2 8	19 7	4 7	118
13 0	43 0	4048 7	625 0	-4 1	-9 4	263 8	28 2	28 0	2 3	307 8	315 3	2 8	19 7	5 2	102
14 0	45 6	4369 4	600 0	-7 0	-17 3	264 2	28 3	28 1	4 4	308 0	314 7	2 9	17 1	8 0	102
15 3	48 0	4709 4	575 0	-9 1	-17 3	264 2	27 3	27 0	4 4	308 0	314 7	2 9	17 1	8 0	99
16 3	51 2	5032 6	550 0	-11 8	-21 4	258 7	28 2	28 2	5 7	310 0	315 0	1 4	14 0	9 0	92
17 4	54 2	5357 6	525 0	-14 2	-21 1	258 1	28 2	28 2	5 5	311 4	315 7	1 4	14 0	9 0	92
18 7	57 3	5780 8	500 0	-17 2	-20 2	260 8	22 0	21 6	5 1	313 3	317 8	1 5	13 8	9 0	90
20 0	60 3	6151 2	478 0	-18 5	-27 1	258 0	23 3	22 7	6 3	315 0	317 8	1 5	13 8	9 0	90
21 3	63 5	6522 8	450 0	-21 0	-26 8	258 8	26 4	25 6	6 3	316 8	320 0	1 0	13 0	8 8	86
22 6	66 8	6892 8	425 0	-23 8	-27 0	254 0	28 7	27 1	6 0	318 4	321 6	1 0	12 4	8 6	85
24 1	70 0	7412 1	400 0	-27 0	-36 4	250 6	38 7	36 5	12 9	318 1	321 6	0 4	12 4	8 2	82
25 7	73 4	7873 0	375 0	-30 8	-36 4	252 5	44 4	42 6	12 4	320 7	322 2	0 3	12 1	8 2	82
27 2	77 0	8359 4	350 0	-33 9	-41 3	253 6	50 4	47 8	15 7	323 0	325 3	0 1	12 1	8 2	80
30 4	80 7	8875 1	325 0	-37 7	-48 2	251 9	54 4	49 6	18 0	324 7	325 3	0 1	12 1	8 2	80
32 1	84 5	9423 4	300 0	-41 4	-58 9	249 7	49 6	46 2	15 7	327 1	325 3	0 1	12 1	8 2	80
33 8	88 5	10008 8	275 0	-44 8	-68 9	247 3	55 9	51 8	21 6	330 4	325 3	0 1	12 1	8 2	80
35 7	92 2	10642 0	250 0	-48 9	-78 9	242 3	60 5	53 5	28 1	332 3	325 3	0 1	12 1	8 2	80
37 0	97 2	11327 9	225 0	-52 7	-88 9	238 8	58 2	49 7	30 3	337 8	325 3	0 1	12 1	8 2	80
40 0	102 5	12084 1	200 0	-54 1	-98 9	242 8	56 6	50 4	25 9	347 1	325 3	0 1	12 1	8 2	80
42 4	107 5	12859 7	175 0	-58 5	-98 9	251 3	51 5	48 8	15 7	357 8	325 3	0 1	12 1	8 2	80
45 0	112 2	13811 1	150 0	-60 5	-98 9	251 4	49 4	46 8	15 7	365 2	325 3	0 1	12 1	8 2	80
48 2	118 7	15033 8	125 0	-65 6	-98 9	98 9	98 9	98 9	98 9	98 9	98 9	98 9	98 9	98 9	98 9
50 8	98 8	98 8	100 0	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8
53 8	98 8	98 8	75 0	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8
56 8	98 8	98 8	50 0	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8
59 8	98 8	98 8	25 0	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8	98 8

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE ON TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STATION EXCEEDS 5 CONTACTS

ORIGINAL  
OF POOR QUALITY

STATION NO  
B  
BROWNWOOD, TEXAS  
0 FEBRUARY 1982  
0 1722 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	D/R DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	M' RTO GM/KG	RH PCT	RANGE MM	AZ DG
00	00	502.3	977.2	-0.0	-14.7	316.0	8.0	5.6	-5.8	268.9	272.2	1.2	50.0	0.0	0.0
00	00	1000.0	977.2	-0.0	-14.7	316.0	8.0	5.6	-5.8	268.9	272.2	1.2	50.0	0.0	0.0
00	01	975.0	975.0	-7.3	-17.0	337.0	8.8	9.9	-8.2	267.8	270.6	1.0	45.9	0.3	154
00	06	721.8	950.0	-9.0	-18.2	343.8	7.5	3.1	-7.2	268.1	270.8	1.0	47.1	0.5	156
01	05	927.5	925.0	-11.7	-17.8	358.2	6.4	-0.7	-6.2	268.4	271.8	0.9	57.1	0.7	181
02	09	1137.6	908.0	-11.7	-20.4	358.2	6.4	-0.7	-6.2	268.4	271.8	0.9	57.1	0.7	181
02	09	1354.9	875.0	-6.7	-24.3	19.9	9.4	-1.8	-5.1	274.8	276.5	0.8	26.8	1.1	174
03	06	1582.3	850.0	-11.4	-24.3	19.9	9.4	-1.8	-5.1	274.8	276.5	0.8	26.8	1.1	174
04	08	1619.7	825.0	-0.5	-9.0	337.6	5.7	2.2	-5.2	268.1	284.6	2.7	52.3	1.7	140
05	07	2088.2	800.0	3.0	-13.0	292.8	8.3	7.9	-3.2	284.4	289.5	1.6	29.6	2.0	171
06	07	2326.2	775.0	4.2	-14.4	289.3	8.3	7.9	-3.2	284.4	289.5	1.6	29.6	2.0	171
07	07	2592.6	750.0	3.9	-15.7	287.3	9.0	8.6	-2.7	300.8	305.3	1.5	22.2	2.3	158
08	08	2887.2	725.0	2.8	-19.0	272.2	11.5	11.5	-0.4	302.6	306.2	1.2	18.0	3.1	141
08	09	3149.8	700.0	0.6	-16.1	254.0	13.3	12.8	3.7	303.2	308.0	1.0	27.7	3.6	130
09	09	3441.7	675.0	0.4	-20.7	252.8	17.8	16.8	5.8	308.1	309.5	1.1	18.7	3.6	130
11	11	3743.8	650.0	0.4	-18.4	252.8	22.5	21.5	6.7	309.3	312.3	1.4	25.2	5.4	108
12	13	4055.8	625.0	-0.9	-20.3	252.3	23.5	22.6	7.3	309.2	313.1	1.2	24.3	6.9	98
13	15	4377.4	600.0	-6.0	-14.2	252.3	24.6	23.2	7.7	309.2	315.7	1.2	20.5	8.7	92
14	14	4709.4	575.0	-8.5	-11.4	252.4	25.4	24.2	7.7	310.0	318.0	1.7	18.0	10.4	89
15	14	5052.3	550.0	-11.0	-10.0	258.3	27.7	27.1	5.6	311.0	318.0	1.7	18.0	10.4	89
16	14	5387.4	525.0	-13.5	-10.0	269.6	30.2	30.3	2.6	313.4	318.0	1.4	15.2	12.5	86
17	14	5780.2	500.0	-14.9	-20.3	269.6	32.2	32.2	0.1	314.4	319.7	1.5	10.3	17.4	86
21	17	6187.0	475.0	-18.7	-24.0	261.0	34.4	34.4	3.4	317.3	321.1	0.7	5.2	20.5	87
23	20	6571.4	450.0	-18.5	-31.0	257.5	35.0	34.6	5.2	316.8	321.1	0.7	3.8	23.2	85
24	20	6953.7	425.0	-22.5	-31.0	257.5	37.8	36.9	8.2	320.1	322.4	0.5	4.4	25.6	84
26	20	7436.1	400.0	-28.7	-33.8	252.0	38.0	37.6	11.1	323.6	325.5	0.6	5.8	27.2	83
28	23	7901.8	375.0	-34.1	-34.1	252.7	39.6	37.6	11.8	323.6	327.0	0.4	5.1	29.6	81
30	21	8392.0	350.0	-35.0	-38.5	247.1	41.9	40.8	16.3	325.7	329.2	0.2	3.3	31.9	79
32	21	8912.8	325.0	-35.0	-45.7	242.7	45.5	44.8	20.2	328.5	332.0	0.2	3.3	34.3	77
34	22	9485.8	300.0	-39.4	-45.9	242.7	53.4*	47.5	24.5	328.5	332.0	0.2	3.3	36.7	75
36	25	10057.0	275.0	-43.3	-45.9	242.8	60.9*	48.0	23.9	328.5	332.0	0.2	3.3	39.1	73
38	26	10884.4	250.0	-46.3	-46.3	241.5	62.9*	53.6	29.1	327.3	332.0	0.2	3.3	41.5	72
41	27	11367.5	225.0	-51.5	-49.9	231.8	49.8*	54.5	30.8	327.3	332.0	0.2	3.3	43.9	70
43	27	12145.3	200.0	-53.9	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	46.3	69
46	27	12999.9	175.0	-55.4	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	48.7	69
49	27	13772.1	150.0	-59.7	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	51.1	69
53	33	15098.0	125.0	-64.8	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	53.5	69
57	33	16446.3	100.0	-68.8	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	55.9	69
62	39	18161.2	75.0	-68.8	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	58.3	69
67	45	20875.4	50.0	-63.9*	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	60.7	69
68	45	22875.0	25.0	-54.2	-49.9	999.9	99.9	99.9	99.9	327.3	332.0	0.2	3.3	63.1	69

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS



ORIGINAL PAPER  
OF POOR QUALITY

STATION NO. 9  
HEWITT, TEXAS  
6 FEBRUARY 1982  
1713 GMT

TIME MIN	CRCT	HEIGHT GPM	PRES MB	TEMP DEG C	DEW PT DEG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DEG K	E POT T DEG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
00	5	184.1	1010.0	-3.4	-14.1	999.9	99.9	99.9	99.9	288.5	271.9	1.3	43.0	999.9	999.9
06	9	99.9	1000.0	99.9**	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
15	3	99.9	975.0	99.9**	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
24	11.0	99.9	950.0	99.9**	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
35	14.0	99.9	925.0	99.9**	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
45	16.4	99.9	900.0	99.9**	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
55	18.9	99.9	875.0	99.9**	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
62	21.3	99.9	850.0	0.1	-10.6	999.9	99.9	99.9	99.9	286.3	291.9	2.0	44.2	999.9	999.9
71	23.8	99.9	825.0	5.2	-8.9	999.9	99.9	99.9	99.9	294.1	300.8	2.4	35.5	999.9	999.9
81	26.3	99.9	800.0	8.5	-12.5	999.9	99.9	99.9	99.9	298.1	303.5	1.8	24.2	999.9	999.9
91	28.8	99.9	775.0	8.5	-14.0	999.9	99.9	99.9	99.9	300.8	305.8	1.7	21.5	999.9	999.9
103	31.4	99.9	750.0	4.6	-14.4	999.9	99.9	99.9	99.9	301.5	308.6	1.7	23.7	999.9	999.9
114	34.0	99.9	725.0	2.7	-14.2	999.9	99.9	99.9	99.9	302.5	307.0	1.5	23.2	999.9	999.9
126	36.7	99.9	700.0	1.0	-18.5	999.9	99.9	99.9	99.9	303.6	307.5	1.3	21.5	999.9	999.9
139	39.3	99.9	675.0	-0.5	-18.9	999.9	99.9	99.9	99.9	305.1	309.0	1.3	23.3	999.9	999.9
151	42.0	99.9	650.0	-1.3	-17.0	999.9	99.9	99.9	99.9	307.5	312.3	1.5	29.0	999.9	999.9
164	44.8	99.9	625.0	-3.3	-10.2	999.9	99.9	99.9	99.9	308.7	317.1	2.8	58.7	999.9	999.9
177	47.7	99.9	600.0	-6.1	-10.9	999.9	99.9	99.9	99.9	309.1	318.8	2.9	72.9	999.9	999.9
191	50.5	99.9	575.0	-8.5	-10.9	999.9	99.9	99.9	99.9	310.4	318.8	2.5	82.5	999.9	999.9
206	53.5	99.9	550.0	-10.7	-13.2	999.9	99.9	99.9	99.9	311.4	317.5	1.3	82.4	999.9	999.9
221	56.5	99.9	525.0	-12.6	-21.5	999.9	99.9	99.9	99.9	313.3	319.1	0.9	47.1	999.9	999.9
237	59.5	99.9	500.0	-15.2	-25.7	999.9	99.9	99.9	99.9	314.5	317.6	1.1	52.4	999.9	999.9
253	62.6	99.9	475.0	-16.9	-24.1	999.9	99.9	99.9	99.9	316.3	322.2	1.2	68.5	999.9	999.9
270	65.9	99.9	450.0	-19.9	-24.7	999.9	99.9	99.9	99.9	318.3	323.4	1.1	78.2	999.9	999.9
287	69.3	99.9	425.0	-22.2	-25.8	999.9	99.9	99.9	99.9	322.3	323.4	1.1	99.9	999.9	999.9
305	72.6	99.9	400.0	-25.2	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
323	76.0	99.9	375.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
341	79.4	99.9	350.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
359	82.8	99.9	325.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
377	86.2	99.9	300.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
395	89.6	99.9	275.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
413	93.0	99.9	250.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
431	96.4	99.9	225.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
449	99.8	99.9	200.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
467	103.2	99.9	175.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
485	106.6	99.9	150.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
503	110.0	99.9	125.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
521	113.4	99.9	100.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
539	116.8	99.9	75.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
557	120.2	99.9	50.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
575	123.6	99.9	25.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9

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 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 9  
HEWITT, TEXAS  
6 FEBRUARY 1982  
2300 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT 1 DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	5.8	184.1	1011.9	0.0	-12.9	20.0	4.0	-1.4	-3.8	272.2	276.0	1.4	37.0	0.0	0.0
0.2	6.9	278.0	1000.0	-1.8*	99.9	16.3	5.0	-1.6	-5.4	271.1	999.9	99.9	99.9	0.2	209.0
1.0	9.1	479.0	975.0	-4.1	-13.9	10.2	6.1	-1.1	-6.0	271.1	274.6	1.3	46.3	0.4	203.0
1.8	11.5	683.2	950.0	-6.2	-14.7	5.0	6.3	-0.5	-6.3	271.0	274.4	1.3	50.7	0.7	195.0
2.6	13.8	891.2	925.0	-8.0	-15.6	25.0	6.5	-3.7	-7.6	271.0	274.4	1.2	54.2	1.0	193.0
3.4	16.1	1105.0	900.0	-4.4	-17.3	47.1	12.2	-9.0	-8.3	277.0	279.1	0.7	24.3	1.5	203.0
4.3	18.5	1327.4	875.0	-3.1	-17.3	44.4	10.4	-7.3	-7.4	280.6	283.8	1.1	32.2	2.1	211.0
5.2	20.9	1558.4	850.0	0.5	-11.0	30.1	4.8	-2.4	-2.7	286.7	292.1	1.9	41.7	2.5	212.0
6.0	23.3	1788.4	825.0	1.9	-8.4	10.6	2.5	-0.5	-2.7	297.5	297.5	2.5	46.4	2.5	212.0
6.8	25.8	2048.2	800.0	5.2	-8.9	308.7	4.5	3.5	-2.6	297.3	304.3	2.4	34.0	2.7	209.0
7.6	28.2	2397.9	775.0	3.7	-11.6	291.3	6.7	6.2	-2.4	299.4	305.4	1.9	28.4	2.7	202.0
8.4	30.6	2849.9	750.0	3.4	-12.3	263.7	12.6	12.7	-0.3	300.6	308.3	1.9	28.7	2.7	192.0
9.2	33.0	3134.0	725.0	2.5	-12.5	260.9	15.6	15.6	1.4	303.2	309.4	2.1	30.5	2.6	178.0
10.0	35.4	3427.3	700.0	1.3	-16.0	267.2	18.6	18.6	2.5	305.2	311.5	2.1	32.0	2.6	156.0
10.8	37.8	3730.0	675.0	-0.9	-8.5	268.5	21.4	21.4	0.6	307.1	312.1	1.6	26.3	3.2	136.0
11.6	40.2	4041.7	650.0	-4.0	-9.1	268.3	22.8	22.8	0.6	308.0	317.3	3.1	56.4	4.3	121.0
12.4	42.6	4362.6	625.0	-8.3	-8.0	263.0	24.4	24.4	3.0	307.9	317.1	3.1	67.5	5.7	113.0
13.2	45.0	4684.7	600.0	-6.7	-9.4	258.5	24.8	24.3	4.9	308.8	319.2	3.5	84.1	7.3	107.0
14.0	47.4	5007.8	575.0	-11.6	-14.1	258.2	24.0	23.5	4.9	310.4	319.5	2.4	82.0	9.0	101.0
14.8	49.8	5332.7	550.0	-14.2	-17.0	265.8	25.1	25.1	1.9	311.4	317.1	1.8	75.5	12.4	95.0
15.6	52.2	5781.8	525.0	-18.3	-19.1	265.8	27.3	27.3	2.0	313.6	318.9	1.7	76.6	14.8	94.0
16.4	54.6	6147.0	500.0	-21.5	-20.5	258.4	29.7	28.9	7.0	315.4	320.4	1.6	82.2	17.2	92.0
17.2	57.0	6546.2	475.0	-23.8	-26.7	254.8	32.3	28.1	10.2	316.3	321.0	1.5	95.6	19.7	90.0
18.0	59.4	6987.8	450.0	-27.9	-26.7	254.8	33.6	31.2	8.5	319.5	321.8	1.5	76.7	22.6	87.0
18.8	61.8	7467.5	425.0	-31.0	-32.1	254.9	33.6	32.4	6.8	319.0	321.8	0.6	65.7	25.7	86.0
19.6	64.2	7868.4	375.0	-35.0	-38.0	254.3	39.1	37.7	10.6	321.1	322.8	0.5	59.0	29.4	84.0
20.4	66.6	8357.3	350.0	-39.1	-46.0	252.5	49.9	46.2	15.0	321.1	322.8	0.3	36.2	34.6	83.0
21.2	69.0	8876.7	325.0	-41.4	-46.0	250.1	58.2	52.4	16.8	327.0	327.7	0.2	34.7	40.2	81.0
22.0	71.4	9426.2	300.0	-44.7	-49.9	249.3	55.3*	50.1	19.8	330.5	330.5	99.9	99.9	40.7	79.0
22.8	73.8	10011.2	275.0	-48.6	-49.9	241.3	48.5	47.9	23.2	333.6	333.6	99.9	99.9	54.6	78.0
23.6	76.2	10544.2	250.0	-53.0	-49.9	239.1	55.6*	49.9	28.5	337.3	337.3	99.9	99.9	62.3	76.0
24.4	78.6	11208.3	225.0	-54.9	-49.9	245.9	53.7*	49.1	28.7	337.3	337.3	99.9	99.9	70.8	74.0
25.2	81.0	12083.6	200.0	-55.2	-49.9	251.2	46.2*	43.8	21.9	358.9	358.9	99.9	99.9	81.7	72.0
26.0	83.4	12937.5	175.0	-61.4	-49.9	255.4	43.5*	42.1	11.0	364.4	364.4	99.9	99.9	90.3	72.0
26.8	85.8	13909.4	150.0	-65.4	-49.9	261.6	43.5*	43.5	6.4	376.6	376.6	99.9	99.9	111.1	73.0
27.6	88.2	15029.4	125.0	-68.4	-49.9	262.1	30.9*	30.9*	4.3	389.2	389.2	99.9	99.9	133.3	74.0
28.4	90.6	16358.5	100.0	-71.7	-49.9	273.2	24.2*	24.2*	-1.3	418.7	399.9	99.9	99.9	153.3	74.0
29.2	93.0	18050.0	75.0	-73.5	-49.9	287.0	18.6*	14.8*	-7.5	489.2	399.9	99.9	99.9	176.7	76.0
30.0	95.4	20480.8	50.0	-68.8	-49.9	297.0	16.6*	14.8*	-7.5	489.2	399.9	99.9	99.9	196.7	76.0
30.8	97.8	22768.8	25.0	-57.8	-49.9	299.9	99.9*	99.9*	99.9	619.0	399.9	99.9	99.9	146.8	77.0

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 8 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRAYUM EXCEEDS 5 CONTACTS

ORIGINAL  
OF

ORIGINAL RECORD  
OF POOR QUALITY

TIME MIN	CNTCT	HEIGHT GPM	PRES MM	TEMP DG C	DEM PT DG C	DIR DC	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MZ RIO CM/KG	RH PCT	RANGE MM	AZ DG
00	10	1	985	-9	-19	999	99	99	99	266	268	0	45	999	999
01	09	9	1000	99	99	99	99	99	99	99	99	99	99	999	999
02	09	9	950	99	99	99	99	99	99	99	99	99	99	999	999
03	13	9	925	99	99	999	99	99	99	99	99	99	99	999	999
04	16	4	900	99	99	999	99	99	99	99	99	99	99	999	999
05	18	4	875	99	99	999	99	99	99	99	99	99	99	999	999
06	21	3	850	99	99	999	99	99	99	99	99	99	99	999	999
07	23	8	825	99	99	999	99	99	99	99	99	99	99	999	999
08	26	3	800	99	99	999	99	99	99	99	99	99	99	999	999
09	28	9	775	99	99	999	99	99	99	99	99	99	99	999	999
10	31	5	750	99	99	999	99	99	99	99	99	99	99	999	999
11	34	1	725	99	99	999	99	99	99	99	99	99	99	999	999
12	38	4	700	99	99	999	99	99	99	99	99	99	99	999	999
13	41	1	675	99	99	999	99	99	99	99	99	99	99	999	999
14	45	0	650	99	99	999	99	99	99	99	99	99	99	999	999
15	47	8	625	99	99	999	99	99	99	99	99	99	99	999	999
16	50	8	600	99	99	999	99	99	99	99	99	99	99	999	999
17	53	6	575	99	99	999	99	99	99	99	99	99	99	999	999
18	56	6	550	99	99	999	99	99	99	99	99	99	99	999	999
19	59	8	525	99	99	999	99	99	99	99	99	99	99	999	999
20	62	2	500	99	99	999	99	99	99	99	99	99	99	999	999
21	66	0	475	99	99	999	99	99	99	99	99	99	99	999	999
22	69	4	450	99	99	999	99	99	99	99	99	99	99	999	999
23	72	7	425	99	99	999	99	99	99	99	99	99	99	999	999
24	76	1	400	99	99	999	99	99	99	99	99	99	99	999	999
25	79	7	375	99	99	999	99	99	99	99	99	99	99	999	999
26	83	6	350	99	99	999	99	99	99	99	99	99	99	999	999
27	87	1	325	99	99	999	99	99	99	99	99	99	99	999	999
28	91	7	300	99	99	999	99	99	99	99	99	99	99	999	999
29	95	7	275	99	99	999	99	99	99	99	99	99	99	999	999
30	99	0	250	99	99	999	99	99	99	99	99	99	99	999	999
31	103	6	225	99	99	999	99	99	99	99	99	99	99	999	999
32	107	6	200	99	99	999	99	99	99	99	99	99	99	999	999
33	111	6	175	99	99	999	99	99	99	99	99	99	99	999	999
34	115	7	150	99	99	999	99	99	99	99	99	99	99	999	999
35	119	7	125	99	99	999	99	99	99	99	99	99	99	999	999
36	123	2	100	99	99	999	99	99	99	99	99	99	99	999	999
37	127	3	75	99	99	999	99	99	99	99	99	99	99	999	999
38	131	3	50	99	99	999	99	99	99	99	99	99	99	999	999
39	135	0	25	99	99	999	99	99	99	99	99	99	99	999	999
40	139	0	0	99	99	999	99	99	99	99	99	99	99	999	999

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO. 10  
 MENARD, TEXAS  
 6 FEBRUARY 1962  
 6 1714 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/MG	RH PCT	RANGE NM	AZ DG
00	9	588.3	967.2	-5.5	-12.0	315.0	3.5	2.5	-2.5	270.2	274.4	1.6	60.0	0.0	0
01	9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999
02	9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999
03	9	727.9	950.0	-9.0	-15.5	999.0	99.9	99.9	99.9	268.0	271.2	1.2	59.3	99.9	999
04	1	933.5	925.0	-11.0	-16.7	999.0	99.9	99.9	99.9	268.0	271.2	1.1	63.0	99.9	999
05	1	1143.2	900.0	-12.0	-19.0	999.0	7.6	-0.2	-7.6	268.2	270.8	0.9	60.1	99.9	999
06	1	1358.0	875.0	-18.0	-18.9	5.5	6.7	-0.8	-6.8	274.2	277.4	2.3	48.2	1.4	179
07	1	1558.0	850.0	-3.8	-8.8	5.5	8.0	-1.2	-7.9	282.2	288.5	2.3	68.3	1.8	181
08	1	1823.2	825.0	7.1	-6.6	337.0	5.5	2.1	-7.9	289.1	298.6	2.6	58.0	2.2	192
09	1	2078.1	800.0	7.1	-9.7	305.1	5.4	4.5	-3.1	298.6	305.5	2.3	29.3	2.3	176
10	1	2335.1	775.0	6.7	-12.1	317.2	5.4	3.7	-4.0	301.1	308.9	1.9	24.5	2.5	172
11	1	2603.2	750.0	4.5	-10.6	290.1	6.9	6.5	-2.4	301.4	308.2	2.3	32.5	2.8	167
12	1	2878.6	725.0	3.3	-13.4	266.1	10.0	9.9	0.7	303.1	308.7	1.9	28.0	3.0	158
13	1	3162.8	700.0	3.0	-14.6	254.5	13.7	13.2	3.7	305.9	313.2	1.8	25.9	3.2	144
14	1	3456.8	675.0	1.6	-13.9	252.5	16.6	16.6	5.2	307.5	313.4	1.9	30.6	3.6	129
15	1	3758.9	650.0	-0.4	-11.2	252.9	18.9	18.1	5.6	308.5	316.0	2.5	43.8	4.5	115
16	1	4072.3	625.0	-3.2	-9.2	252.2	19.5	18.6	6.0	308.7	317.9	3.1	63.5	5.6	105
17	1	4394.0	600.0	-6.3	-8.5	252.3	23.3	22.2	7.1	308.8	318.7	3.3	64.2	6.8	99
18	1	4725.7	575.0	-9.1	-10.2	250.5	24.4	23.0	8.2	309.3	318.5	3.1	91.4	8.0	93
19	1	5068.4	550.0	-11.3	-17.6	253.4	22.1	21.2	6.3	310.6	316.1	1.8	60.4	10.2	89
20	1	5424.3	525.0	-13.7	-20.6	262.0	25.4	25.2	3.2	312.0	316.5	1.4	55.6	12.0	88
21	1	5794.3	500.0	-15.9	-24.5	267.0	29.0	28.0	4.6	314.3	317.8	1.3	45.4	14.2	87
22	1	6182.4	475.0	-17.9	-22.9	261.4	30.8	30.5	4.6	315.8	319.9	1.3	65.2	16.5	87
23	1	6582.4	450.0	-20.4	-27.6	253.7	32.5	30.9	8.1	317.8	321.5	0.9	68.9	18.4	86
24	1	7003.6	425.0	-23.4	-27.6	253.7	31.2	31.2	9.1	319.0	322.0	0.8	68.2	22.5	84
25	1	7443.6	400.0	-30.4	-29.8	247.3	33.7	31.7	11.3	319.9	322.6	0.8	77.0	25.8	83
26	1	7808.1	375.0	-37.0	-35.4	247.7	33.3	31.7	13.0	319.9	322.6	0.8	61.5	29.2	81
27	1	8394.2	350.0	-32.6	-42.1	244.7	37.3	33.7	16.0	324.6	325.6	0.5	38.5	32.9	79
28	1	8912.8	325.0	-42.1	-45.8	242.5	46.3	41.1	21.3	326.8	327.5	0.2	38.3	37.7	77
29	1	9403.2	300.0	-40.3	-45.8	242.7	47.7	42.4	21.8	328.5	327.5	99.9	99.9	43.5	75
30	1	10053.2	275.0	-43.6	-48.2	241.0	48.2	42.2	21.8	328.5	327.5	99.9	99.9	50.0	74
31	1	10688.9	250.0	-47.1	-49.9	236.6	50.5	42.2	23.3	332.1	327.5	99.9	99.9	57.0	72
32	1	11378.7	225.0	-52.4	-49.9	238.1	49.4	41.9	23.6	332.1	327.5	99.9	99.9	63.9	70
33	1	12132.4	200.0	-56.2	-49.9	238.4	48.8	41.5	26.1	338.2	327.5	99.9	99.9	72.9	69
34	1	12980.2	175.0	-58.4	-49.9	245.5	48.3	42.0	25.0	343.9	327.5	99.9	99.9	81.0	68
35	1	13848.3	150.0	-62.1	-49.9	247.2	44.5	41.0	19.2	356.8	327.5	99.9	99.9	90.9	68
36	1	15067.2	125.0	-65.3	-49.9	250.2	36.1	35.0	17.2	363.1	327.5	99.9	99.9	102.0	68
37	1	16409.0	100.0	-69.4	-49.9	257.4	30.7	29.9	6.7	378.8	327.5	99.9	99.9	111.0	69
38	1	18118.0	75.0	-71.5	-49.9	258.1	32.7	32.0	6.8	393.7	327.5	99.9	99.9	122.0	70
39	1	20508.4	50.0	-63.4	-49.9	270.5	31.8	31.8	-0.3	494.1	327.5	99.9	99.9	138.0	71
40	1	24818.8	25.0	-54.1	-49.9	173.2	15.4	-1.8	15.3	629.4	327.5	99.9	99.9	146.1	72

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL  
OF POOR

STATION NO. 10  
MENARD, TEXAS  
6 FEBRUARY 1982  
2318 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0 0	10 3	588 3	863 1	-2 0	-11 5	999 9	99 5	99 9	99 9	274 1	278 5	1 6	48 0	999 9	999
0 9	99 9	99 9	1000 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
0 9	99 9	99 9	975 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
1 0	11 5	99 9	950 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
1 6	13 9	99 9	925 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
2 5	16 2	99 9	900 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
3 5	18 6	99 9	875 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
4 5	21 0	99 9	850 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
5 5	23 5	99 9	825 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
6 5	25 9	99 9	800 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
7 5	28 5	99 9	775 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
8 5	31 0	99 9	750 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
9 6	33 6	99 9	725 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
10 6	36 2	99 9	700 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
11 7	38 9	99 9	675 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
12 8	41 6	99 9	650 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
13 9	44 3	99 9	625 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
15 1	47 1	99 9	600 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
16 2	50 0	99 9	575 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
17 4	52 9	99 9	550 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
18 6	55 8	99 9	525 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
19 8	58 6	99 9	500 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
21 1	62 0	99 9	475 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
22 4	65 1	99 9	450 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
23 7	68 5	99 9	425 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
25 1	71 9	99 9	400 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
26 5	75 3	99 9	375 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
27 9	78 9	99 9	350 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
29 9	82 7	99 9	325 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
31 8	86 7	99 9	300 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
34 0	90 7	99 9	275 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
36 4	95 2	99 9	250 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
39 0	99 8	99 9	225 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
41 6	104 0	99 9	200 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
44 7	110 0	99 9	175 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
48 1	116 0	99 9	150 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
51 9	122 5	99 9	125 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
56 3	128 7	99 9	100 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
61 9	136 3	99 9	75 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
69 9	99 9	99 9	50 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999
99 9	99 9	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO 11  
 BURNET, TEXAS  
 6 FEBRUARY 1982  
 1712 GMT

TIME MIN	CNTCY	HEIGHT GPN	PRES MB	TEMP C	DEW PT C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTG GM/RG	RH PCT	RANGE NM	AZ DG
00	0														
00	7	386	990	-4	-11	999	99	99	99	269	273	1	55	999	999
00	8	509	1000	99	99	999	99	99	99	999	999	99	999	999	999
01	8	509	875	-8	-15	999	99	99	99	265	270	1	999	999	999
01	10	9	850	-10	-15	999	99	99	99	267	270	1	57	999	999
02	13	2	915	-11	99	999	99	99	99	267	270	1	999	999	999
03	15	6	900	-10	99	999	99	99	99	271	273	99	999	999	999
03	18	4	875	-5	99	999	99	99	99	278	282	99	999	999	999
04	20	4	850	0	99	999	99	99	99	286	290	99	999	999	999
05	22	6	825	3	-6	999	99	99	99	292	296	2	35	999	999
05	25	3	800	5	-8	999	99	99	99	301	305	1	24	999	999
06	27	8	775	6	-12	999	99	99	99	303	308	1	24	999	999
07	30	4	750	6	-12	999	99	99	99	305	310	1	22	999	999
08	32	6	725	5	-14	999	99	99	99	305	311	5	23	999	999
09	35	6	700	3	-15	999	99	99	99	307	312	6	20	999	999
10	38	2	675	1	-14	999	99	99	99	307	312	6	16	999	999
11	40	9	650	0	-10	999	99	99	99	308	312	7	16	999	999
12	43	7	625	-2	-10	999	99	99	99	309	315	1	28	999	999
14	48	4	600	-5	-15	999	99	99	99	310	316	1	42	999	999
15	49	3	575	-8	-14	999	99	99	99	311	318	2	59	999	999
17	52	2	550	-11	-13	999	99	99	99	311	318	6	81	999	999
18	55	2	525	-12	-13	999	99	99	99	313	320	0	48	999	999
19	58	3	500	-14	-20	999	99	99	99	315	320	0	64	999	999
21	01	3	475	-16	-21	999	99	99	99	315	322	1	58	999	999
22	04	6	450	-20	-23	999	99	99	99	318	322	3	74	999	999
23	08	7	425	-23	-23	999	99	99	99	319	322	3	69	999	999
25	11	1	400	-26	-26	999	99	99	99	320	323	0	53	999	999
27	14	6	375	-27	-34	999	99	99	99	325	323	0	52	999	999
28	17	3	350	-30	-37	999	99	99	99	327	328	1	49	999	999
30	20	4	325	-34	-41	999	99	99	99	328	330	0	49	999	999
32	22	8	300	-39	-44	999	99	99	99	329	330	8	99	999	999
34	24	1	275	-44	-47	999	99	99	99	335	335	9	99	999	999
36	26	2	250	-47	-47	999	99	99	99	335	335	9	99	999	999
38	28	3	225	-52	-52	999	99	99	99	338	338	4	99	999	999
40	30	5	200	-54	-54	999	99	99	99	347	347	0	99	999	999
41	104	0	175	-55	-55	999	99	99	99	357	357	0	99	999	999
43	109	3	150	-62	-62	999	99	99	99	370	370	0	99	999	999
46	115	2	125	-65	-65	999	99	99	99	370	370	0	99	999	999
48	121	7	100	-71	-71	999	99	99	99	369	369	6	99	999	999
54	128	3	75	-71	-71	999	99	99	99	424	424	3	99	999	999
58	138	3	50	-63	-63	999	99	99	99	494	494	3	99	999	999
66	148	5	25	-54	-54	999	99	99	99	628	628	1	99	999	999
77	160	0	25	-54	-54	999	99	99	99						

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS



STATION NO 12  
 COLLEGE STATION, TEXAS  
 6 FEBRUARY 1982  
 1401 GMT

TIME MIN	CNCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SP. D M/S C	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0 0	4 7	78 0	1028 1	-5 3	-13 6	380 0	7 5	0 0	-7 5	265 9	259 3	1 3	52 0	0 0	0
0 0	7 1	280 0	1000 0	-8 0	-13 0	999 0	99 9	99 9	99 9	265 2	268 8	1 4	67 0	999 9	999
1 4	0 3	478 0	975 0	-8 0	-12 5	999 0	99 9	99 9	99 9	265 2	268 8	1 5	67 0	999 9	999
2 8	11 7	876 1	950 0	-11 5	-13 1	353 5	6 5	1 0	-8 5	265 6	272 9	1 0	87 6	1 1	108
3 0	13 9	881 1	925 0	-8 9	-18 2	7 8	6 9	-0 9	-6 9	270 2	272 9	2 2	87 4	1 1	173
3 6	16 5	1085 9	800 0	-4 1	-19 4	345 0	6 5	1 7	-6 3	277 3	283 2	2 8	89 4	1 1	175
4 3	18 8	1319 6	875 0	-0 9	-2 0	299 5	6 8	7 7	-4 3	282 9	292 9	3 8	90 0	2 2	157
5 1	21 3	1553 1	850 0	3 0	1 6	282 8	13 6	13 5	1 9	289 3	302 8	5 1	89 0	2 2	138
5 9	23 7	1787 6	825 0	7 3	5 7	281 9	12 0	13 4	1 9	298 4	315 4	7 0	89 6	2 4	138
7 0	26 2	2051 0	800 0	6 5	4 9	246 2	21 0	19 2	6 4	298 1	316 8	8 8	89 3	3 0	124
8 2	31 2	2579 2	775 0	6 4	-19 9	244 1	15 4	13 6	6 7	300 7	303 8	1 0	13 1	3 6	104
10 4	33 7	2855 7	725 0	5 2	-20 5	252 4	10 5	10 0	3 2	302 2	305 3	1 0	13 5	4 4	98
11 9	38 3	3149 8	700 0	4 9	-21 5	252 4	12 8	12 2	3 9	304 8	307 8	0 9	12 7	5 2	94
13 3	38 9	3434 0	675 0	3 3	-23 3	255 5	14 1	13 6	3 5	306 2	308 9	0 8	12 0	6 4	90
13 9	41 6	3727 4	650 0	1 8	-22 7	260 7	15 4	15 2	2 5	307 7	310 6	0 9	14 1	7 6	88
16 5	44 1	4048 8	625 0	-0 7	-23 3	263 2	17 2	17 2	2 1	308 2	311 1	0 9	16 1	9 1	87
18 2	47 1	4379 1	600 0	-3 5	-20 5	264 5	17 6	17 6	1 7	308 5	312 3	1 2	25 3	10 8	87
19 6	50 6	4703 0	575 0	-7 1	-14 0	258 4	20 0	19 7	3 7	309 8	316 4	2 2	51 1	12 7	86
21 3	52 8	5047 6	550 0	-7 1	-23 1	258 8	20 8	20 2	4 7	311 7	315 0	1 0	28 5	14 6	85
22 9	55 8	5498 2	525 0	-10 0	-27 5	259 9	23 0	22 8	4 0	312 2	314 6	0 7	22 2	16 0	84
24 7	58 8	5778 7	500 0	-13 1	-24 4	262 6	24 5	24 3	3 2	312 7	316 0	1 0	38 0	18 9	84
26 5	61 8	6161 6	475 0	-17 2	-23 8	252 5	26 2	26 0	3 0	315 1	318 8	1 1	40 7	21 7	84
28 2	64 9	6588 2	450 0	-18 4	-23 8	248 0	29 2	28 7	8 0	316 7	321 3	1 1	67 5	24 4	83
29 9	68 1	6988 1	428 0	-22 7	-24 7	248 1	32 4	30 0	11 9	318 9	323 0	1 2	83 1	27 3	82
31 7	71 4	7433 3	400 0	-23 5	-28 5	251 0	33 4	32 9	12 1	320 5	327 6	0 9	93 4	30 1	80
33 7	74 6	7892 8	375 0	-26 4	-32 0	250 8	33 4	31 5	11 0	326 7	329 1	0 7	59 0	38 1	78
35 8	78 3	8398 1	350 0	-30 0	-35 2	247 6	33 9	32 3	13 2	328 4	330 3	0 5	59 7	42 0	77
38 1	82 8	8921 3	325 0	-34 4	-38 8	244 5	32 9	29 7	14 2	328 4	330 3	0 4	64 3	46 9	76
40 4	85 8	9476 5	300 0	-38 4	-44 8	243 7	32 9	29 7	16 7	331 2	332 1	0 2	50 7	51 7	75
43 0	88 6	10089 1	275 0	-47 7	-48 8	243 8	34 7	33 7	20 0	334 2	339 3	99 9	99 9	56 7	74
45 8	91 7	10788 3	250 0	-51 3	-50 8	233 9	48 1	38 7	28 9	339 9	344 2	99 9	99 9	54 6	71
48 6	94 7	11388 3	225 0	-51 3	-50 8	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
50 9	96 9	99 9	200 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
52 9	99 9	99 9	175 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
54 9	99 9	99 9	150 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
56 9	99 9	99 9	125 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
58 9	99 9	99 9	100 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
60 9	99 9	99 9	75 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
62 9	99 9	99 9	50 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
64 9	99 9	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL  
 OF P...



OF PC...

STATION NO 12  
 COLLEGE STATION, TEXAS  
 6 FEBRUARY 1982  
 1701 GMT

TIME MIN	CNTCT	WEIGHT G/M	PRES MB	TEMP DG C	DEW PT DG C	DIP D.	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
00	4	78.0	1028.1	-3.2	-10.3	999.9	99.9	99.9	99.9	287.8	272.2	1.7	58.0	999.9	999.9
01	7	289.5	1000.6	-10.6	-13.3	999.9	99.9	99.9	99.9	284.1	267.7	1.4	71.3	999.9	999.9
02	9	486.9	975.0	-12.8	-16.6	999.9	99.9	99.9	99.9	284.2	267.8	1.4	82.5	999.9	999.9
03	11	800.0	950.0	-12.8	-16.6	999.9	99.9	99.9	99.9	270.5	272.9	0.9	42.1	999.9	999.9
04	13	892.9	925.0	-6.4	-11.9	999.9	99.9	99.9	99.9	274.9	279.6	1.8	67.2	999.9	999.9
05	18	1107.8	900.0	-1.2	-1.3	999.9	99.9	99.9	99.9	282.5	293.2	4.0	99.2	999.9	999.9
06	21	1329.4	875.0	4.6	4.3	999.9	99.9	99.9	99.9	291.0	307.4	6.1	97.6	999.9	999.9
07	23	1584.3	850.0	5.7	5.7	999.9	99.9	99.9	99.9	294.7	313.5	7.0	99.9	999.9	999.9
08	25	1809.0	825.0	4.9	4.9	999.9	99.9	99.9	99.9	296.4	314.9	6.8	99.4	999.9	999.9
09	28	2061.1	800.0	4.0	4.4	999.9	99.9	99.9	99.9	298.4	319.9	4.2	64.6	999.9	999.9
10	32	2318.8	775.0	4.5	2.1	999.9	99.9	99.9	99.9	301.5	303.0	0.5	6.5	999.9	999.9
11	35	2588.7	750.0	3.1	-20.2	999.9	99.9	99.9	99.9	302.8	304.2	0.4	6.5	999.9	999.9
12	37	2881.0	725.0	2.7	-25.4	999.9	99.9	99.9	99.9	305.5	307.8	0.7	10.5	999.9	999.9
13	38	3148.8	700.0	2.0	-22.0	999.9	99.9	99.9	99.9	308.6	309.9	1.0	15.8	999.9	999.9
14	39	3438.6	675.0	1.7	-18.4	999.9	99.9	99.9	99.9	307.0	311.3	1.4	20.5	999.9	999.9
15	41	3740.9	650.0	-1.7	-16.4	999.9	99.9	99.9	99.9	307.6	311.0	2.1	27.6	999.9	999.9
16	44	4051.7	625.0	-4.2	-13.6	999.9	99.9	99.9	99.9	308.2	315.9	2.5	40.9	999.9	999.9
17	47	4371.8	600.0	-6.9	-12.0	999.9	99.9	99.9	99.9	308.3	314.0	1.4	47.6	999.9	999.9
18	50	4702.1	575.0	-9.1	-10.1	999.9	99.9	99.9	99.9	309.3	315.4	1.5	49.7	999.9	999.9
19	53	5045.1	550.0	-11.2	-19.6	999.9	99.9	99.9	99.9	310.8	313.6	1.4	40.7	999.9	999.9
20	56	5409.8	525.0	-12.9	-24.2	999.9	99.9	99.9	99.9	312.9	318.2	1.0	37.6	999.9	999.9
21	58	5771.5	500.0	-15.1	-22.6	999.9	99.9	99.9	99.9	314.6	318.5	1.2	51.4	999.9	999.9
22	61	6158.8	475.0	-18.5	-19.9	999.9	99.9	99.9	99.9	315.0	320.3	1.6	88.6	999.9	999.9
23	65	6558.3	450.0	-20.2	-21.6	999.9	99.9	99.9	99.9	316.9	321.8	1.5	94.6	999.9	999.9
24	68	6978.0	425.0	-24.4	-25.4	999.9	99.9	99.9	99.9	318.0	321.7	1.1	89.7	999.9	999.9
25	72	7418.7	400.0	-28.8	-31.6	999.9	99.9	99.9	99.9	323.1	325.4	0.7	51.9	999.9	999.9
26	75	7888.0	375.0	-31.4	-34.6	999.9	99.9	99.9	99.9	328.0	327.9	0.5	48.0	999.9	999.9
27	78	8381.0	350.0	-35.4	-42.7	999.9	99.9	99.9	99.9	327.8	327.7	0.4	48.0	999.9	999.9
28	82	8901.0	325.0	-40.2	-42.7	999.9	99.9	99.9	99.9	327.8	328.8	0.3	47.1	999.9	999.9
29	86	9452.2	300.0	-43.4	-49.9	999.9	99.9	99.9	99.9	327.8	328.8	0.3	47.1	999.9	999.9
30	91	10077.2	275.0	-48.8	-59.9	999.9	99.9	99.9	99.9	327.8	328.8	0.3	47.1	999.9	999.9
31	95	10802.2	250.0	-52.2	-69.9	999.9	99.9	99.9	99.9	327.8	328.8	0.3	47.1	999.9	999.9
32	100	11302.9	225.0	-55.4	-79.9	999.9	99.9	99.9	99.9	327.8	328.8	0.3	47.1	999.9	999.9
33	105	12118.1	200.0	-55.4	-89.9	999.9	99.9	99.9	99.9	327.8	328.8	0.3	47.1	999.9	999.9
34	109	99.0	175.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
35	99.9	99.0	150.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
36	99.9	99.0	125.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
37	99.9	99.0	100.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
38	99.9	99.0	75.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
39	99.9	99.0	50.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
40	99.9	99.0	25.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
41	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
42	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
43	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
44	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
45	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
46	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
47	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
48	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
49	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9
50	99.9	99.0	99.0	99.9	99.9	999.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9

\* BY SPEED MEANS ELEVATION ANGLE BE MEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL OF RECORD

STATION NO. 12  
 COLLEGE STATION, TEXAS  
 6 FEBRUARY 1982  
 2338 GMT

107 164 0

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT Y DG K	MK RTO GM/KG	RH PCT	RANGE KM	AZ DG
0 0	4 4	79 0	1023.7	0 0	-6 8	999 9	99 9	99 9	99 9	271 3	277 1	2 2	60 0	999 9	999 9
0 6	6 5	99 0	1000 0	0 0	-6 8	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
1 3	6 7	99 0	975 0	99 0	99 0	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
2 0	11 0	99 0	950 0	99 0	99 0	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
2 7	13 3	99 0	925 0	-6 6	-13 5	999 9	99 9	99 9	99 9	272 6	283 5	99 9	999 9	999 9	999 9
3 4	15 6	99 0	900 0	-2 1	-12 4	999 9	99 9	99 9	99 9	276 3	283 5	1 5	41 5	999 9	999 9
4 2	17 9	99 0	875 0	1 0	-12 4	999 9	99 9	99 9	99 9	285 0	290 6	1 7	32 7	999 9	999 9
4 8	20 4	99 0	850 0	4 3	-7 6	999 9	99 9	99 9	99 9	290 7	290 6	2 6	41 5	999 9	999 9
5 9	22 7	99 0	825 0	5 9	-6 7	999 9	99 9	99 9	99 9	295 0	301 9	2 4	33 9	999 9	999 9
6 5	25 1	99 0	800 0	7 5	-1 3	999 9	99 9	99 9	99 9	307 1	309 3	4 4	61 1	999 9	999 9
7 4	27 6	99 0	775 0	7 5	-4 1	999 9	99 9	99 9	99 9	307 1	313 2	4 0	46 6	999 9	999 9
8 4	30 1	99 0	750 0	6 1	-11 7	999 9	99 9	99 9	99 9	305 4	312 5	2 3	26 0	999 9	999 9
9 4	32 5	99 0	725 0	7 3	-11 7	999 9	99 9	99 9	99 9	307 5	314 0	2 1	24 3	999 9	999 9
10 3	35 1	99 0	700 0	5 6	-8 7	999 9	99 9	99 9	99 9	308 7	317 2	2 8	34 9	999 9	999 9
11 5	37 7	99 0	675 0	3 6	-6 4	999 9	99 9	99 9	99 9	309 7	318 2	2 8	38 1	999 9	999 9
12 5	40 4	99 0	650 0	1 2	-9 1	999 9	99 9	99 9	99 9	310 3	319 3	3 0	46 7	999 9	999 9
13 6	43 0	99 0	625 0	-0 9	-9 9	999 9	99 9	99 9	99 9	311 4	320 2	2 9	50 6	999 9	999 9
14 7	45 6	99 0	600 0	-4 2	-10 2	999 9	99 9	99 9	99 9	311 3	320 2	2 9	62 8	999 9	999 9
15 8	48 2	99 0	575 0	-6 9	-10 0	999 9	99 9	99 9	99 9	311 9	321 7	3 1	79 1	999 9	999 9
17 0	51 4	99 0	550 0	-8 6	-13 2	999 9	99 9	99 9	99 9	313 9	322 2	2 5	69 3	999 9	999 9
18 3	54 4	99 0	525 0	-11 5	-14 0	999 9	99 9	99 9	99 9	314 8	322 7	2 5	81 6	999 9	999 9
19 5	57 3	99 0	500 0	-13 7	-15 2	999 9	99 9	99 9	99 9	316 3	323 7	2 3	88 8	999 9	999 9
20 9	60 4	99 0	475 0	-16 2	-17 7	999 9	99 9	99 9	99 9	318 0	324 3	2 0	88 1	999 9	999 9
22 1	63 5	99 0	450 0	-19 4	-21 2	999 9	99 9	99 9	99 9	318 8	323 9	1 6	85 8	999 9	999 9
23 7	66 7	99 0	425 0	-22 3	-24 2	999 9	99 9	99 9	99 9	320 4	324 6	1 3	84 3	999 9	999 9
25 6	70 0	99 0	400 0	-25 6	-28 0	999 9	99 9	99 9	99 9	321 8	324 5	0 8	66 5	999 9	999 9
27 9	73 4	99 0	375 0	-27 7	-35 0	999 9	99 9	99 9	99 9	324 9	324 5	0 5	49 5	999 9	999 9
29 3	77 0	99 0	350 0	-30 9	-39 3	999 9	99 9	99 9	99 9	327 2	328 4	0 2	42 7	999 9	999 9
31 2	80 7	99 0	325 0	-34 8	-43 8	999 9	99 9	99 9	99 9	328 7	328 6	0 2	39 8	999 9	999 9
33 1	84 6	99 0	300 0	-38 9	-48 9	999 9	99 9	99 9	99 9	328 6	328 6	99 9	999 9	999 9	999 9
35 1	88 5	99 0	275 0	-43 7	-53 9	999 9	99 9	99 9	99 9	332 0	328 6	99 9	999 9	999 9	999 9
37 4	92 8	99 0	250 0	-47 5	-59 9	999 9	99 9	99 9	99 9	335 5	328 6	99 9	999 9	999 9	999 9
39 8	97 4	99 0	225 0	-51 4	-66 9	999 9	99 9	99 9	99 9	339 8	328 6	99 9	999 9	999 9	999 9
42 5	102 3	99 0	200 0	-53 7	-73 9	999 9	99 9	99 9	99 9	347 8	328 6	99 9	999 9	999 9	999 9
45 2	107 6	99 0	175 0	-55 5	-81 9	999 9	99 9	99 9	99 9	358 3	328 6	99 9	999 9	999 9	999 9
49 9	99 9	99 0	150 0	-59 8	-90 9	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
53 9	99 9	99 0	125 0	-66 9	-99 9	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
58 9	99 9	99 0	100 0	-75 9	-109 9	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
63 9	99 9	99 0	75 0	-86 9	-120 9	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
69 9	99 9	99 0	50 0	-99 9	-134 9	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9
76 9	99 9	99 0	25 0	-119 9	-154 9	999 9	99 9	99 9	99 9	99 9	999 9	99 9	999 9	999 9	999 9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 100  
FT HOOD, TEXAS  
6 FEBRUARY 1982  
6 1118 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES INB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ
0 0	7 2	269 0	997 7	-7 6	-12 6	360 0	3 0	0 0	-3 0	265 7	269 5	1 4	67 0	0 0	0
0 9	99 9	99 9	1000 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9
0 7	6 4	466 7	975 0	-11 0	-15 6	344 6	14 8	3 9	-14 2	264 0	267 0	1 2	68 9	0 6	168
1 3	11 6	665 6	950 0	-12 4	-15 6	350 2	12 6	2 1	-12 4	264 0	267 7	1 2	76 5	1 2	165
2 3	14 3	868 4	925 0	-16 6	-16 6	323 3	8 6	-0 5	-8 6	266 9	268 9	0 9	60 0	1 7	109
3 1	16 6	1060 5	900 0	-7 0	-11 3	328 9	5 9	3 0	-5 0	274 3	279 2	1 9	60 0	2 1	171
3 9	19 3	1301 5	875 0	-4 8	-4 8	294 9	7 1	6 4	-3 0	278 9	286 9	3 1	105 3	2 3	166
4 7	21 9	1530 0	850 0	-4 5	-4 5	296 0	7 0	6 3	-3 1	281 4	289 9	3 2	105 1	2 6	160
5 5	24 4	1769 4	825 0	3 3	-2 8	252 3	7 4	7 0	2 2	292 1	302 6	3 8	67 0	2 7	154
6 5	26 9	2021 1	800 0	6 7	-7 0	254 0	10 4	10 0	2 9	298 3	306 4	2 8	37 0	2 7	144
7 4	29 6	2282 5	775 0	7 6	-6 9	261 7	12 2	12 5	1 8	302 0	310 5	2 9	34 8	3 6	133
8 3	32 2	2552 2	725 0	6 6	-6 2	258 6	12 7	12 5	2 5	303 7	313 2	2 7	33 7	3 6	124
9 3	34 9	2829 7	700 0	5 2	-6 9	254 8	14 4	13 9	3 8	305 2	313 2	2 7	35 3	4 1	116
10 3	37 7	3115 6	675 0	4 2	-9 2	257 1	17 3	16 9	3 9	307 1	315 2	2 7	36 9	4 9	109
11 4	40 4	3410 5	650 0	1 8	-10 4	261 4	18 4	18 2	2 8	307 6	315 3	2 6	39 6	5 9	103
12 5	43 3	3713 3	625 0	-1 2	-10 8	265 9	20 5	20 4	1 5	307 6	315 3	2 6	47 8	7 1	100
13 7	46 2	4025 0	600 0	-3 6	-11 2	264 1	22 0	21 9	2 2	308 3	316 0	2 3	55 3	8 7	97
14 7	48 1	4346 2	575 0	-6 5	-13 3	999 9	99 9	99 9	99 9	308 0	316 0	2 3	57 0	99 9	999
15 6	52 2	4678 2	550 0	-8 5	-16 8	999 9	99 9	99 9	99 9	310 1	315 6	1 8	50 8	99 9	999
16 6	56 8	500 0	525 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
17 6	60 9	599 9	500 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
18 6	65 9	699 9	475 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
19 6	70 9	799 9	450 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
20 6	75 9	899 9	425 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
21 6	80 9	999 9	400 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
22 6	85 9	99 9	375 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
23 6	90 9	99 9	350 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
24 6	95 9	99 9	325 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
25 6	99 9	99 9	300 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
26 6	99 9	99 9	275 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
27 6	99 9	99 9	250 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
28 6	99 9	99 9	225 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
29 6	99 9	99 9	200 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
30 6	99 9	99 9	175 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
31 6	99 9	99 9	150 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
32 6	99 9	99 9	125 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
33 6	99 9	99 9	100 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
34 6	99 9	99 9	75 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
35 6	99 9	99 9	50 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999
36 6	99 9	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

OF POOR QUALITY

STATION NO. 100  
FT. HOOD, TEXAS  
6 FEBRUARY 1982  
1718 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POI T DG K	E POT T DG K	MK RTO GM/KG	RH PCT	RANGE KM	AZ DG
00	7.0	289.0	1000.4	-3.7	-18.2	350.0	6.2	1.1	-6.1	289.4	272.3	1.1	37.0	0.0	0
00	7.0	282.2	1000.0	-3.6	-18.2	349.8	6.3	1.1	-6.2	289.4	272.3	1.1	37.4	0.0	0
00	9.3	490.2	975.0	-8.0	-16.2	346.0	6.0	1.9	-6.2	289.4	272.3	1.1	51.5	0.4	175
01	11.6	691.6	950.0	-9.3	-16.5	349.3	6.4	1.2	-6.3	287.7	270.7	1.1	55.6	0.7	171
01	14.0	898.8	925.0	-10.6	-16.8	358.4	8.4	0.2	-8.4	287.4	270.3	0.8	65.3	0.9	172
02	16.5	1107.0	900.0	-10.6	-20.3	2.9	9.1	-0.5	-9.1	270.6	272.9	0.8	44.8	1.4	175
03	18.9	1328.4	875.0	-10.9	-19.9	360.0	5.8	0.0	-5.8	280.4	285.6	1.9	55.6	1.7	177
04	21.4	1557.4	850.0	-0.6	-19.3	311.7	3.2	0.0	-3.2	285.6	291.7	2.2	51.7	1.9	177
05	23.9	1797.9	825.0	5.0	-5.4	281.0	5.0	3.7	-3.3	293.9	302.6	3.1	47.0	2.2	168
06	26.4	2050.6	800.0	7.3	-6.4	253.7	10.9	10.7	-2.1	298.9	307.4	3.0	37.1	2.2	168
07	29.0	2312.3	775.0	6.5	-9.9	247.2	11.9	11.4	3.3	304.3	309.8	2.3	26.1	2.5	152
08	31.6	2582.8	750.0	7.1	-11.4	251.2	12.7	12.0	4.1	304.8	311.1	2.1	25.3	2.5	139
09	34.3	2850.4	725.0	4.9	-12.0	251.2	13.3	12.6	4.3	306.2	312.0	1.9	27.6	2.8	126
10	37.1	3145.5	700.0	3.3	-13.6	250.3	15.0	14.1	5.1	307.3	313.0	1.9	29.4	3.2	117
10	39.7	3438.2	675.0	1.5	-14.4	250.3	15.0	14.1	5.1	307.3	313.0	1.9	29.4	3.2	109
10	42.4	3722.4	650.0	-0.0	-12.6	250.4	18.2	17.1	6.1	308.9	315.9	2.3	38.9	4.6	101
11	45.3	4025.8	625.0	-1.9	-10.3	250.0	21.4	20.1	7.3	310.3	318.4	3.0	50.6	5.5	95
11	48.2	4378.3	600.0	-4.3	-10.0	251.3	24.7	23.4	7.9	311.1	320.1	3.0	64.7	6.8	90
12	51.2	4713.4	575.0	-6.8	-10.1	252.3	28.4	24.4	7.8	312.0	321.3	3.1	77.5	8.4	87
13	54.2	5098.7	550.0	-9.9	-11.9	255.3	26.4	25.6	6.7	314.8	320.0	2.8	85.4	10.1	84
14	57.3	5417.2	525.0	-11.3	-18.9	260.5	26.3	26.0	4.4	316.8	320.5	1.6	53.1	11.9	84
15	60.4	5789.9	500.0	-13.8	-21.9	262.7	23.8	23.6	3.0	318.3	320.5	1.3	50.2	13.5	83
16	63.7	6178.6	475.0	-15.3	-20.2	255.2	29.8	28.8	7.6	319.1	324.3	1.6	65.6	15.6	83
17	67.0	6585.2	450.0	-18.0	-22.5	247.0	27.4	28.8	10.7	320.6	325.1	1.4	86.1	17.9	81
18	70.4	7008.0	425.0	-22.0	-23.5	999.9	99.9	99.9	99.9	320.6	325.2	1.3	87.3	99.9	99.9
19	74.0	7452.4	400.0	-25.4	-26.3	999.9	99.9	99.9	99.9	322.0	325.7	1.1	92.3	99.9	99.9
20	77.0	7909.9	375.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
21	80.0	8375.0	350.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
22	83.0	8888.0	325.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
23	86.0	9417.0	300.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
24	89.0	9950.0	275.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
25	92.0	10487.0	250.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
26	95.0	11038.0	225.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
27	98.0	11593.0	200.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
28	101.0	12152.0	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
29	104.0	12715.0	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
30	107.0	13282.0	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
31	110.0	13853.0	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
32	113.0	14428.0	75.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
33	116.0	15007.0	50.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
34	119.0	15590.0	25.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
35	122.0	16177.0	0.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO 100  
FT HOOD, TEXAS  
8 FEBRUARY 1982  
2305 GMT

TIME MIN	CRIC?	HEIGHT GPM	PRES INB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT I DG K	E POT Y DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0 0	0 0	289 0	986 2	0 0	-12 6	343 0	4 0	1 4	-3 6	273 5	277 4	1 5	38 0	0 0	0
00 0	00 0	99 9	1000 0	99 9	99 9	99 9	99 9	99 9	99 9	272 8	276 9	99 9	99 9	99 9	99 9
0 6	9 0	460 4	875 0	-2 3	-12 2	1 0	4 0	-0 1	-4 0	273 5	276 9	1 5	46 5	0 3	174
1 3	11 4	666 3	950 6	-3 7	-14 3	352 6	5 5	0 7	-5 4	272 8	277 6	1 5	50 0	0 5	175
2 0	13 9	875 7	925 0	-6 6	-15 6	29 4	4 8	0 2	-4 8	272 5	278 2	1 4	54 1	0 7	174
2 8	16 4	1068 2	900 0	-6 0	-15 6	29 4	7 2	-3 5	-6 3	273 3	276 2	1 3	54 3	1 0	178
3 7	18 9	1308 4	875 0	-4 6	-18 5	50 3	8 8	-6 8	-5 6	279 0	281 9	1 0	32 8	1 3	193
4 5	21 4	1538 0	850 0	-1 0	-10 7	34 7	6 9	-3 9	-5 7	285 1	290 7	2 0	48 1	1 7	201
5 4	24 0	1778 7	825 0	3 0	-6 1	24 1	4 5	-1 9	-4 1	291 7	299 9	2 9	51 2	2 0	202
6 3	26 7	2030 0	800 0	7 5	-7 0	346 2	4 7	1 1	-4 6	299 1	307 3	2 8	51 2	2 2	202
7 2	28 3	2281 3	775 0	6 7	-8 6	305 6	6 0	4 9	-3 5	301 1	308 6	2 8	34 9	2 3	194
8 1	32 0	2560 0	750 0	5 5	-9 4	296 6	5 2	4 7	-2 3	302 6	309 9	2 6	33 1	2 4	188
9 1	34 7	2837 5	725 0	5 8	-9 3	277 8	6 2	6 1	-1 1	305 6	313 6	2 5	32 6	2 5	181
10 1	37 4	3123 6	700 0	3 8	-10 8	254 9	15 9	15 4	4 2	308 6	313 0	2 4	33 0	2 5	163
11 2	40 2	3418 3	675 0	2 6	-17 8	252 8	17 8	17 0	5 3	308 6	320 4	3 2	45 2	2 7	137
12 3	43 0	3722 5	650 0	0 5	-6 3	259 0	18 9	18 6	2 5	310 6	321 6	3 8	60 2	3 4	110
13 3	45 9	4035 4	625 0	-1 6	-6 5	262 1	21 7	21 6	3 0	310 6	322 5	4 0	69 6	4 4	103
14 4	48 9	4359 9	600 0	-4 8	-8 2	262 1	21 9	21 7	4 6	311 7	320 5	3 1	82 0	5 9	94
15 6	51 9	4693 5	575 0	-7 5	-10 0	255 9	19 8	19 2	6 2	311 7	320 5	2 9	82 0	6 7	94
16 8	54 9	5038 1	550 0	-10 4	-11 5	254 0	22 6	21 7	4 8	311 7	320 5	2 9	82 0	7 2	99
18 2	58 0	5395 1	525 0	-12 4	-13 9	255 4	20 2	19 5	5 1	313 5	321 2	2 5	88 1	10 3	91
19 6	61 3	5766 8	500 0	-14 1	-14 9	257 0	21 9	21 4	4 9	315 8	323 3	2 4	94 2	12 0	89
21 0	64 5	6154 6	475 0	-16 8	-17 0	251 3	23 3	22 1	7 5	317 1	323 9	2 1	98 8	13 9	87
22 4	67 9	6558 3	450 0	-20 1	-20 1	246 6	23 5	21 0	9 3	318 0	325 2	1 7	101 9	15 8	85
23 9	71 3	6986 5	425 0	-22 3	-22 6	249 2	26 5	24 5	10 4	320 4	325 2	1 5	97 1	17 9	83
25 6	74 9	7422 7	400 0	-26 2	-29 2	249 9	28 4	26 5	10 1	320 9	325 2	0 8	75 8	20 5	81
27 4	78 0	7866 2	375 0	-29 8	-34 0	99 9	99 9	99 9	99 9	322 1	324 1	0 6	68 1	99 9	99 9
00 0	00 0	99 9	350 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	325 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	300 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	275 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	250 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	225 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	200 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	175 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	150 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	125 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	100 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	75 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	50 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
00 0	00 0	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN G AND 10 DEG  
 \* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

CRITICAL POINTS  
OF POOR QUALITY

STATION NO. 260  
STEPHENVILLE, TEXAS  
6 FEBRUARY 1962  
1715 GMT

TIME MIN	CRCTY	WEIGHT GPM	PRES INB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT Y DG K	MK RTO CM/KG	RH PCT	RAMSE MM	AZ DG
00	0	399	989.3	-6.6	-16.5	340.0	4.0	1.4	-3.8	287.4	270.2	1.1	45.0	0.0	0.0
01	98	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
04	5	512	975.0	-8.6	-17.7	347.7	6.4	1.4	-6.2	286.3	269.0	1.0	47.7	0.3	163.0
15	12	712	950.0	-10.7	-18.2	352.2	7.0	1.0	-6.9	285.3	268.9	1.0	53.9	0.6	188.0
23	3	917	925.0	-12.4	-20.3	32.1	8.2	-0.3	-6.2	280.7	268.9	0.8	51.4	1.0	189.0
33	17	917	900.0	-10.3	-27.7	32.8	7.4	-4.0	-6.2	270.9	272.2	0.8	22.4	1.4	178.0
42	18	1348	875.0	-5.3	-20.6	35.2	4.1	-2.4	-3.3	278.3	280.7	0.8	28.7	1.6	188.0
50	22	1375	850.0	-1.6	-14.0	349.6	3.3	0.6	-3.3	278.3	280.7	1.5	38.5	1.8	187.0
58	25	1813	825.0	-0.1	-9.2	314.7	3.2	2.3	-2.3	288.5	295.0	2.3	50.1	1.9	185.0
70	27	2080	800.0	1.2	-8.7	299.5	3.4	6.2	-4.6	292.4	298.9	2.3	44.1	2.1	178.0
80	30	2317	775.0	3.3	-11.7	289.0	11.1	10.5	-3.6	297.4	303.3	2.0	32.4	2.0	182.0
91	33	2582	750.0	1.8	-11.5	278.6	12.7	12.7	-1.5	300.8	303.6	2.0	36.0	3.0	150.0
101	36	2858	725.0	1.2	-22.3	267.2	16.5	16.5	4.4	302.3	307.5	0.9	16.1	3.6	136.0
113	38	3137	700.0	-0.2	-22.8	256.6	18.7	18.2	7.1	304.6	309.9	0.8	17.2	5.2	114.0
123	41	3427	675.0	-2.0	-22.1	249.6	21.5	19.5	7.9	306.7	309.9	1.0	19.7	6.4	103.0
135	44	3728	650.0	-3.6	-22.1	250.0	24.9	23.4	8.5	308.3	313.5	1.7	35.9	7.9	97.0
147	47	4039	625.0	-6.0	-16.5	251.8	25.1	25.1	8.2	308.5	316.1	2.5	62.0	9.8	91.0
160	50	4361	600.0	-8.8	-12.7	253.1	28.5	27.3	8.3	308.5	316.1	1.0	79.4	11.9	88.0
173	53	4681	575.0	-11.4	-19.0	252.5	30.6	29.4	8.4	310.6	315.5	1.0	53.6	14.3	85.0
187	56	5033	550.0	-13.8	-22.0	255.0	32.3	31.2	8.4	311.9	315.9	1.2	49.7	16.7	84.0
200	59	5388	525.0	-16.3	-19.4	263.2	34.1	33.9	5.4	313.2	318.4	1.3	76.5	19.5	83.0
215	62	5757	500.0	-17.8	-22.4	263.2	36.2	35.6	4.1	315.9	320.6	1.1	64.6	22.8	83.0
230	65	6143	475.0	-23.4	-30.3	254.0	38.3	36.8	6.9	317.4	321.4	0.7	53.0	29.3	82.0
246	68	6535	450.0	-23.4	-30.3	254.0	38.3	36.8	10.5	318.0	321.4	0.7	49.7	33.6	80.0
261	72	6926	425.0	-26.6	-33.9	253.1	38.9	37.3	11.3	320.5	322.3	0.5	51.9	37.6	80.0
279	75	7408	400.0	-26.6	-33.9	253.1	38.9	37.3	14.1	323.2	324.9	0.5	48.8	42.4	78.0
297	78	7870	375.0	-29.0	-35.7	250.0	41.4	38.4	17.2	324.3	325.5	0.3	46.8	47.3	77.0
317	82	8300	350.0	-33.0	-40.0	244.6	40.2	36.4	20.7	327.1	327.9	0.2	40.9	53.1	75.0
336	86	8878	325.0	-36.0	-44.6	242.7	47.4	42.6	21.8	330.1	330.7	0.1	34.1	58.9	74.0
357	90	9430	300.0	-39.2	-49.0	242.7	47.4	42.6	24.7	333.0	333.0	0.1	34.1	67.1	73.0
378	94	10021	275.0	-43.0	-54.2	238.5	54.2	48.5	26.5	336.1	336.1	0.1	34.1	76.5	71.0
402	98	10657	250.0	-47.1	-59.9	232.7	54.6	46.2	32.2	337.7	337.7	0.1	34.1	83.6	70.0
428	102	11348	225.0	-52.1	-66.1	232.7	53.2	43.4	37.0	338.7	338.7	0.1	34.1	94.6	69.0
454	106	12105	200.0	-54.1	-69.9	239.9	73.6	63.9	37.0	337.1	338.9	0.1	34.1	105.7	69.0
484	113	12958	175.0	-55.4	-69.9	247.3	49.4	45.5	16.1	359.2	359.2	0.1	34.1	115.7	69.0
520	118	13933	150.0	-58.6	-69.9	247.3	49.4	45.5	13.7	374.6	374.6	0.1	34.1	127.2	70.0
558	125	15058	125.0	-67.1	-69.9	253.0	46.9	44.9	9.8	381.1	381.1	0.1	34.1	139.3	71.0
608	140	16403	100.0	-67.1	-69.9	271.1	28.9	28.9	-0.6	428.1	428.1	0.1	34.1	147.3	71.0
668	140	18117	75.0	-68.6	-69.9	271.1	28.9	28.9	-23.6	482.7	482.7	0.1	34.1	152.6	72.0
748	149	20586	50.0	-64.0	-69.9	317.8	25.0	16.8	-18.5	628.2	628.2	0.1	34.1	152.6	72.0

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 0 AND 10 DEG  
 \* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 0 DEG  
 \*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

APPENDIX II

AVE/VAS I Rawinsonde Data  
with Abnormal Characteristics  
Presented at 25-mb Intervals

STATION NO. 2  
HENRIETTA, TEXAS  
6 FEBRUARY 1962  
1157 GMT

TIME MIN	CNTGT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT I DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
00	0	287.5	1055.0	-10.5	-18.0	315.0	5.0	3.5	-3.5	282.3	264.7	0.9	54.0	0.0	0
02	9	325.8	1050.0	-11.4	-17.8	315.0	9.9	9.9	9.9	261.4	264.2	0.9	58.7	999.9	999
08	12	519.4	975.0	-13.6	-19.3	999.9	9.9	9.9	9.9	263.7	263.7	0.8	82.0	999.9	999
14	14	716.4	950.0	-15.0	-20.1	999.9	9.9	9.9	9.9	261.4	264.1	0.8	84.9	999.9	999
22	19	919.2	925.0	-12.7	-24.9	999.9	9.9	9.9	9.9	268.4	269.8	0.5	35.4	999.9	999
29	19	1128.2	900.0	-12.7	-26.3	999.9	9.9	9.9	9.9	268.4	269.8	0.5	30.9	999.9	999
36	23	1344.8	875.0	-8.5	-25.2	999.9	9.9	9.9	9.9	275.0	276.6	0.7	24.3	999.9	999
43	23	1569.9	850.0	-8.2	-23.1	999.9	9.9	9.9	9.9	277.6	279.6	0.7	28.6	999.9	999
50	26	1801.9	825.0	-6.5	-21.2	999.9	9.9	9.9	9.9	284.2	284.2	1.3	29.9	999.9	999
58	28	2043.1	800.0	-4.2	-16.4	999.9	9.9	9.9	9.9	286.7	290.5	1.3	37.8	999.9	999
09	31	2293.5	775.0	-4.1**	99.9	999.9	9.9	9.9	9.9	289.4	999.9	9.9	999.9	999.9	999
09	33	2551.5	750.0	-5.3**	99.9	999.9	9.9	9.9	9.9	290.8	999.9	9.9	999.9	999.9	999
09	36	2816.7	725.0	-6.5**	99.9	999.9	9.9	9.9	9.9	292.3	999.9	9.9	999.9	999.9	999
10	33	3090.2	700.0	-7.8**	99.9	999.9	9.9	9.9	9.9	293.9	999.9	9.9	999.9	999.9	999
11	41	3372.2	675.0	-9.1**	99.9	999.9	9.9	9.9	9.9	295.5	999.9	9.9	999.9	999.9	999
12	47	3663.4	650.0	-10.3**	99.9	999.9	9.9	9.9	9.9	297.2	999.9	9.9	999.9	999.9	999
13	48	3954.7	625.0	-11.6**	99.9	999.9	9.9	9.9	9.9	301.1	999.9	9.9	999.9	999.9	999
15	52	4246.5	600.0	-13.0**	99.9	999.9	9.9	9.9	9.9	303.2	999.9	9.9	999.9	999.9	999
17	54	4538.2	575.0	-14.4**	99.9	999.9	9.9	9.9	9.9	305.5	999.9	9.9	999.9	999.9	999
18	57	4830.1	550.0	-15.7**	99.9	999.9	9.9	9.9	9.9	307.9	999.9	9.9	999.9	999.9	999
20	60	5122.0	525.0	-17.1**	99.9	999.9	9.9	9.9	9.9	310.1	999.9	9.9	999.9	999.9	999
22	63	5413.9	500.0	-18.8	-21.9	265.9	19.7	19.6	1.6	310.9	314.3	1.3	78.9	26.1	88
23	66	5705.8	475.0	-21.9	-24.9	265.9	26.2	26.1	2.3	310.9	315.9	1.1	76.3	28.0	87
25	70	6044.8	450.0	-23.1	-33.8	258.0	44.5	44.4	9.5	318.9	318.5	0.5	37.5	30.8	87
27	73	6429.9	425.0	-28.3	-31.9	255.6	43.5	42.1	10.6	320.9	320.4	0.6	39.0	35.6	85
29	76	6815.0	400.0	-30.8	-38.0	254.1	44.2	42.5	12.1	322.2	322.2	0.4	48.9	40.7	83
31	80	7200.3	375.0	-34.7	-40.3	253.7	53.8	51.6	15.1	324.0	325.1	0.3	56.5	51.6	82
33	84	7585.6	350.0	-38.2	-41.4	252.5	59.7	56.9	17.9	324.0	325.1	0.3	71.5	59.4	81
35	87	7970.9	325.0	-40.9	99.9	250.8	47.4	44.8	15.6	327.8	999.9	9.9	999.9	66.5	80
37	92	8356.2	300.0	-48.9	99.9	250.8	41.2	38.8	13.8	327.8	999.9	9.9	999.9	72.5	78
40	98	8741.5	275.0	-50.5	99.9	254.9	52.5	50.7	12.8	331.0	999.9	9.9	999.9	78.5	78
42	105	9126.8	250.0	-55.5	99.9	250.8	56.4	53.2	18.7	333.4	999.9	9.9	999.9	87.0	76
45	105	9512.2	225.0	-57.1	99.9	250.8	59.6	56.3	16.3	342.4	999.9	9.9	999.9	95.0	77
48	111	9897.6	200.0	-59.4	99.9	255.3	33.6	32.5	18.3	342.4	999.9	9.9	999.9	102.1	77
52	117	10283.0	175.0	-59.4	99.9	255.3	33.6	32.5	16.3	351.9	999.9	9.9	999.9	109.5	77
57	123	10668.1	150.0	-64.9	99.9	258.8	31.9	31.0	7.3	367.7	999.9	9.9	999.9	118.1	77
62	131	11053.4	125.0	-67.8	99.9	258.8	29.5	28.7	6.7	377.4	999.9	9.9	999.9	128.2	77
68	139	11438.7	100.0	-69.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	9.9	999.9	999.9	999
74	147	11824.0	75.0	-69.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	9.9	999.9	999.9	999
80	155	12209.3	50.0	-69.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	9.9	999.9	999.9	999
86	163	12594.6	25.0	-69.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	9.9	999.9	999.9	999

CONTAINS DATA  
OF POOR QUALITY

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS



ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO. 6  
ABILENE, TEXAS  
6 FEBRUARY 1982  
2310 GMT

TIME MIN	CNTCT	WEIGHT GPM	PRES MS	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE NM	AZ DG
00.0	9.0	531.9	970.5	-0.2	-15.6	305.0	5.0	4.1	-2.9	275.3	278.5	1.2	30.0	0.0	0
00.9	99.9	1000.0	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
01.8	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.9
06.6	11.4	701.6	925.0	-2.6	-22.4	999.9	99.9	99.9	99.9	274.5	276.4	0.7	20.1	0.0	0
11.3	13.7	912.3	925.0	-4.7	-21.6	999.9	99.9	99.9	99.9	274.5	276.4	0.7	20.1	0.0	0
16.1	16.1	1126.9	900.0	-7.0	-20.5	999.9	99.9	99.9	99.9	274.3	277.6	0.8	32.9	0.0	0
20.9	16.5	1346.2	875.0	-6.1	-21.0	88.6	4.3	-4.3	-0.1	275.4	277.7	0.8	34.4	0.3	205
37.7	20.9	1572.6	850.0	-3.8	-23.6	59.4	3.2	-2.8	-1.6	262.2	264.1	0.7	18.6	0.4	227
45.3	23.3	1809.8	825.0	-0.9	-23.7	21.3	3.1	-1.1	-2.9	262.2	264.1	0.7	18.6	0.6	223
53.3	25.8	2056.3	800.0	1.6	-11.3	334.8	3.5	1.5	-3.2	292.9	298.7	2.0	37.7	0.7	216
61.3	28.3	2312.2	775.0	1.6	-10.2	291.3	6.3	5.8	-2.3	295.5	302.0	2.3	41.3	0.9	198
71.2	30.8	2576.7	750.0	2.2	-19.7	289.3	10.7	10.1	-3.7	309.0	305.2	1.1	19.0	0.9	197
81.1	33.5	2850.9	725.0	2.4	-22.7	261.4	13.6	13.6	-0.7	302.5	302.5	0.8	13.2	1.4	141
91.0	36.1	3133.7	700.0	1.4	-24.1	17.0	17.0	17.0	-0.5	306.5	306.6	0.8	12.8	2.2	123
101.1	38.6	3428.3	675.0	0.8	-23.4	266.6	20.3	20.3	1.3	307.2	309.6	0.9	14.2	3.1	112
111.1	41.4	3728.1	650.0	-1.6	-23.3	22.1	22.1	22.1	2.6	308.1	310.2	0.7	14.3	4.3	105
121.2	44.2	4038.8	625.0	-3.8	-27.5	283.5	22.9	22.7	4.0	309.0	311.7	0.8	13.7	5.8	100
131.3	47.0	4358.8	600.0	-6.2	-24.9	259.7	22.5	22.1	4.2	309.0	311.7	0.8	20.9	7.2	98
141.5	49.8	4691.0	575.0	-9.1	-14.3	259.6	23.5	23.2	4.2	309.8	316.0	2.2	66.2	6.7	93
151.6	52.9	5033.1	550.0	-12.1	-15.4	259.2	25.7	25.1	5.3	309.8	316.2	2.2	76.4	10.4	91
161.8	55.4	5388.1	525.0	-14.4	-17.3	254.9	29.2	27.3	7.4	311.1	316.9	1.9	76.7	12.3	89
171.9	58.0	5756.7	500.0	-16.2	-20.4	259.3	29.2	28.1	7.9	313.3	318.1	1.5	69.7	14.1	87
181.3	61.0	6140.9	475.0	-18.8	-22.4	259.0	34.4	33.7	6.6	314.9	319.0	1.3	72.8	16.5	85
191.3	64.2	6542.2	450.0	-21.0*	-24.9	99.9	99.9	99.9	6.6	316.9	319.0	0.9	99.9	99.9	99.9
201.4	67.4	6961.8	425.0	-24.9	-26.2	99.9	99.9	99.9	6.6	317.5	320.4	0.9	71.9	99.9	99.9
211.4	71.9	7401.7	400.0	-27.9	-31.2	99.9	99.9	99.9	6.6	318.7	321.1	0.7	72.4	99.9	99.9
221.0	75.3	7861.2	375.0	-31.3	-34.2	259.6	33.1	31.6	5.3	320.2	322.0	0.5	74.0	27.0	81
231.0	78.9	8347.1	350.0	-34.1*	-39.6	99.9	99.9	99.9	5.4	320.2	322.0	0.5	99.9	30.2	81
241.4	82.6	8862.2	325.0	-37.9*	-44.0	99.9	99.9	99.9	99.9	322.6	322.0	0.2	99.9	30.2	81
251.3	86.6	9406.9	300.0	-41.3*	-49.9	99.9	99.9	99.9	99.9	324.5	325.4	0.2	99.9	99.9	99.9
261.2	90.7	9994.9	275.0	-45.9*	-55.9	99.9	99.9	99.9	99.9	327.2	327.2	0.9	99.9	99.9	99.9
271.2	95.0	10622.8	250.0	-50.4	-61.3	241.3	48.3	42.4	99.9	328.7	328.7	0.9	99.9	44.0	77
281.6	99.6	11369.6	225.0	-55.1	-67.3	231.7	55.8*	45.6	32.3	331.2	331.2	0.9	99.9	50.1	75
291.6	104.4	12073.9	200.0	-60.0	-73.6	247.6	61.3*	53.3	30.4	341.8	341.8	0.9	99.9	57.1	73
301.6	109.6	12827.6	175.0	-65.5**	-79.6	247.6	48.1*	42.6	17.5	348.9	348.9	0.9	99.9	67.3	70
311.7	115.7	13666.6	150.0	-69.9**	-85.9	99.9	99.9	99.9	99.9	356.7	356.7	0.9	99.9	78.8	70
321.2	122.2	15028.6	125.0	-73.9**	-91.9	99.9	99.9	99.9	99.9	367.1	367.1	0.9	99.9	99.9	99.9
331.3	129.7	16375.0	100.0	-79.9**	-99.9	248.2	35.3*	32.8	13.1	379.2	379.2	0.9	99.9	97.4	71
341.3	138.9	17800.0	75.0	-85.9**	-109.9	99.9	99.9	99.9	99.9	393.3	393.3	0.9	99.9	105.0	71
351.3	149.9	19300.0	50.0	-91.9**	-119.9	99.9	99.9	99.9	99.9	99.9	99.9	0.9	99.9	99.9	99.9
361.3	161.9	20800.0	25.0	-98.9**	-129.9	99.9	99.9	99.9	99.9	99.9	99.9	0.9	99.9	99.9	99.9
371.3	175.9	22400.0	25.0	-105.9**	-139.9	99.9	99.9	99.9	99.9	99.9	99.9	0.9	99.9	99.9	99.9
381.3	191.9	24100.0	25.0	-113.9**	-149.9	99.9	99.9	99.9	99.9	99.9	99.9	0.9	99.9	99.9	99.9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

STATION NO 9  
HEWITT, TEXAS  
6 FEBRUARY 1962  
1713 GMT

TIME MIN	CNTCT	HEIGHT GPI	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE MM	AZ DG
00	5	184.1	1016.0	-3.4	-14.1	999.9	99.9	99.9	288.5	271.9	1.3	43.0	999.9	999.9
06	6	309.6	1000.0	-3.1	99.9	999.9	99.9	99.9	270.1	999.9	99.9	99.9	999.9	999.9
15	9	516.1	975.0	-2.6	99.9	999.9	99.9	99.9	272.5	999.9	99.9	99.9	999.9	999.9
24	11	671.2	950.0	-2.1	99.9	999.9	99.9	99.9	275.0	999.9	99.9	99.9	999.9	999.9
35	14	828.0	925.0	-1.6	99.9	999.9	99.9	99.9	277.7	999.9	99.9	99.9	999.9	999.9
45	16	984.3	900.0	-1.1	99.9	999.9	99.9	99.9	280.4	999.9	99.9	99.9	999.9	999.9
55	18	1140.9	875.0	-0.5	99.9	999.9	99.9	99.9	283.2	999.9	99.9	99.9	999.9	999.9
62	21	1370.9	850.0	0.1	-10.6	999.9	99.9	99.9	286.3	999.9	2.0	44.2	999.9	999.9
71	23	1623.8	825.0	5.2	-12.5	999.9	99.9	99.9	289.1	999.9	2.4	30.8	999.9	999.9
81	26	1843.0	800.0	6.5	-14.0	999.9	99.9	99.9	294.1	999.9	1.6	24.2	999.9	999.9
91	28	2086.4	775.0	6.5	-14.2	999.9	99.9	99.9	300.6	999.9	1.7	21.5	999.9	999.9
103	31	2324.4	750.0	4.6	-16.4	999.9	99.9	99.9	301.5	999.9	1.7	23.7	999.9	999.9
114	34	2589.5	725.0	2.7	-18.2	999.9	99.9	99.9	302.5	999.9	1.5	23.2	999.9	999.9
126	36	2889.5	700.0	1.0	-18.5	999.9	99.9	99.9	303.6	999.9	1.3	21.5	999.9	999.9
139	38	3174.0	675.0	-0.5	-17.0	999.9	99.9	99.9	305.1	999.9	1.3	23.3	999.9	999.9
151	42	3475.1	650.0	-1.3	-18.0	999.9	99.9	99.9	307.5	999.9	1.5	29.0	999.9	999.9
164	44	3775.0	625.0	-3.1	-10.2	999.9	99.9	99.9	308.7	999.9	2.6	58.7	999.9	999.9
177	47	4068.8	600.0	-6.1	-10.2	999.9	99.9	99.9	309.1	999.9	2.9	72.9	999.9	999.9
191	52	4408.5	575.0	-8.5	-10.9	999.9	99.9	99.9	310.0	999.9	2.9	62.5	999.9	999.9
206	53	4740.4	550.0	-10.7	-13.2	999.9	99.9	99.9	311.4	999.9	2.5	82.4	999.9	999.9
221	56	5083.9	525.0	-12.6	-21.5	999.9	99.9	99.9	313.3	999.9	1.3	47.1	999.9	999.9
237	58	5440.6	500.0	-15.2	-24.7	999.9	99.9	99.9	314.5	999.9	0.9	52.4	999.9	999.9
253	62	5811.5	475.0	-18.8	-24.1	999.9	99.9	99.9	317.1	999.9	1.1	47.1	999.9	999.9
270	65	6188.0	450.0	-19.9	-24.1	999.9	99.9	99.9	318.3	999.9	1.2	68.5	999.9	999.9
287	68	6591.8	425.0	-22.8	-25.6	999.9	99.9	99.9	318.6	999.9	1.1	78.2	999.9	999.9
305	72	7023.5	400.0	-25.2	-28.0	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
323	76	7468.5	375.0	-28.9	-32.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
342	80	7923.5	350.0	-32.9	-35.8	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
361	84	8398.5	325.0	-36.9	-39.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
380	88	8898.5	300.0	-40.9	-42.8	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
400	92	9418.5	275.0	-44.9	-46.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
420	96	9958.5	250.0	-48.9	-49.8	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
440	100	10518.5	225.0	-52.9	-53.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
460	104	11098.5	200.0	-56.9	-56.8	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
480	108	11698.5	175.0	-60.9	-60.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
500	112	12318.5	150.0	-64.9	-63.8	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
520	116	12958.5	125.0	-68.9	-67.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
540	120	13618.5	100.0	-72.9	-70.8	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
560	124	14298.5	75.0	-76.9	-74.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
580	128	15008.5	50.0	-80.9	-77.8	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9
600	132	15748.5	25.0	-84.9	-81.3	999.9	99.9	99.9	322.2	999.9	99.9	99.9	999.9	999.9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATUM EXCEEDS 5 CONTACTS

ORIGINAL PAGE IS  
OF POOR QUALITY

STATION NO 10  
MEMARD, TEXAS  
5 FEBRUARY 1952  
1225 GMT

TIME MIN	CMTC	WEIGHT GPM	PRES MB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO CM/KG	RH PCT	RANGE KM	AZ DG
0 0	10 1	588 3	965 1	-9 5	-19 2	300 0	5 4	0 0	-5 0	266 4	269 7	0 9	45 0	0 0	0
00 9	99 9	99 9	1000 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9
0 4	11 5	710 5	925 0	-8 5	99 9	99 9	99 9	99 9	99 9	268 6	269 9	99 9	99 9	99 9	99 9
1 3	13 9	917 9	925 0	-6 5	99 9	99 9	99 9	99 9	99 9	272 7	272 9	99 9	99 9	99 9	99 9
2 1	16 4	1132 9	900 0	-4 4	99 9	99 9	99 9	99 9	99 9	278 9	278 9	99 9	99 9	99 9	99 9
2 8	18 8	1355 3	875 0	-2 5	99 9	99 9	99 9	99 9	99 9	281 2	281 2	99 9	99 9	99 9	99 9
3 7	21 3	1625 9	850 0	-0 6	99 9	99 9	99 9	99 9	99 9	285 5	285 5	99 9	99 9	99 9	99 9
4 5	23 6	1825 1	825 0	1 4	99 9	99 9	99 9	99 9	99 9	290 9	290 9	99 9	99 9	99 9	99 9
5 4	26 3	2073 6	800 0	3 5	99 9	99 9	99 9	99 9	99 9	294 9	294 9	99 9	99 9	99 9	99 9
6 4	28 9	2331 8	775 0	5 7	99 9	99 9	99 9	99 9	99 9	300 0	300 0	99 9	99 9	99 9	99 9
7 3	31 5	2601 0	750 0	7 6	-11 0	99 9	99 9	99 9	99 9	306 1	311 9	2 4	27 3	99 9	99 9
8 2	34 1	2879 5	725 0	9 1	-11 0	99 9	99 9	99 9	99 9	308 1	313 1	2 3	26 4	99 9	99 9
9 4	36 8	3165 4	700 0	1 2	-18 4	99 9	99 9	99 9	99 9	308 1	309 8	1 2	17 1	99 9	99 9
10 5	39 4	3459 3	675 0	3 8	-18 4	99 9	99 9	99 9	99 9	307 6	311 5	1 4	17 0	99 9	99 9
11 5	42 1	3761 9	650 0	0 8	-18 6	257 9	20 3	19 8	4 2	308 3	314 1	1 6	24 4	6 1	98
12 7	45 0	4073 3	625 0	-3 6	-15 1	253 1	22 1	21 1	5 6	308 3	314 1	1 6	40 5	7 4	94
13 8	47 8	4394 2	600 0	-6 1	-17 5	253 3	23 7	22 7	6 5	309 6	314 9	1 7	40 2	8 7	88
15 0	50 8	4728 6	575 0	-8 9	-22 8	255 9	23 9	23 2	8 6	311 7	315 3	1 1	50 8	10 2	88
16 1	53 8	5099 1	550 0	-10 4	-22 8	257 3	24 6	24 2	5 4	311 6	316 3	0 8	35 5	11 8	88
17 5	56 8	5424 9	525 0	-14 0	-26 5	261 9	27 2	26 9	3 8	312 2	316 1	1 2	33 6	13 6	85
18 8	59 8	5783 2	500 0	-17 1	-28 6	263 3	31 3	31 1	3 7	314 3	316 6	0 7	60 9	15 6	84
20 1	62 8	6170 2	475 0	-19 2	-36 2	259 7	32 6	32 0	5 8	316 2	317 6	0 4	38 9	18 1	84
21 6	66 0	6570 5	450 0	-21 5	-36 2	254 3	31 9	30 7	8 6	320 1	322 6	0 7	24 9	21 0	84
23 2	69 4	6987 4	425 0	-23 6	-39 4	250 0	35 3	33 1	12 1	321 8	324 6	0 8	70 0	22 1	82
24 6	72 7	7438 3	400 0	-25 5	-39 4	247 8	40 0	37 0	15 1	323 5	325 7	0 7	69 8	23 4	80
26 3	76 1	7908 0	375 0	-28 8	-36 2	247 8	39 5	36 6	17 1	325 3	327 0	0 5	67 1	24 0	80
28 0	79 7	8385 5	350 0	-32 2	-41 0	244 9	40 3	36 5	17 1	328 7	327 9	0 3	61 2	24 9	79
29 8	83 5	8814 1	325 0	-35 3	-38 9	242 8	46 4	41 2	21 3	328 8	328 8	99 9	99 9	28 8	77
31 6	87 5	9265 5	300 0	-38 3	-38 9	241 8	48 7	42 9	23 0	328 5	328 5	99 9	99 9	28 8	76
33 9	91 7	10652 7	275 0	-43 4	-38 9	241 8	48 7	42 9	23 0	328 5	328 5	99 9	99 9	28 8	74
36 2	96 0	10982 7	250 0	-48 0	-38 9	240 1	49 8	43 0	23 7	328 5	328 5	99 9	99 9	28 8	73
38 6	100 6	11371 2	225 0	-53 2	-38 9	236 1	49 8	43 0	27 3	328 5	328 5	99 9	99 9	28 8	71
41 4	105 8	12122 0	200 0	-58 7	-38 9	239 9	49 8	43 1	24 9	328 5	328 5	99 9	99 9	28 8	68
44 3	110 8	12986 2	175 0	-64 7	-38 9	248 4	44 5	41 4	16 4	328 5	328 5	99 9	99 9	28 8	68
47 8	116 7	13930 7	150 0	-81 4	-38 9	253 6	48 1	46 2	13 6	328 5	328 5	99 9	99 9	28 8	68
51 7	123 2	15046 4	125 0	-86 2	-38 9	256 4	47 2	45 8	11 1	328 5	328 5	99 9	99 9	28 8	68
56 5	130 7	16288 1	100 0	-89 2	-38 9	257 4	35 0	34 2	7 6	328 5	328 5	99 9	99 9	28 8	68
62 6	138 3	18082 9	75 0	-72 3	-38 9	260 6	31 6	31 4	5 2	421 4	421 4	99 9	99 9	123 4	71
70 9	146 3	20520 8	50 0	-64 4	-38 9	223 1	24 6	17 0	18 1	491 7	491 7	99 9	99 9	137 5	73
83 7	160 6	24830 3	28 0	-57 4	-38 9	322 1	10 3	8 3	1 8	619 7	619 7	99 9	99 9	148 8	74

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG  
 \*\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
 \*\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
 \*\*\*\* BY TEMP MEANS MISSING DATA STRATON EXCEEDS 5 CONTACTS

STATION NO 10  
 MENARD, TEXAS  
 6 FEBRUARY 1982  
 2318 GMT

OF FOOT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEM PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MI, R TO GM/KG	RH PCT	RANGE NM	AZ DG
0 0	10 3	588.3	963.1	-2 0	-11 5	999 9	99 9	99 9	99 9	274 1	278 5	1 0	48 0	999 9	999 9
00 9	99 9	99 9	1000 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
01 6	11 5	99 9	975 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
02 3	13 9	99 9	950 0	-2 7**	99 9	99 9	99 9	99 9	99 9	274 5	99 9	99 9	99 9	999 9	999 9
03 0	15 3	99 9	925 0	-3 8**	99 9	99 9	99 9	99 9	99 9	275 4	99 9	99 9	99 9	999 9	999 9
03 7	17 7	99 9	900 0	-4 9**	99 9	99 9	99 9	99 9	99 9	276 5	99 9	99 9	99 9	999 9	999 9
04 4	19 1	1123.5	875 0	-6 1**	99 9	99 9	99 9	99 9	99 9	277 5	99 9	99 9	99 9	999 9	999 9
05 1	20 8	1344.5	850 0	-7 2**	99 9	99 9	99 9	99 9	99 9	278 6	99 9	99 9	99 9	999 9	999 9
05 8	22 2	1570 8	825 0	-8 3**	99 9	99 9	99 9	99 9	99 9	279 6	99 9	99 9	99 9	999 9	999 9
06 5	23 9	1802 8	800 0	-9 4**	99 9	99 9	99 9	99 9	99 9	281 1	99 9	99 9	99 9	999 9	999 9
07 2	25 3	2040 9	775 0	-10 7**	99 9	99 9	99 9	99 9	99 9	282 3	99 9	99 9	99 9	999 9	999 9
07 9	26 9	2265 6	750 0	-11 9**	99 9	99 9	99 9	99 9	99 9	283 7	99 9	99 9	99 9	999 9	999 9
08 6	28 5	2798 0	725 0	-13 1**	99 9	99 9	99 9	99 9	99 9	285 1	99 9	99 9	99 9	999 9	999 9
09 3	30 2	3097 6	700 0	-14 3**	99 9	99 9	99 9	99 9	99 9	286 6	99 9	99 9	99 9	999 9	999 9
10 0	31 9	3337 8	675 0	-15 6**	99 9	99 9	99 9	99 9	99 9	288 2	99 9	99 9	99 9	999 9	999 9
10 7	33 6	3637 7	650 0	-16 8**	99 9	99 9	99 9	99 9	99 9	289 9	99 9	99 9	99 9	999 9	999 9
11 4	35 2	3915 4	625 0	-18 1**	99 9	99 9	99 9	99 9	99 9	291 7	99 9	99 9	99 9	999 9	999 9
12 1	36 9	4215 3	600 0	-19 4**	99 9	99 9	99 9	99 9	99 9	293 6	99 9	99 9	99 9	999 9	999 9
12 8	38 5	4534 6	575 0	-20 8**	99 9	99 9	99 9	99 9	99 9	295 6	99 9	99 9	99 9	999 9	999 9
13 5	40 1	4862 8	550 0	-22 2**	99 9	99 9	99 9	99 9	99 9	297 8	99 9	99 9	99 9	999 9	999 9
14 2	41 8	5203 8	525 0	-23 6**	99 9	99 9	99 9	99 9	99 9	300 1	99 9	99 9	99 9	999 9	999 9
14 9	43 4	5558 3	500 0	-25 0**	99 9	99 9	99 9	99 9	99 9	302 0	99 9	99 9	99 9	999 9	999 9
15 6	45 0	5931 0	475 0	-26 4**	99 9	99 9	99 9	99 9	99 9	305 3	99 9	99 9	99 9	999 9	999 9
16 3	46 7	6320 8	450 0	-27 9**	99 9	99 9	99 9	99 9	99 9	308 2	99 9	99 9	99 9	999 9	999 9
17 0	48 3	6730 1	425 0	-29 5**	99 9	99 9	99 9	99 9	99 9	311 2	99 9	99 9	99 9	999 9	999 9
17 7	50 0	7161 2	400 0	-31 1**	99 9	99 9	99 9	99 9	99 9	314 6	99 9	99 9	99 9	999 9	999 9
18 4	51 6	7617 4	375 0	-32 7**	99 9	99 9	99 9	99 9	99 9	318 4	99 9	99 9	99 9	999 9	999 9
19 1	53 2	8101 7	350 0	-34 1**	99 9	99 9	99 9	99 9	99 9	322 6	99 9	99 9	99 9	999 9	999 9
19 8	54 9	8617 3	325 0	-37 1**	99 9	99 9	99 9	99 9	99 9	326 6	99 9	99 9	99 9	999 9	999 9
20 5	56 5	9185 9	300 0	-41 5**	99 9	99 9	99 9	99 9	99 9	330 9	99 9	99 9	99 9	999 9	999 9
21 2	58 1	9751 2	275 0	-45 6**	99 9	99 9	99 9	99 9	99 9	335 6	99 9	99 9	99 9	999 9	999 9
21 9	59 8	10382 0	250 0	-49 9**	99 9	99 9	99 9	99 9	99 9	340 9	99 9	99 9	99 9	999 9	999 9
22 6	61 4	10968 8	225 0	-45 3	99 9	99 9	99 9	99 9	99 9	346 9	99 9	99 9	99 9	999 9	999 9
23 3	63 0	11668 8	200 0	-48 5	99 9	99 9	99 9	99 9	99 9	353 9	99 9	99 9	99 9	999 9	999 9
24 0	64 7	12373 6	175 0	-53 2	99 9	99 9	99 9	99 9	99 9	358 9	99 9	99 9	99 9	999 9	999 9
24 7	66 3	12673 6	150 0	-55 1	99 9	99 9	99 9	99 9	99 9	365 6	99 9	99 9	99 9	999 9	999 9
25 4	68 0	13045 4	125 0	-57 1	99 9	99 9	99 9	99 9	99 9	373 5	99 9	99 9	99 9	999 9	999 9
26 1	69 6	14771 1	100 0	-64 8	99 9	99 9	99 9	99 9	99 9	377 7	99 9	99 9	99 9	999 9	999 9
26 8	71 3	16111 1	75 0	-71 2	99 9	99 9	99 9	99 9	99 9	380 2	99 9	99 9	99 9	999 9	999 9
27 5	73 0	17788 8	50 0	-73 2	99 9	99 9	99 9	99 9	99 9	419 5	99 9	99 9	99 9	999 9	999 9
28 2	74 7	99 9	25 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
28 9	76 3	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
29 6	78 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
30 3	79 6	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
31 0	81 3	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
31 7	82 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
32 4	84 6	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
33 1	86 2	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
33 8	87 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
34 5	89 5	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
35 2	91 2	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
35 9	92 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
36 6	94 6	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
37 3	96 2	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
38 0	97 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
38 7	99 5	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
39 4	101 1	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
40 1	102 8	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
40 8	104 4	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
41 5	106 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
42 2	107 7	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
42 9	109 3	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
43 6	110 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
44 3	112 5	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
45 0	114 1	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
45 7	115 8	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
46 4	117 4	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
47 1	119 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
47 8	120 6	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
48 5	122 2	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
49 2	123 8	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
49 9	125 4	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
50 6	127 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
51 3	128 6	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
52 0	130 2	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
52 7	131 8	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
53 4	133 4	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
54 1	135 0	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9
54 8	136 6	99 9	99 9	99 9	99 9										

ORIGINAL DATA IS  
OF POOR QUALITY

STATION NO 12  
COLLEGE STATION, TEXAS  
6 FEBRUARY 1982  
6 2338 GMT

TIME MIN	CNTCT	HEIGHT GPM	PRES MB	TEMP DG C	DEW PT DG C	DIR DG	SPEED M/SEC	U COMP M/SEC	V COMP M/SEC	POT T DG K	E POT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0 0	4 4	79 0	1023.7	0 0	-6 8	999 9	99 9	99 9	99 9	271 3	277 1	2 2	60 0	999 9	999 9
0 6	6 5	266 0	1000 0	-1 6 ..	99 9	999 9	99 9	99 9	99 9	271 5	999 9	99 9	999 9	999 9	999 9
1 3	8 7	466 7	975 0	-3 3 ..	99 9	999 9	99 9	99 9	99 9	271 8	999 9	99 9	999 9	999 9	999 9
2 0	11 0	671 2	950 0	-5 1 ..	99 9	999 9	99 9	99 9	99 9	272 0	999 9	99 9	999 9	999 9	999 9
2 7	13 3	860 1	925 0	-6 6	99 9	999 9	99 9	99 9	99 9	272 6	999 9	99 9	999 9	999 9	999 9
3 4	15 6	1095 7	900 0	-7 1	-13 5	999 9	99 9	99 9	99 9	273 3	283 5	1 5	999 9	999 9	999 9
4 2	17 9	1321 0	875 0	-7 4	-12 4	999 9	99 9	99 9	99 9	273 8	287 6	1 7	999 9	999 9	999 9
5 0	20 4	1556 1	850 0	-7 6	-11 7	999 9	99 9	99 9	99 9	274 7	297 8	2 6	999 9	999 9	999 9
5 8	22 7	1800 1	825 0	-6 7	-10 2	999 9	99 9	99 9	99 9	275 0	301 9	2 4	999 9	999 9	999 9
6 5	25 1	2052 0	800 0	-6 1	-9 1	999 9	99 9	99 9	99 9	301 9	309 3	4 4	999 9	999 9	999 9
7 4	27 6	2312 9	775 0	-4 1	-8 7	999 9	99 9	99 9	99 9	301 9	313 2	4 0	999 9	999 9	999 9
8 4	30 1	2583 4	750 0	-10 2	-11 7	999 9	99 9	99 9	99 9	305 4	312 5	2 3	999 9	999 9	999 9
9 4	32 5	2863 0	725 0	-6 7	-9 4	999 9	99 9	99 9	99 9	307 5	314 0	2 1	999 9	999 9	999 9
10 3	35 1	3150 6	700 0	-9 1	-8 7	999 9	99 9	99 9	99 9	308 7	317 2	2 8	999 9	999 9	999 9
11 5	37 7	3442 4	675 0	-9 4	-9 1	999 9	99 9	99 9	99 9	309 7	318 2	2 8	999 9	999 9	999 9
12 5	40 4	3752 4	650 0	-9 1	-9 4	999 9	99 9	99 9	99 9	310 3	319 3	3 0	999 9	999 9	999 9
13 6	43 0	4066 7	625 0	-9 9	-9 9	999 9	99 9	99 9	99 9	311 4	320 2	2 9	999 9	999 9	999 9
14 7	45 6	4390 9	600 0	-4 2	-10 2	999 9	99 9	99 9	99 9	311 9	320 2	2 9	999 9	999 9	999 9
15 8	48 6	4725 2	575 0	-6 6	-10 2	999 9	99 9	99 9	99 9	311 9	321 7	3 1	999 9	999 9	999 9
17 0	51 4	5071 2	550 0	-8 0	-13 2	999 9	99 9	99 9	99 9	313 9	321 7	2 5	999 9	999 9	999 9
18 3	54 4	5430 6	525 0	-11 5	-14 0	999 9	99 9	99 9	99 9	314 6	322 2	2 5	999 9	999 9	999 9
19 5	57 3	5803 3	500 0	-13 7	-15 2	999 9	99 9	99 9	99 9	316 3	323 7	2 3	999 9	999 9	999 9
20 6	60 4	6192 0	475 0	-18 2	-17 7	999 9	99 9	99 9	99 9	318 4	323 9	2 0	999 9	999 9	999 9
22 1	63 5	6597 1	450 0	-21 2	-21 2	999 9	99 9	99 9	99 9	320 4	323 9	1 6	999 9	999 9	999 9
23 7	66 7	7018 8	425 0	-22 3	-20 8	999 9	99 9	99 9	99 9	320 4	324 6	1 3	999 9	999 9	999 9
25 6	70 0	7462 0	400 0	-25 9	-20 8	999 9	99 9	99 9	99 9	321 6	324 6	0 8	999 9	999 9	999 9
27 4	73 4	7928 3	375 0	-27 7	-25 0	999 9	99 9	99 9	99 9	324 9	326 7	0 5	999 9	999 9	999 9
29 3	77 0	8420 8	350 0	-30 9	-33 3	999 9	99 9	99 9	99 9	327 2	328 4	0 4	999 9	999 9	999 9
31 2	80 7	8912 9	325 0	-34 8	-31 6	999 9	99 9	99 9	99 9	328 9	329 9	0 2	999 9	999 9	999 9
33 1	84 6	9455 6	300 0	-40 1	-39 9	999 9	99 9	99 9	99 9	328 9	329 9	99 9	999 9	999 9	999 9
35 1	88 5	10063 9	275 0	-43 7	-39 9	999 9	99 9	99 9	99 9	332 0	329 9	99 9	999 9	999 9	999 9
37 4	92 8	10719 2	250 0	-47 5	-39 9	999 9	99 9	99 9	99 9	335 5	329 9	99 9	999 9	999 9	999 9
39 8	97 4	11410 0	225 0	-51 4	-39 9	999 9	99 9	99 9	99 9	339 8	329 9	99 9	999 9	999 9	999 9
42 5	102 3	12168 2	200 0	-53 7	-39 9	999 9	99 9	99 9	99 9	347 8	329 9	99 9	999 9	999 9	999 9
45 2	107 6	13022 6	175 0	-55 5	-39 9	999 9	99 9	99 9	99 9	348 3	329 9	99 9	999 9	999 9	999 9
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99 9	99 9	99 9	25 0	99 9	99 9	999 9	99 9	99 9	99 9	99 9	99 9	99 9	999 9	999 9	999 9

\* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG.  
\* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED  
\*\* BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG  
\*\* BY TEMP MEANS MISSING DATA STATUM EXCEEDS 5 CONTACTS