NASA Contractor Report 3589

Rawinsonde Sounding Data and Synoptic Conditions for the CCOPE-VAS Experiment, July 1981

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A data report of this type requires the work of many people--rawinsonde operators, data processers, and those who prepare the data in report form. My thanks to the operators and data processers. Also, thanks to Ms. Kathy Mahaffey and Mr. Darrell Brissette who prepared the many figures, and to Miss Janna Coffman, who typed the report. Lastly, my gratitude to Dr. James R. Scoggins, the Principal Investigator who reviewed the manuscript.

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RAWINSONDE SOUNDING DATA AND SYNOPTIC CONDITIONS
FOR THE CCOPE-VAS EXPERIMENT, JULY 1981

I. Introduction

During the summer of 1981 the Cooperative Convective Precipitation Experiment (CCOPE) was conducted near Miles City, Montana. A network of weather observing stations was established to gather data for CCOPE. During CCOPE, eight observation periods were designated to collect data for the VISSR Atmospheric Sounder (VAS) Experiment. This report has some data for the VAS time periods.

The data collected for VAS were from five rawinsonde stations in the eastern part of Montana. These stations were operated by the Department of Meteorology of Texas A&M University. The location of each station is given in Table I.

Table I. Names, elevations, and locations of the rawinsonde stations used for VAS in Montana in 1981.

No.	Station	Height(m)	Latitude(^{o}N)	Longitude(^{o}W)
1	Miles City	800	46°25'45"	105°52'29"
2	W-Glendive	803	47°04'17"	105°06'45"
3	Baker	903	46°21'49"	104°15'36"
4	Knowlton	954	46°20'37"	105°05'11"
5	Powderville	866	45°45'34"	105°06'55"

These stations are located on the map shown in Fig. 1, along with locations of the planned network of observations. The rawinsonde station locations are shown in Fig. 2 also.

The dates chosen for VAS data collection are in Table II.

For launch times of the soundings for each station, termination pressure and remarks about each flight see Appendix I. Appendix I serves as an index to the flights. Appendix II gives the meteorological data for each flight.

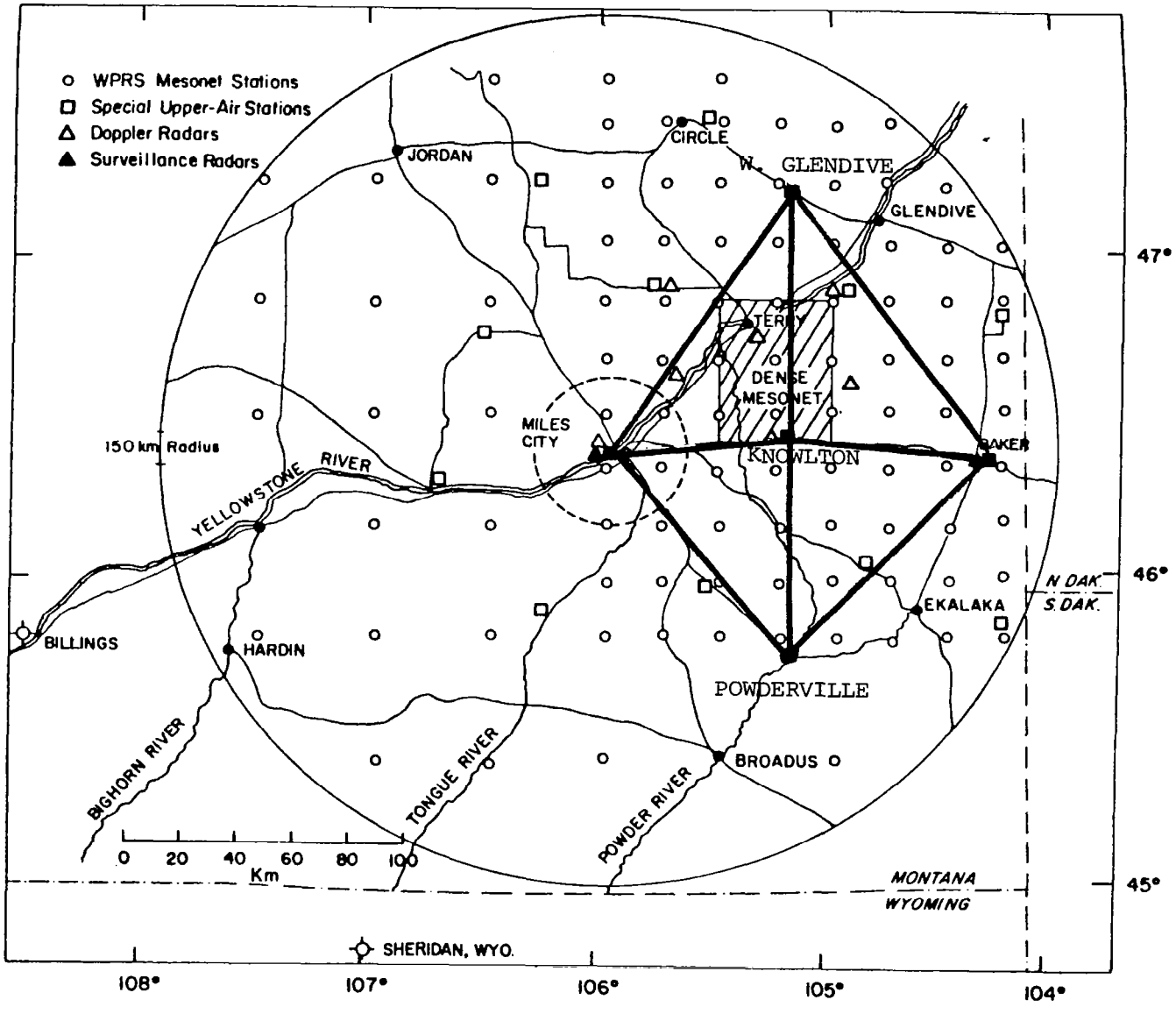

Fig. 1. Locations of special observing networks in CCOPE. Taken from the CCOPE Preliminary Experiment Design Document.

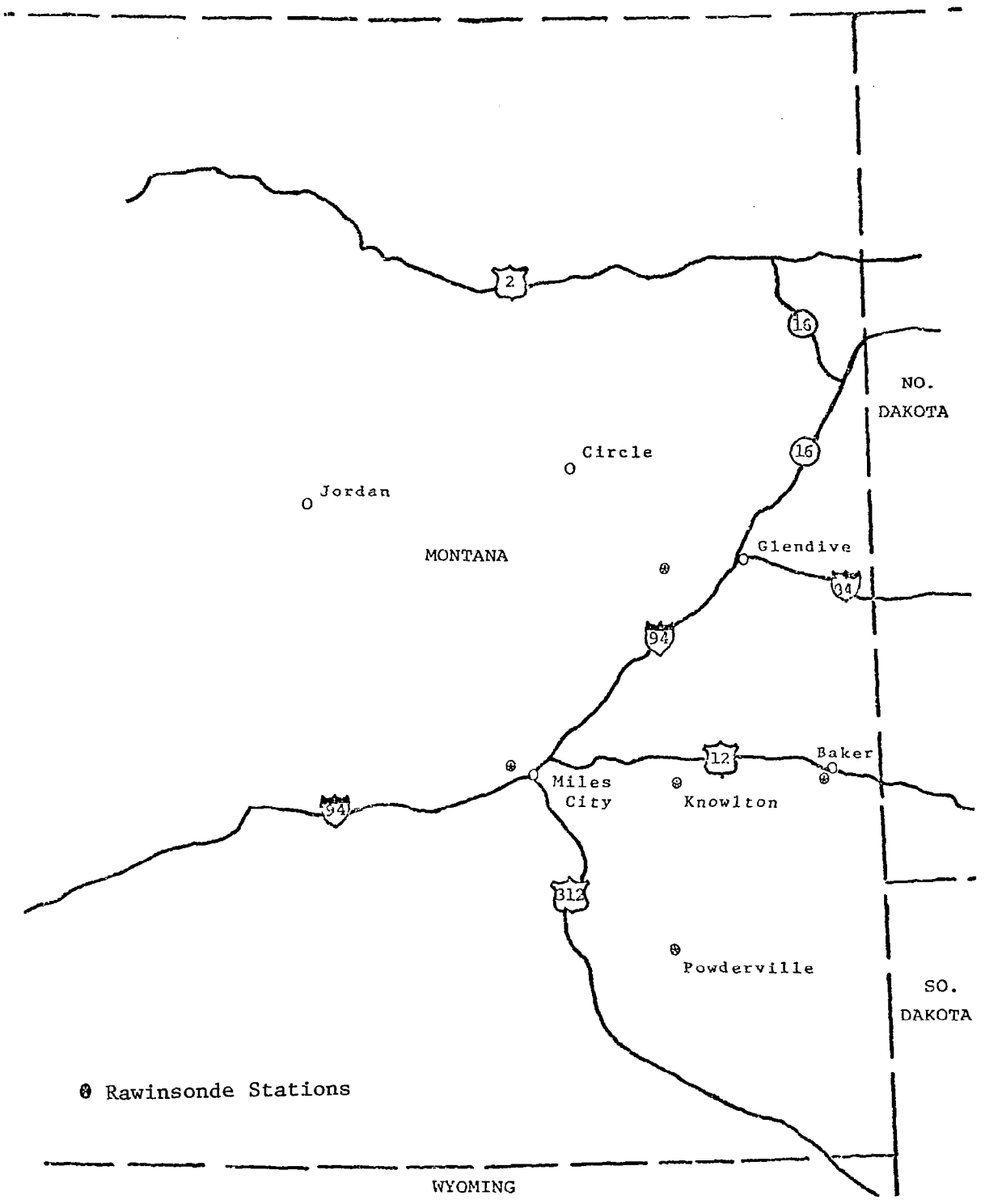

Fig. 2. Locations of rawinsonde stations.

Table II. List of dates for VAS data and the times that rawinsonde data were collected.

DATES	RAWINSONDE TIMES (GMT)
14 July 1981	1800, 2100
15 July 1981	0000, 0300
23 July 1981	1800, 1900, 2100
24 July 1981*	0000, 0300, 1800, 2100
25 July 1981	0000, 0300
30 July 1981	1800, 2100
31 July 1981	0000, 0300

*note two time periods on one day

II. The Synoptic Conditions of VAS Days

A. General

For the VAS days shown in Table II, the following synoptic data were collected. The synoptic maps were analyzed for each VAS day. The analyzed maps and a short discussion of the various synoptic patterns follow in parts B, C, and D. The maps shown are the surface analysis, surface data, 850 mb, 700 mb, 500 mb, 300 mb, and 200 mb. All upper air charts have contours and isotherms. The fronts are shown on the 850 mb and surface charts. The map times (GMT) are July 1981: 141200, 150000, 231200, 240000, 241200, 250000, 301200, and 310000. Dates and times of radar summaries and satellite pictures are shown in Tables III and IV respectively.

Table III. Radar Summaries by Days. Times in GMT.

14 July	15 July	23 July	24 July	25 July	30 July	31 July
1735	0135	1735	0135	0135	1735	0235
1935	0235	1935	0235	0235	1935	
2035		2135	1735		2035	
2135		2235	1935		2135	
2235		2335	2035		2235	
2335			2135		2335	
			2235			
			2335			

Table IV. Satellite Pictures by Days. Times in GMT.

14 July	15 July	23 July	24 July	25 July	30 July	31 July
1800	0000	1800	0000	0030	1730	0030
1900	0100	1900	0100	0130	1830	0130
1930	0230	2000	0230	0230	1930	2030
2100		2100	1830		2030	
2300		2200*	1930		2130	
2300		2200*	2030		2230	
			2130		2330	
			2230			
			2330			

*These two pictures show 22 July 80 on the picture. Both day and year are incorrect, but are for 23 July 1981.

B. The Synoptic Situation for 1200 GMT 14 July to 0000 GMT 15 July 1981

As shown in Fig. 3a the surface front is east of the mesoscale upper air network so the network was in the cold air the entire period, at the surface, Fig. 4a. As is indicated in Figs. 3 and 4, a low was in the northwest corner of the map aloft causing a strong southwest flow aloft. Cold air advection is indicated at all levels aloft. A small area of light rain is in eastern North Dakota and western Minnesota at 141200 GMT. The radar summaries, Fig. 5, show thunderstorms developing in South Dakota later in the day, but all are to the east of the meso-net rawinsonde area. The satellite pictures in Fig. 6 show the low north of Montana and the thunderstorm in South Dakota. The meso-net has clouds at the start of the period but by the end it is almost clear.

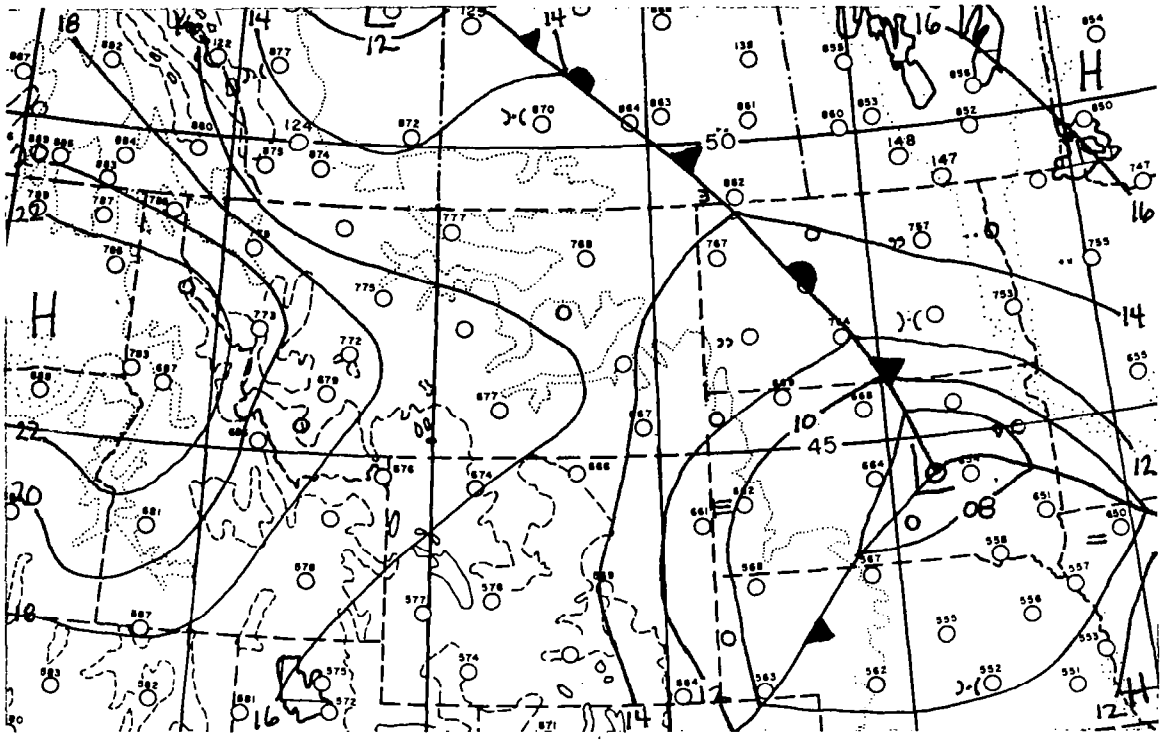

Fig. 3a. Surface Map Analysis and Weather for 1200 GMT 14 July 1981.

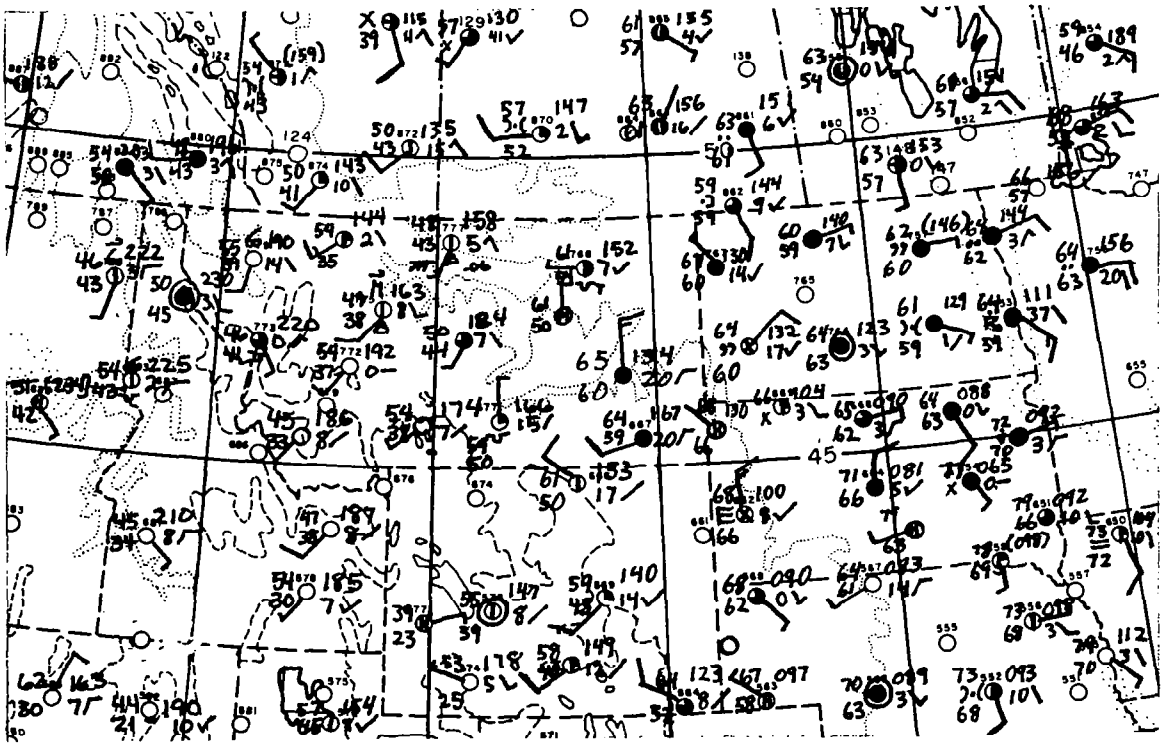

Fig. 3b. Surface Map Data for 1200 GMT 14 July 1981.

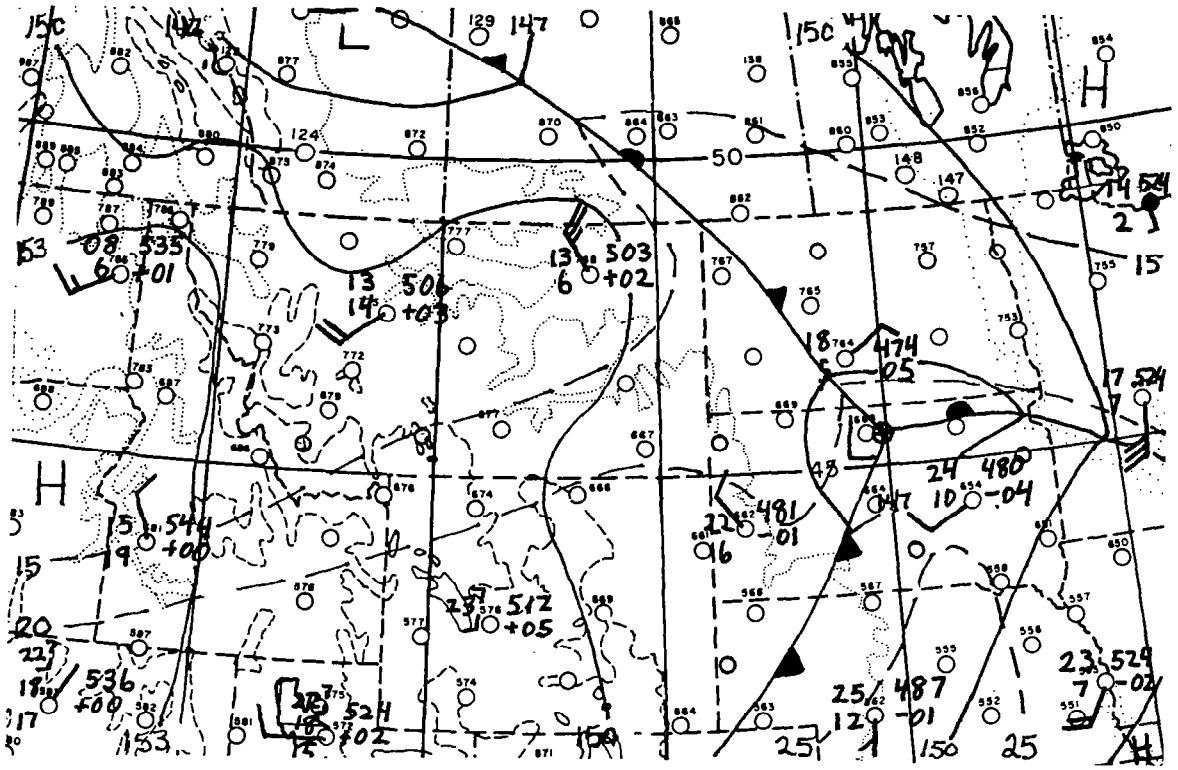

Fig. 3c. 850 mb Map for 1200 GMT 14 July 1981.

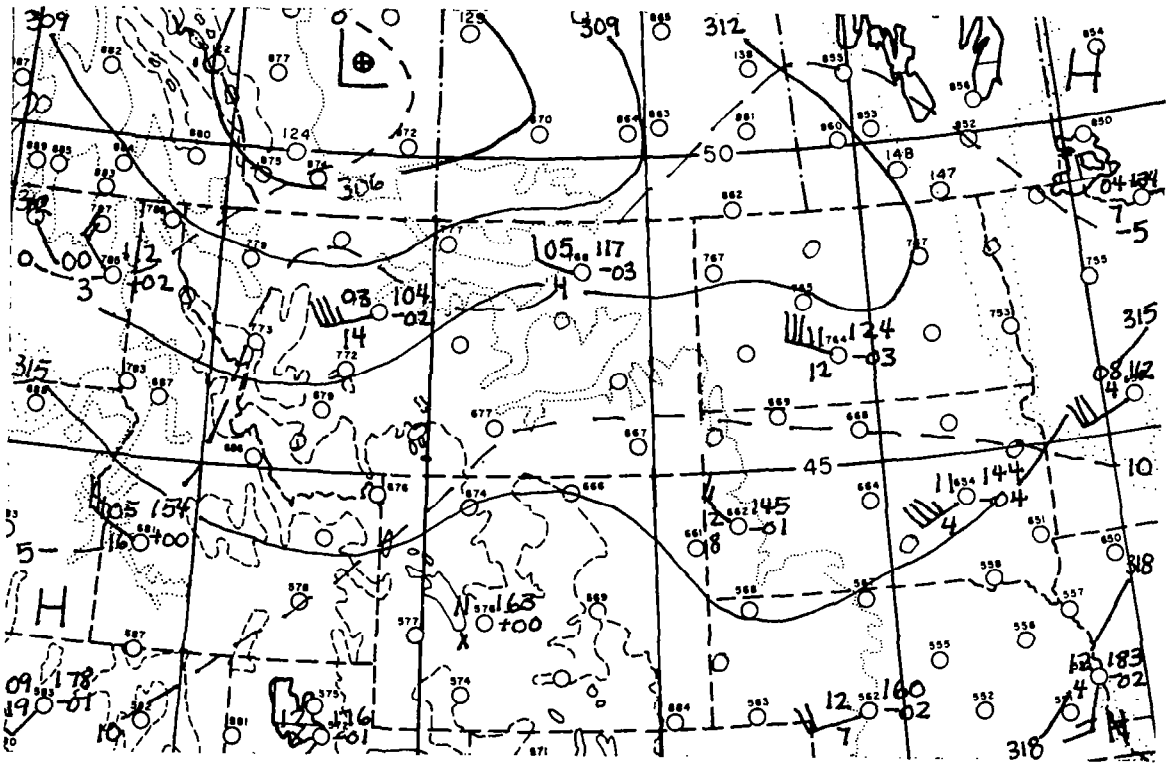

Fig. 3d. 700 mb Map for 1200 GMT 14 July 1981.

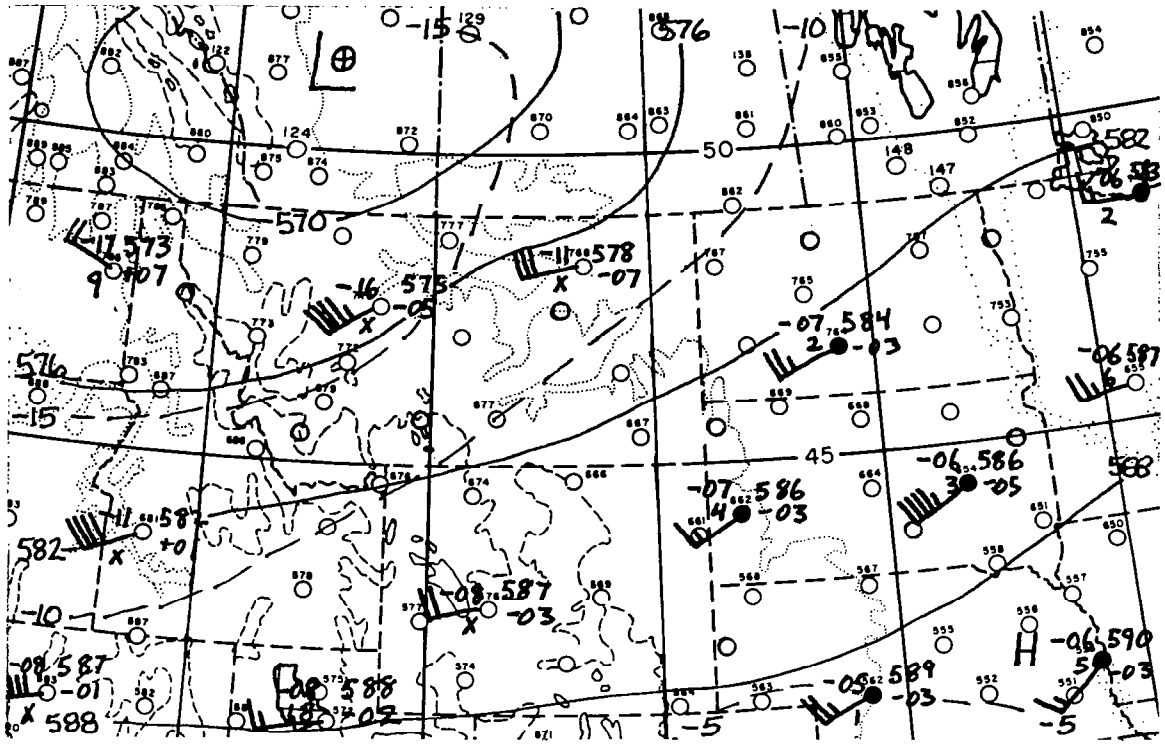

Fig. 3e. 500 mb Map for 1200 GMT 14 July 1981.

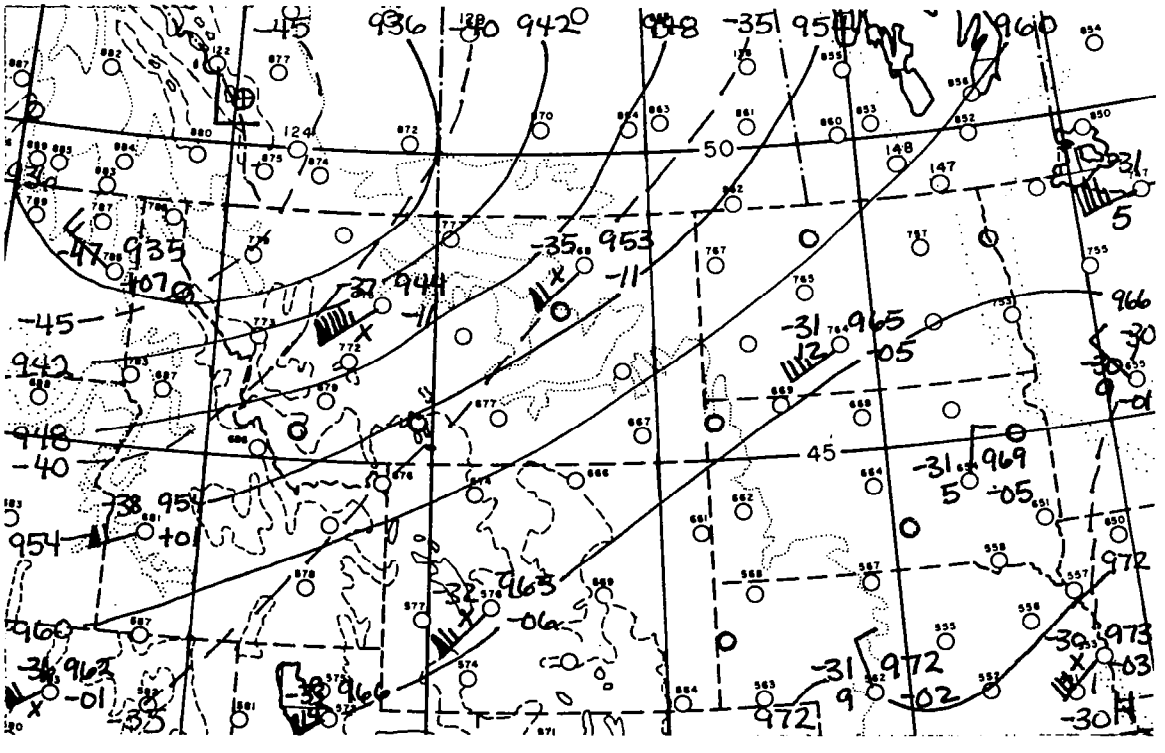

Fig. 3f. 300 mb Map for 1200 GMT 14 July 1981.

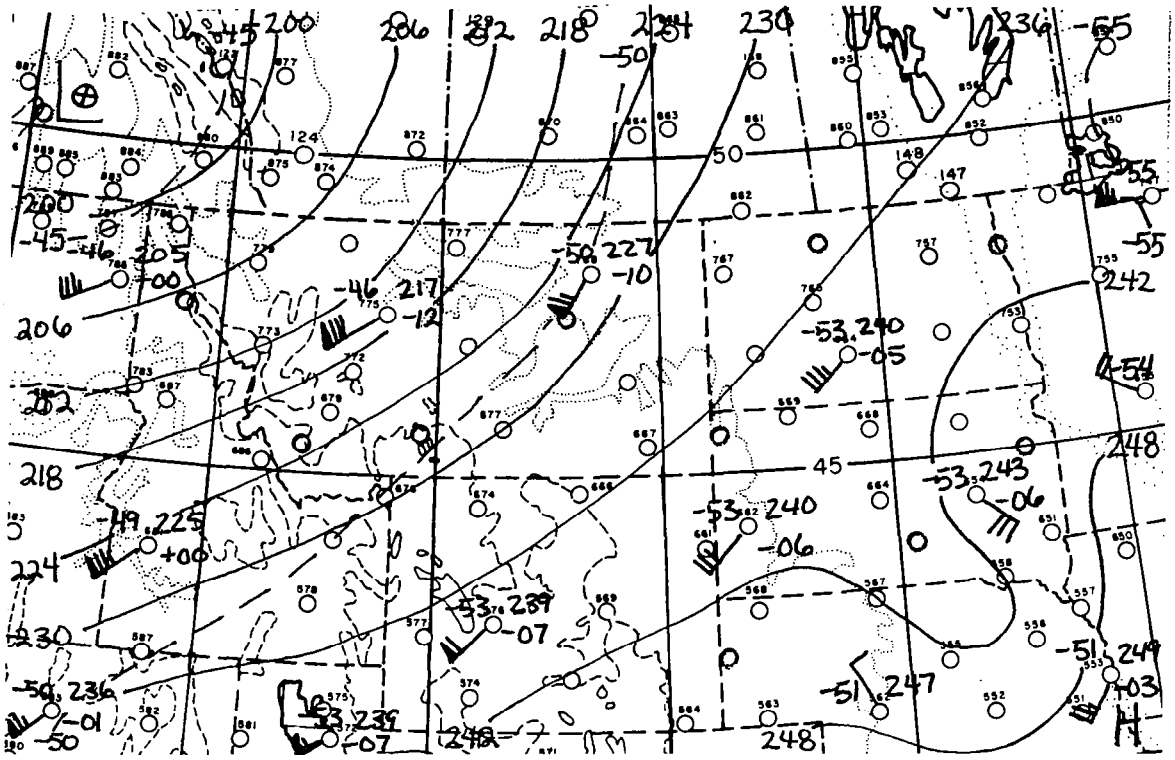

Fig. 3g. 200 mb Map for 1200 GMT 14 July 1981.

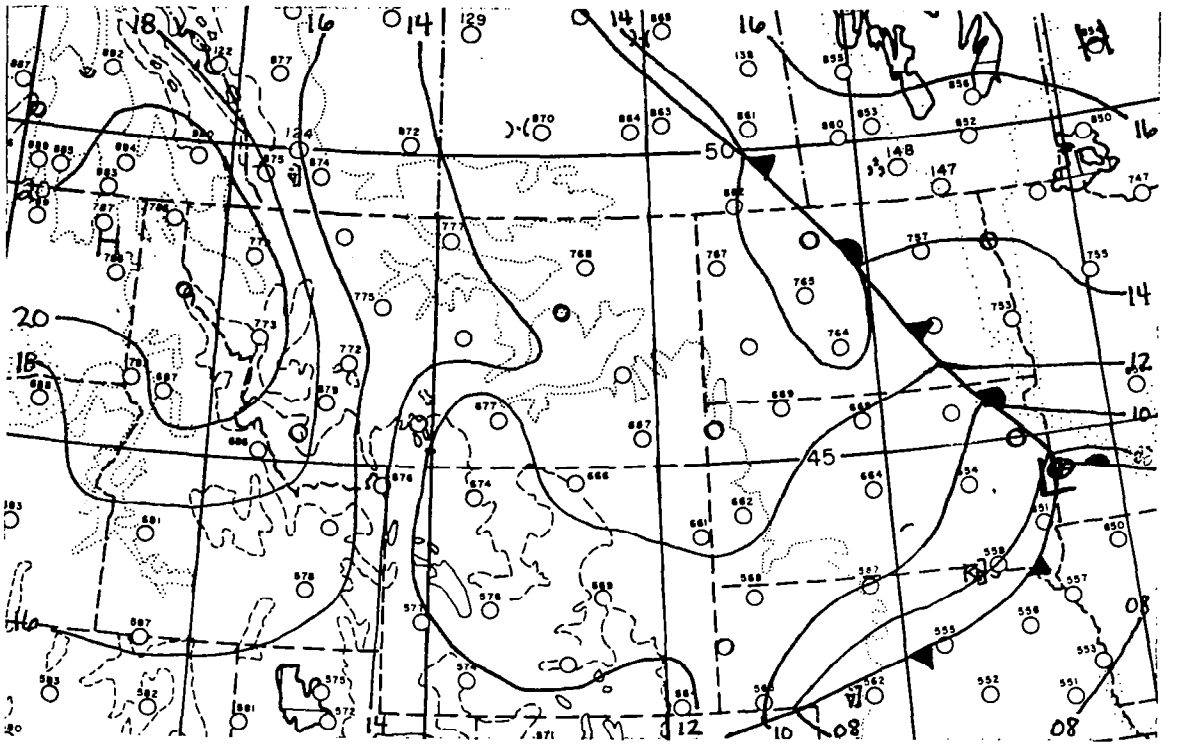

Fig. 4a. Surface Map Analysis and Weather for 0000 GMT 15 July 1981.

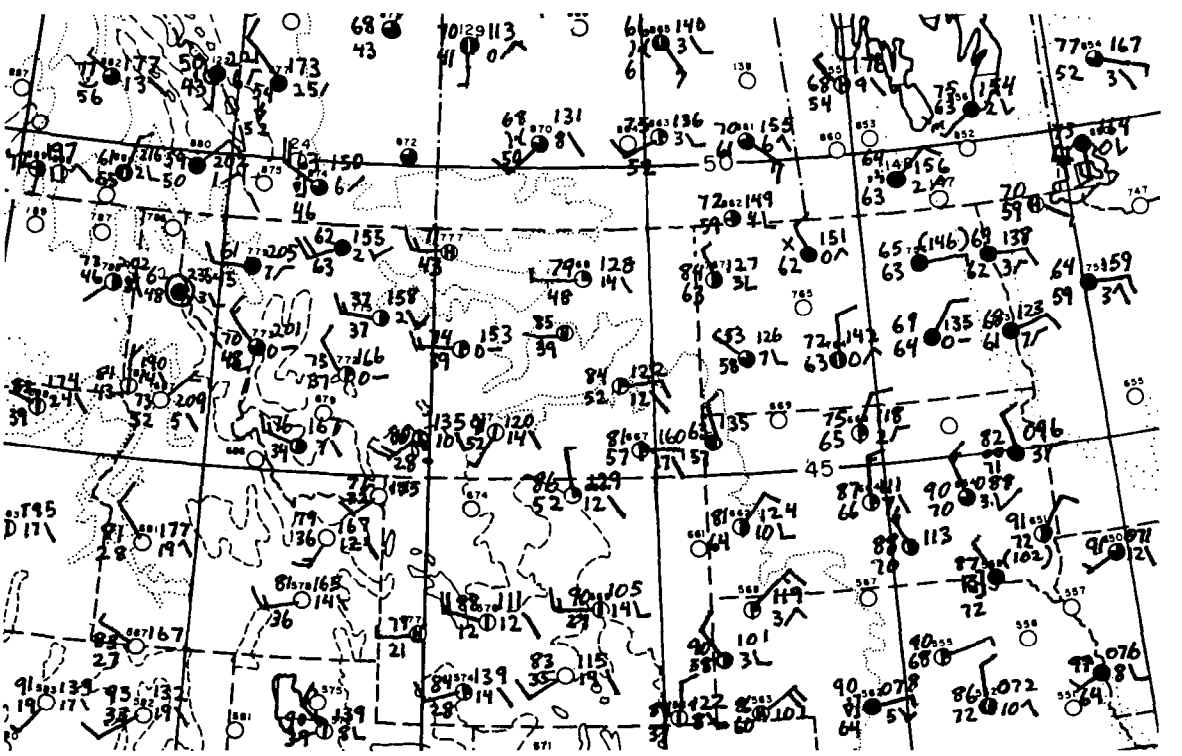

Fig. 4b. Surface Map Data for 0000 GMT 15 July 1981.

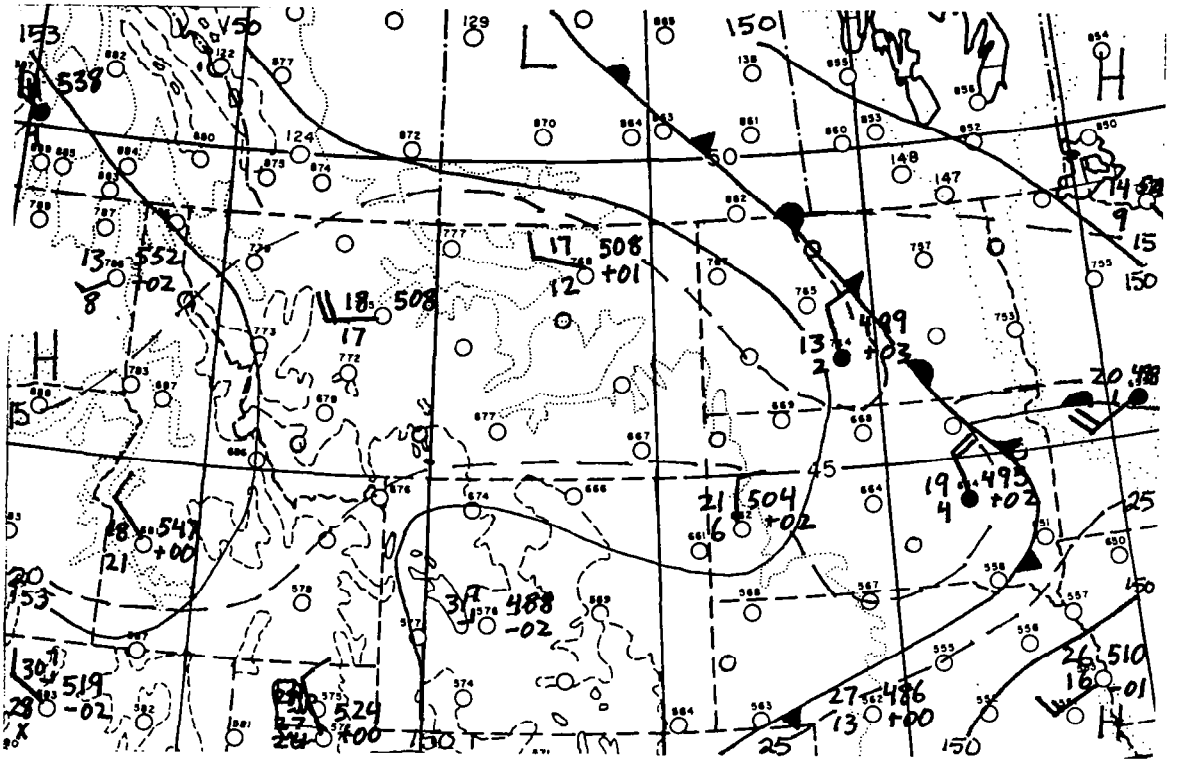

Fig. 4c. 850 mb Map for 0000 GMT 15 July 1981.

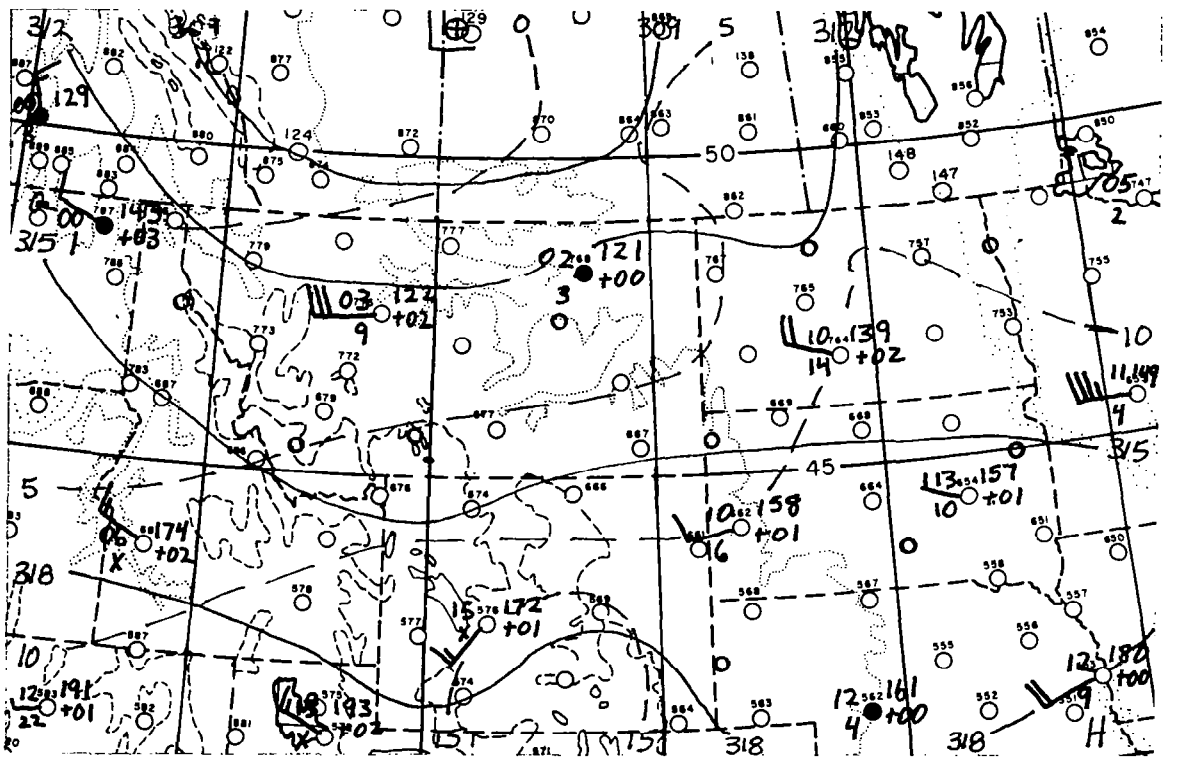

Fig. 4d. 700 mb Map for 0000 GMT 15 July 1981.

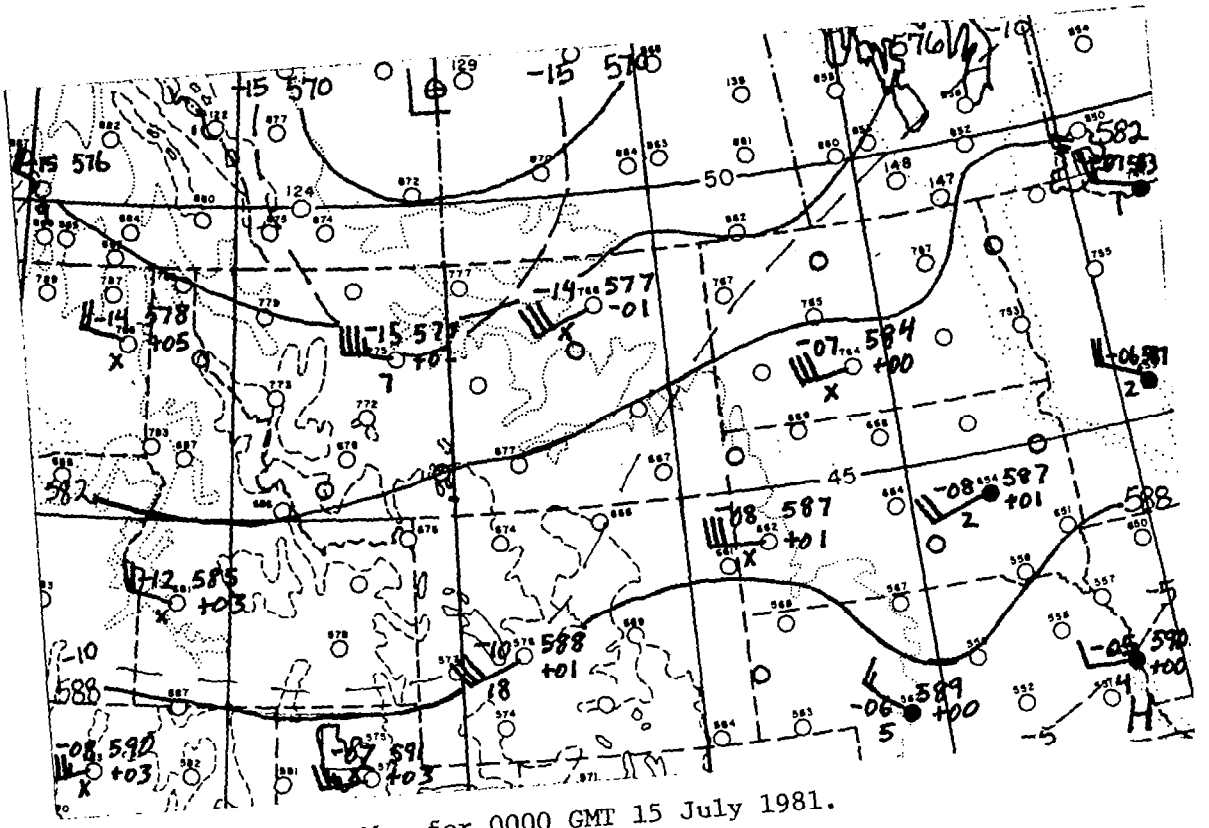

Fig. 4e. 500 mb Map for 0000 GMT 15 July 1981.

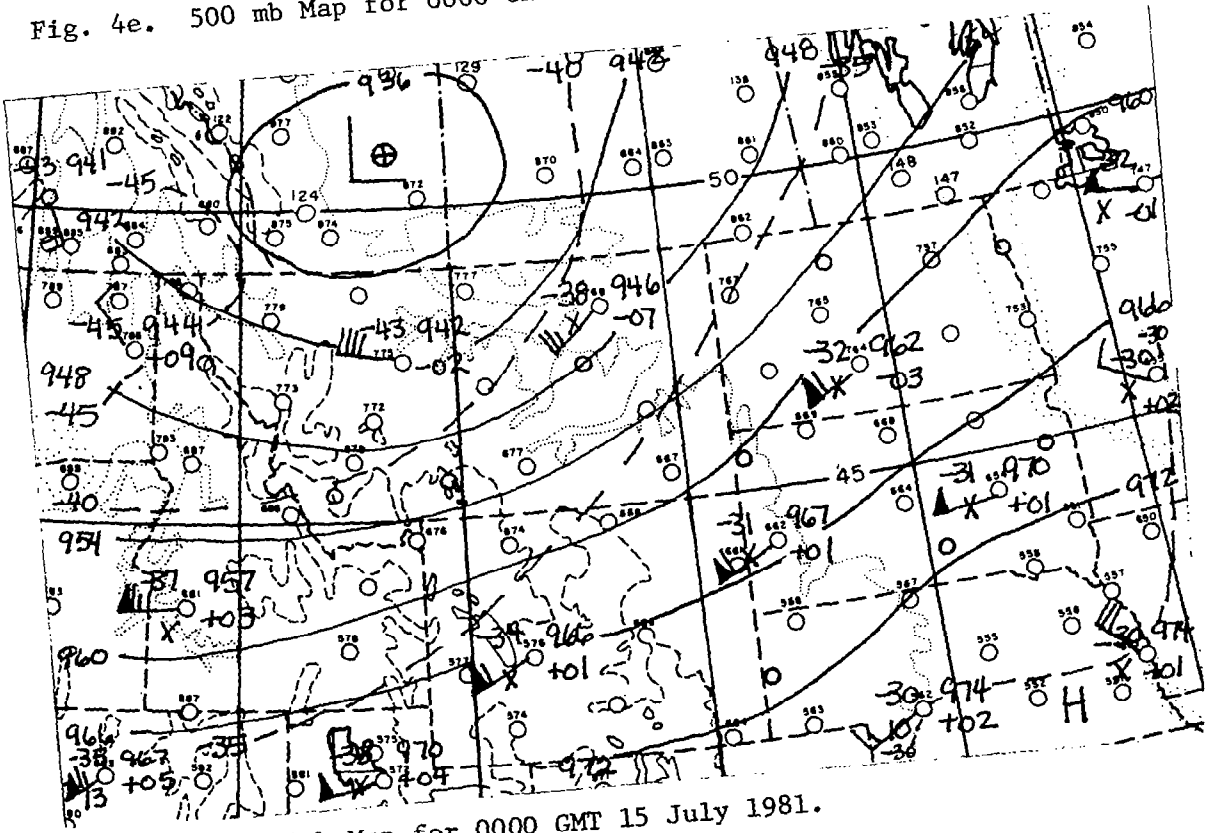

Fig. 4f. 300mb Map for 0000 GMT 15 July 1981.

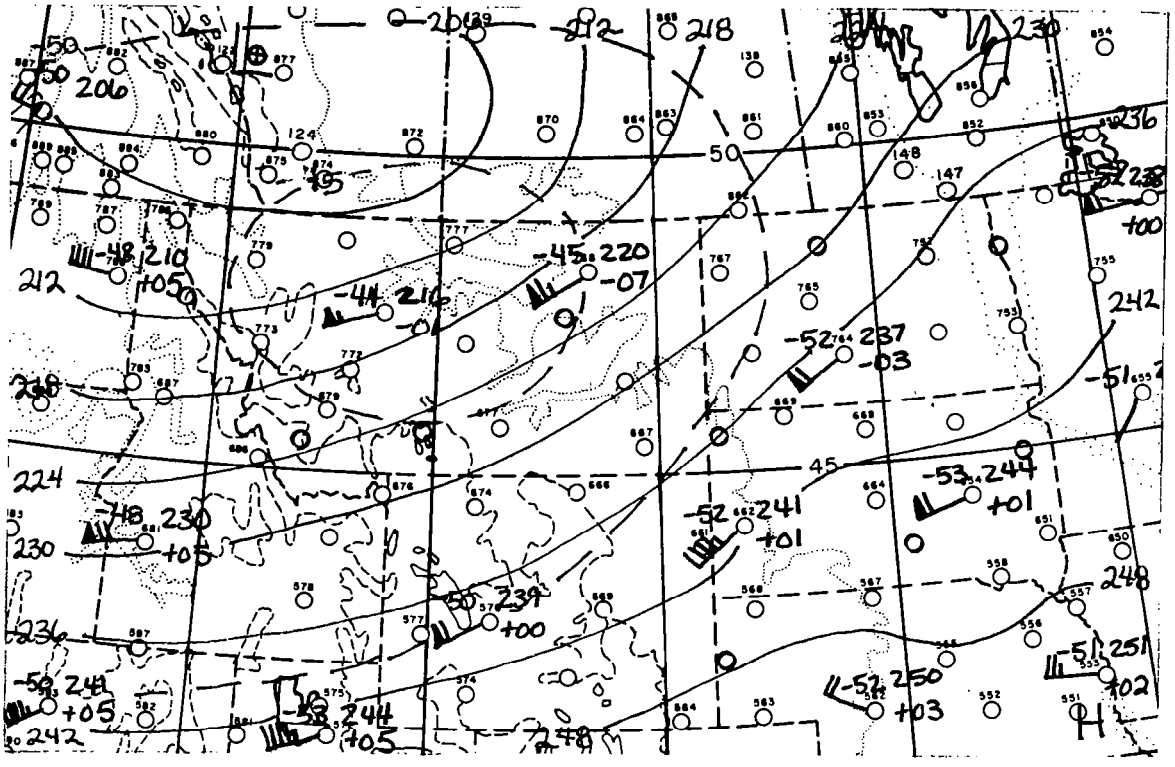

Fig. 4g. 200 mb Map for 0000 GMT 15 July 1981.

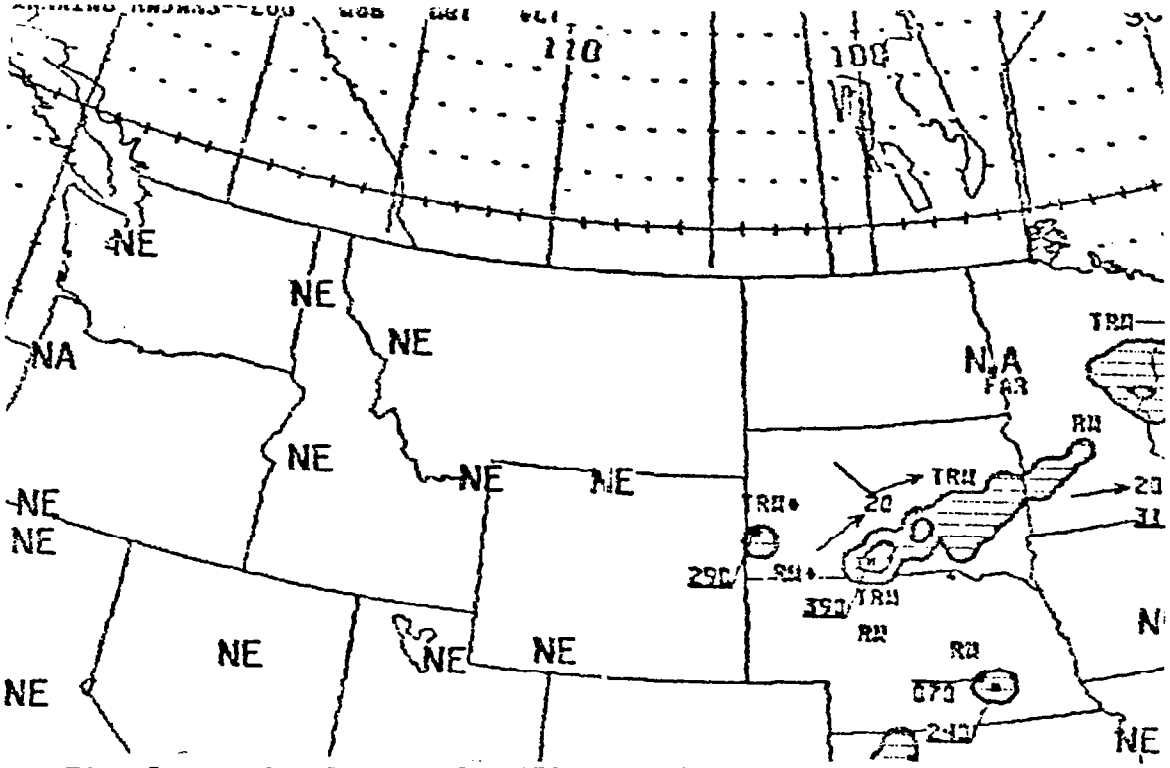

Fig. 5a. Radar Summary for 1735 GMT 14 July 1981.

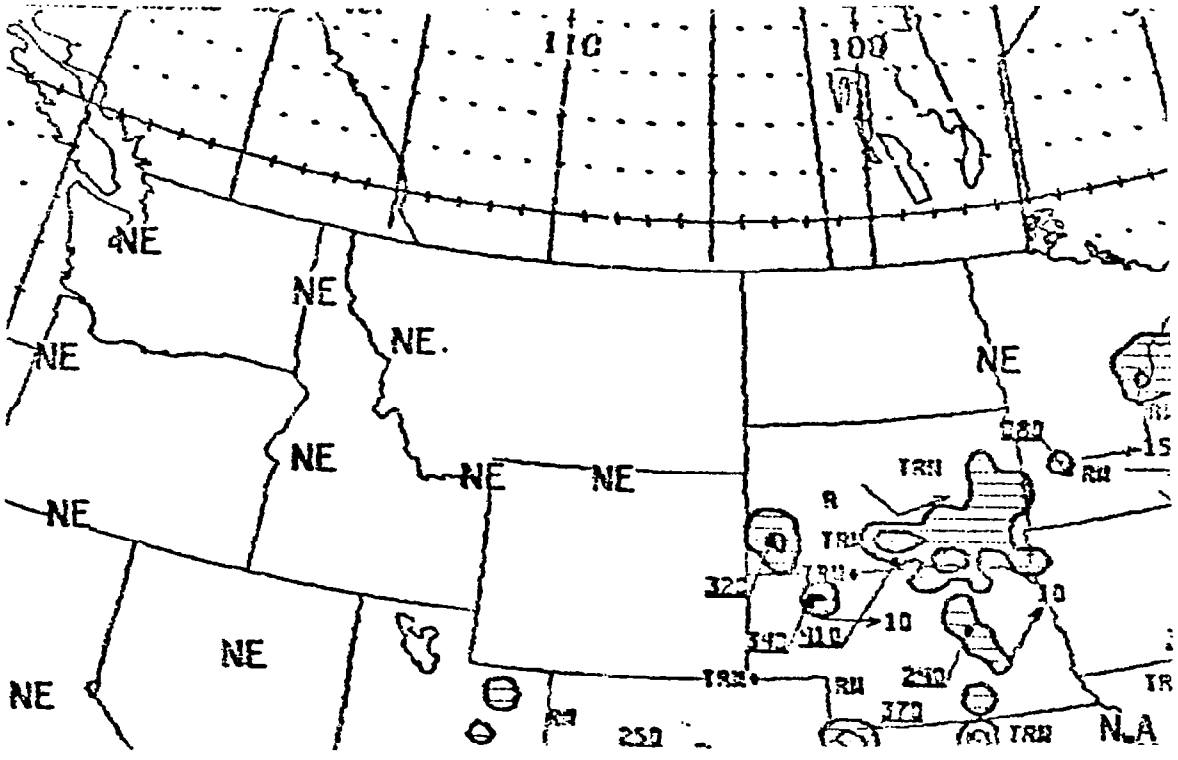

Fig. 5b. Radar Summary for 1935 GMT 14 July 1981.

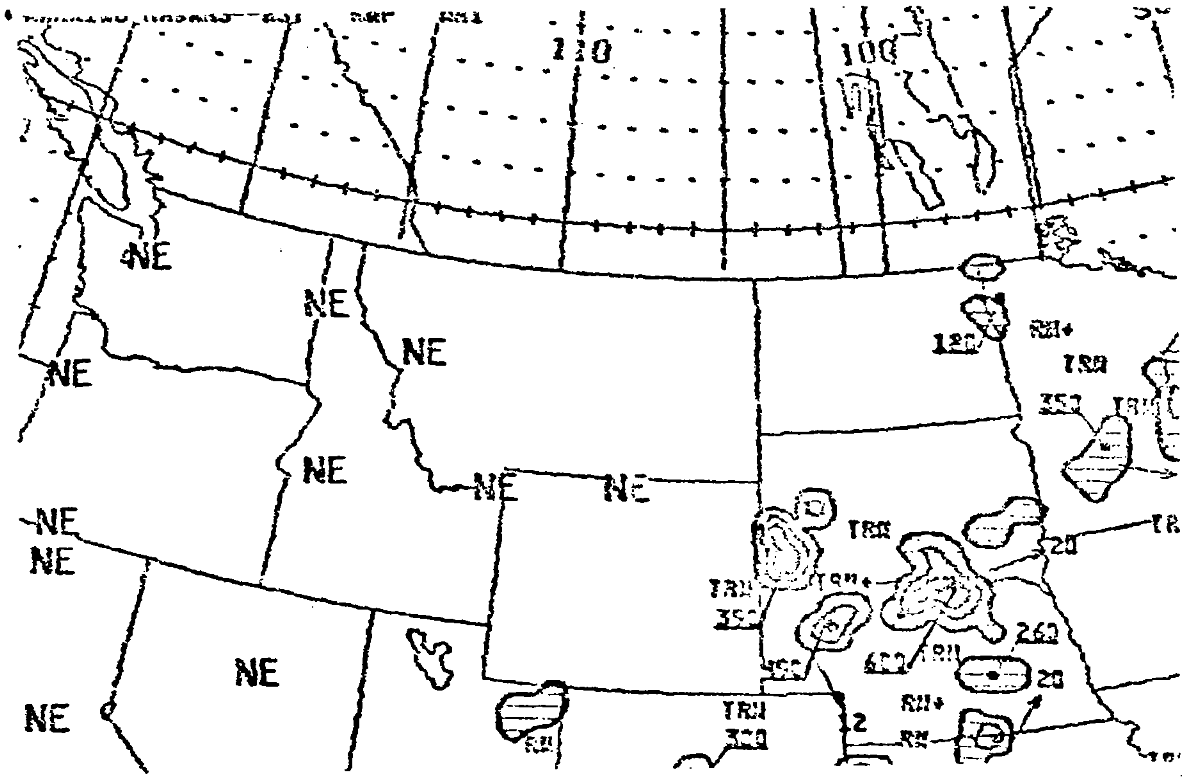

Fig. 5c. Radar Summary for 2035 GMT 14 July 1981.

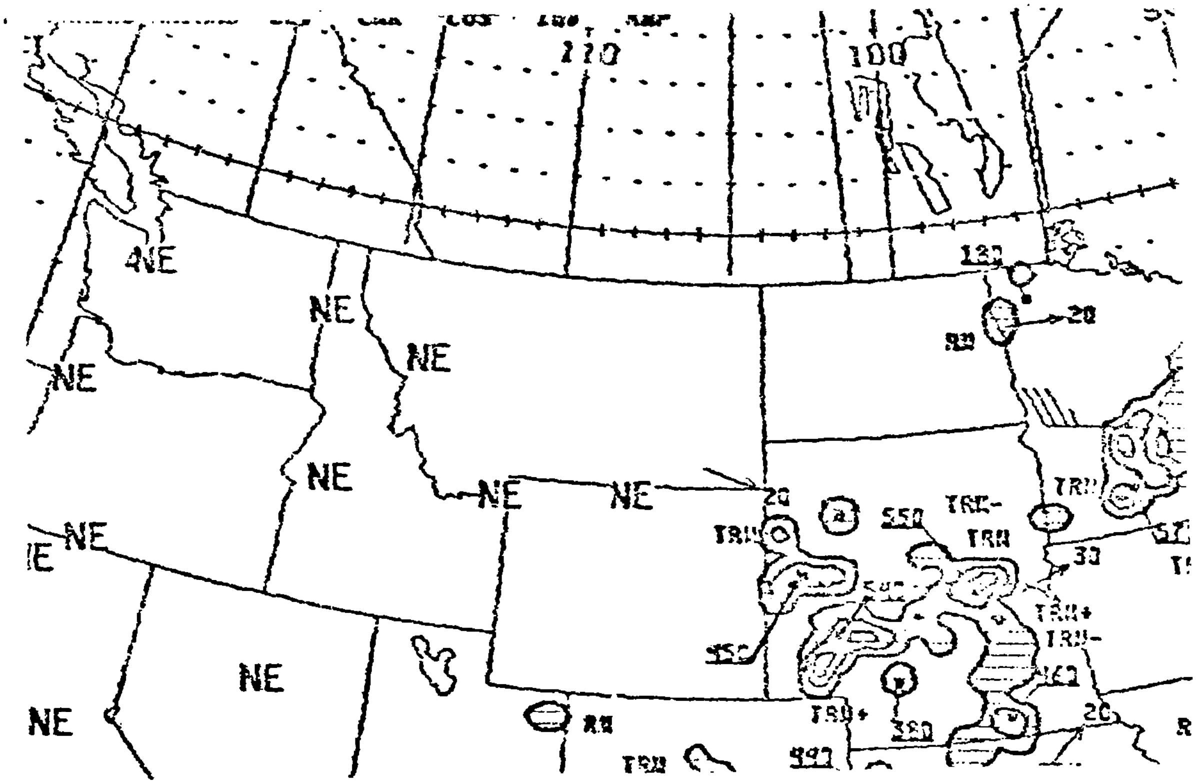

Fig. 5d. Radar Summary for 2135 GMT 14 July 1981.

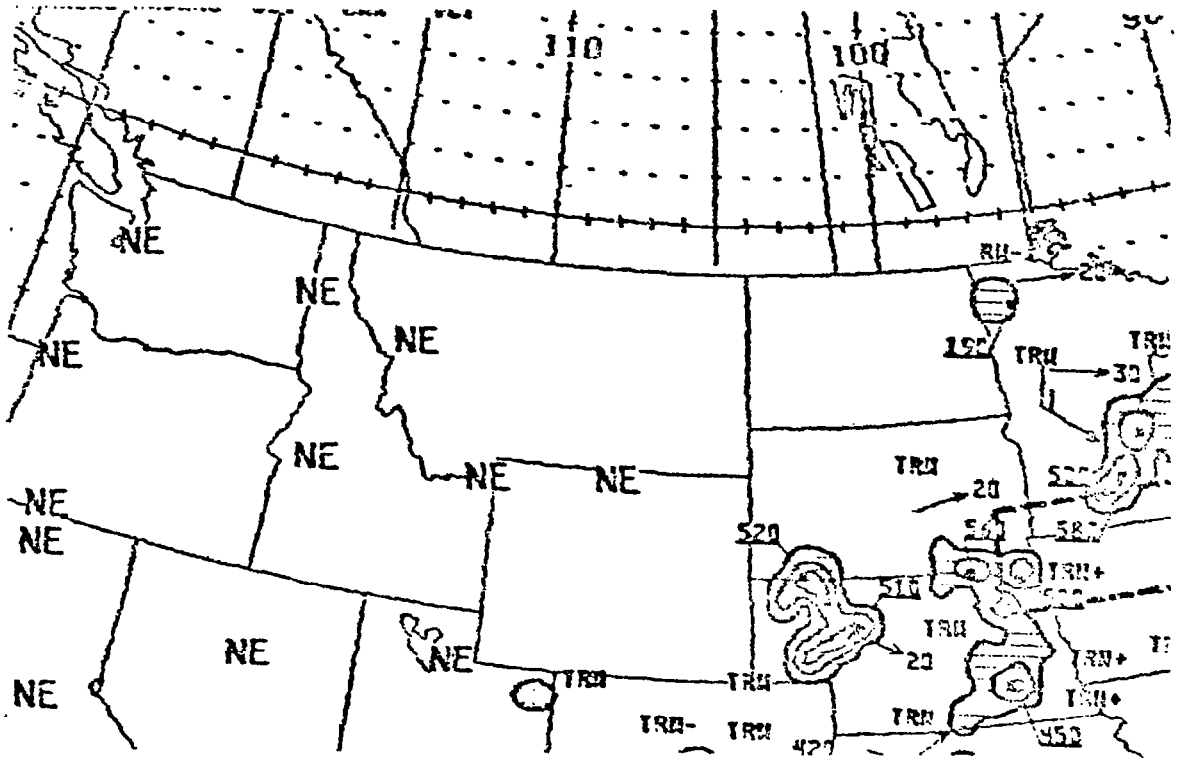

Fig. 5e. Radar Summary for 2235 GMT 14 July 1981.

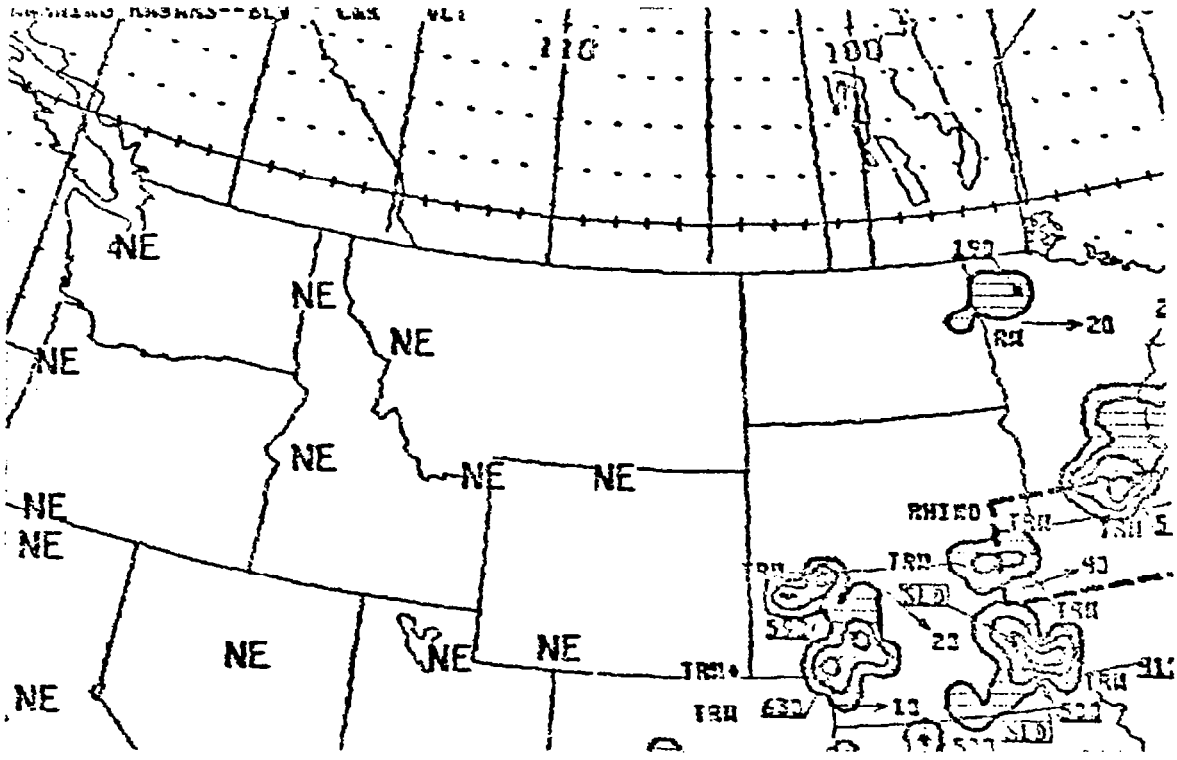

Fig. 5f. Radar Summary for 2335 GMT 14 July 1981.

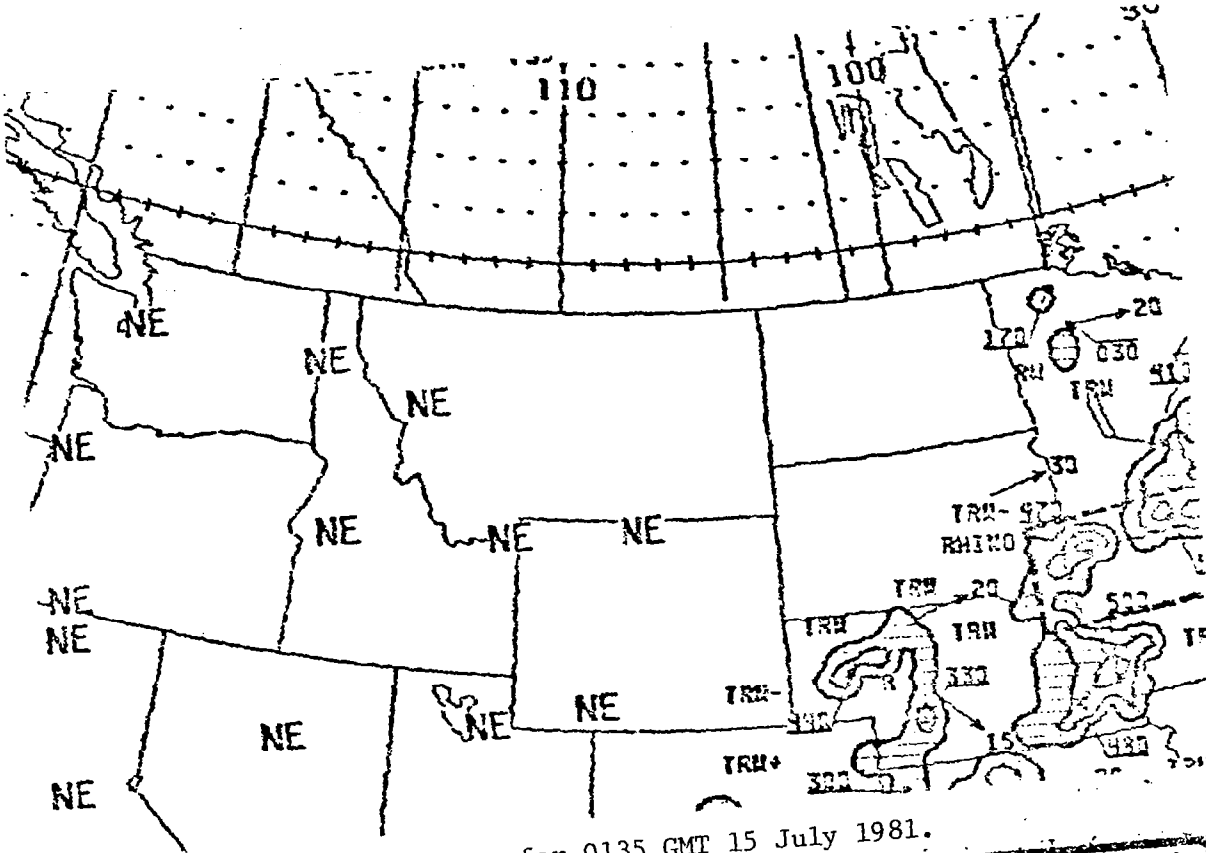

Fig. 5g. Radar Summary for 0135 GMT 15 July 1981.

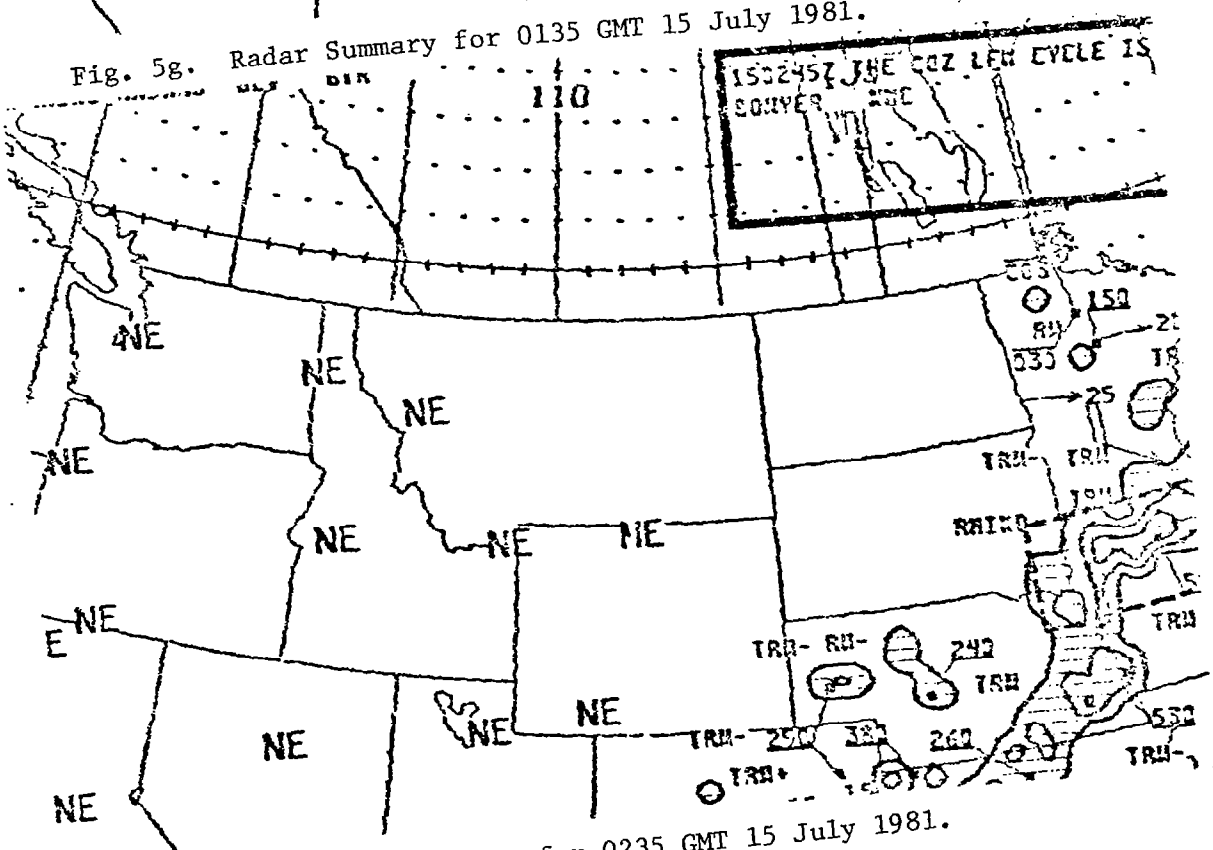

Fig. 5h. Radar Summary for 0235 GMT 15 July 1981.

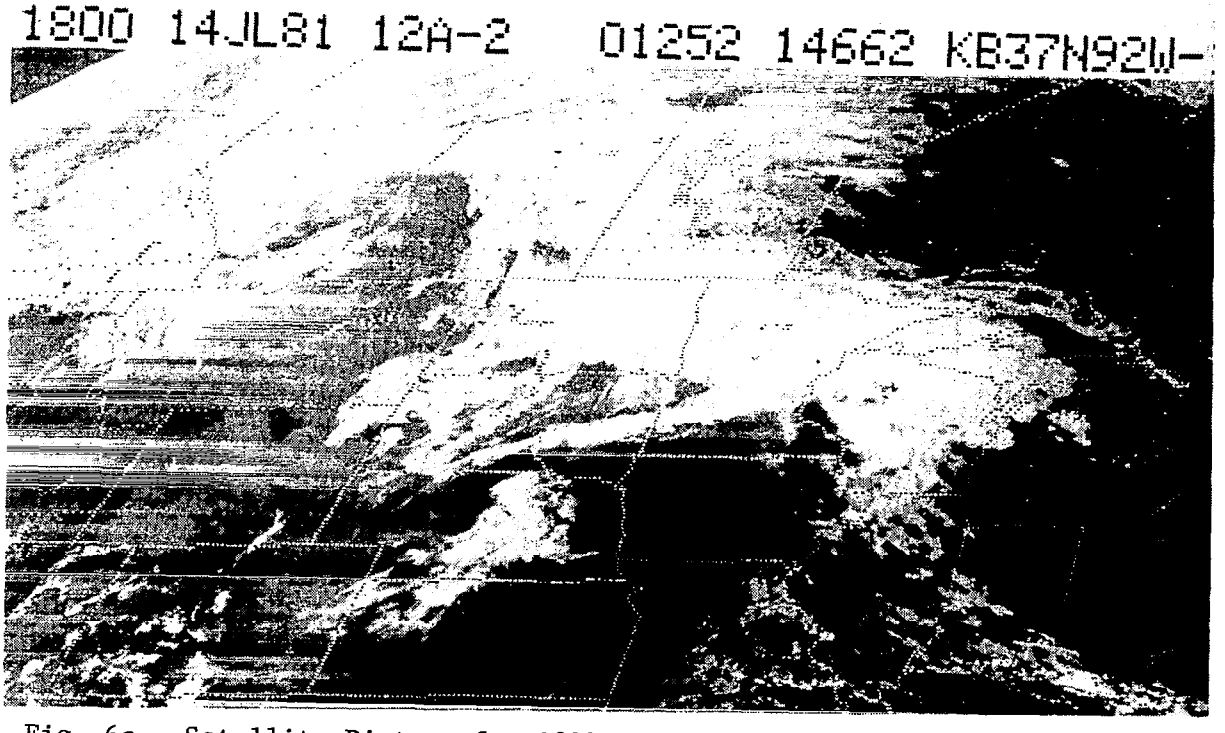

Fig. 6a. Satellite Picture for 1800 GMT 14 July 1981.

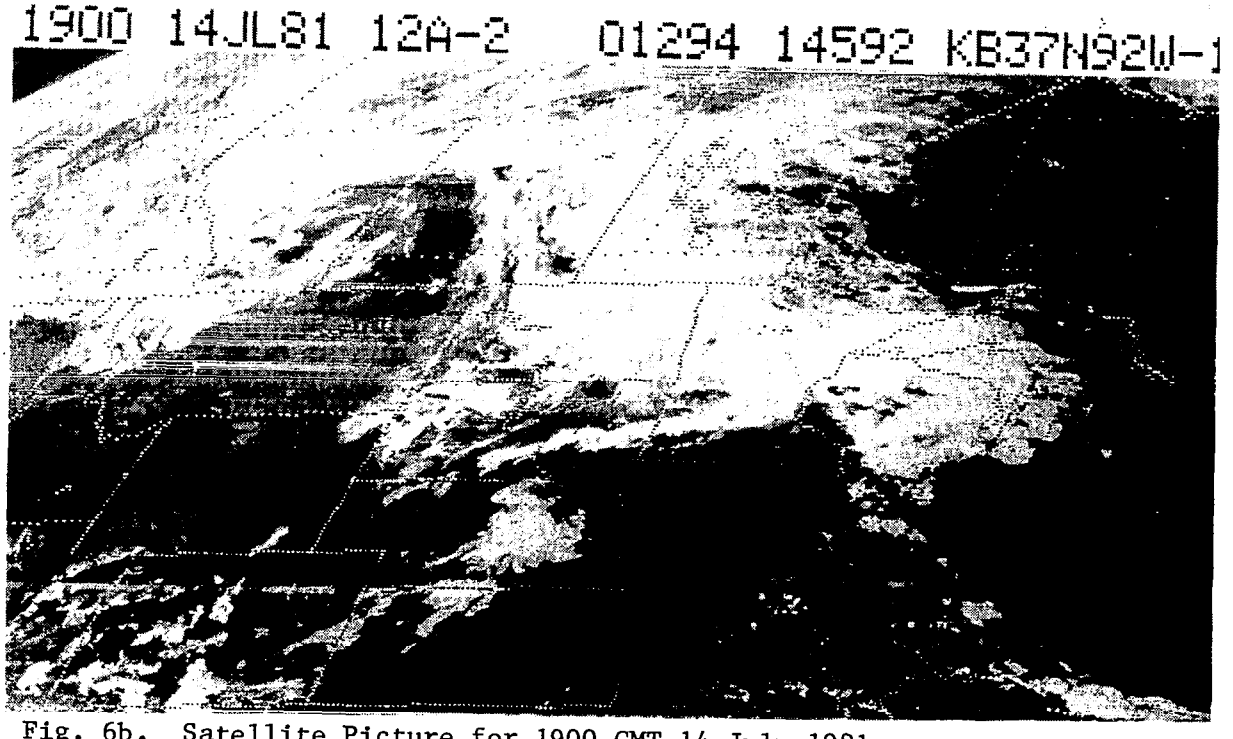

Fig. 6b. Satellite Picture for 1900 GMT 14 July 1981.

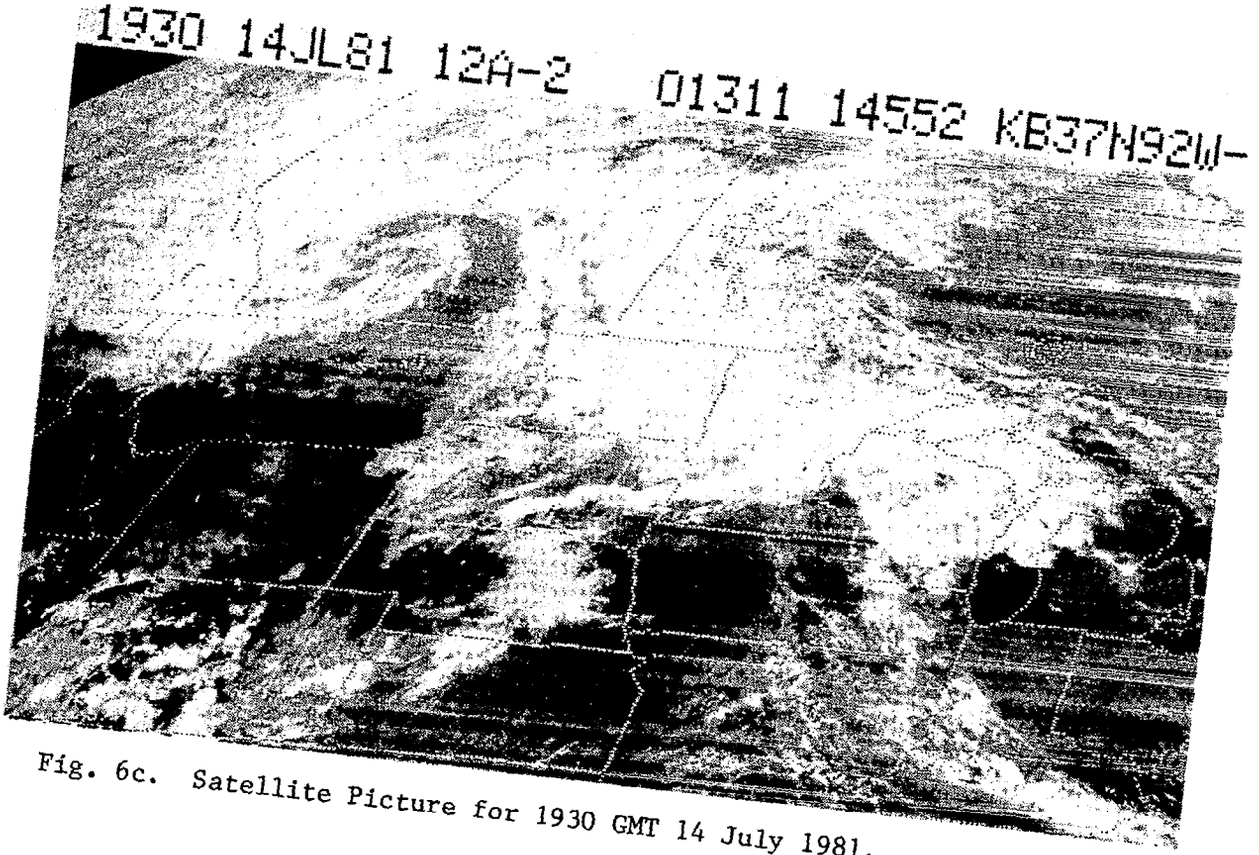

Fig. 6c. Satellite Picture for 1930 GMT 14 July 1981.

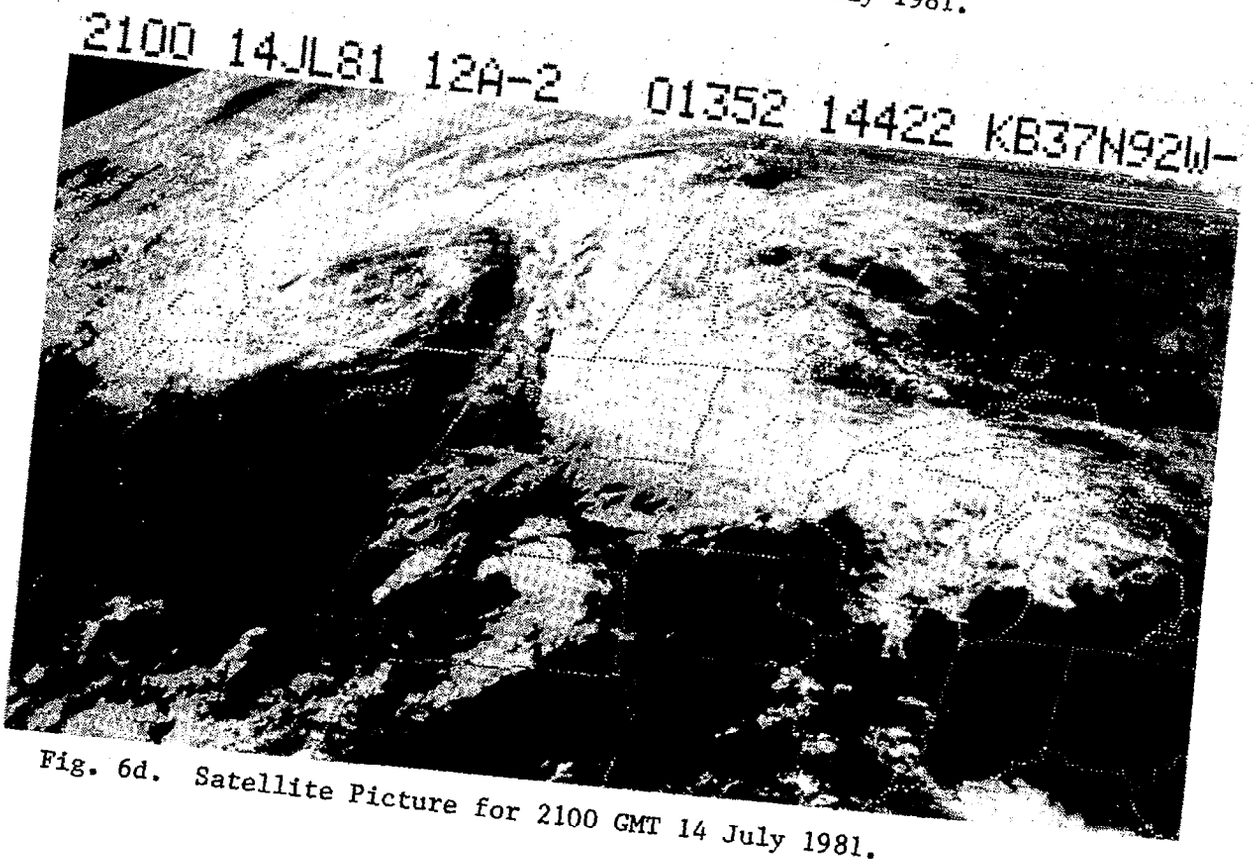

Fig. 6d. Satellite Picture for 2100 GMT 14 July 1981.

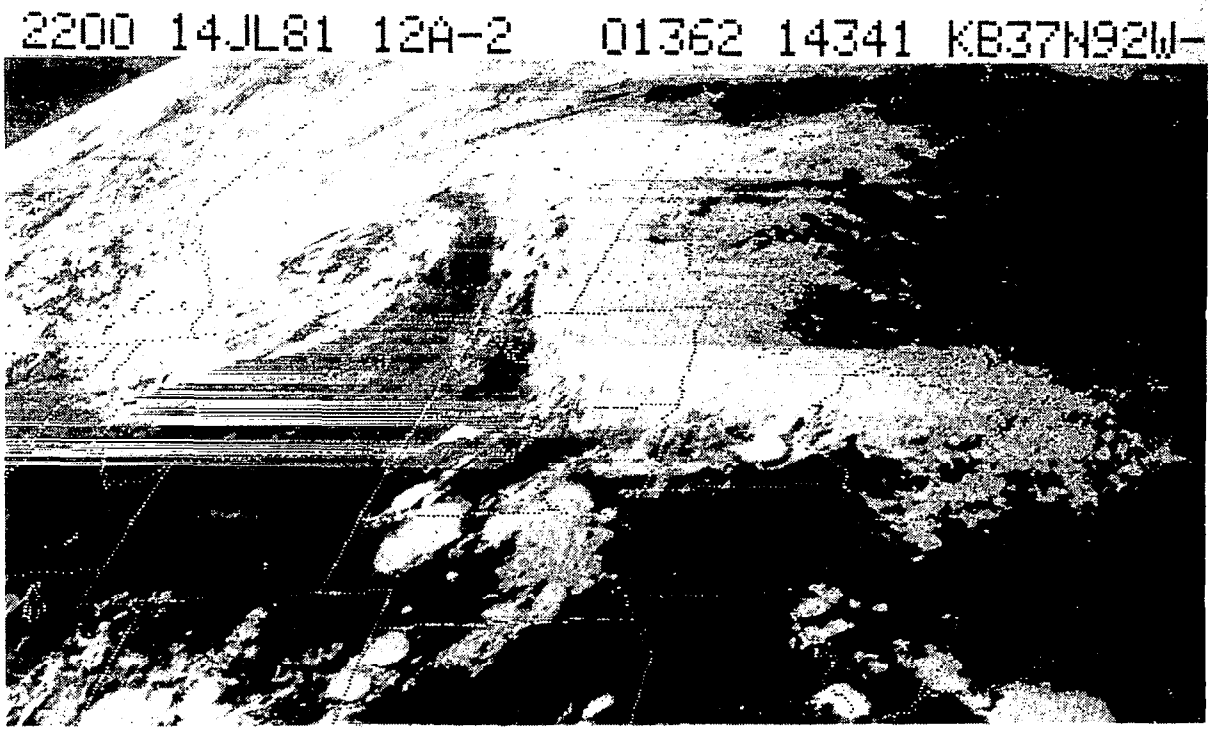

Fig. 6e. Satellite Picture for 2200 GMT 14 July 1981.

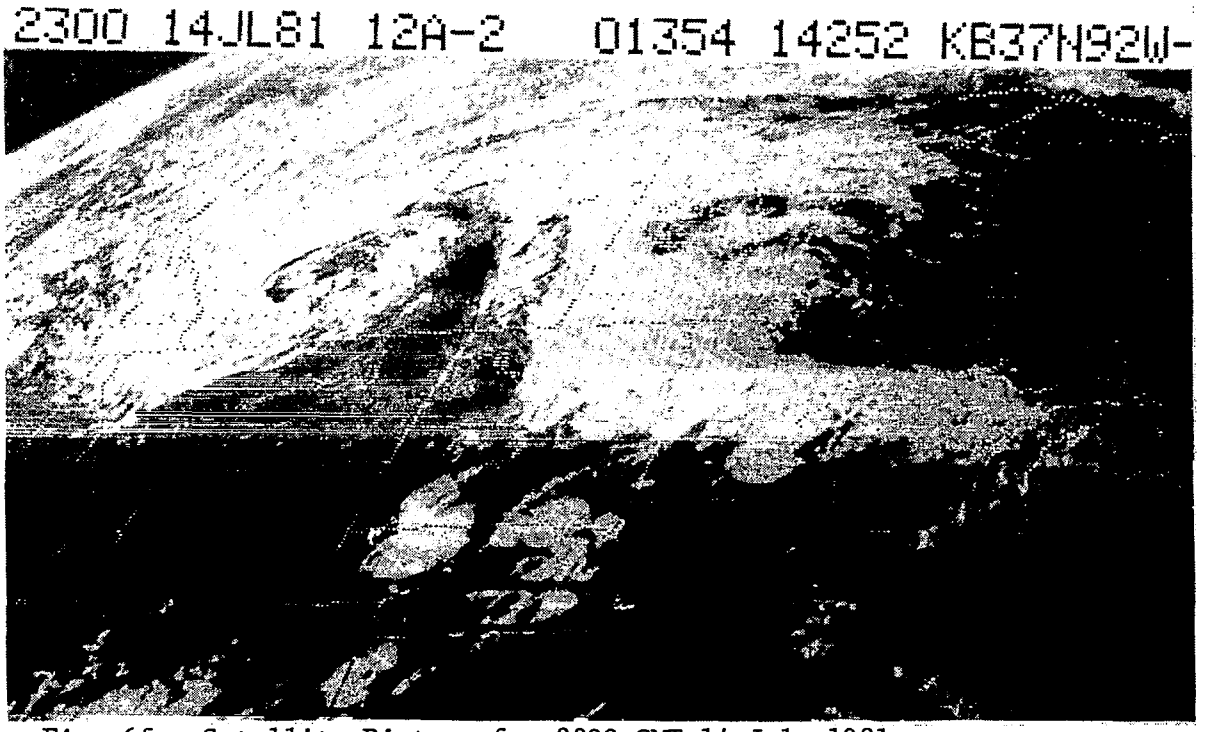

Fig. 6f. Satellite Picture for 2300 GMT 14 July 1981.

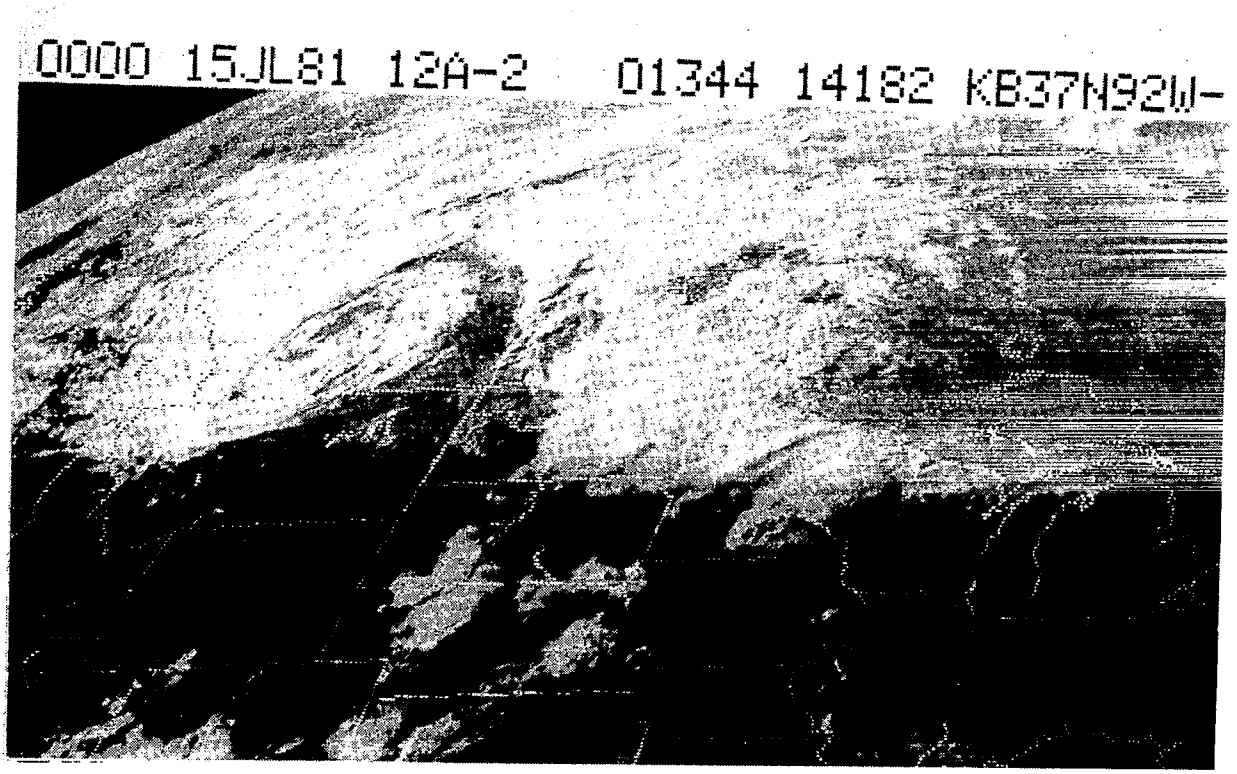

Fig. 6g. Satellite Picture for 0000 GMT 15 July 1981.

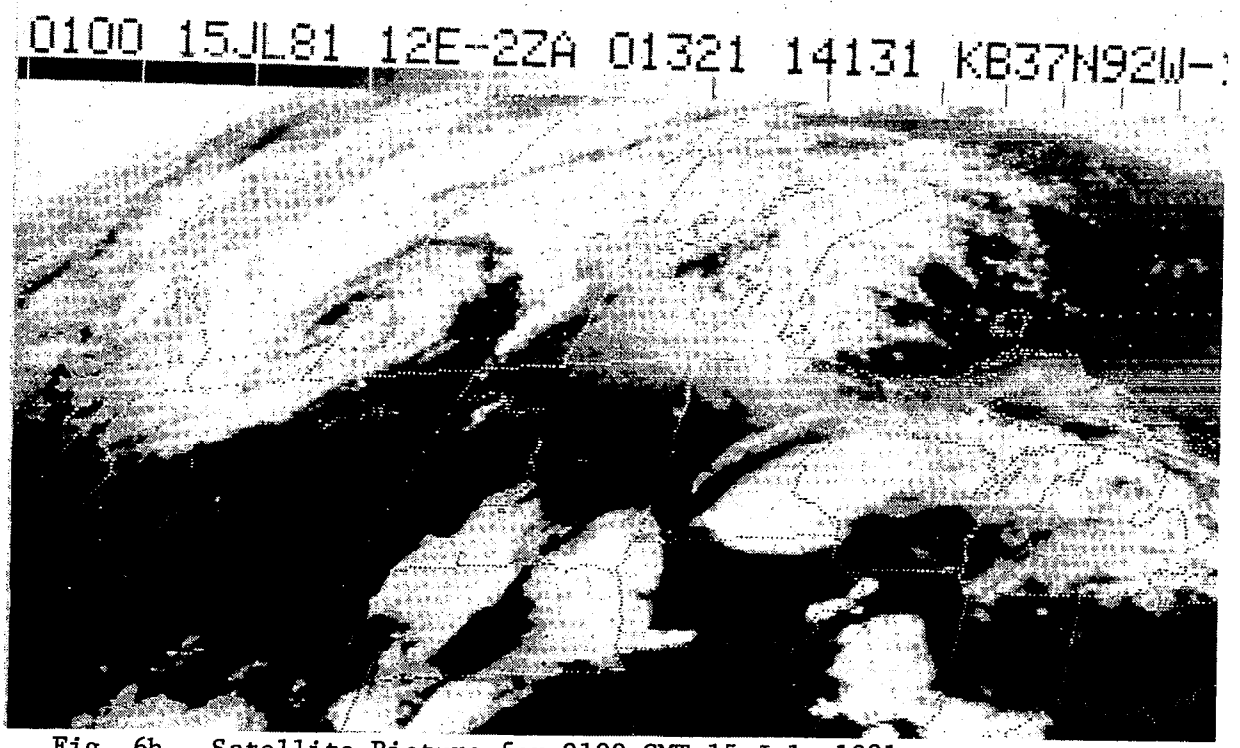

Fig. 6h. Satellite Picture for 0100 GMT 15 July 1981.

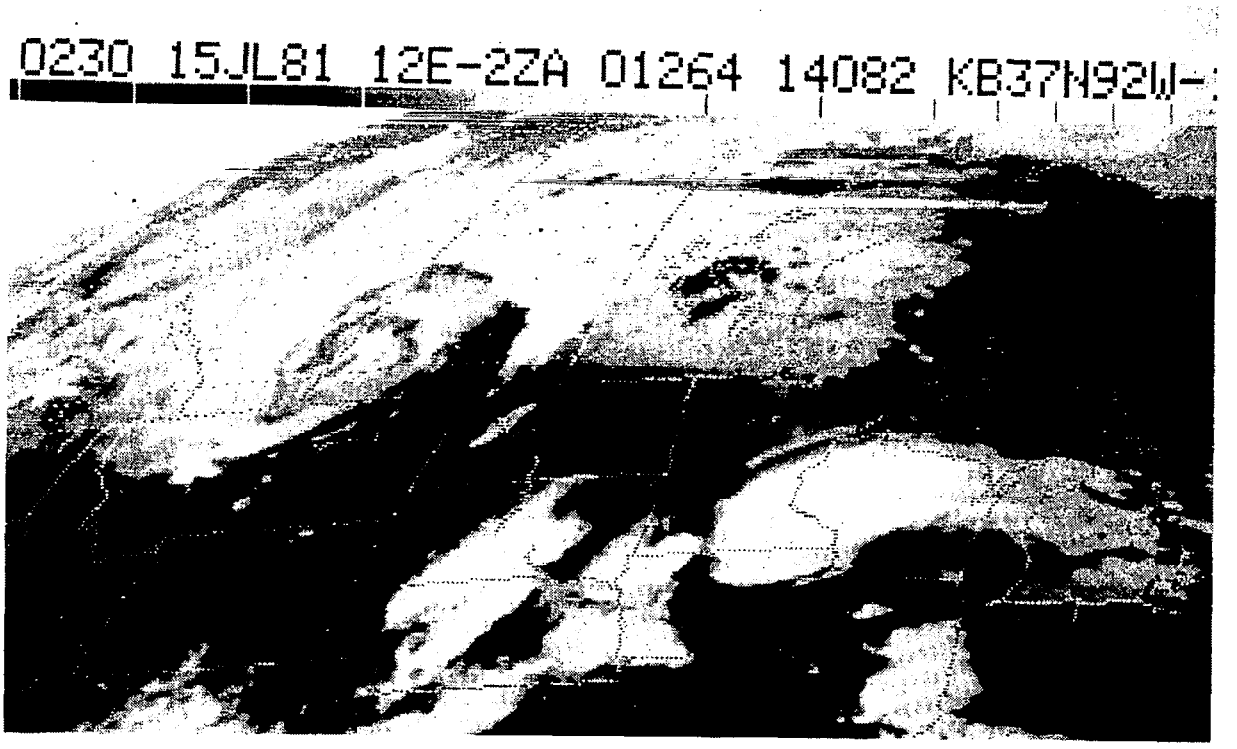

Fig. 6i. Satellite Picture for 0230 GMT 15 July 1981.

C. The Synoptic Situation for 1200 GMT 23 July to 0000 GMT 25 July 1981

This 36-h period is shown as Fig. 7. At 231200 GMT a cold front was entering the northwest corner of Montana. Some light showers were occurring in North Dakota and fog under the high to the east. A warm low was in the south and extended northwest along the east slopes of the Rockies. Aloft the flow was zonal with almost neutral advection. Two troughs were over the area. The radar summaries (Fig. 8) show thunderstorms developing during the day.

By 240000 GMT, the front had moved southward, Fig. 10a, and thunderstorms were reported by surface synoptic stations. The warm core low intensified because of the surface heating during the day. Aloft the eastern trough was at the eastern edge of the map and the other trough had developed more cyclonic curvature.

The 1200 GMT 24 July synoptic maps, Fig. 11, indicate the front was moving southeastward and had passed the meso-net area. The thunderstorms were still ahead of the front and some rainfall is occurring under the high in the northwest. The cold air advection at the 850-mb level (Fig. 11c) indicates that the cold front was fairly strong. At both 700 and 500 mb the cold advection continued. The trough that was in the west had moved to about the center of the area.

By 0000 GMT 25 July the cold front had crossed most of the area (Fig. 12). Some thunderstorms had formed behind the front. The isotherm pattern on the 850 mb map, Fig. 12c, supports the front very well. The 500-, 300-, and 200 mb maps, Figs. 12e, f, and g, all show the confluence of a split jet with the trough in the northern jet being about 105^{o}W and the southern jet joining from the southwest and its trough was just west of the area shown on the map. The radar summaries for this time period show thunderstorms along the southern-most portions of the front, Fig. 13. The thunderstorms increased in area and intensity by the end of the period. A severe weather "box" was issued for the area just to the east of the front. The severe weather forecast area is shown in Figs. 13c, d, e, and f. The satellite picture, Fig. 14, shows the thunderstorms developing in the Montana, Wyoming, Nebraska, and South Dakota areas. The meso-net area was cloudy most of the period and showers were in the area, if not over the net.

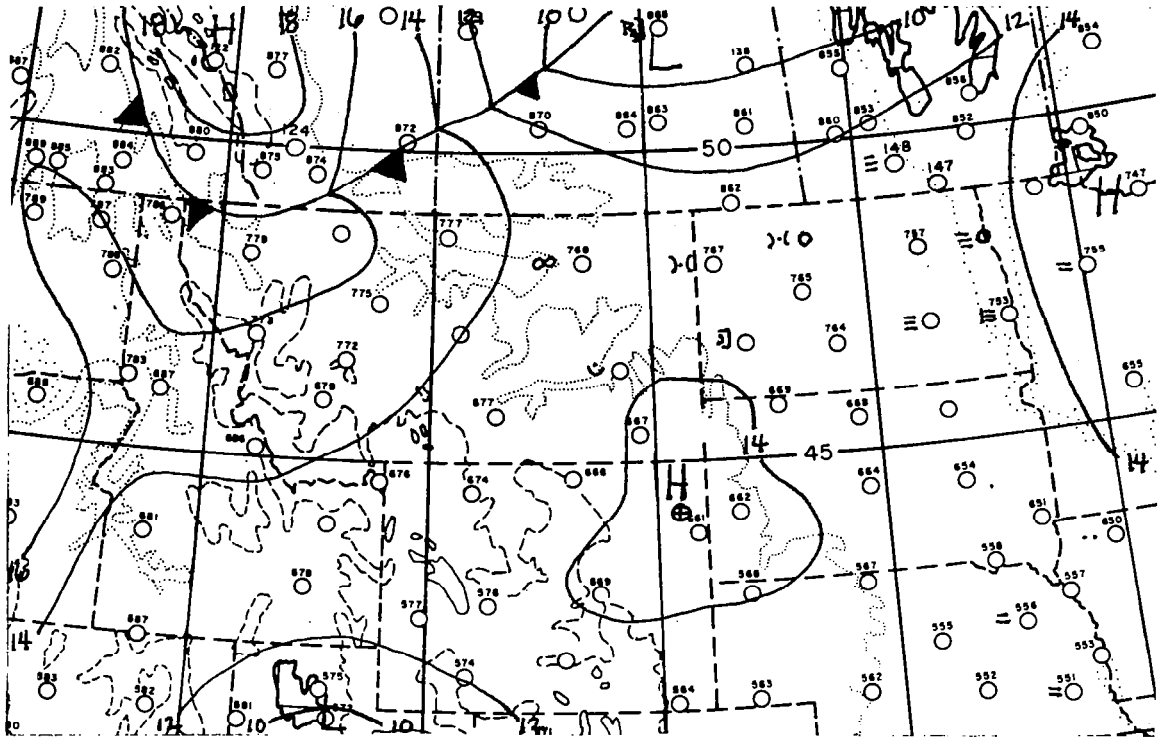

Fig. 7a. Surface Map Analysis and Weather for 1200 GMT 23 July 1981.

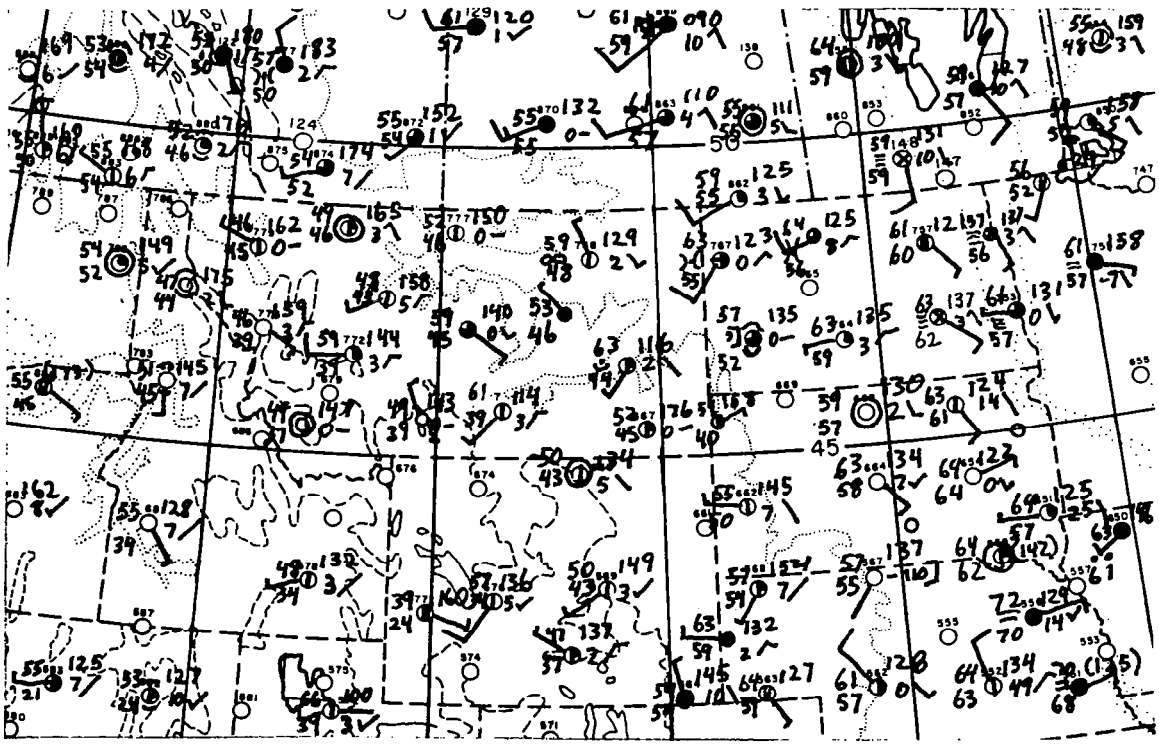

Fig. 7b. Surface Map Data for 1200 GMT 23 July 1981.

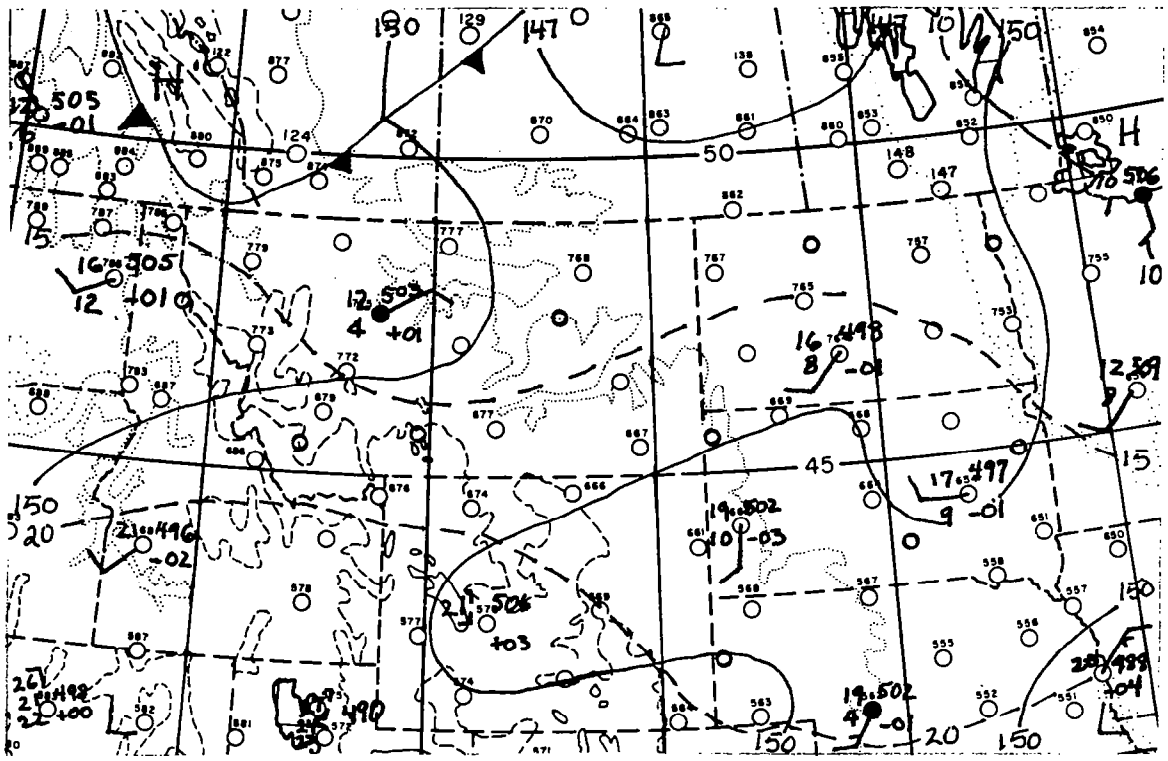

Fig. 7c. 850 mb Map for 1200 GMT 23 July 1981.

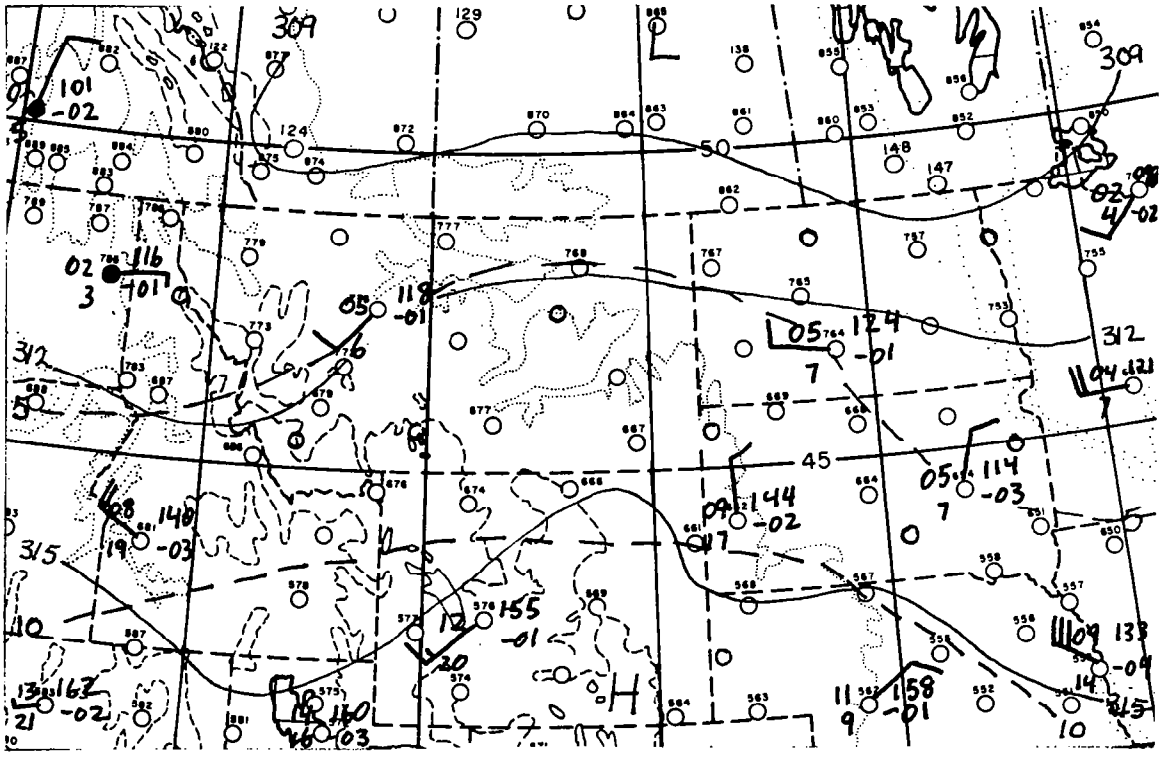

Fig. 7d. 700 mb Map for 1200 GMT 23 July 1981.

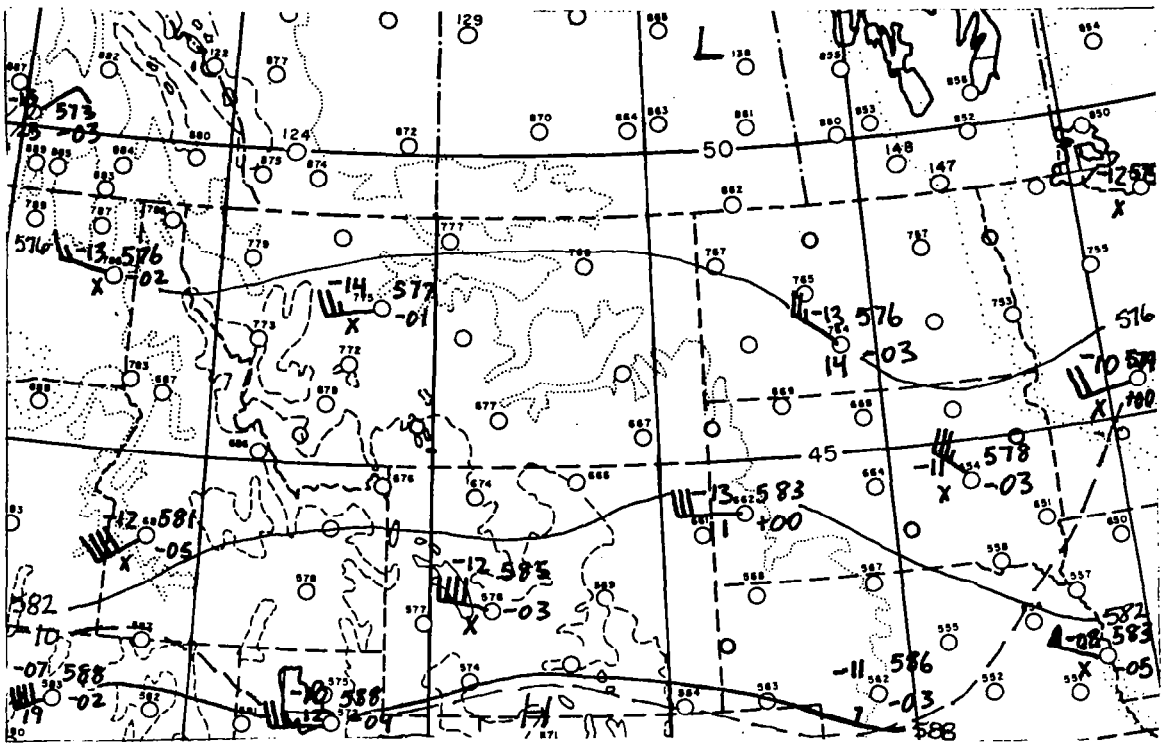

Fig. 7e. 500 mb Map for 1200 GMT 23 July 1981.

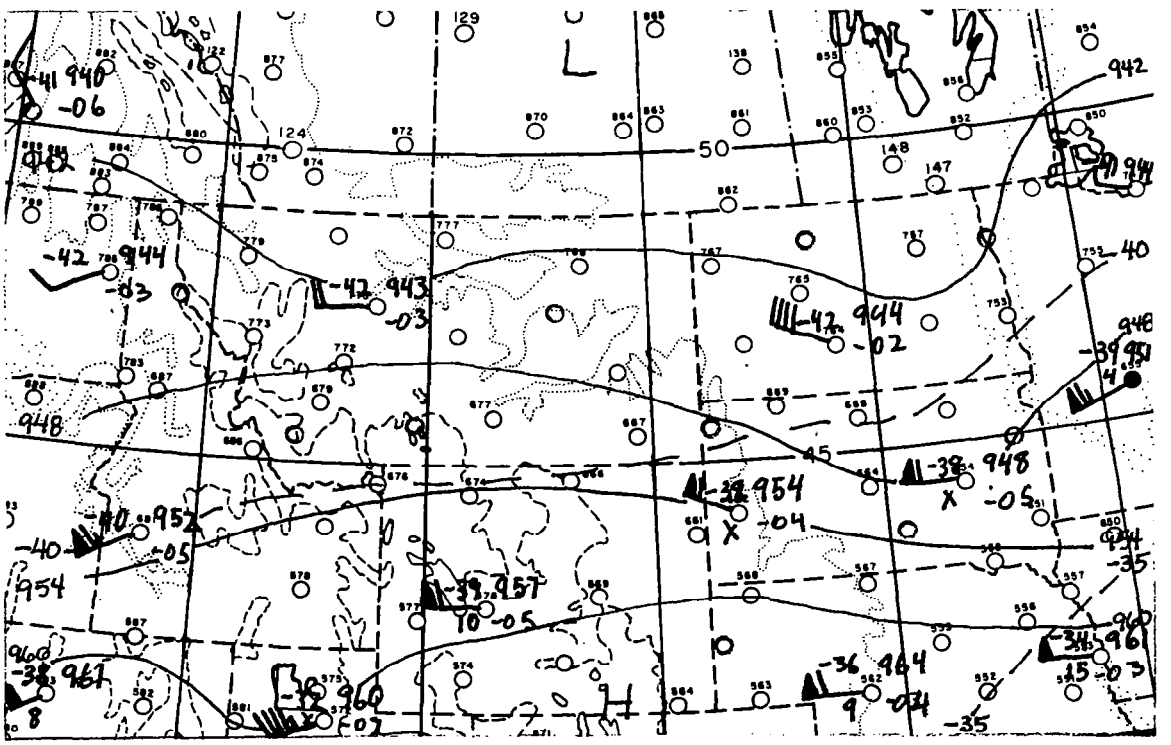

Fig. 7f. 300 mb Map for 1200 GMT 23 July 1981.

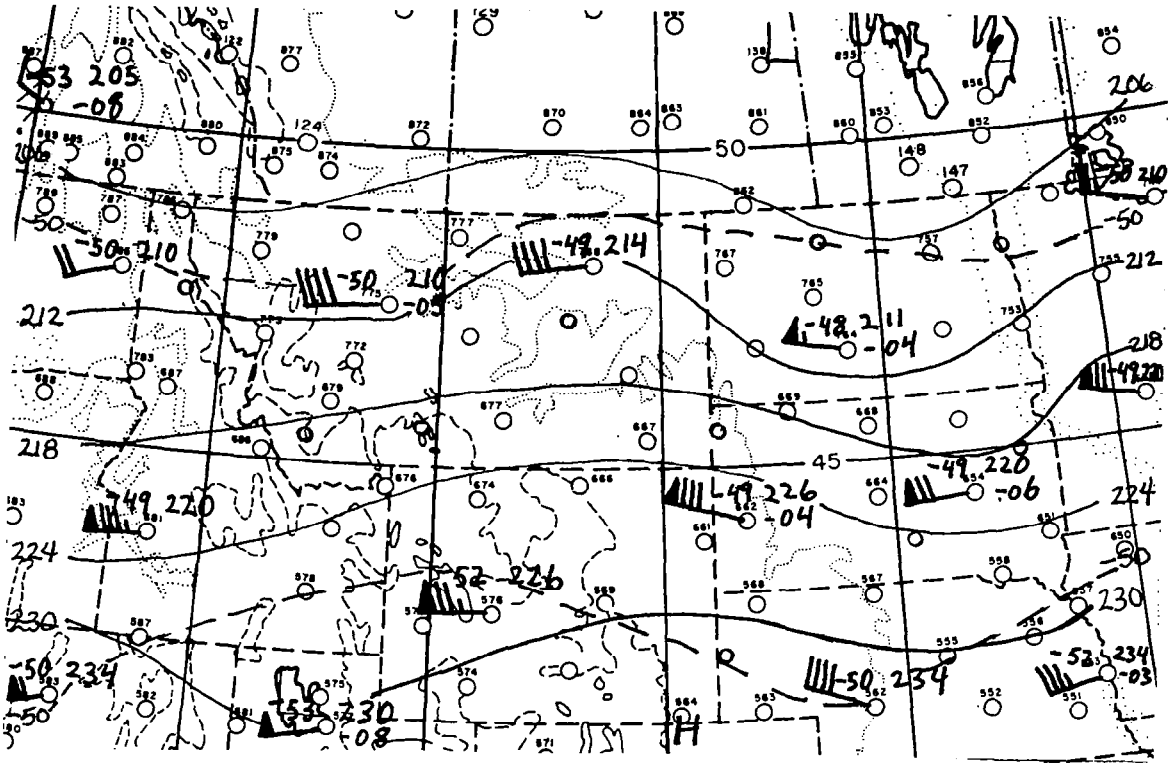

Fig. 7g. 200 mb Map for 1200 GMT 23 July 1981.

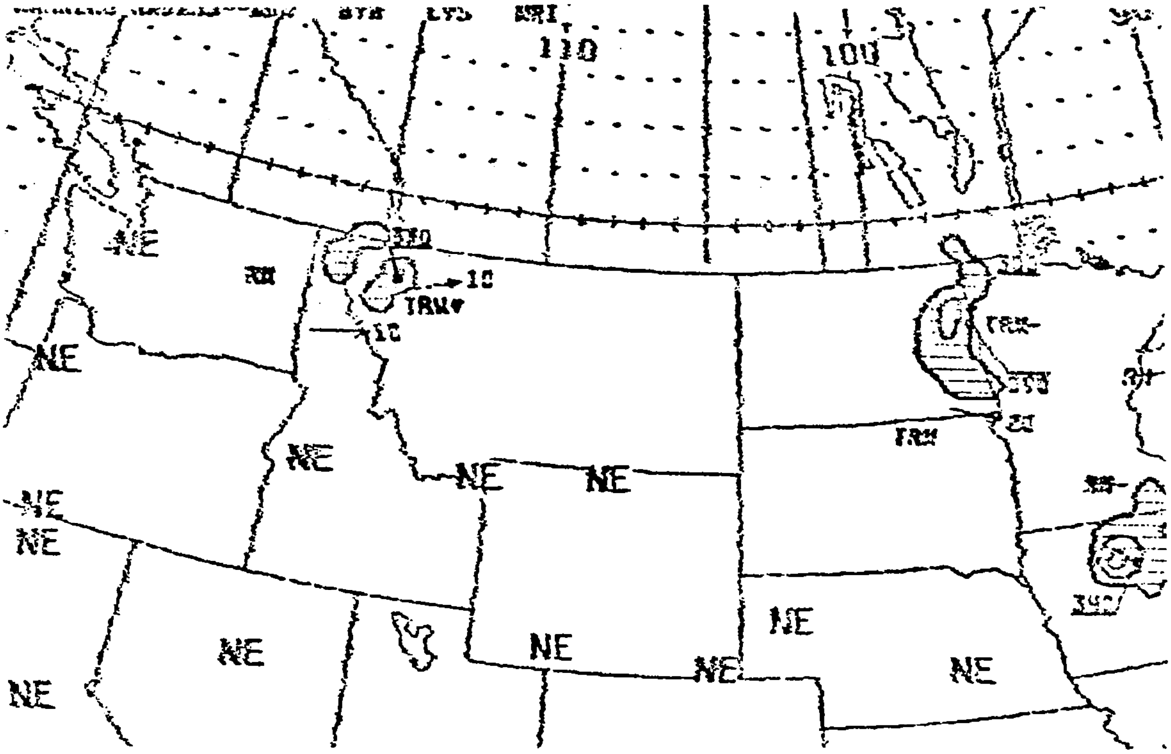

Fig. 8a. Radar Summary for 1735 GMT 23 July 1981.

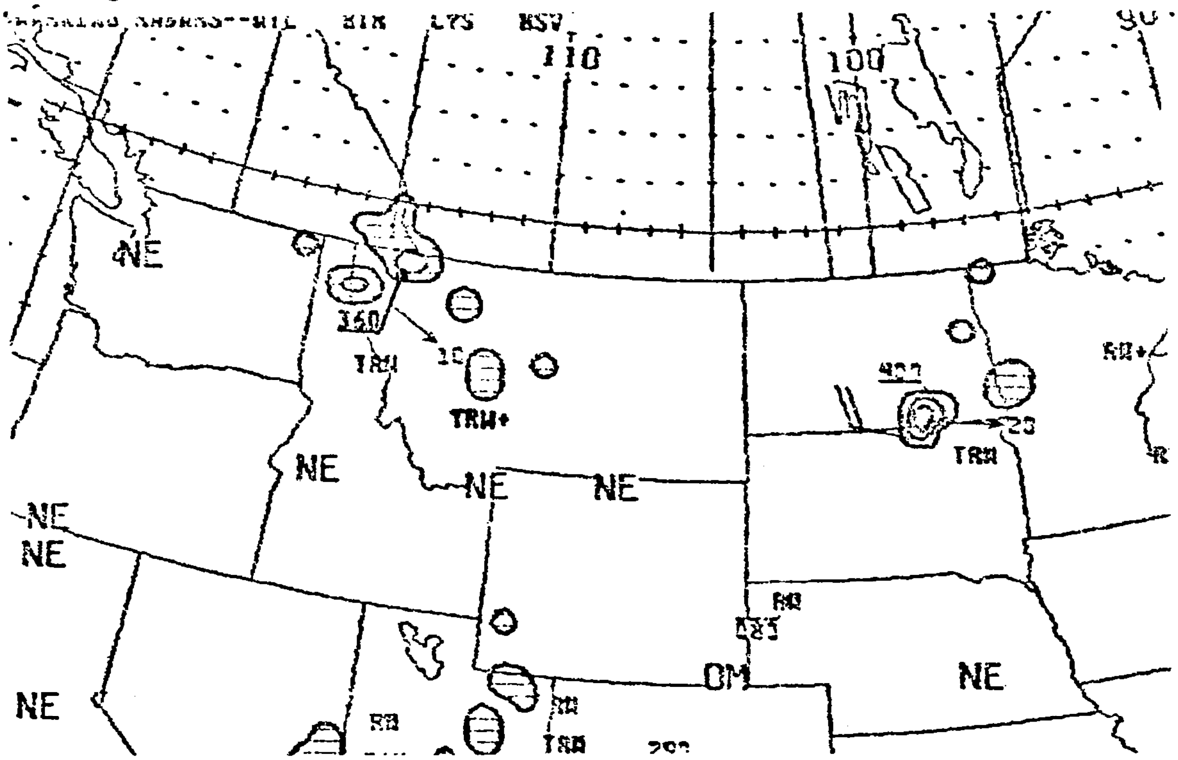

Fig. 8b. Radar Summary for 1935 GMT 23 July 1981.

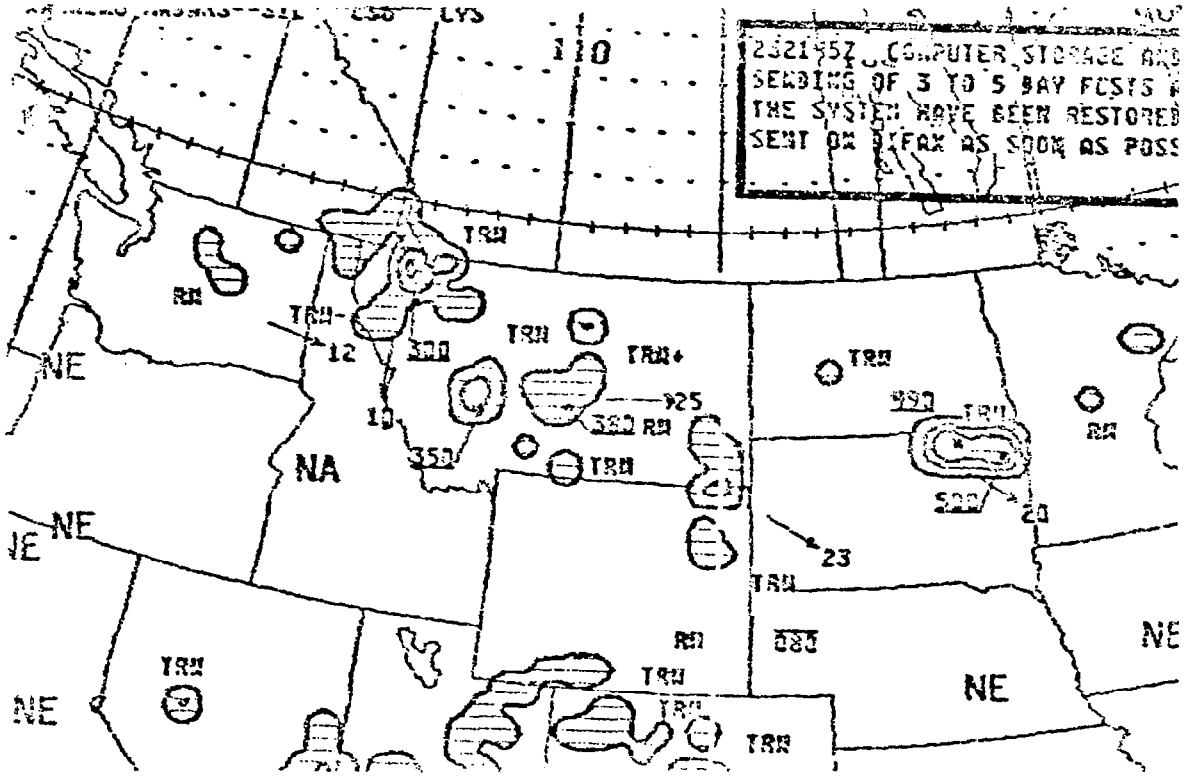

Fig. 8c. Radar Summary for 2135 GMT 23 July 1981.

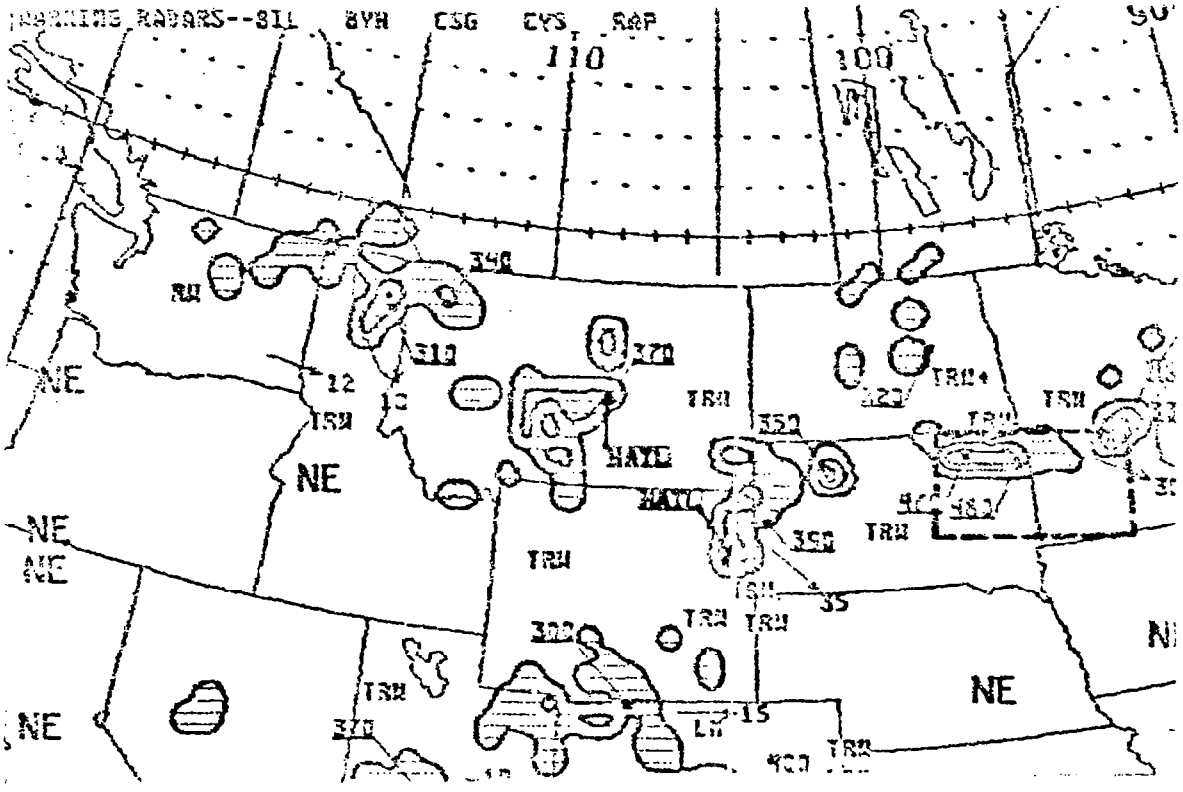

Fig. 8d. Radar Summary for 2235 GMT 23 July 1981.

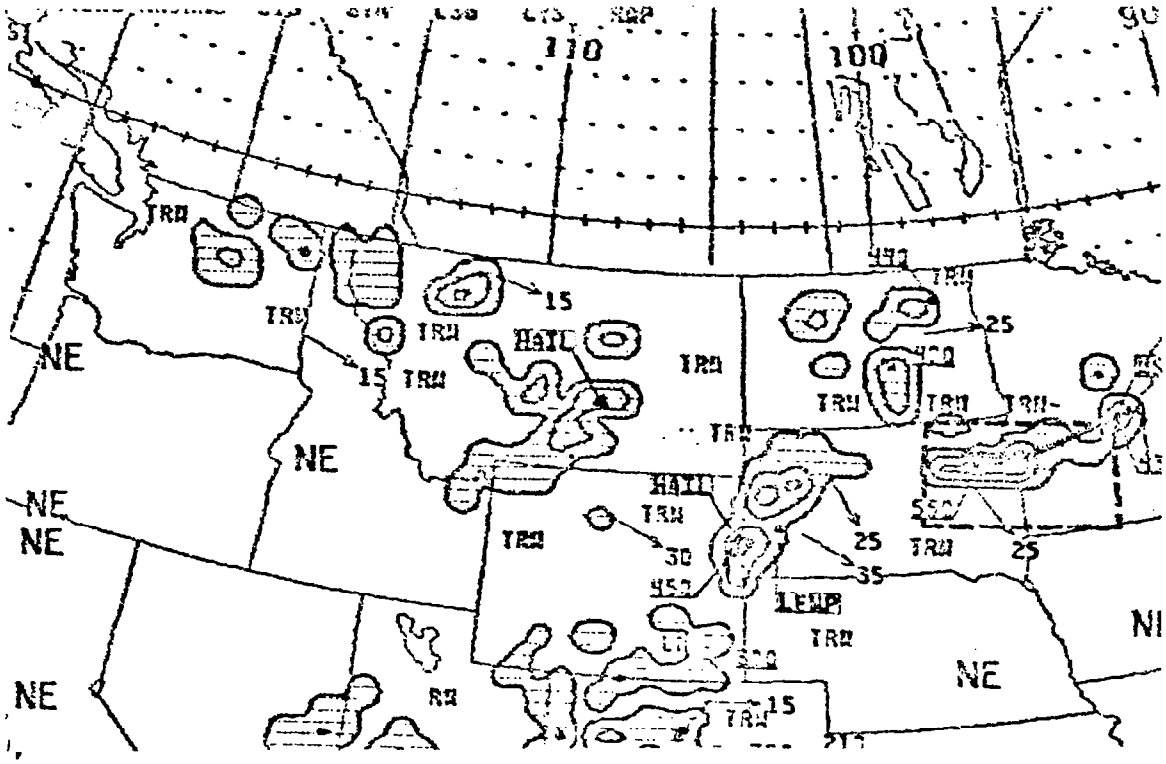

Fig. 8e. Radar Summary for 2335 GMT 23 July 1981.

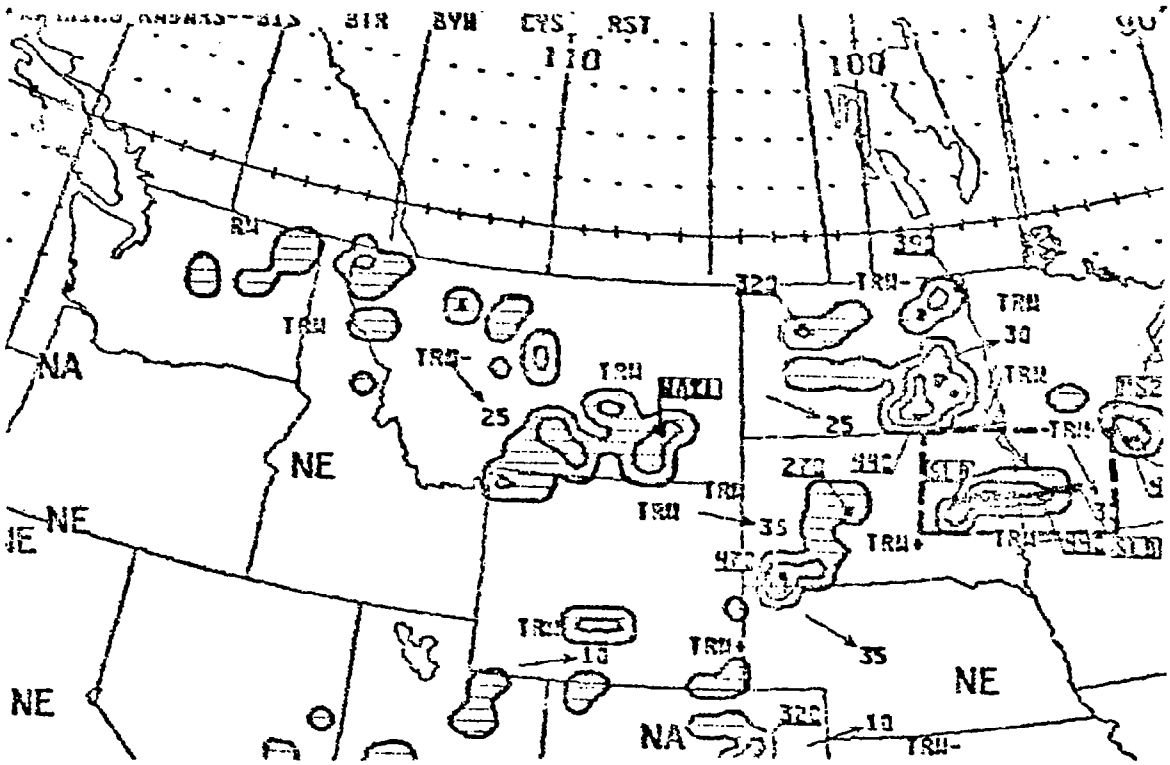

Fig. 8f. Radar Summary for 0135 GMT 23 July 1981.

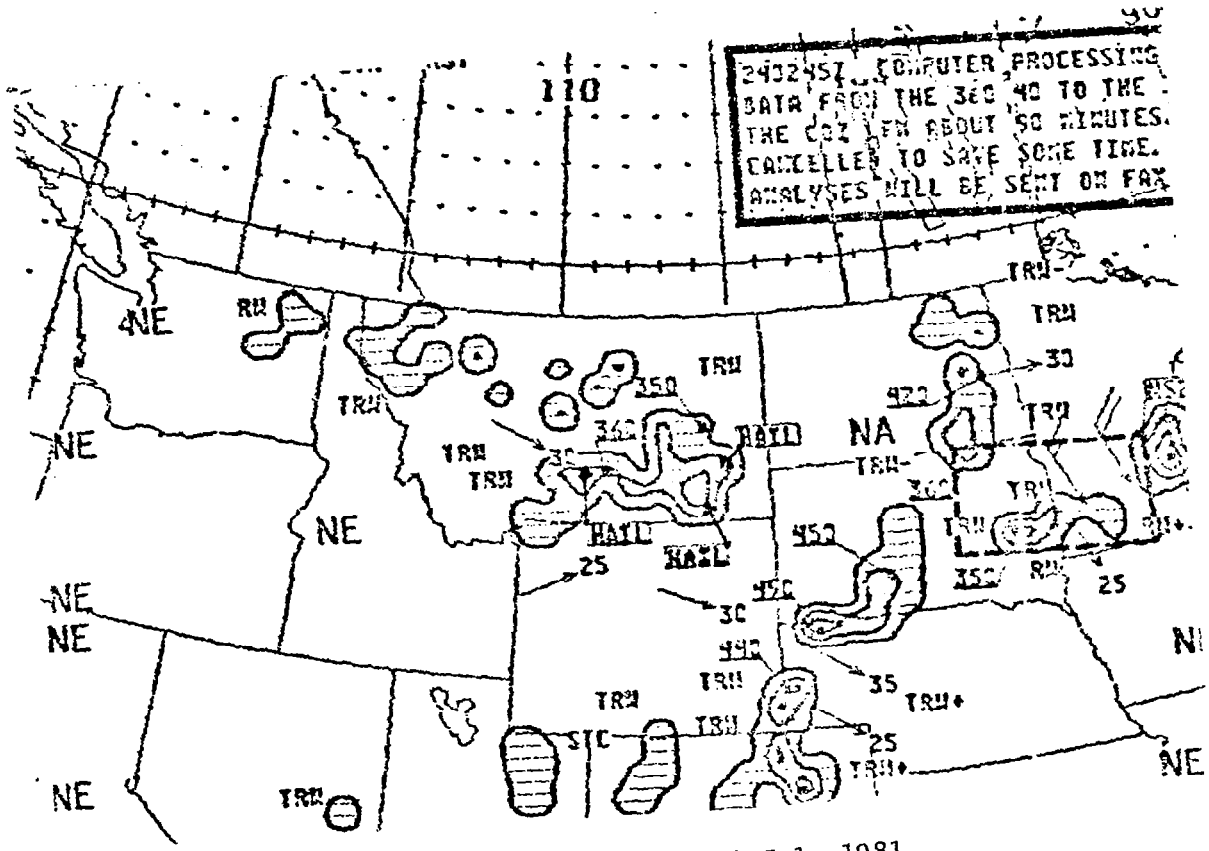

Fig. 8g. Radar Summary for 0235 GMT 24 July 1981.

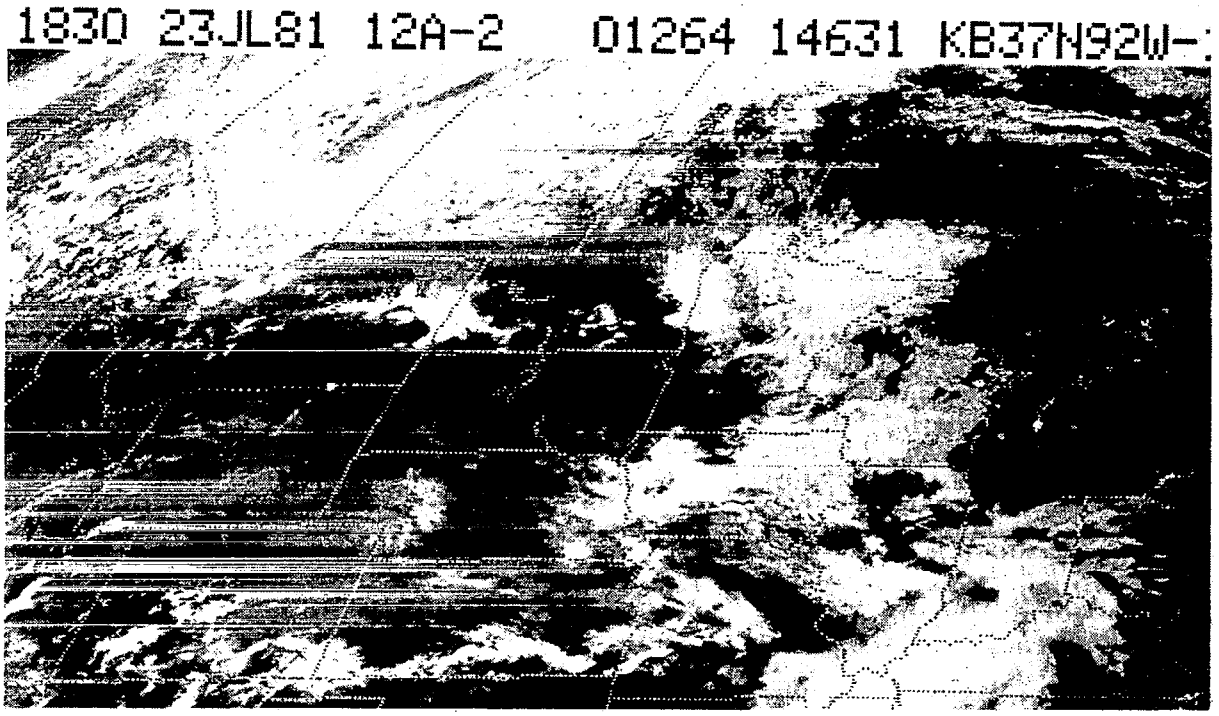

Fig. 9a. Satellite Picture for 1830 GMT 23 July 1981.

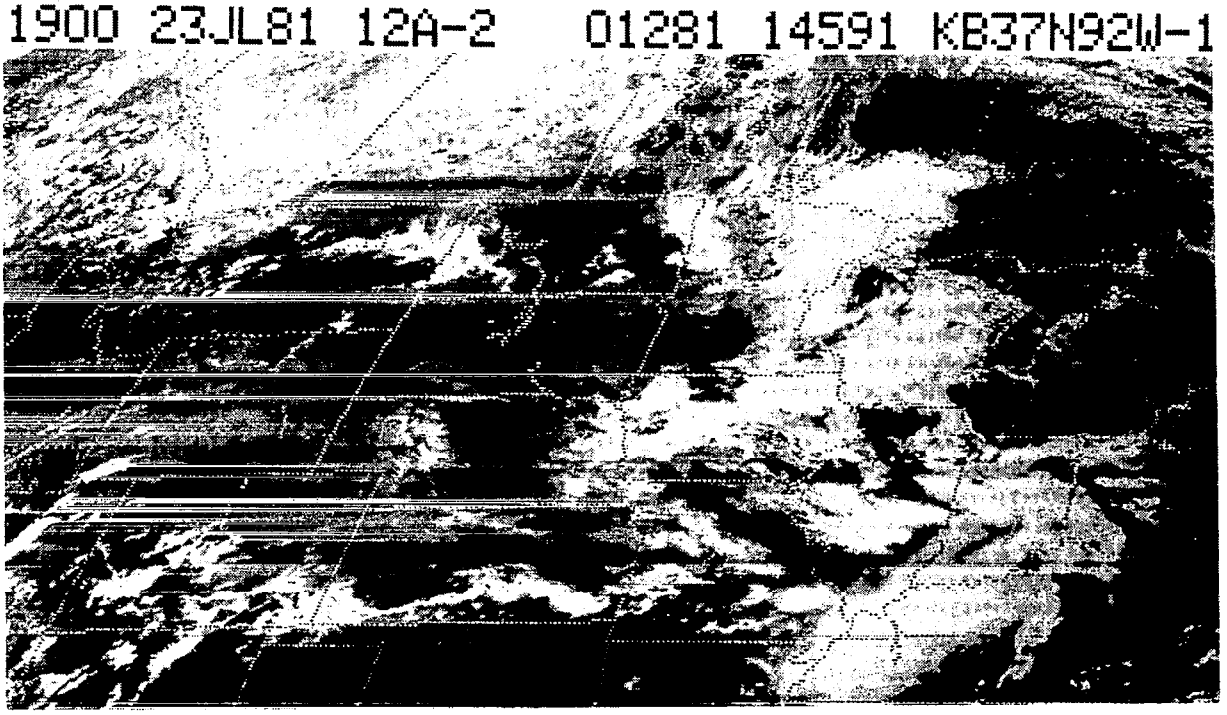

Fig. 9b. Satellite Picture for 1900 GMT 23 July 1981.

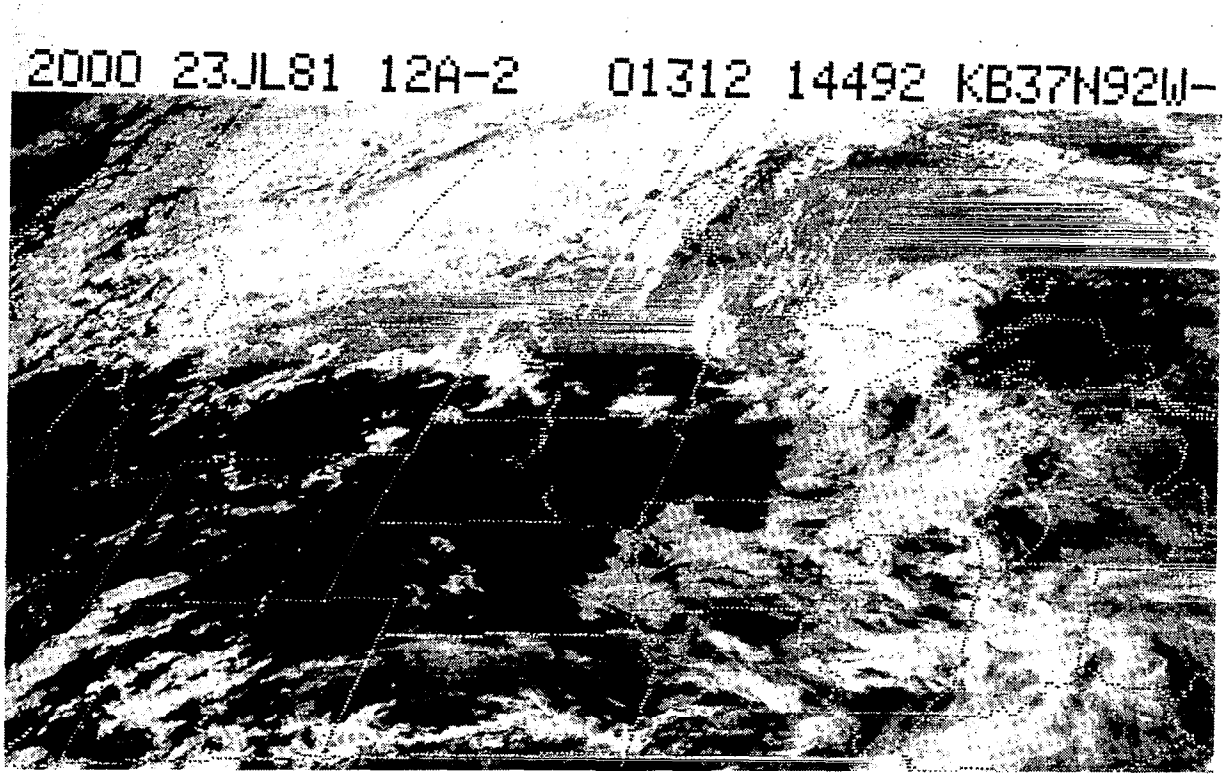

Fig. 9c. Satellite Picture for 2000 GMT 23 July 1981.

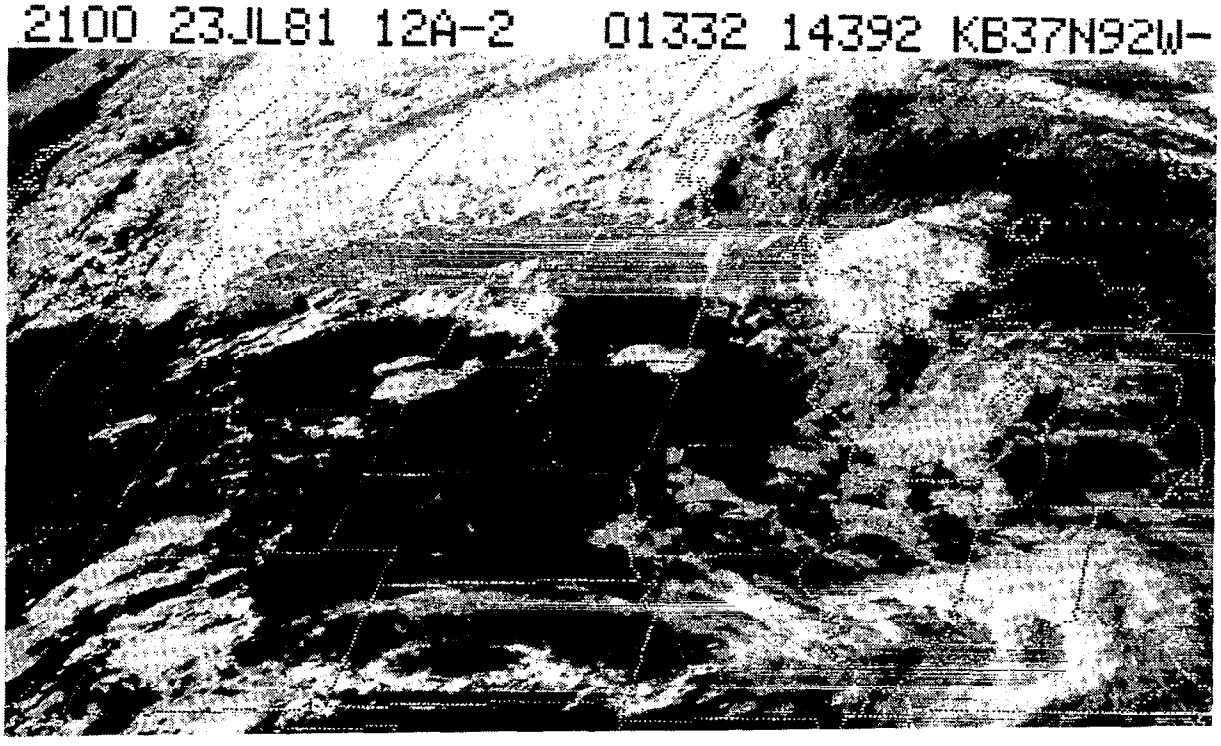

Fig. 9d. Satellite Picture for 2100 GMT 23 July 1981.

Fig. 9e. Satellite Picture for 2200 GMT 23 July 1981.

(This frame is identified incorrectly as 2200 GMT 22 July 1980).

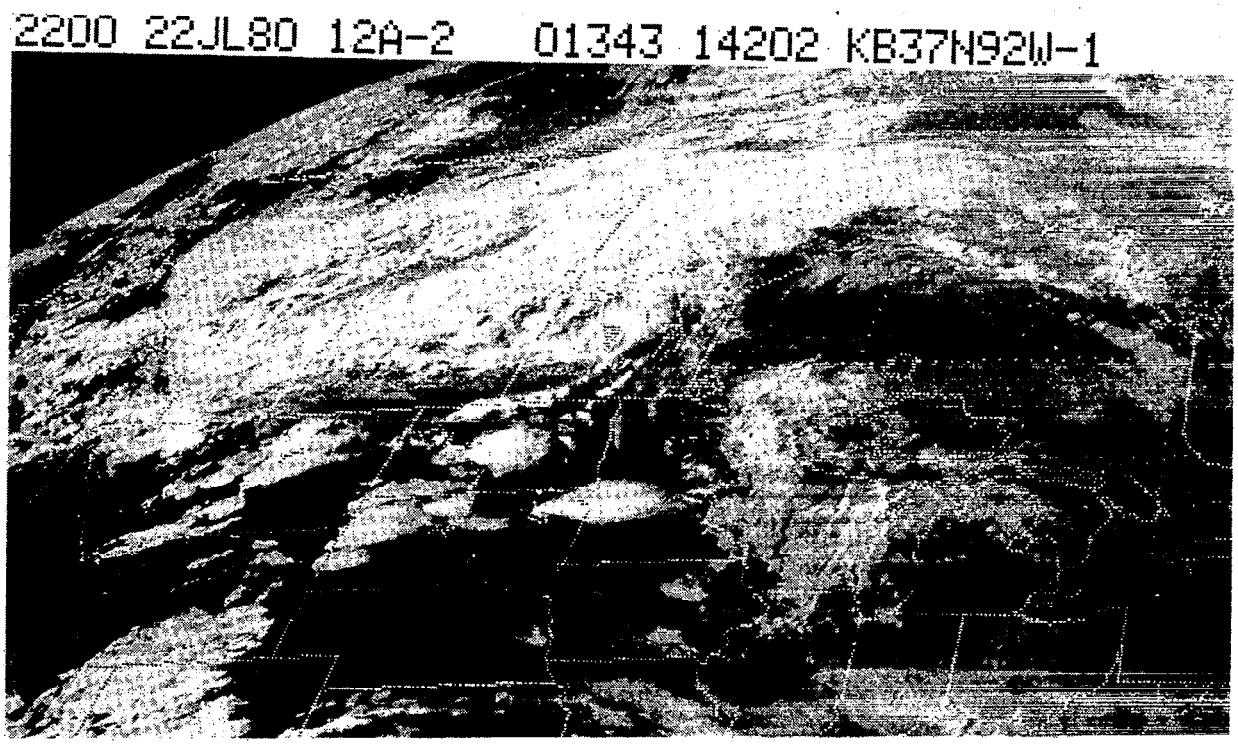

Fig. 9f. Satellite Picture for 2300 GMT 23 July 1981.

(This frame is identified incorrectly as 2200 GMT 22 July 1980).

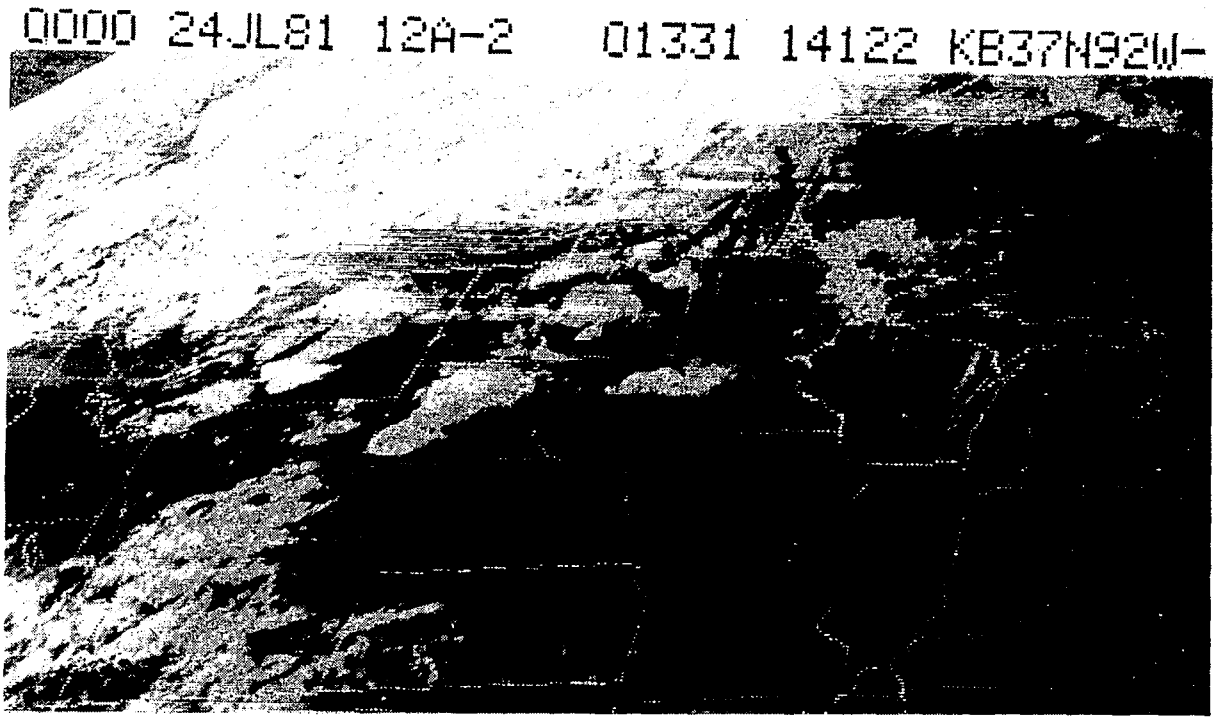

Fig. 9g. Satellite Picture for 0000 GMT 24 July 1981.

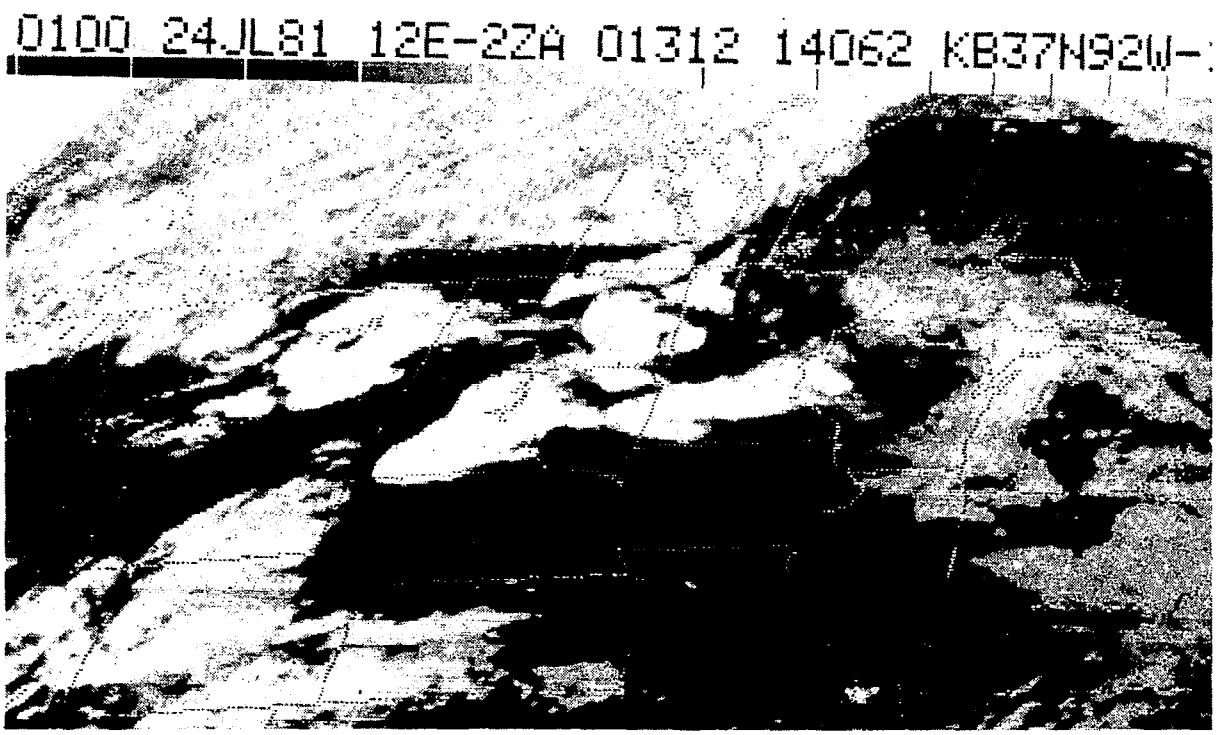

Fig. 9h. Satellite Picture for 0100 GMT 24 July 1981.

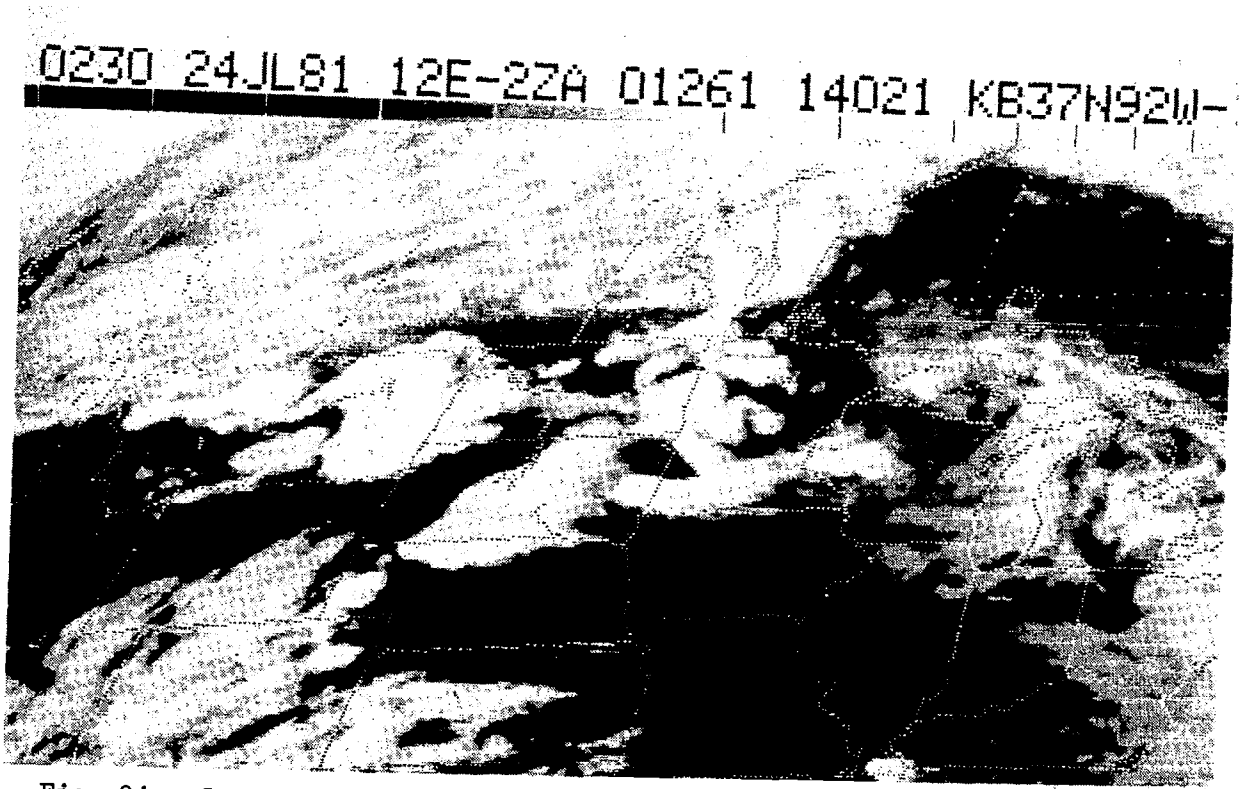

Fig. 9i. Satellite Picture for 0230 GMT 24 July 1981.

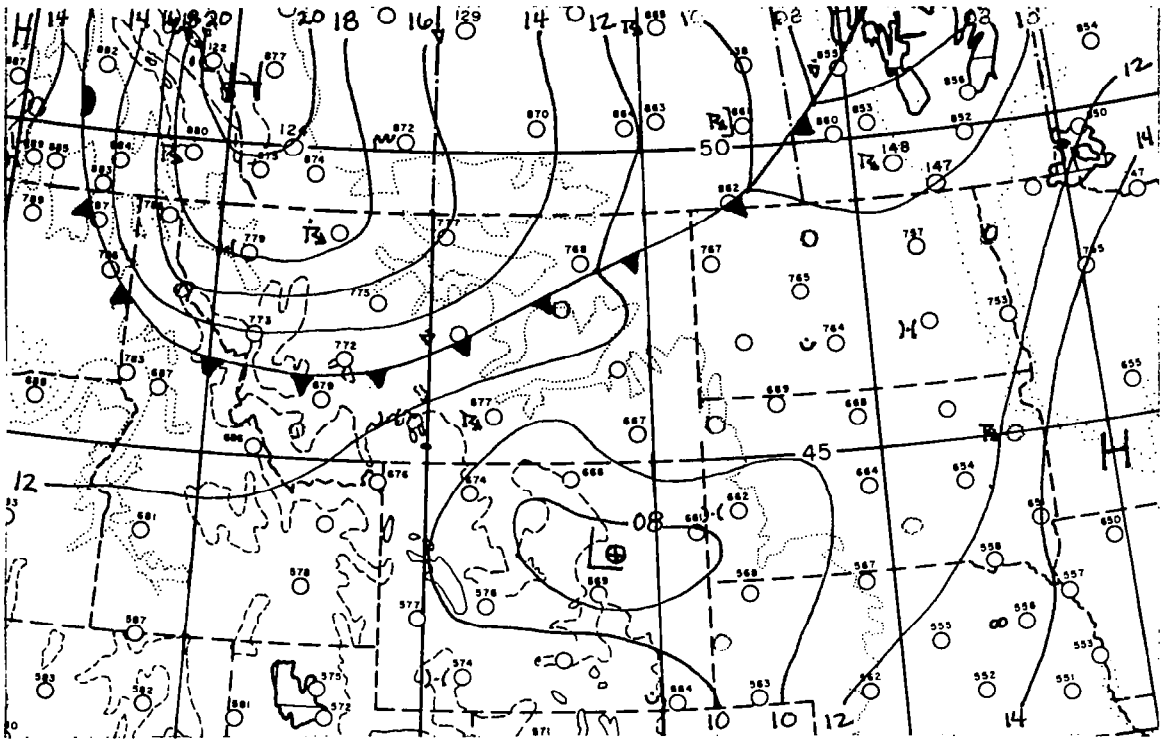

Fig. 10a. Surface Map Analysis and Weather for 0000 GMT 24 July 1981.

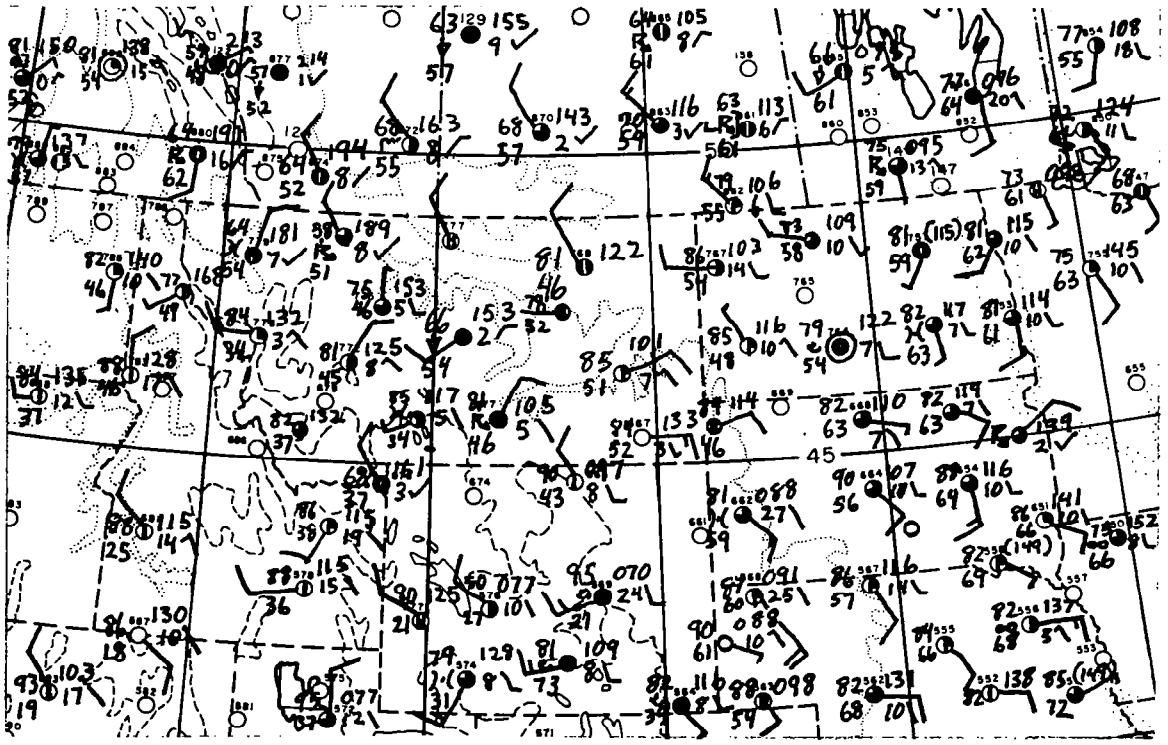

Fig. 10b. Surface Map Data for 0000 GMT 24 July 1981.

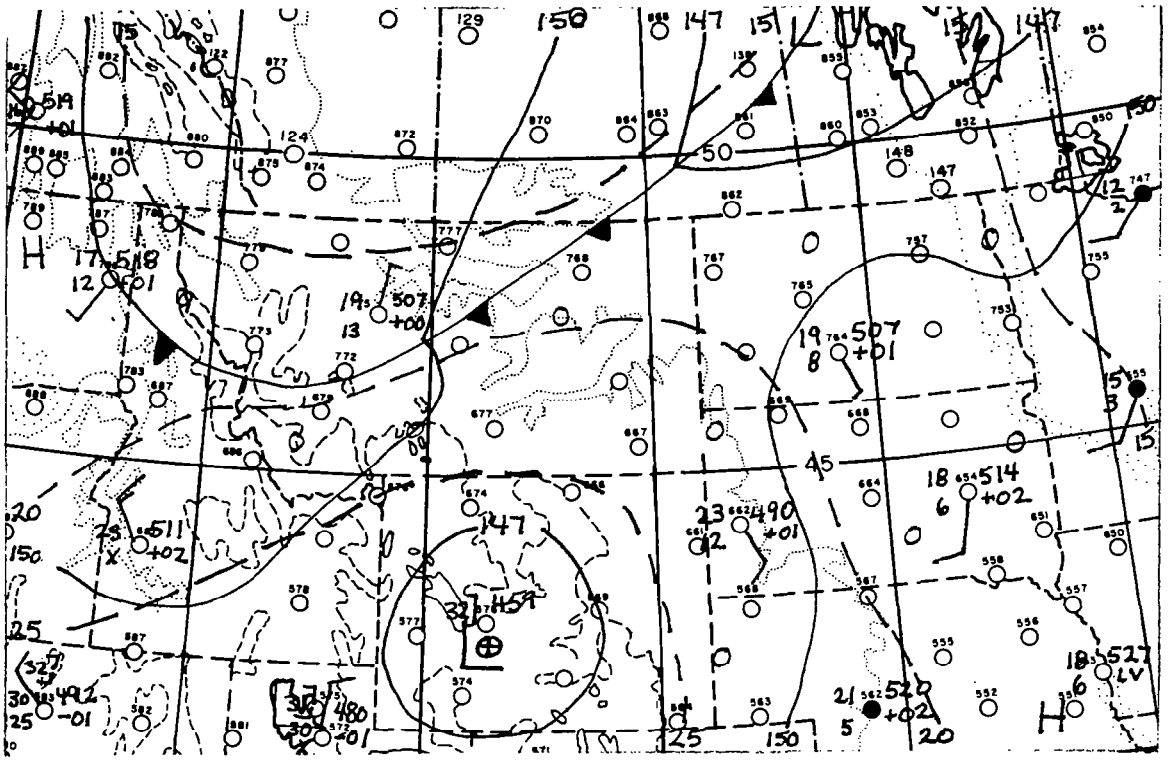

Fig. 10c. 850 mb Map for 0000 GMT 24 July 1981.

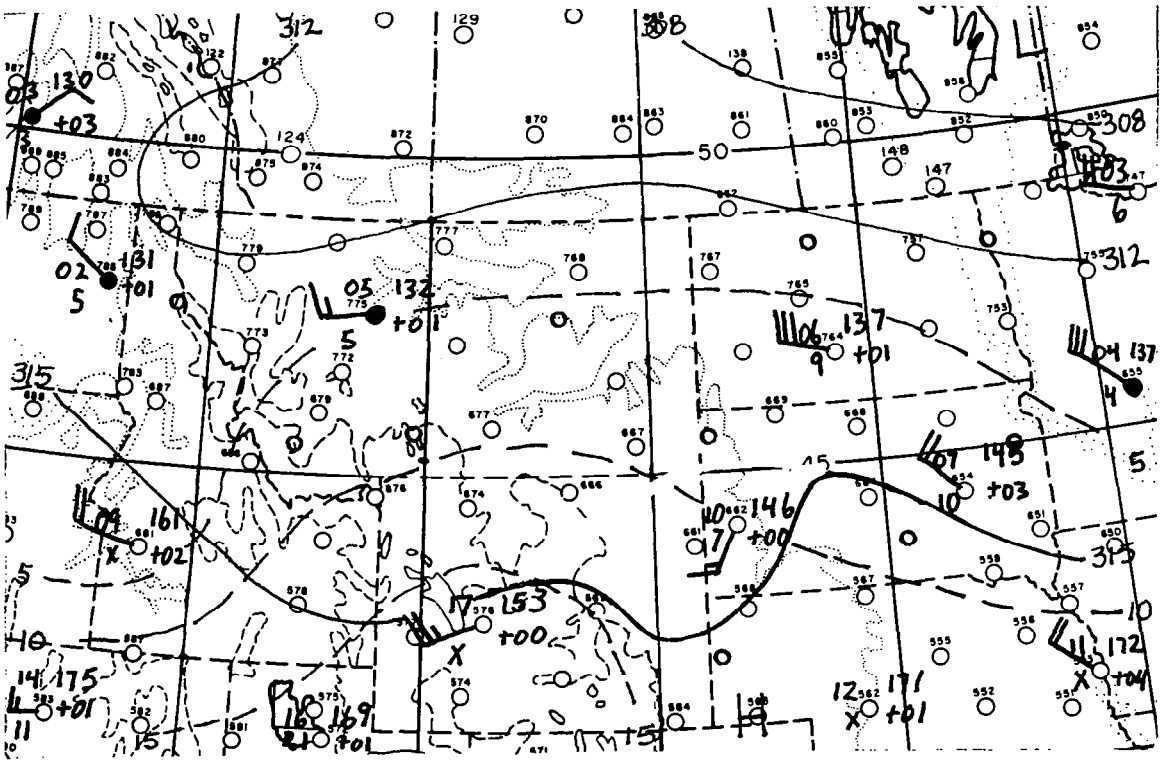

Fig. 10d. 700 mb Map for 0000 GMT 24 July 1981.

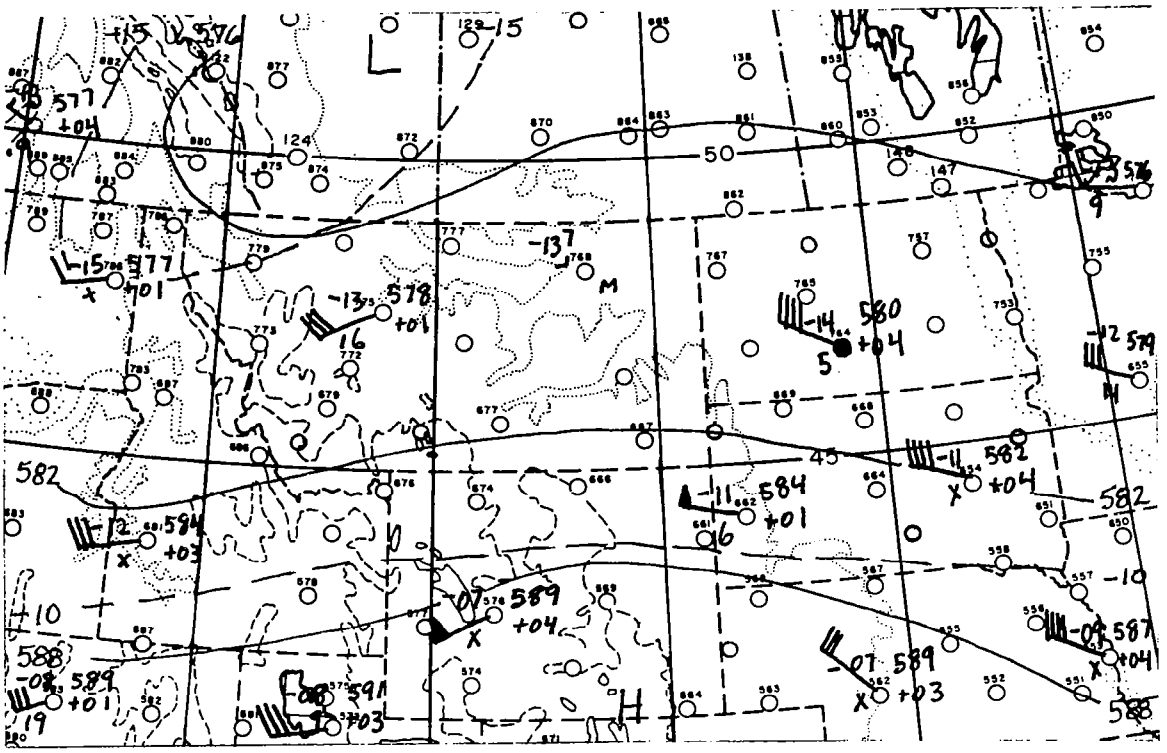

Fig. 10e. 500 mb Map for 0000 GMT 24 July 1981.

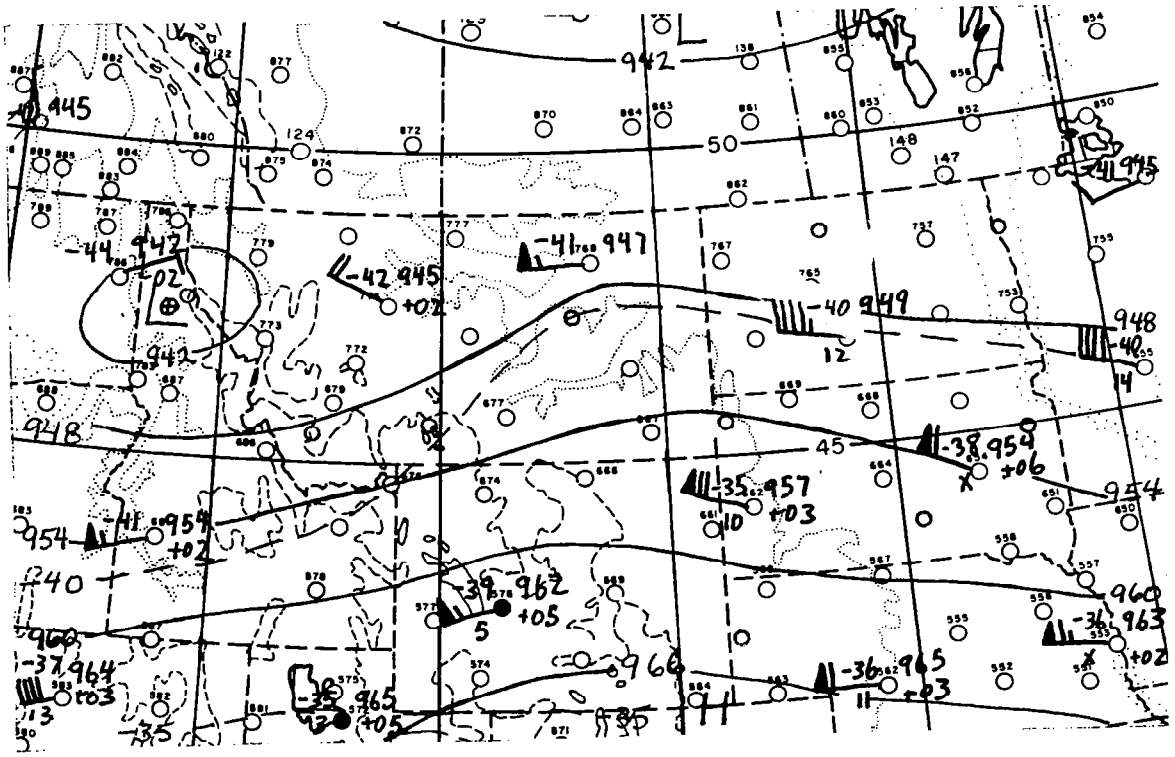

Fig. 10f. 300 mb Map for 0000 GMT 24 July 1981.

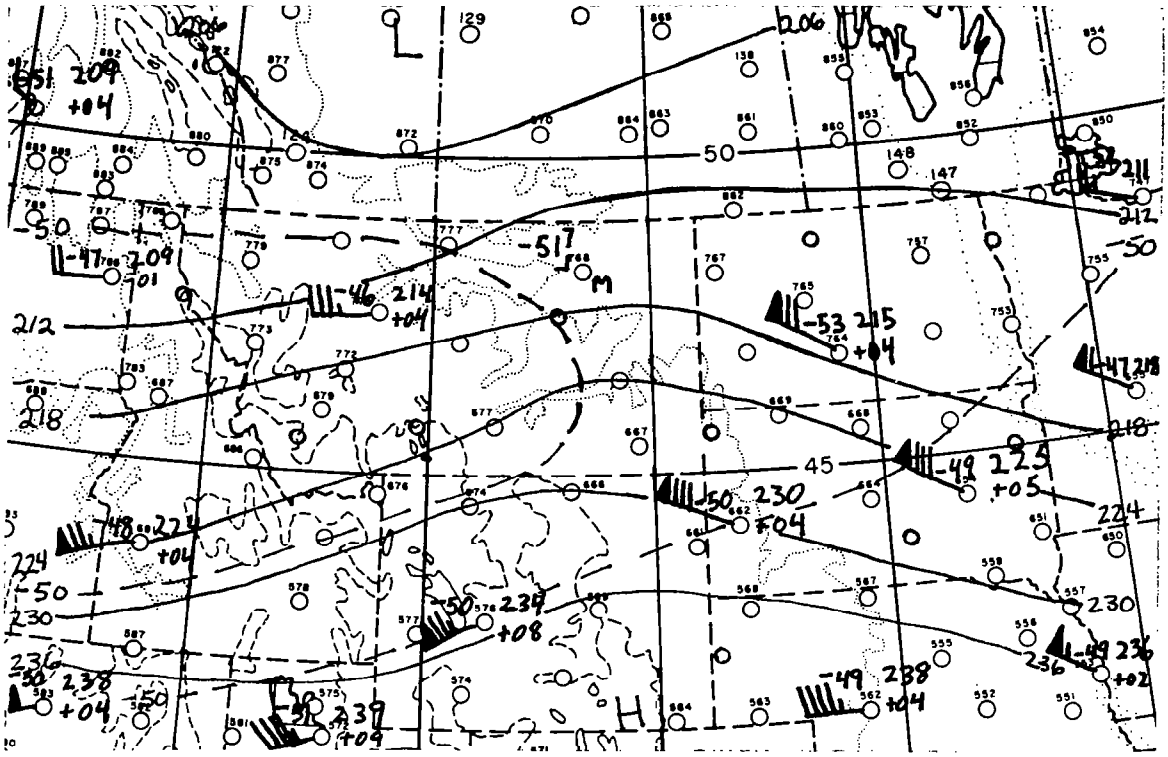

Fig. 10g. 200 mb Map for 0000 GMT 24 July 1981.

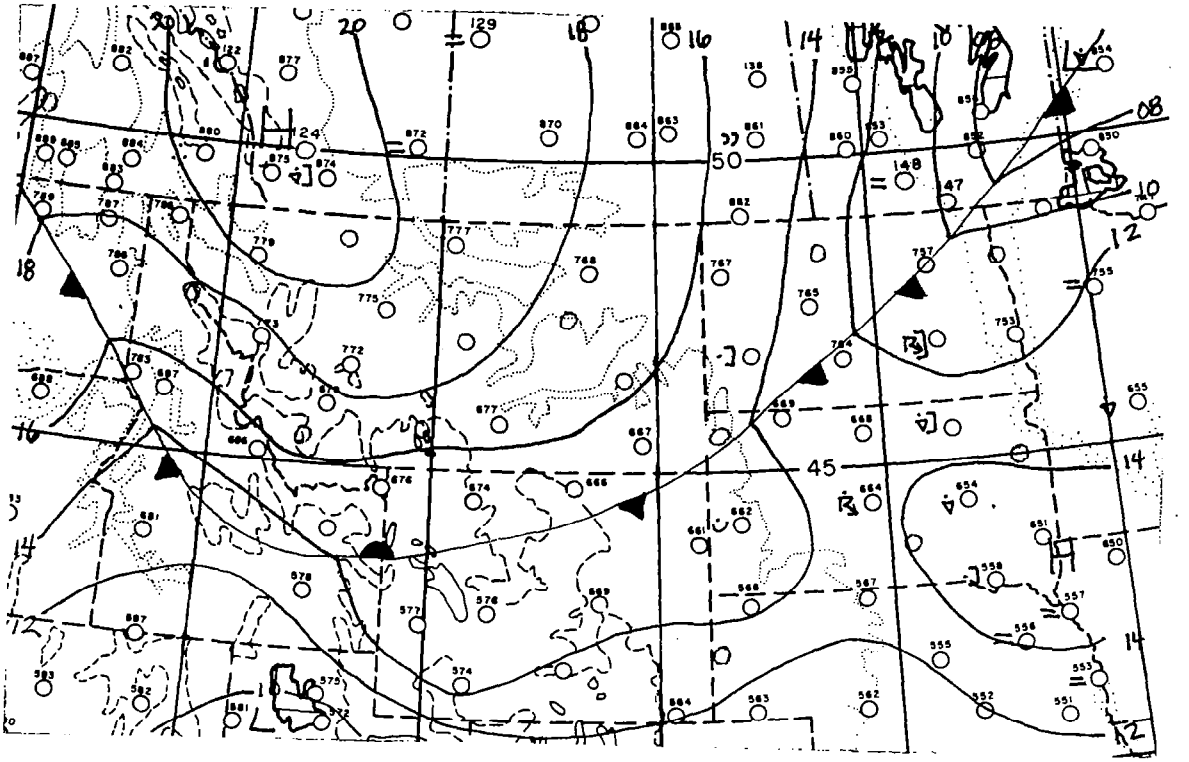

Fig. 11a. Surface Map Analysis and Weather for 1200 GMT 24 July 1981.

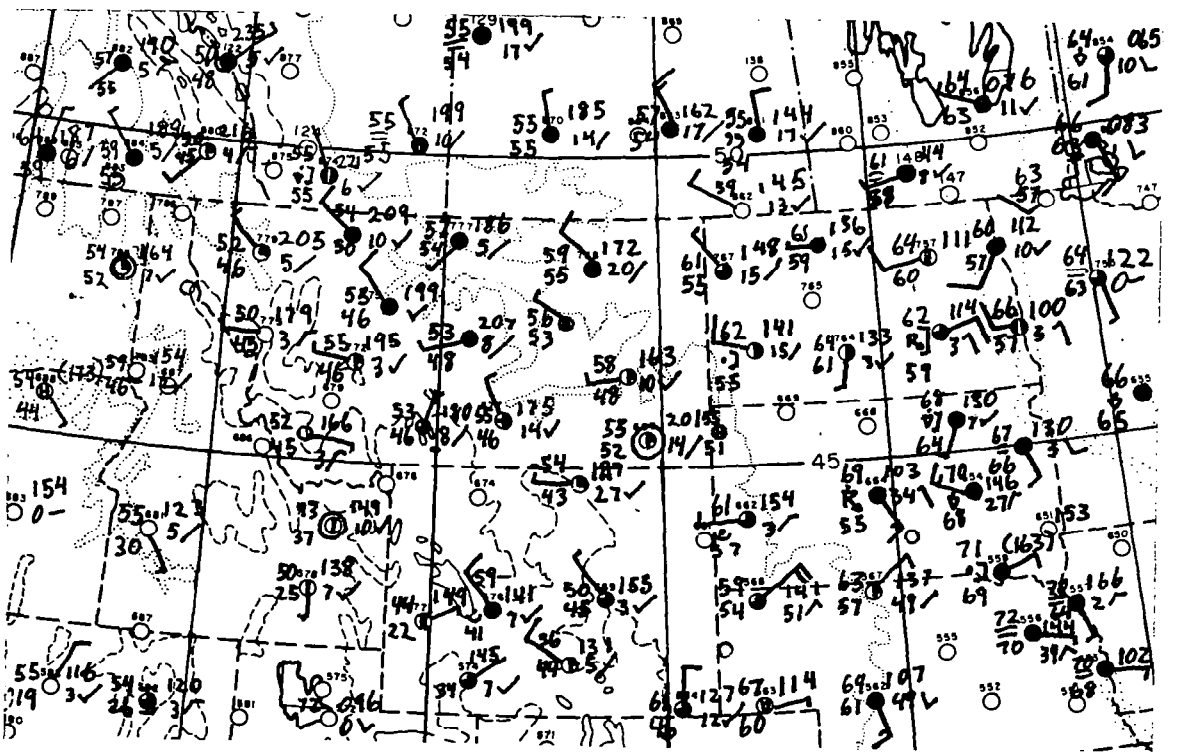

Fig. 11b. Surface Map Data for 1200 GMT 24 July 1981.

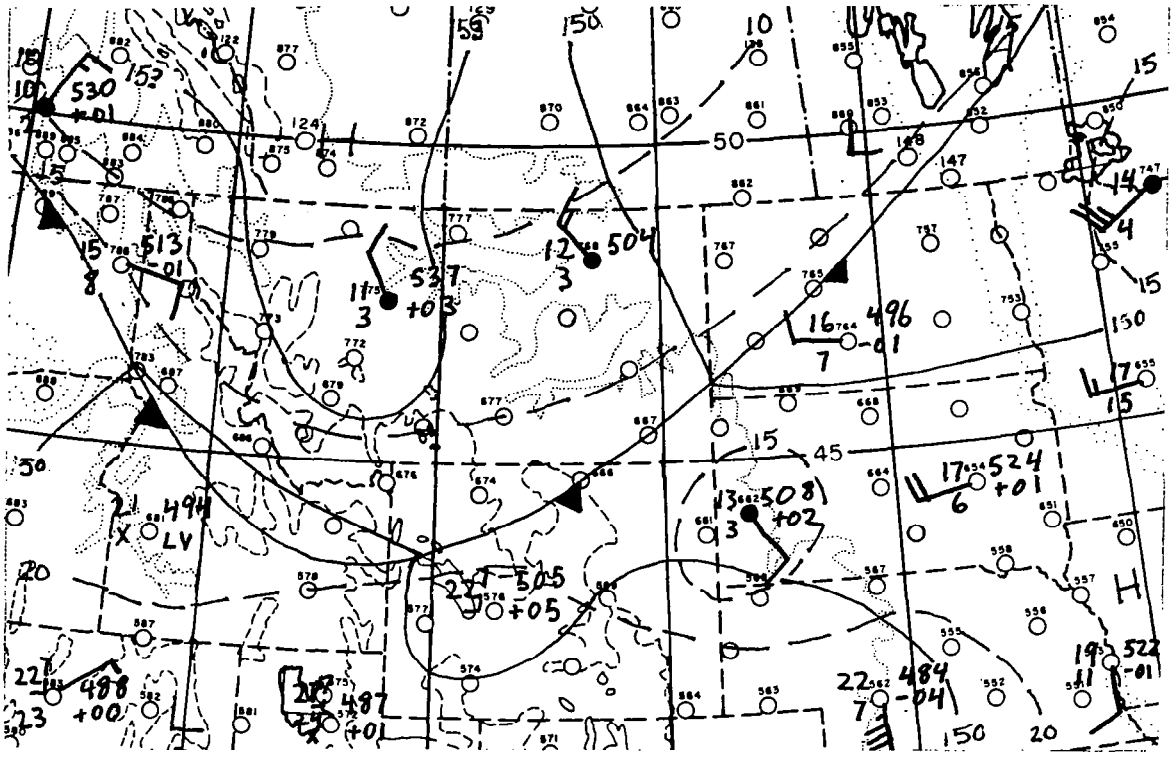

Fig. 11c. 850 mb Map for 1200 GMT 24 July 1981.

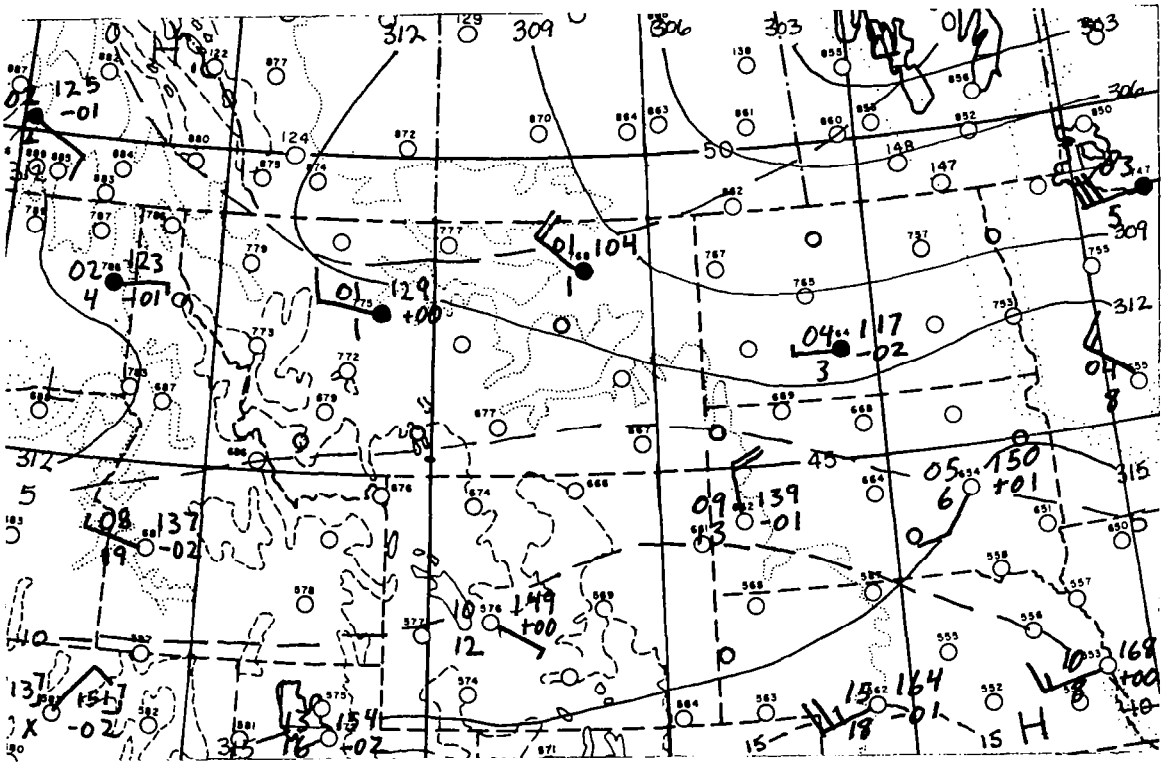

Fig. 11d. 700 mb Map for 1200 GMT 24 July 1981.

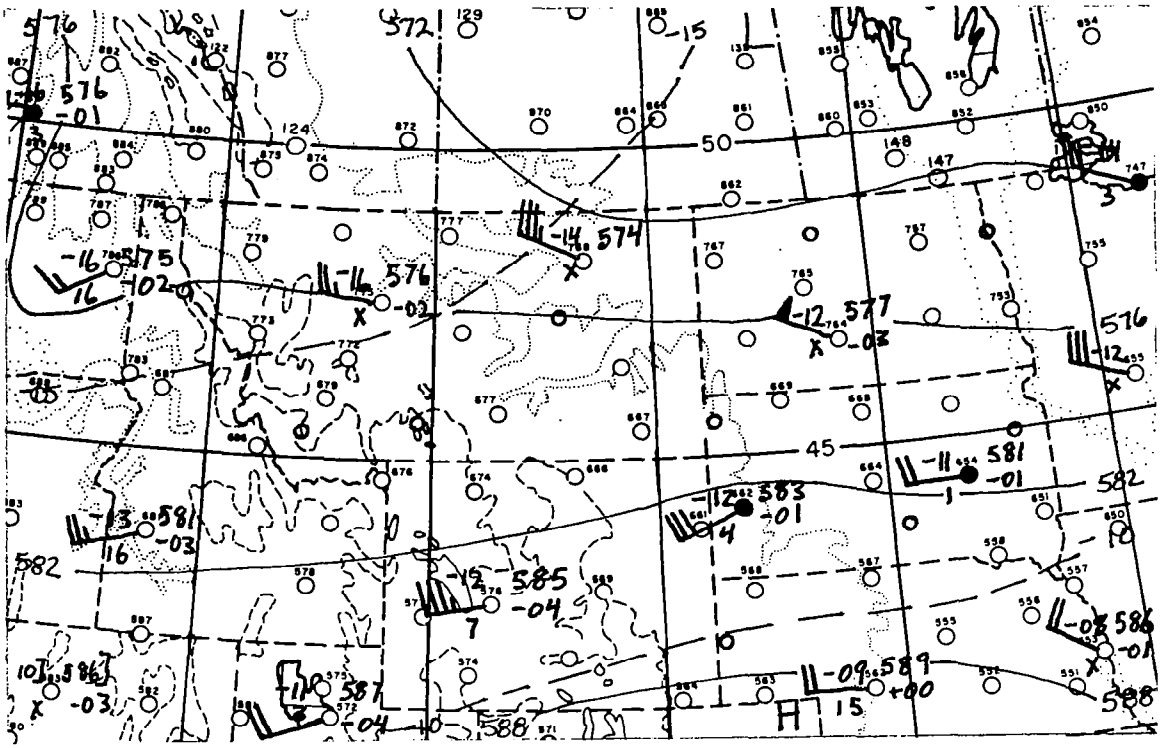

Fig. 11e. 500 mb Map for 1200 GMT 24 July 1981.

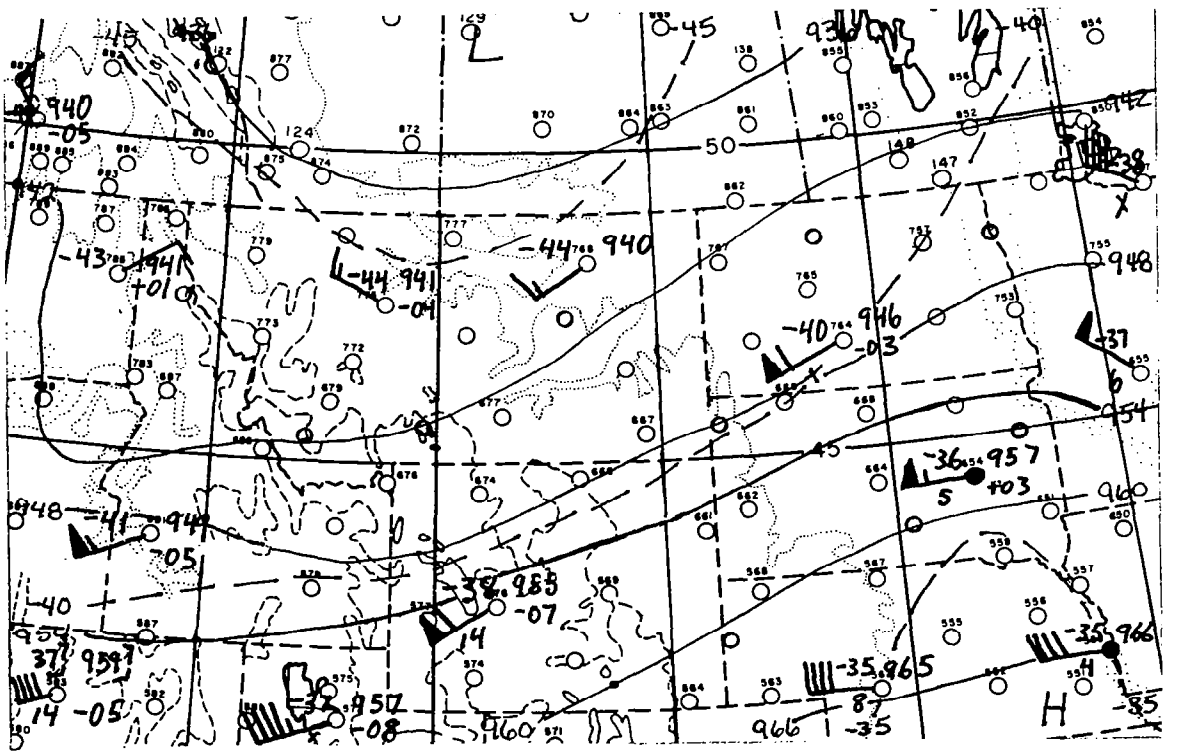

Fig. 11f. 300 mb Map for 1200 GMT 24 July 1981.

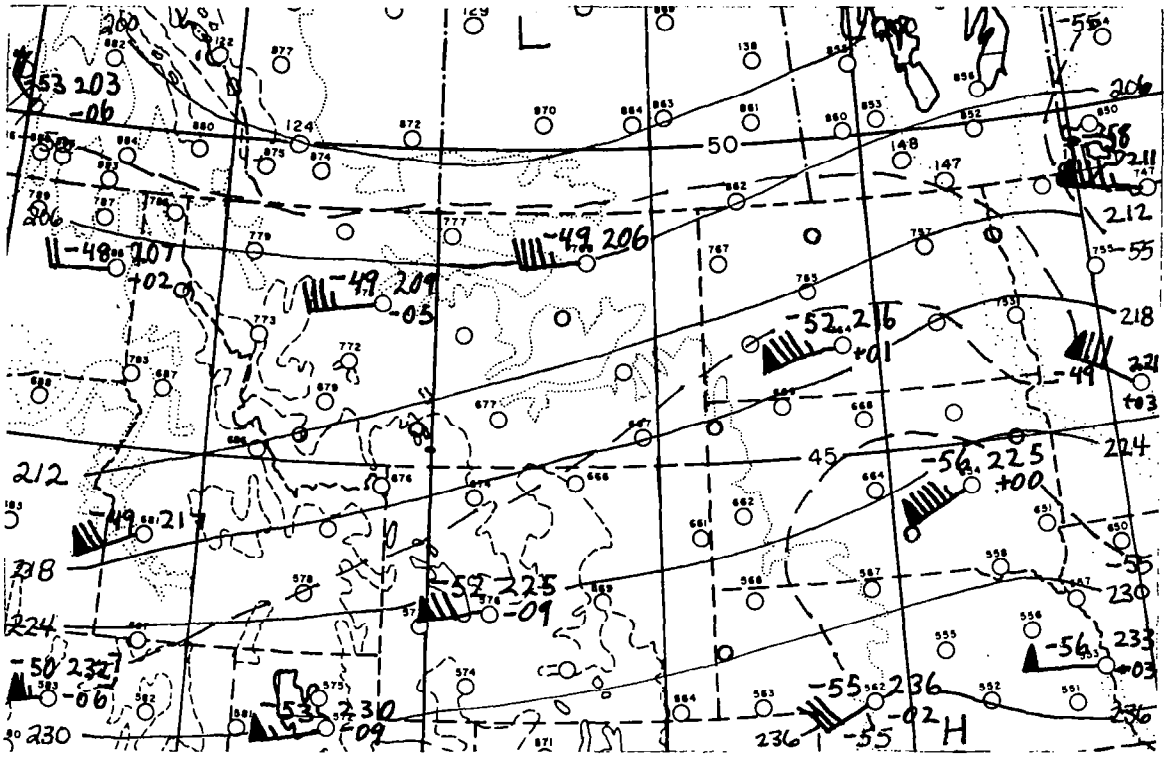

Fig. 11g. 200 mb Map for 1200 GMT 24 July 1981.

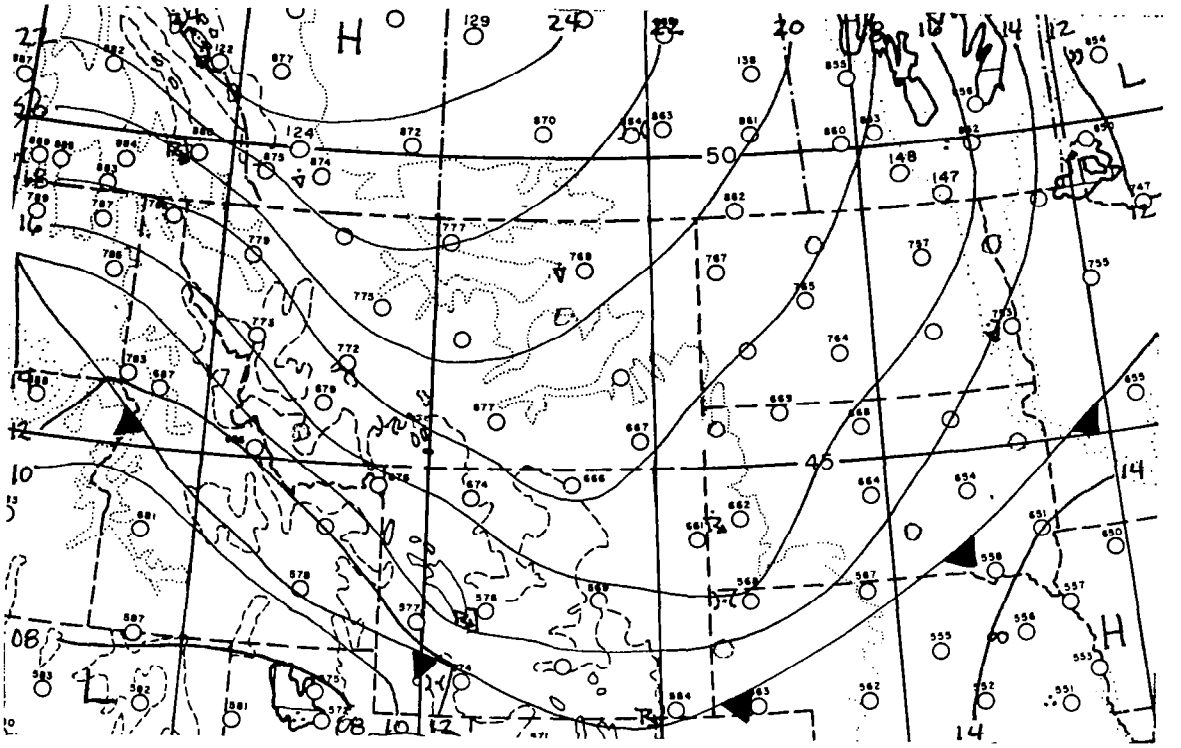

Fig. 12a. Surface Map Analysis and Weather for 0000 GMT 25 July 1981.

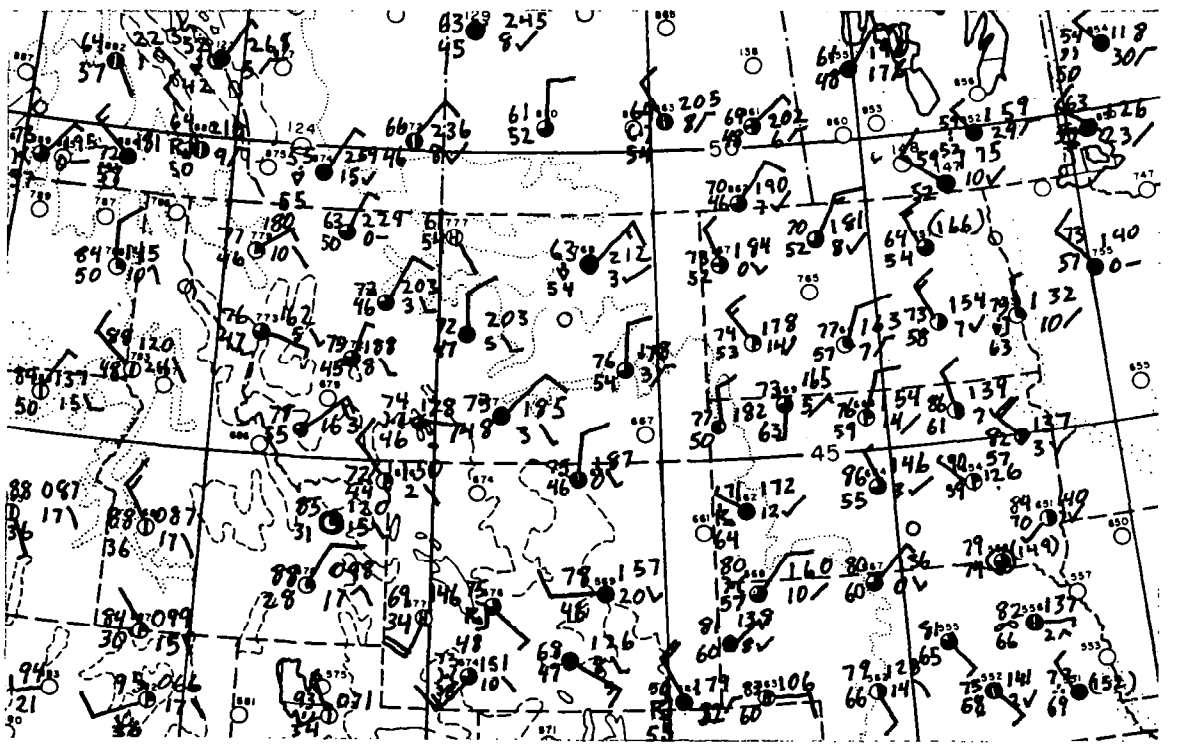

Fig. 12b. Surface Map Data for 0000 GMT 25 July 1981.

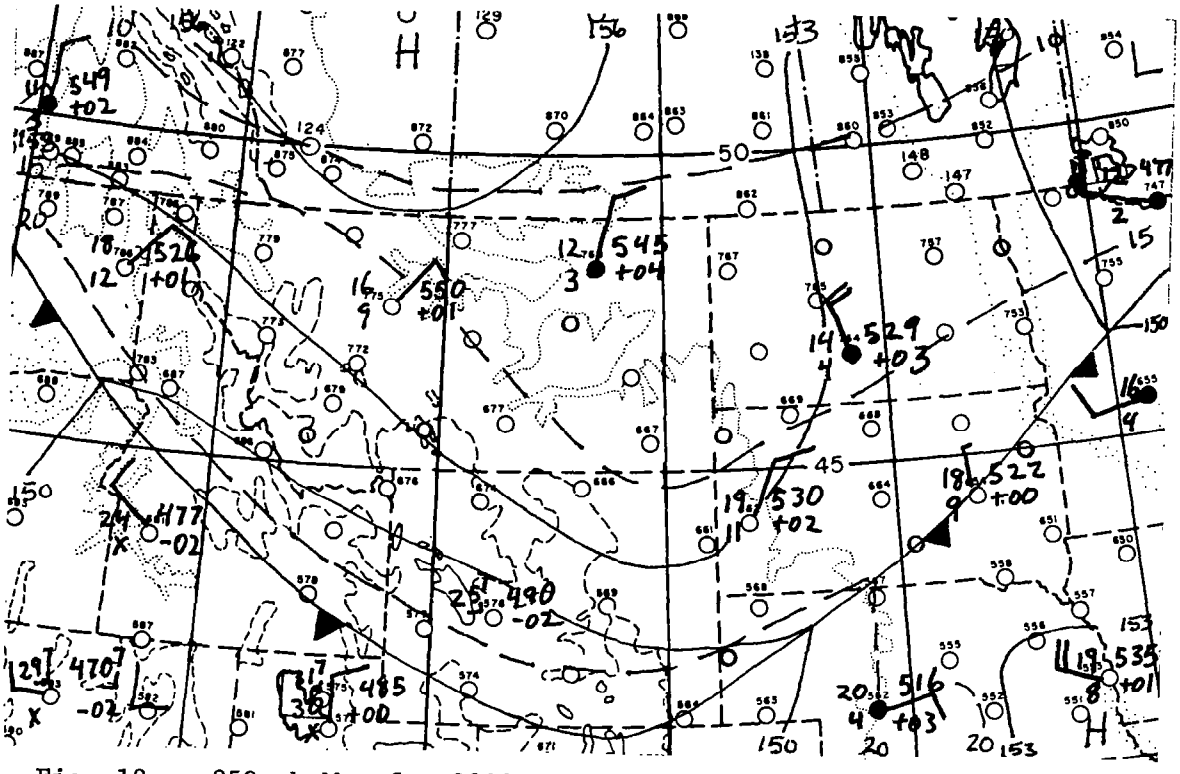

Fig. 12c. 850 mb Map for 0000 GMT 25 July 1981.

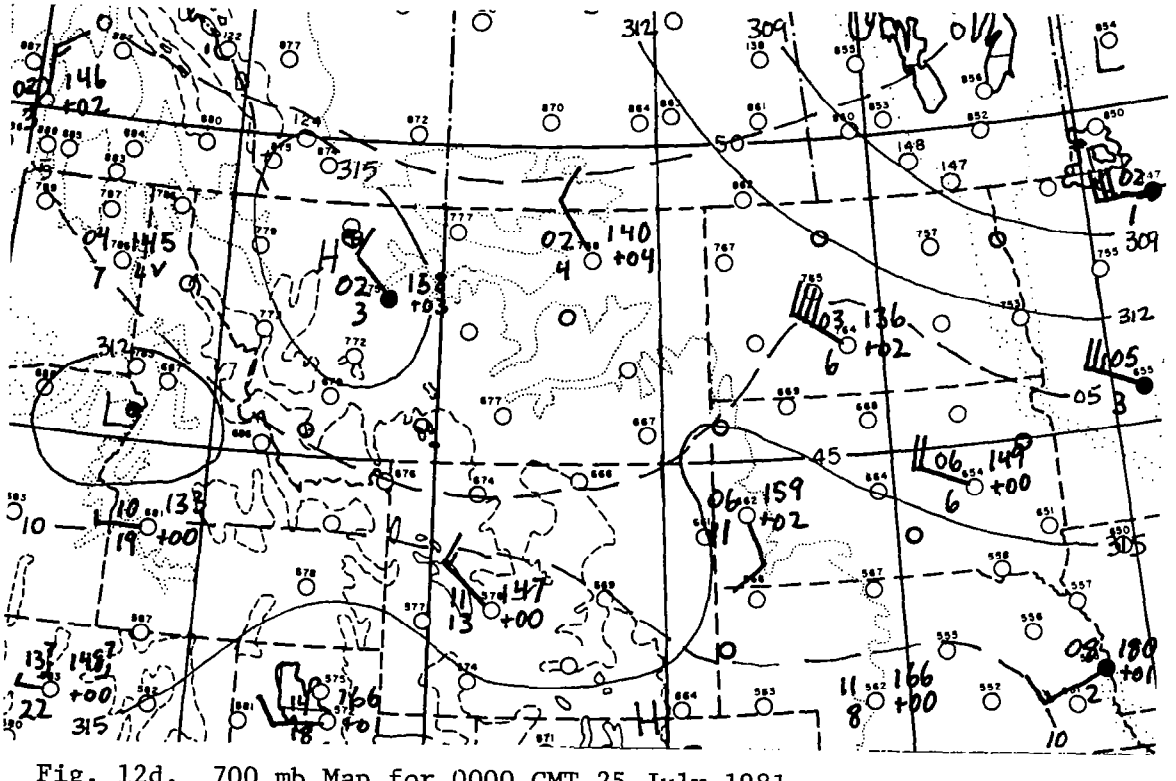

Fig. 12d. 700 mb Map for 0000 GMT 25 July 1981.

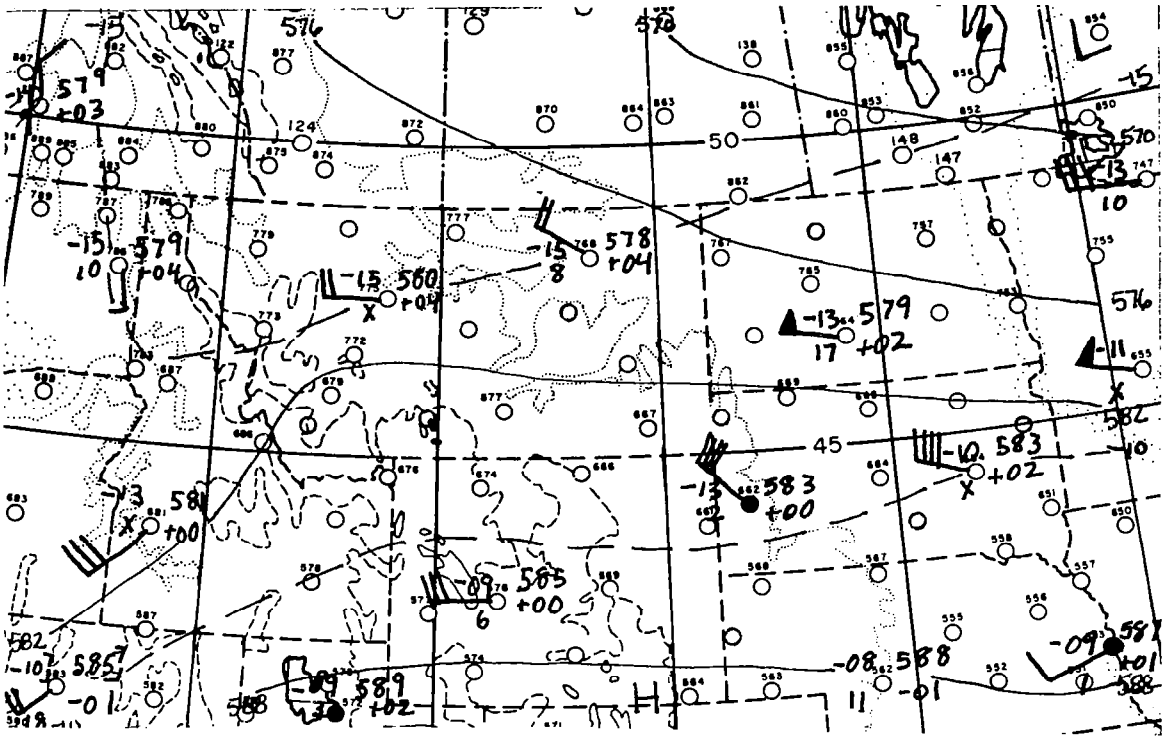

Fig. 12e. 500 mb Map for 0000 GMT 25 July 1981.

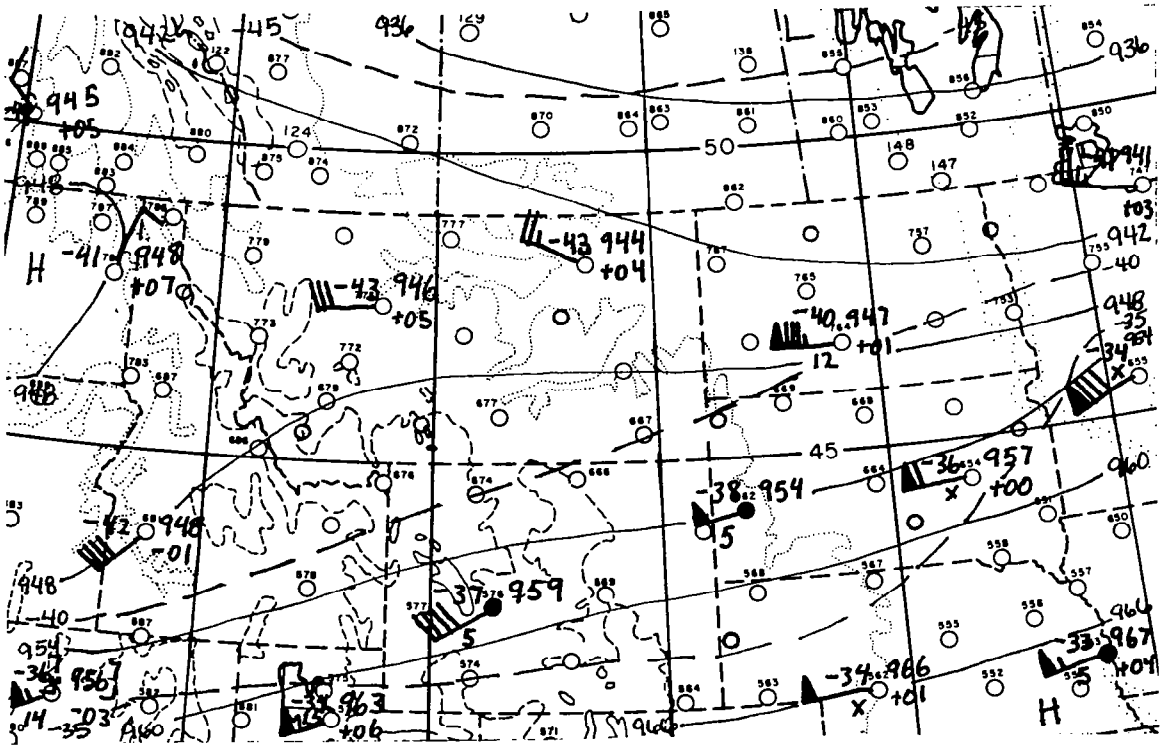

Fig. 12f. 300 mb Map for 0000 GMT 25 July 1981.

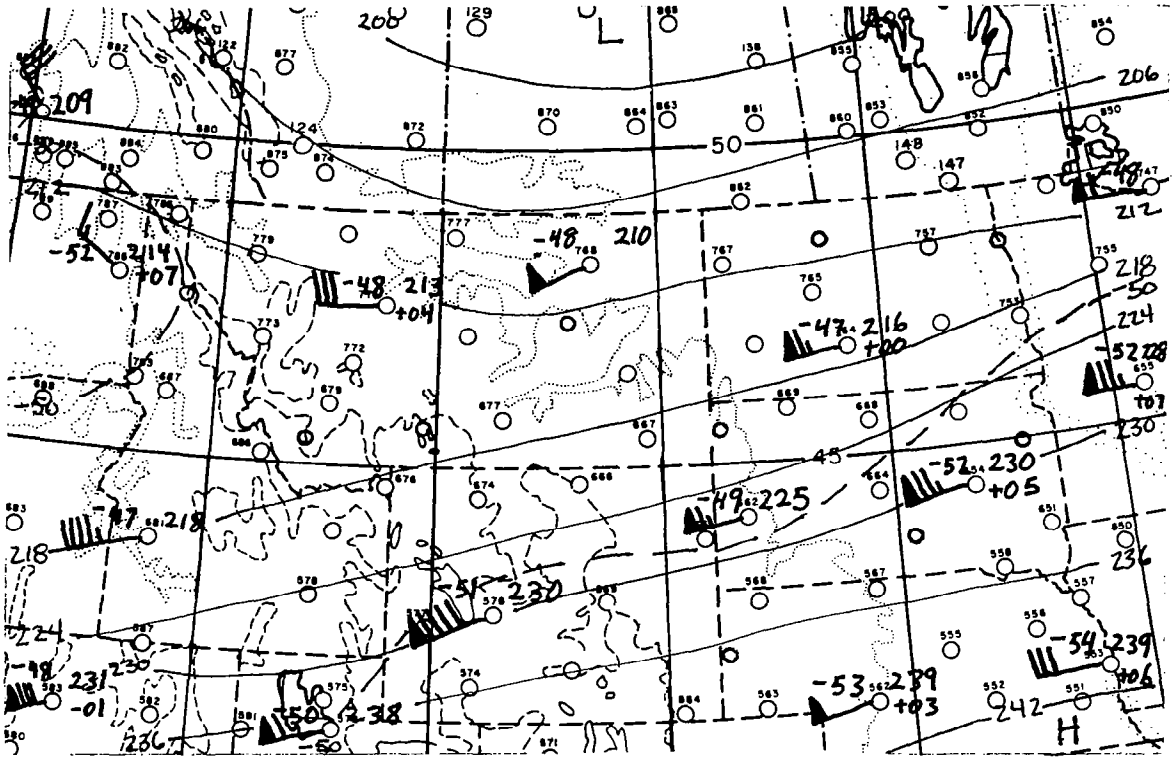

Fig. 12 g. 200 mb Map for 0000 GMT 25 July 1981.

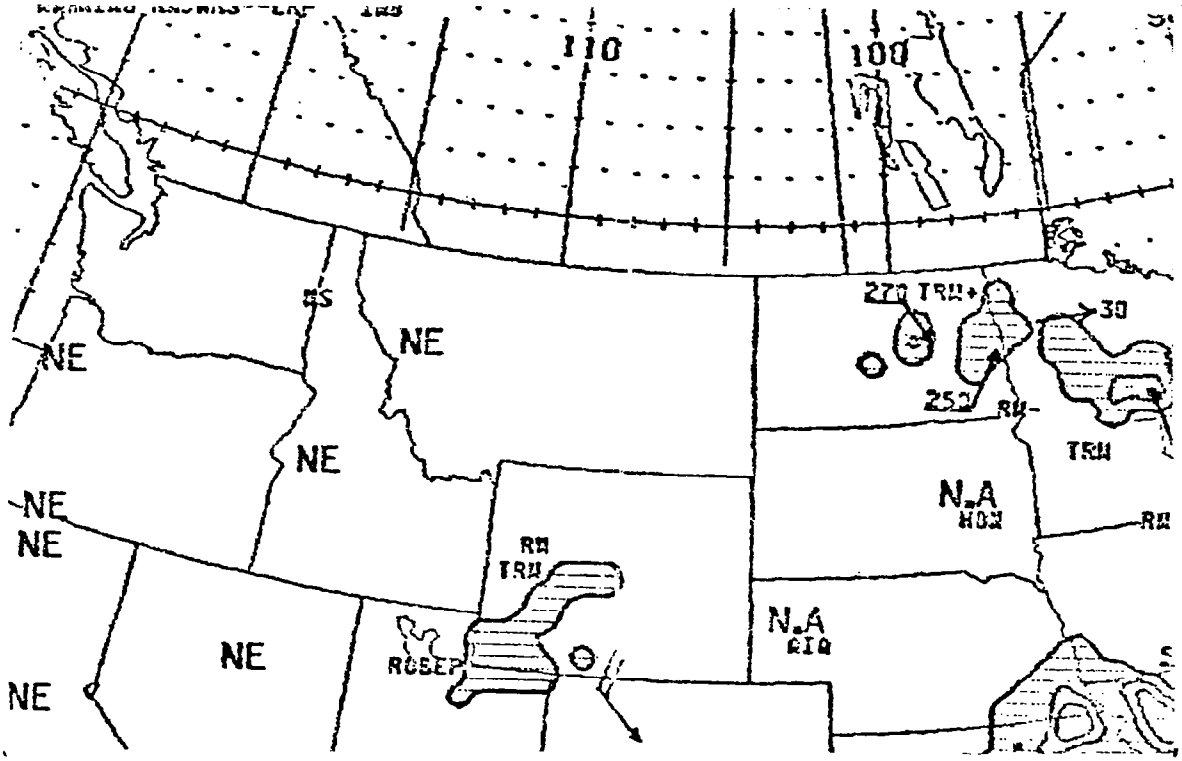

Fig. 13a. Radar Summary for 1735 GMT 24 July 1981.

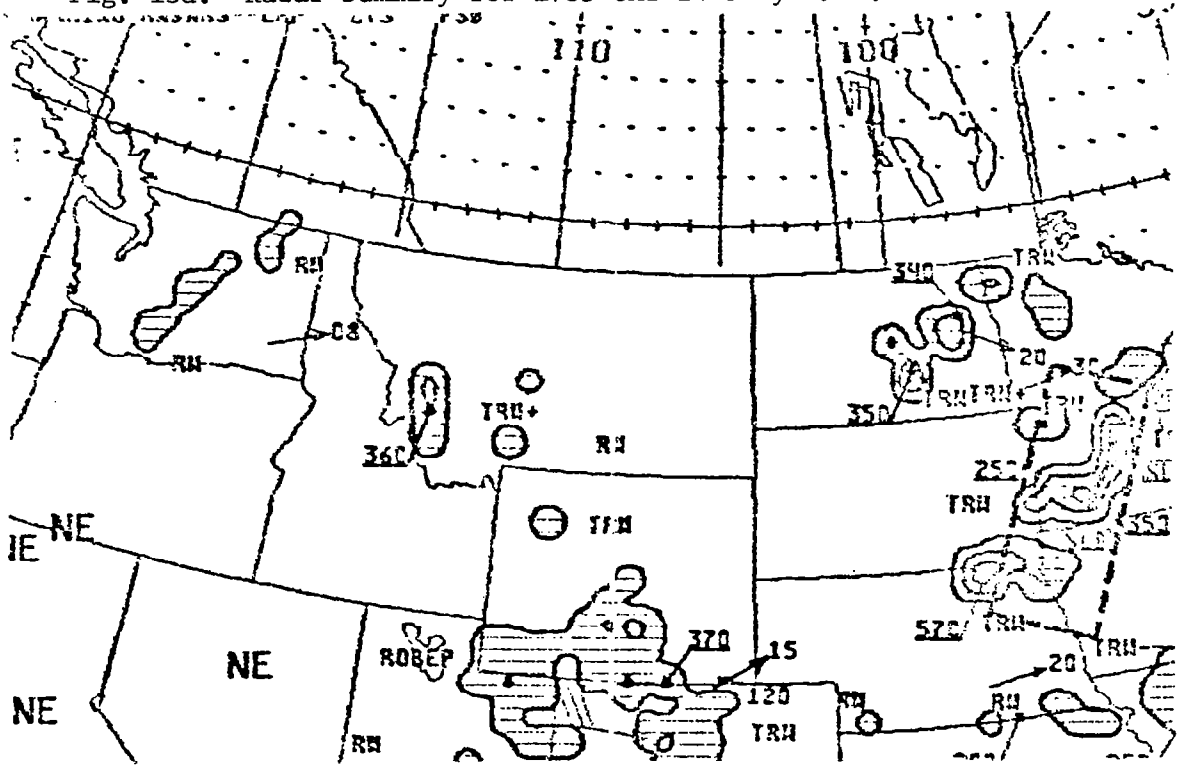

Fig. 13b. Radar Summary for 1835 GMT 24 July 1981.

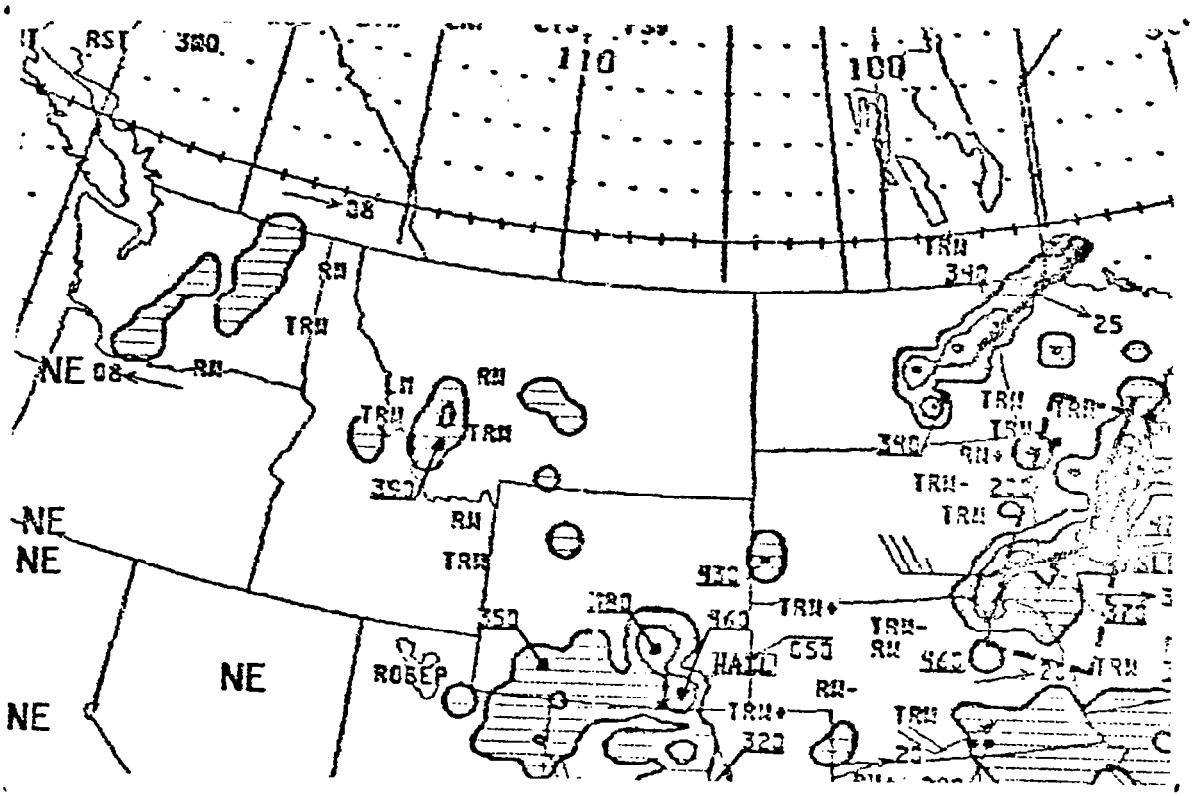

Fig. 13c. Radar Summary for 2035 GMT 24 July 1981.

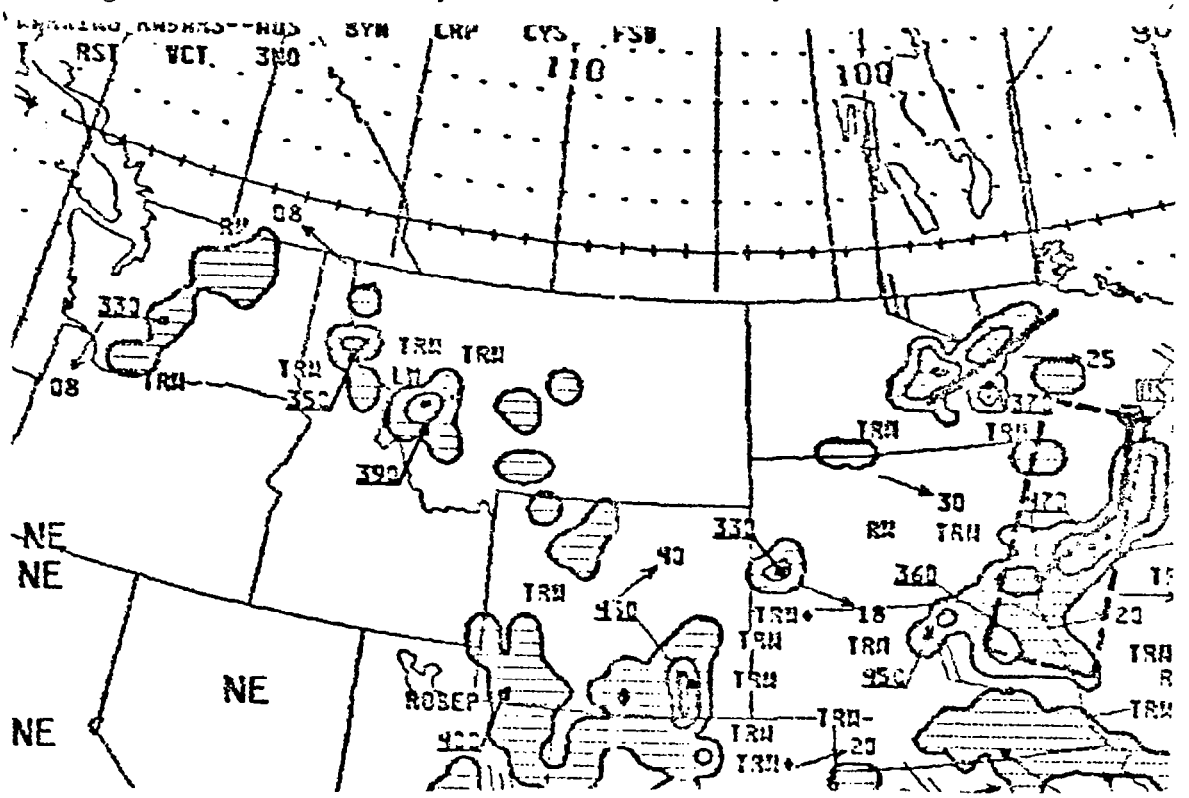

Fig. 13d. Radar Summary for 2135 GMT 24 July 1981.

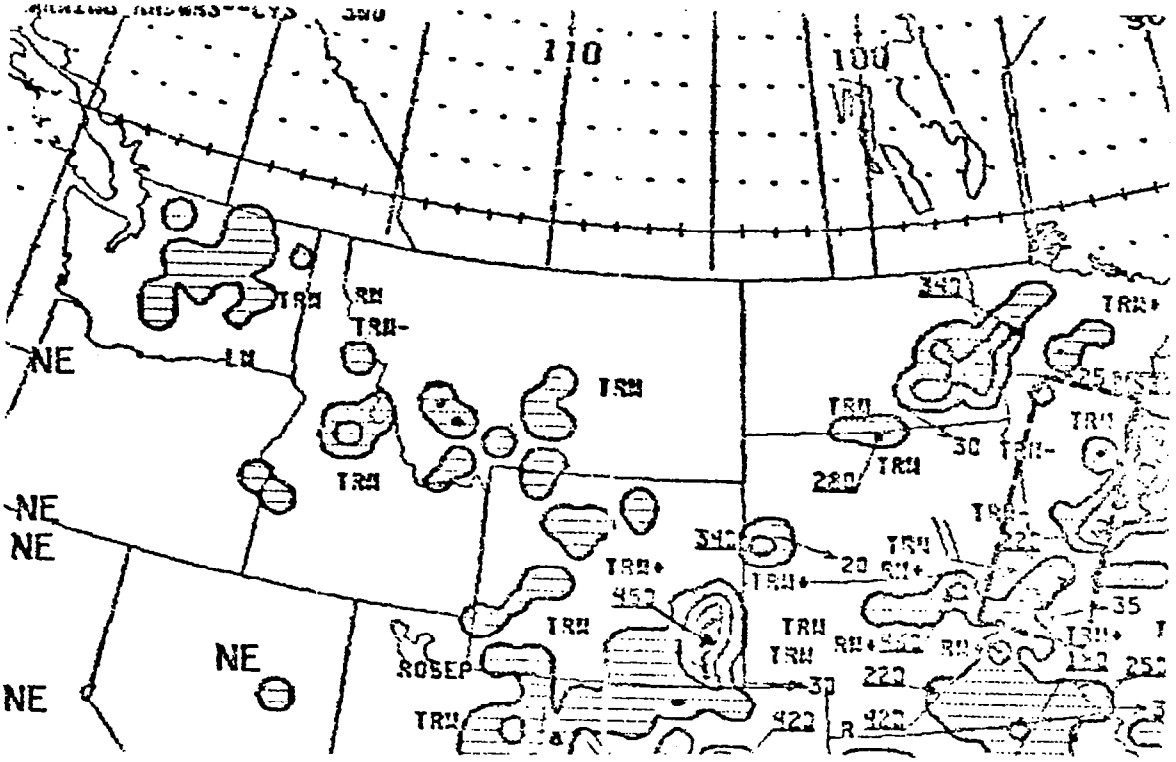

Fig. 13e. Radar Summary for 2235 GMT 24 July 1981.

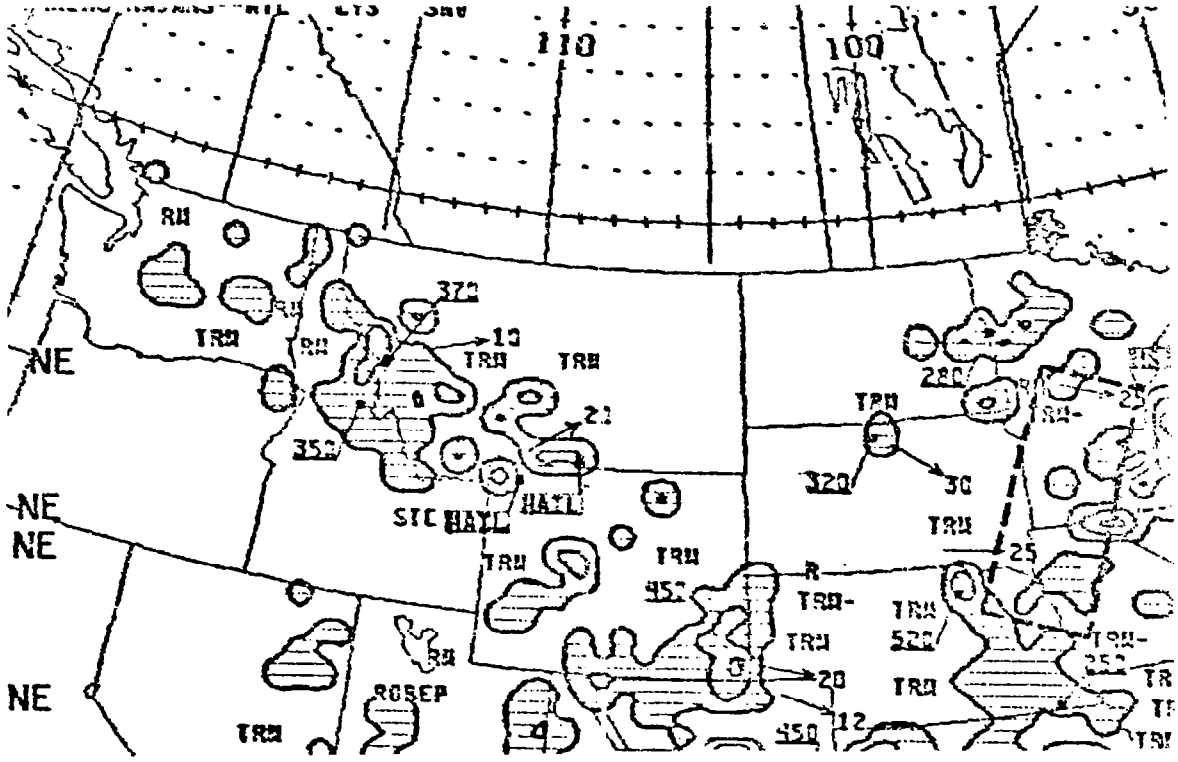

Fig. 13f. Radar Summary for 2335 GMT 24 July 1981.

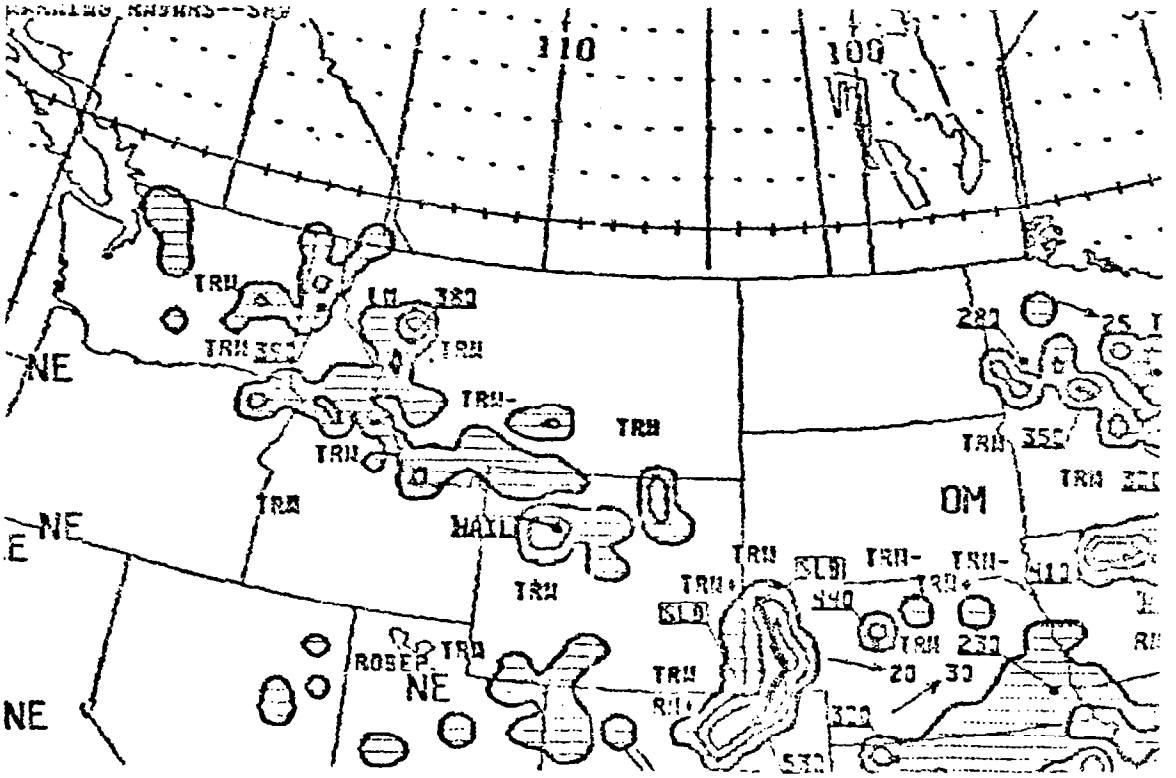

Fig. 13g. Radar Summary for 0135 GMT 25 July 1981.

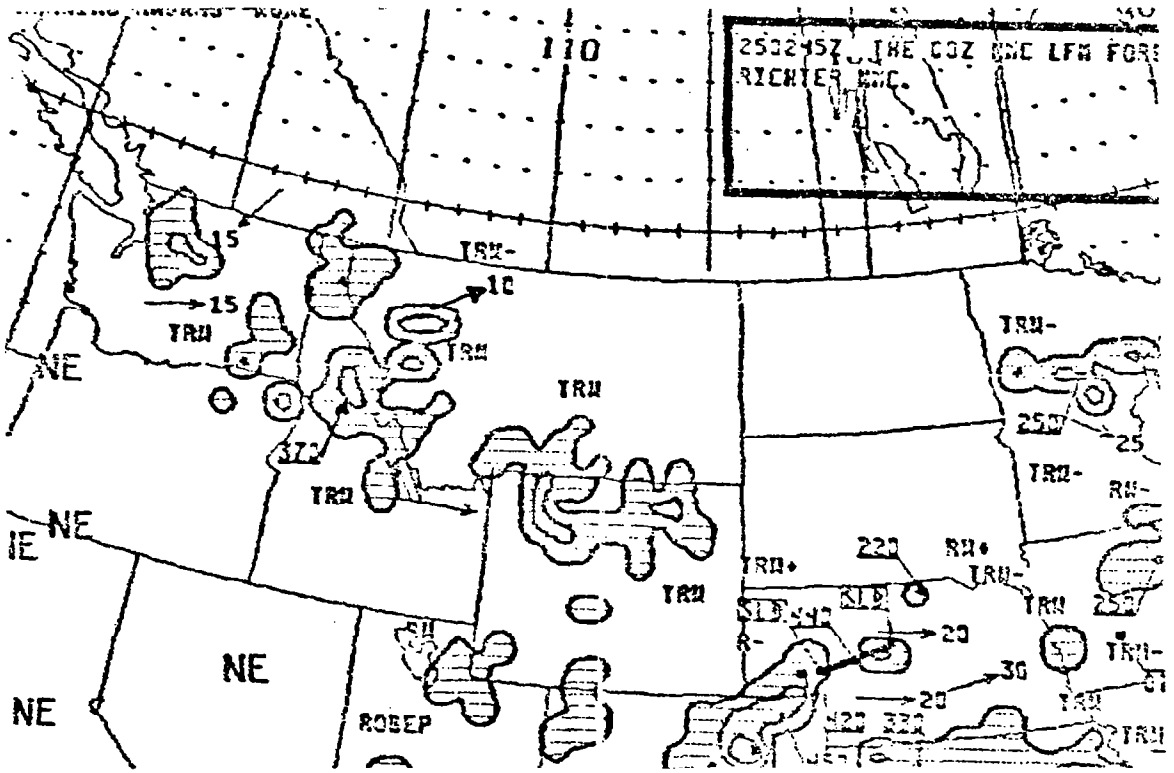

Fig. 13h. Radar Summary for 0235 GMT 25 July 1981.

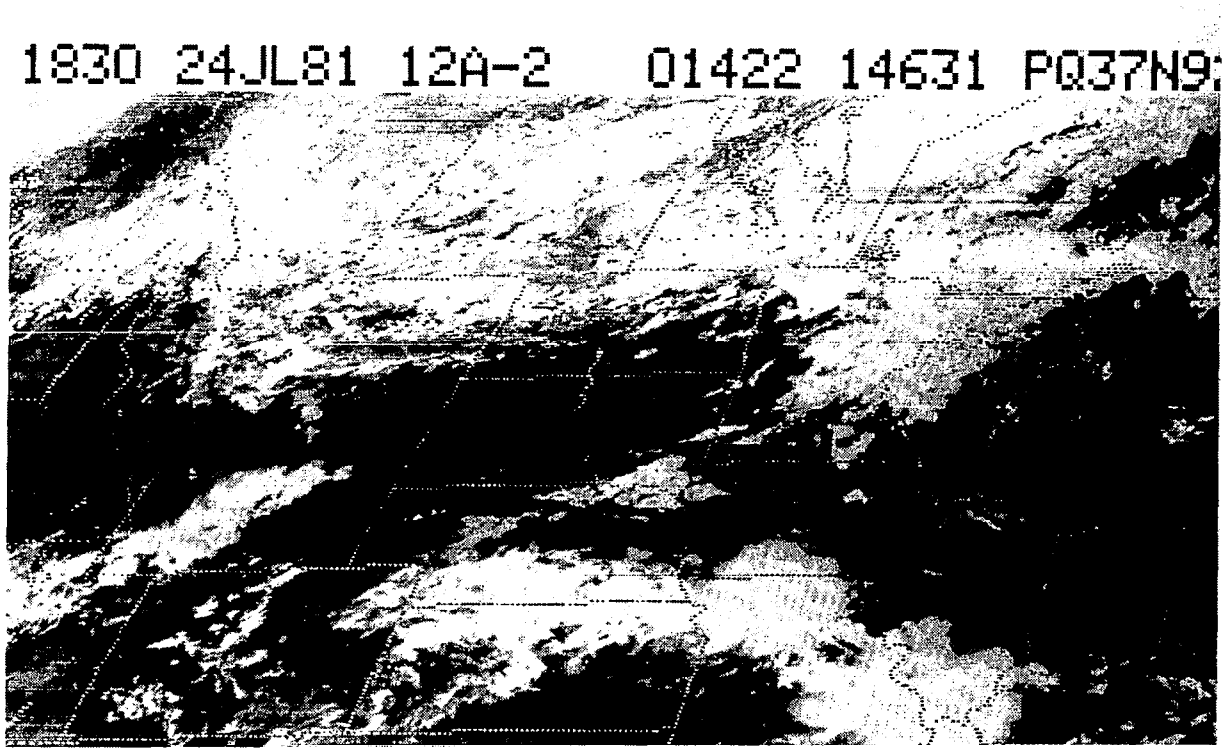

Fig. 14a. Satellite Picture for 1830 GMT 24 July 1981.

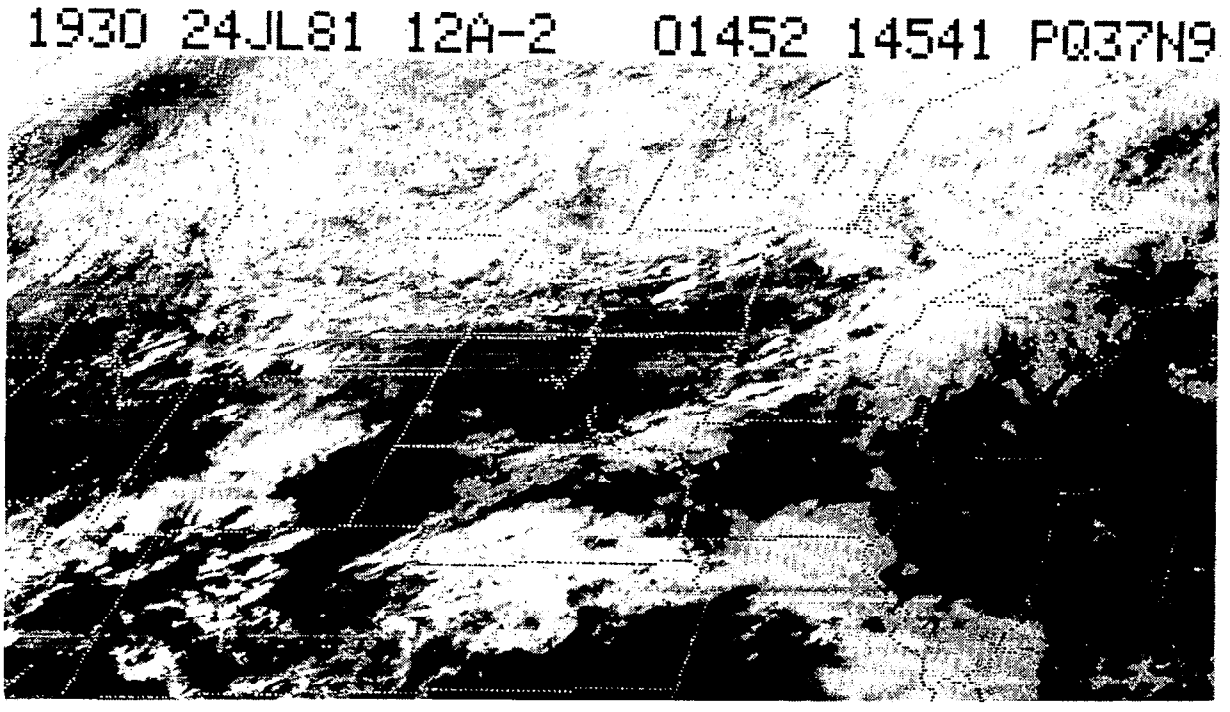

Fig. 14b. Satellite Picture for 1930 GMT 24 July 1981.

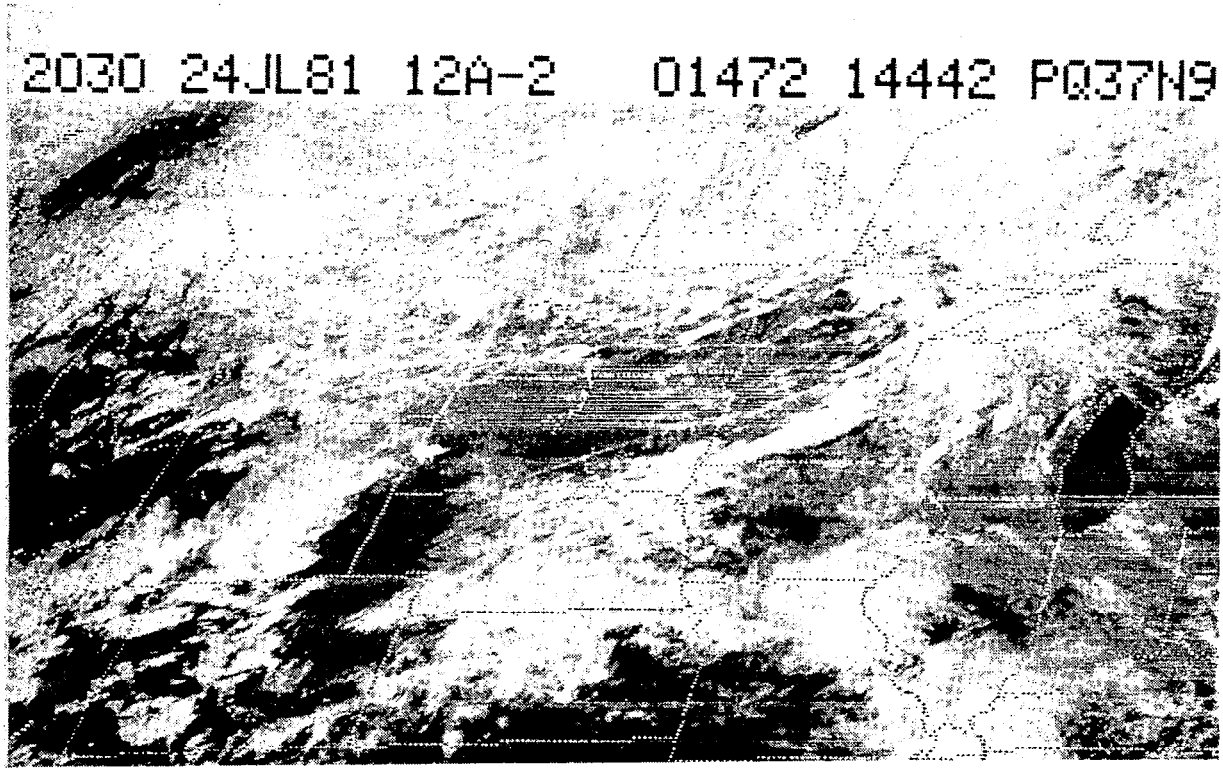

Fig. 14c. Satellite Picture for 2030 GMT 24 July 1981.

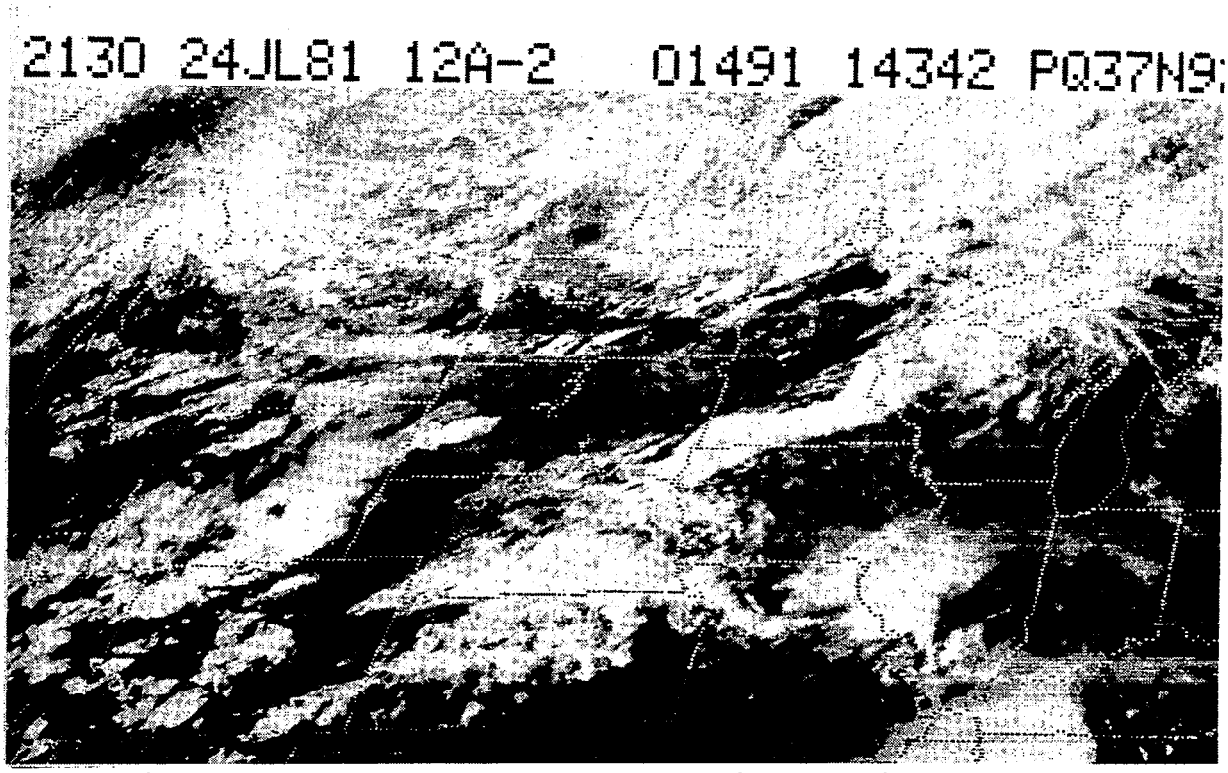

Fig. 14d. Satellite Picture for 2130 GMT 24 July 1981.

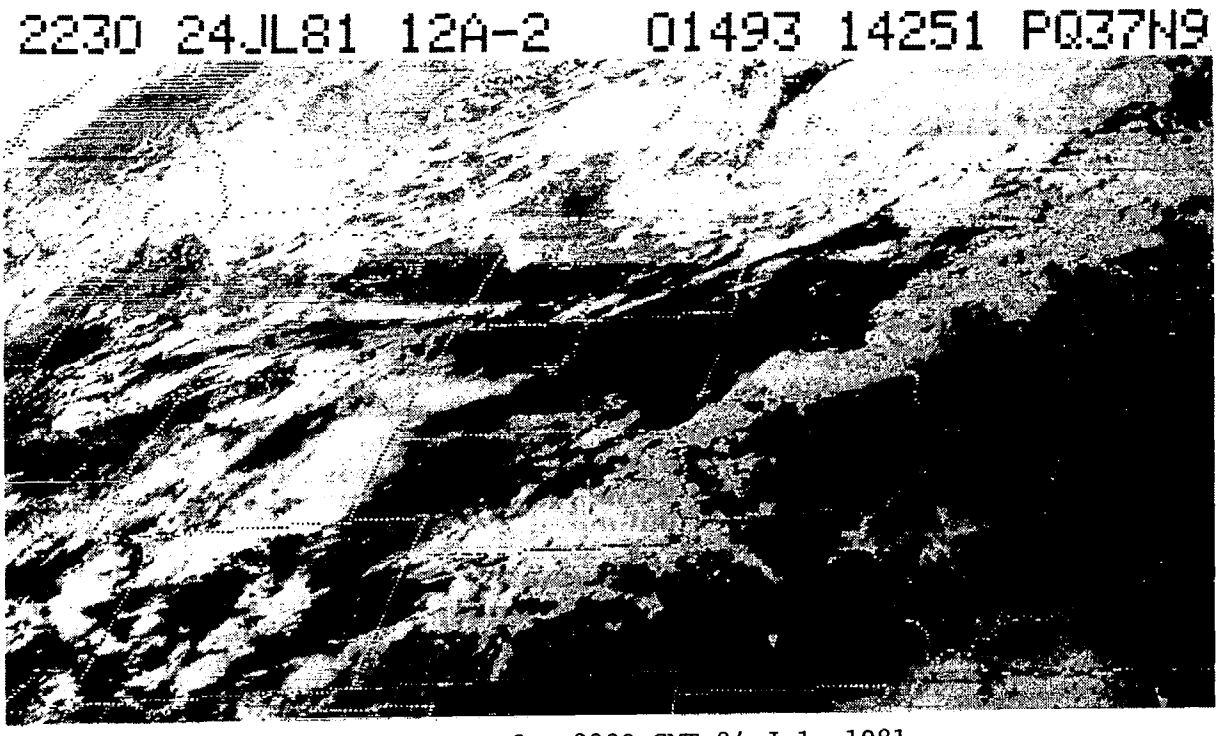

Fig. 14e. Satellite Picture for 2230 GMT 24 July 1981.

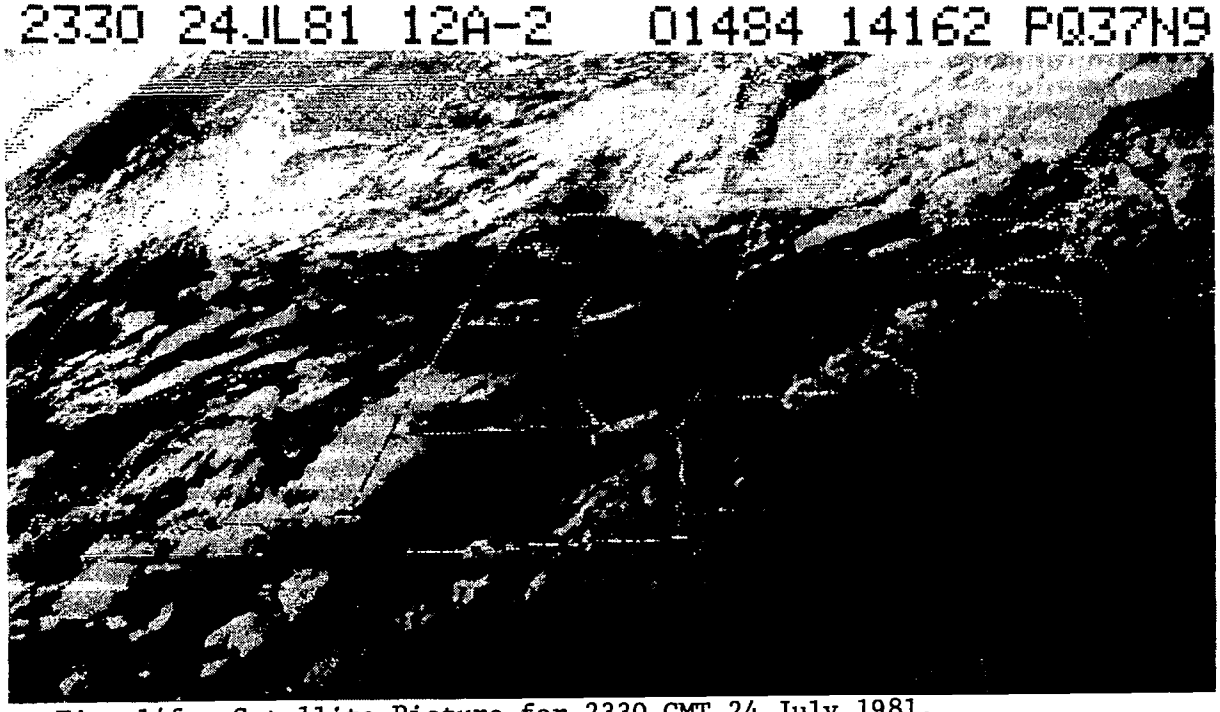

Fig. 14f. Satellite Picture for 2330 GMT 24 July 1981.

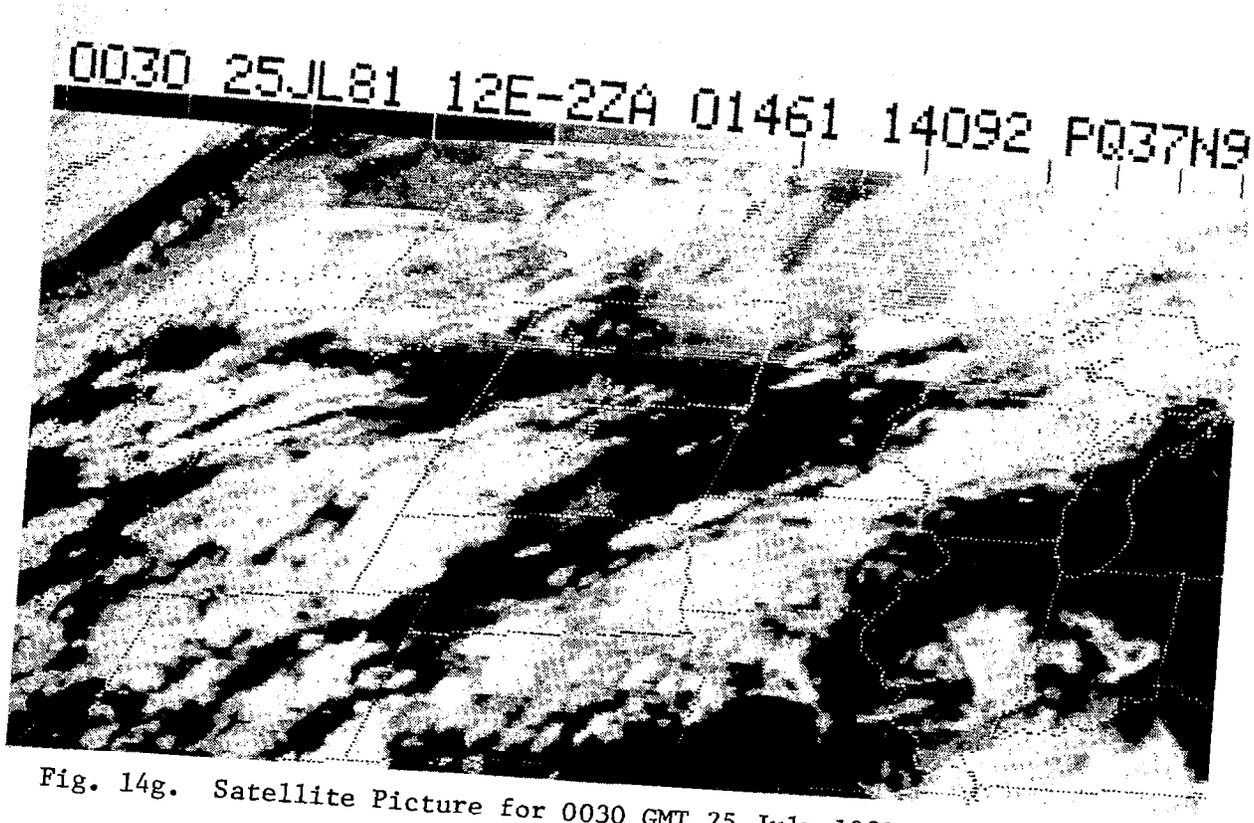

Fig. 14g. Satellite Picture for 0030 GMT 25 July 1981.

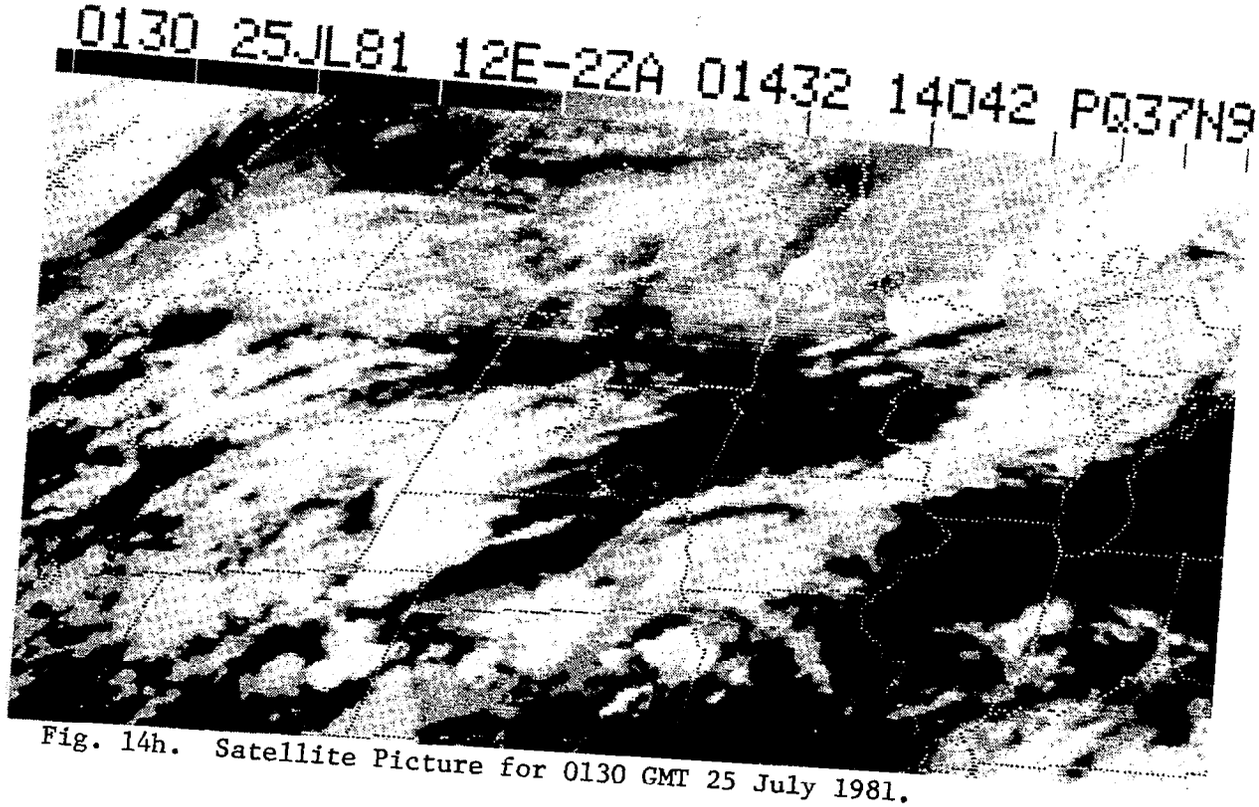

Fig. 14h. Satellite Picture for 0130 GMT 25 July 1981.

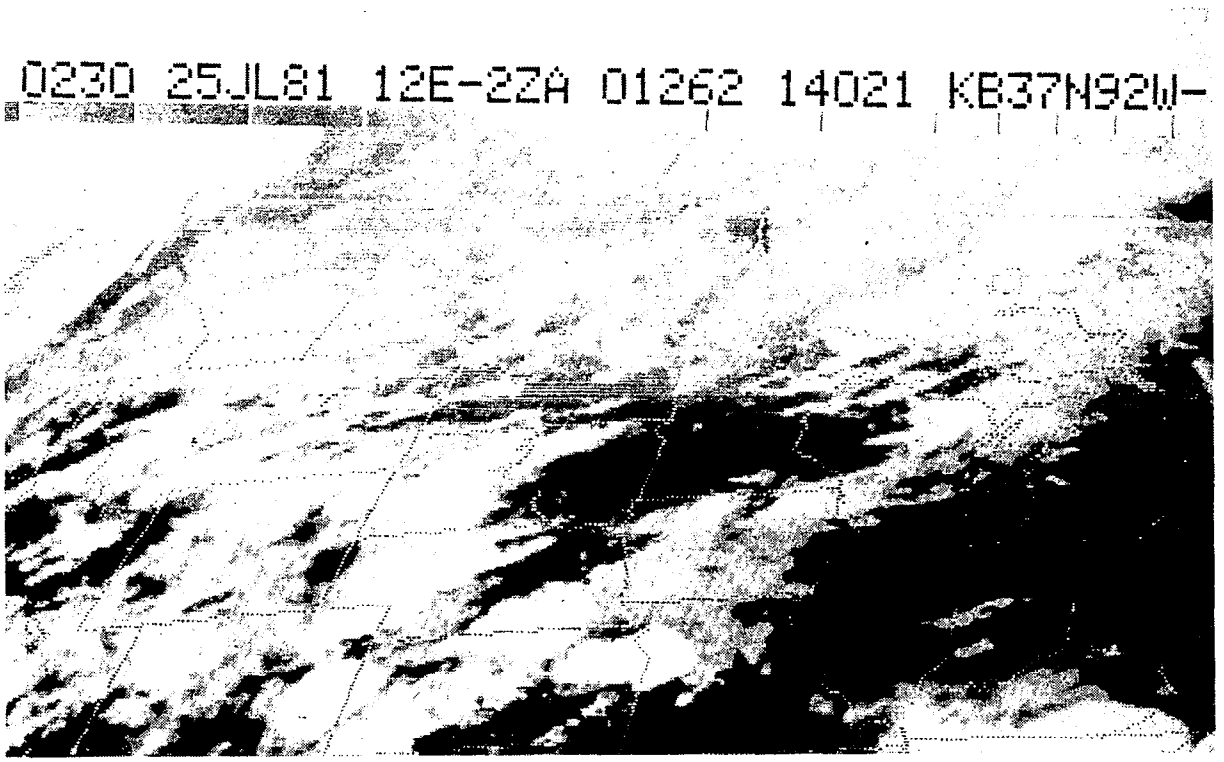

Fig. 14i. Satellite Picture for 0230 GMT 25 July 1981.

D. Synoptic Conditions for 1200 GMT 30 July to 0000 GMT 31 July 1981

The period opened with a surface front orientated north-south in the vicinity of the meso-net area, Fig. 15a. To the east, most of the area was covered with fog and drizzle. A few thunderstorms were north of the meso-net area. The 850-mb map, Fig. 15c, indicates that there were marked cold and warm fronts in the area and strong warm and cold advection associated with the fronts. The 700-mb map, Fig. 15d, shows the warm and cold advection. The higher level maps show a low to the north with a strong narrow jet just south of the low.

Twelve hours later at 310000 GMT the surface front had moved eastward into the Dakotas and had a very tight pressure gradient to the warm side, Fig. 16a. Figure 16c shows that the temperature gradient is still strong for both fronts. The 700-mb temperature pattern was supportive of the fronts. The 700-mb trough had moved eastward about 5^{o}Longitude. Aloft two jets may have been in the area with the northern jet being the stronger and associated with the surface low and fronts, Figs. 15f and 16f.

The radar summaries, Fig. 17, show thunderstorms forming in the afternoon in the eastern part of the map along the cold front. Severe weather "boxes" were forecast. The "boxes" can be seen in Figs. 17c, d, e, f, and g.

The satellite pictures, Fig. 18, indicate that the meso-net area was free of clouds. The first several pictures, Figs 18a to 18e, show the stratus some distance ahead of the warm front. Then the last pictures, Figs. 18e to 18f, show the very rapid development of cumulus clouds. The development of the thunderstorms is displayed well in the last three pictures, Figs. 18g to 18j.

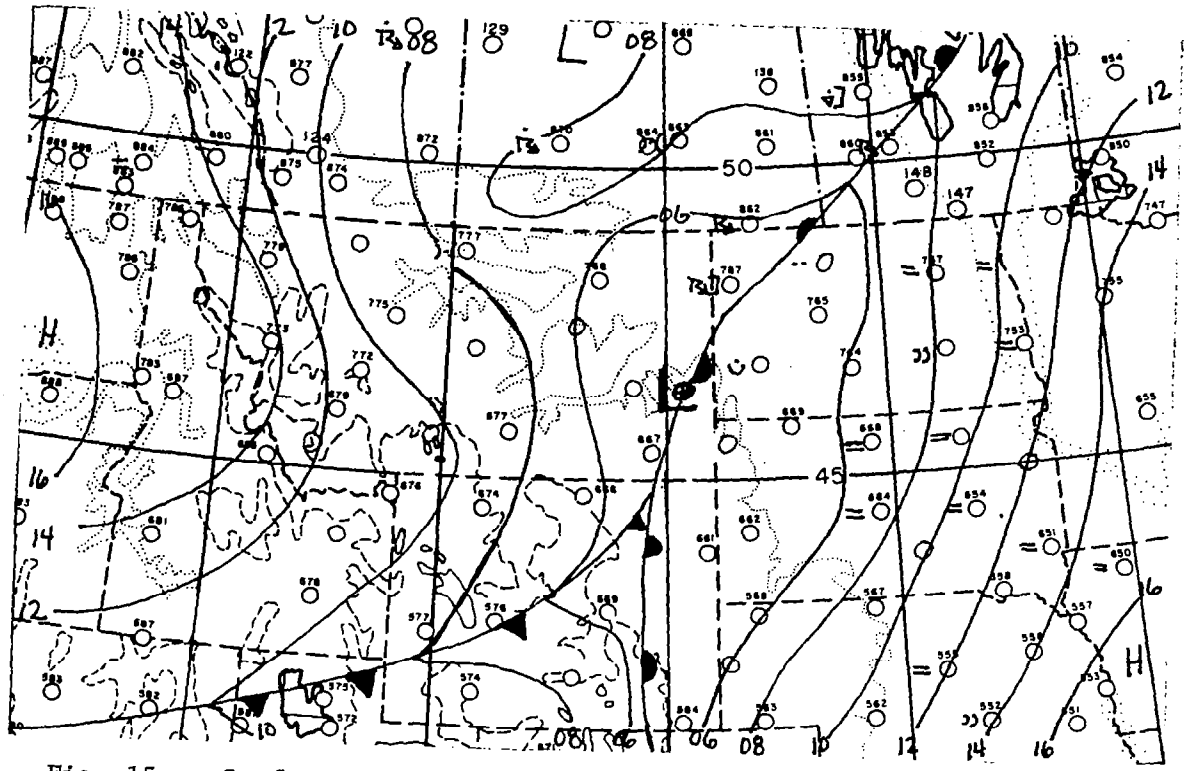

Fig. 15a. Surface Map Analysis and Weather for 1200 GMT 30 July 1981.

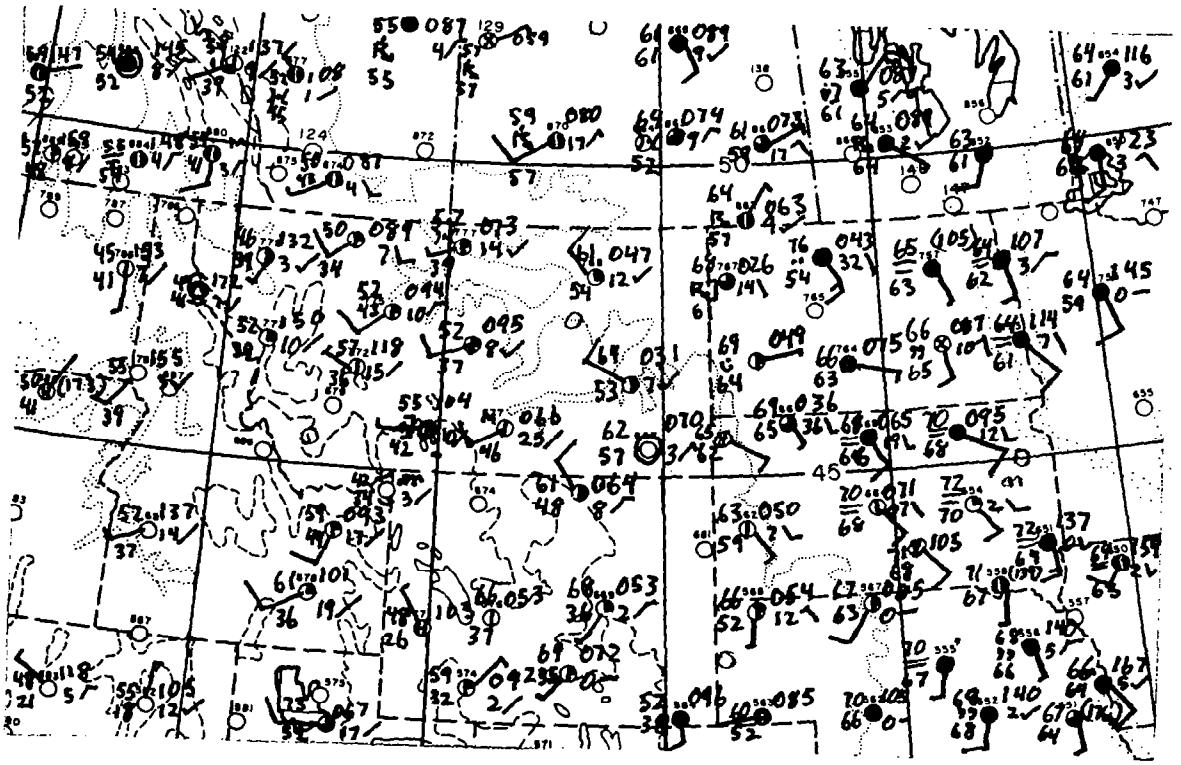

Fig. 15b. Surface Map Data for 1200 GMT 30 July 1981.

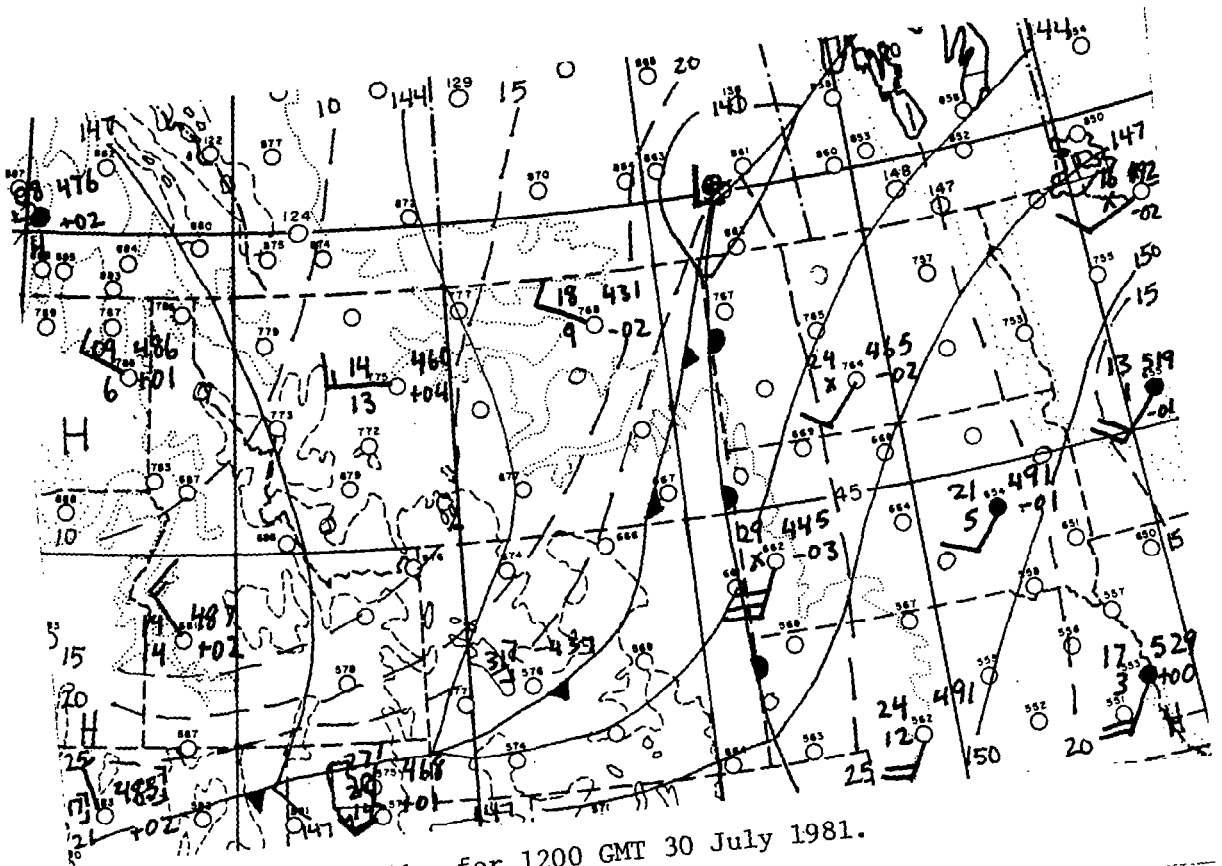

Fig. 15c. 850 mb Map for 1200 GMT 30 July 1981.

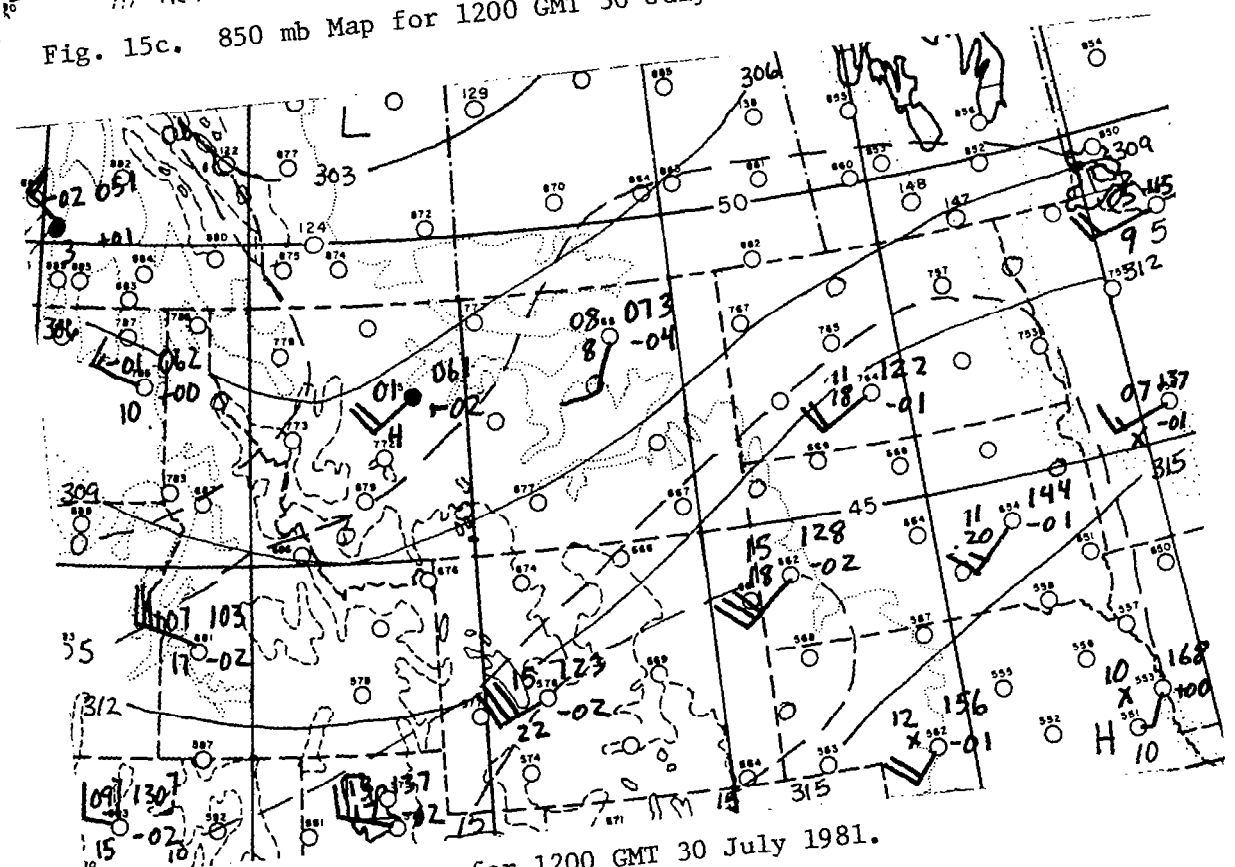

Fig. 15d. 700 mb Map for 1200 GMT 30 July 1981.

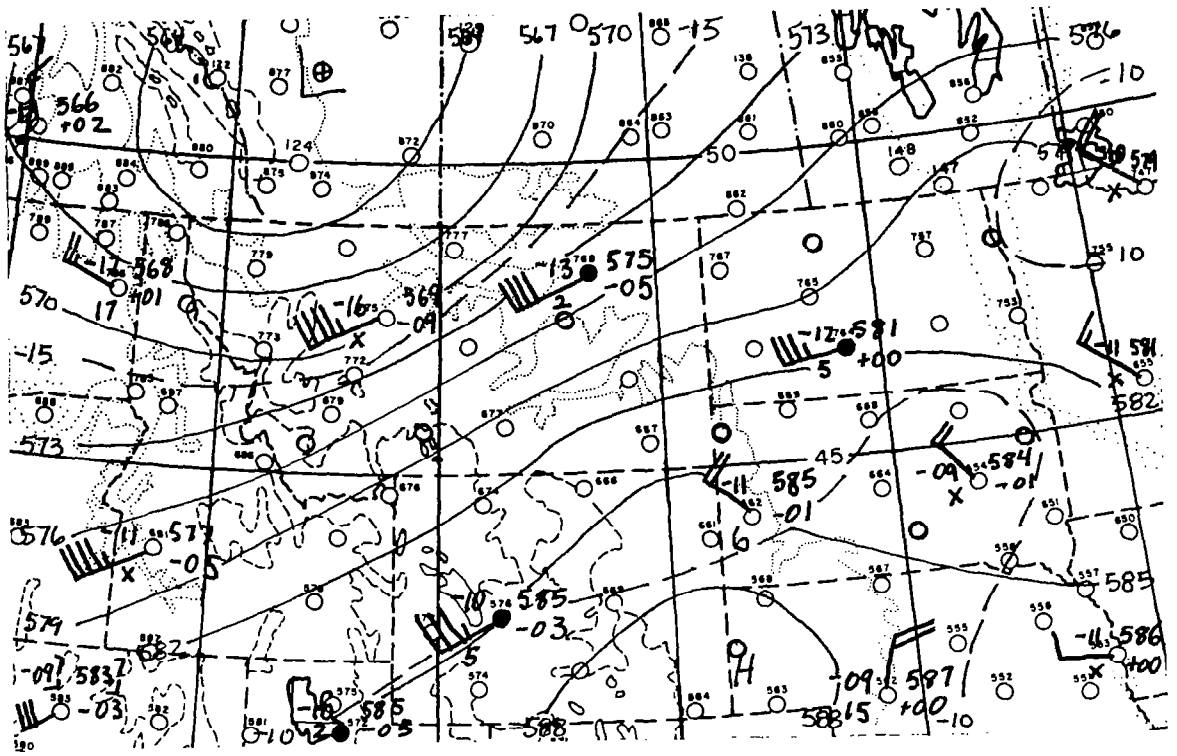

Fig. 15e. 500 mb Map for 1200 GMT 30 July 1981.

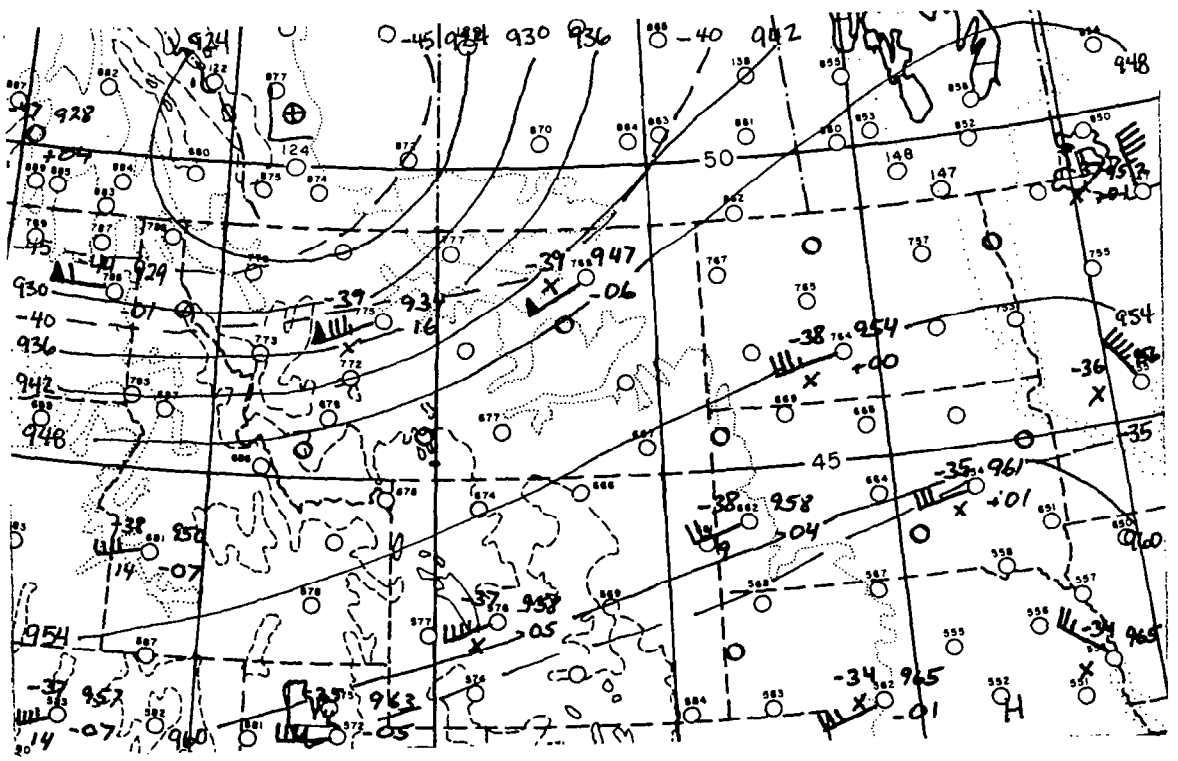

Fig. 15f. 300 mb Map for 1200 GMT 30 July 1981.

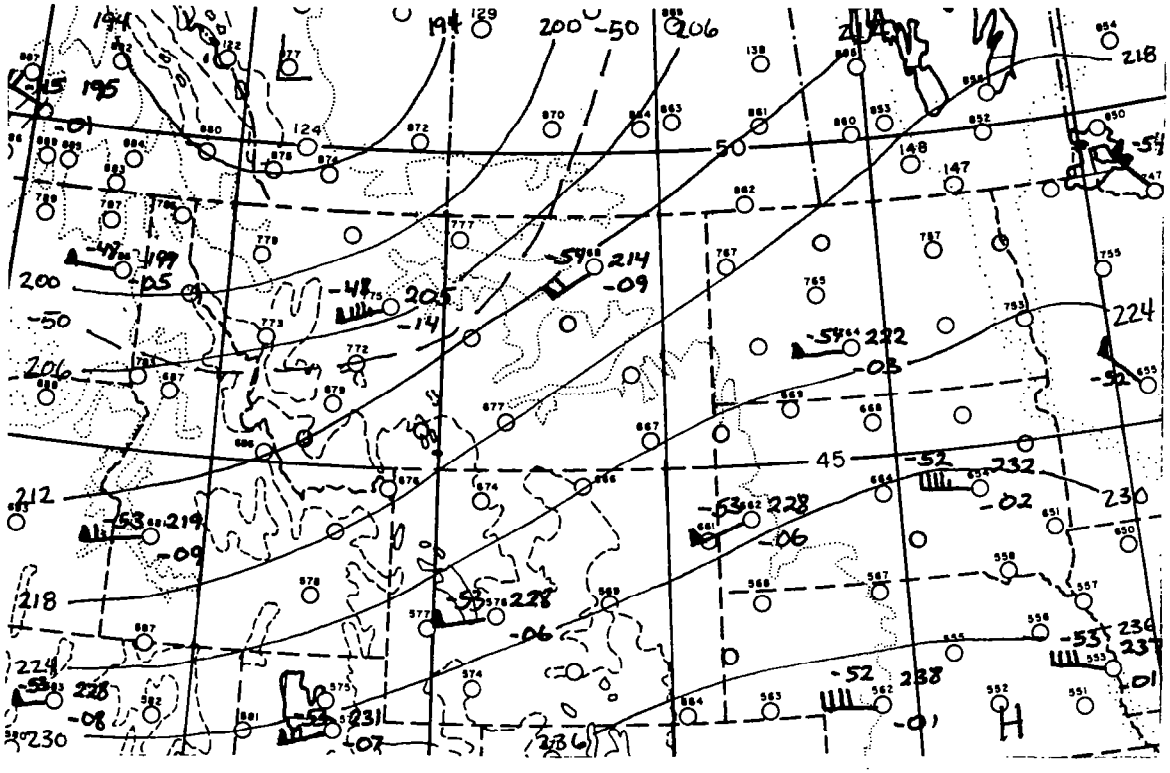

Fig. 15g. 200 mb Map for 1200 GMT 30 July 1981.

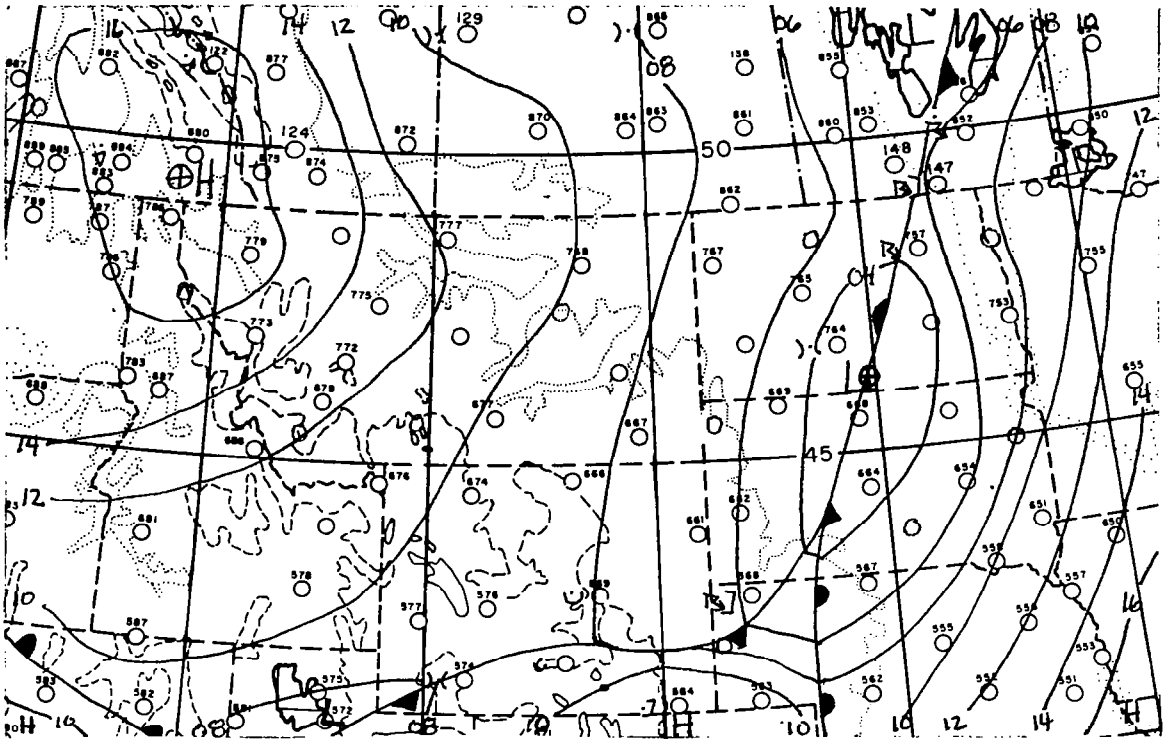

Fig. 16a. Surface Map Analysis and Weather for 0000 GMT 31 July 1981.

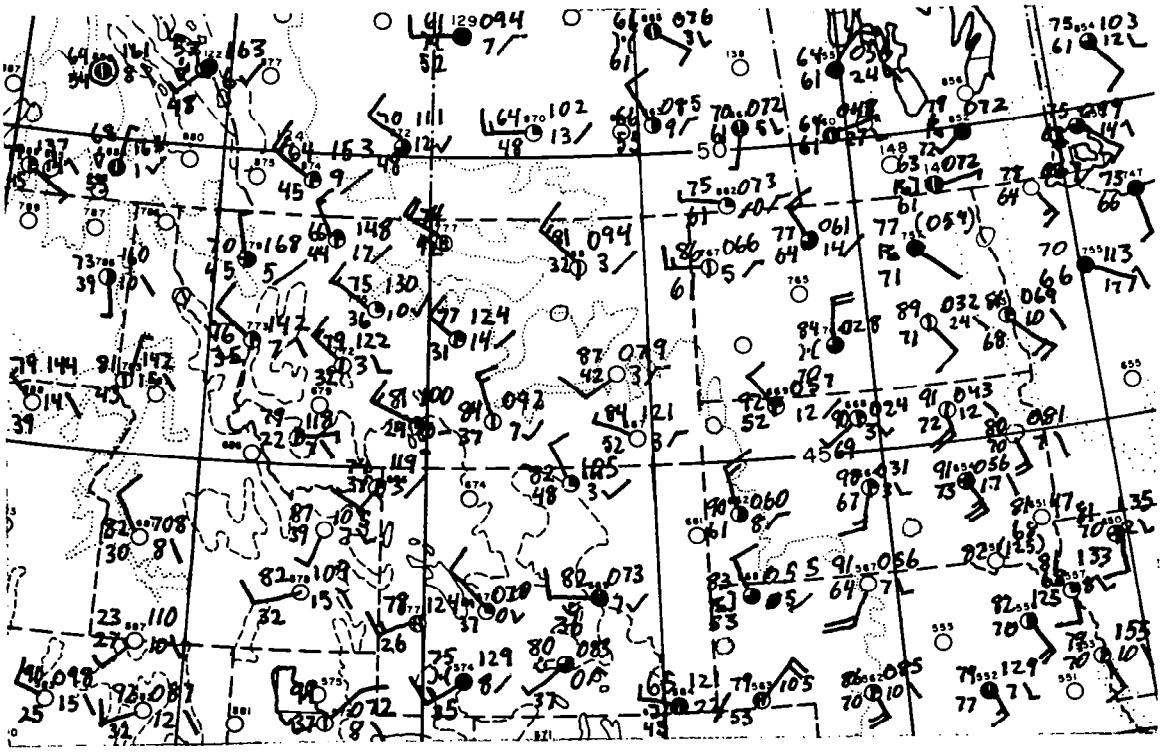

Fig. 16b. Surface Map Data for 0000 GMT 31 July 1981.

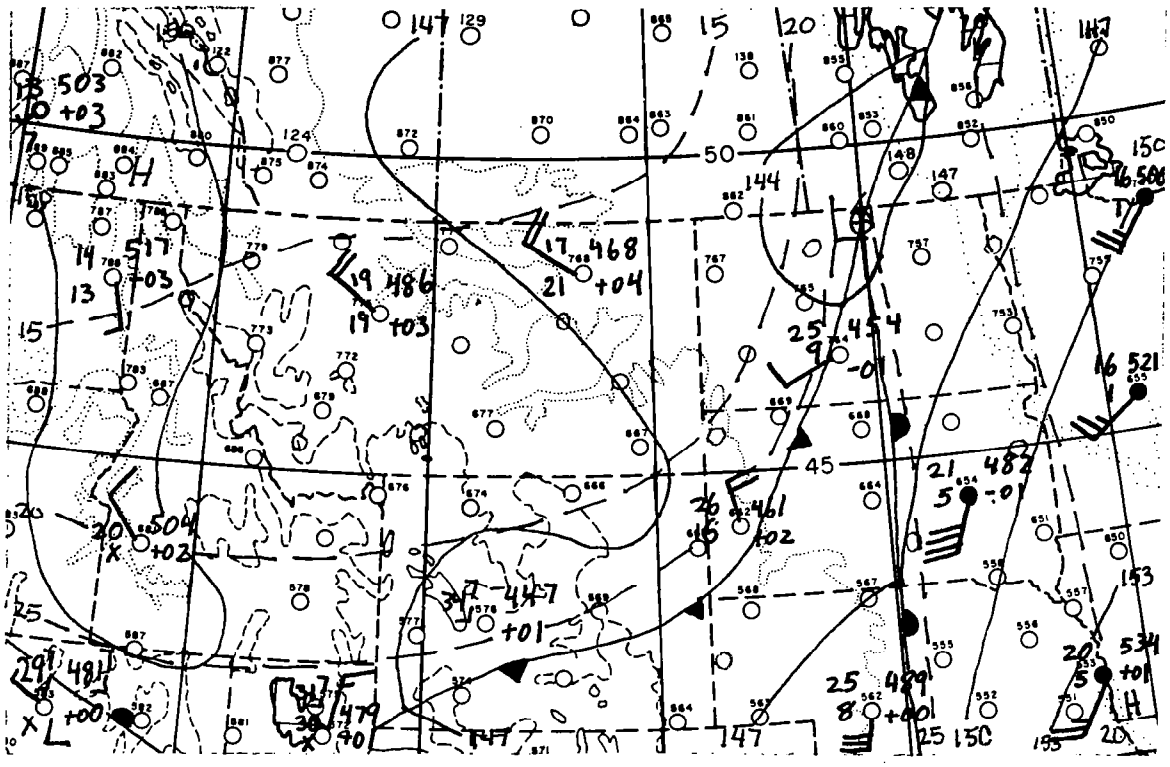

Fig. 16c. 850 mb Map for 0000 GMT 31 July 1981.

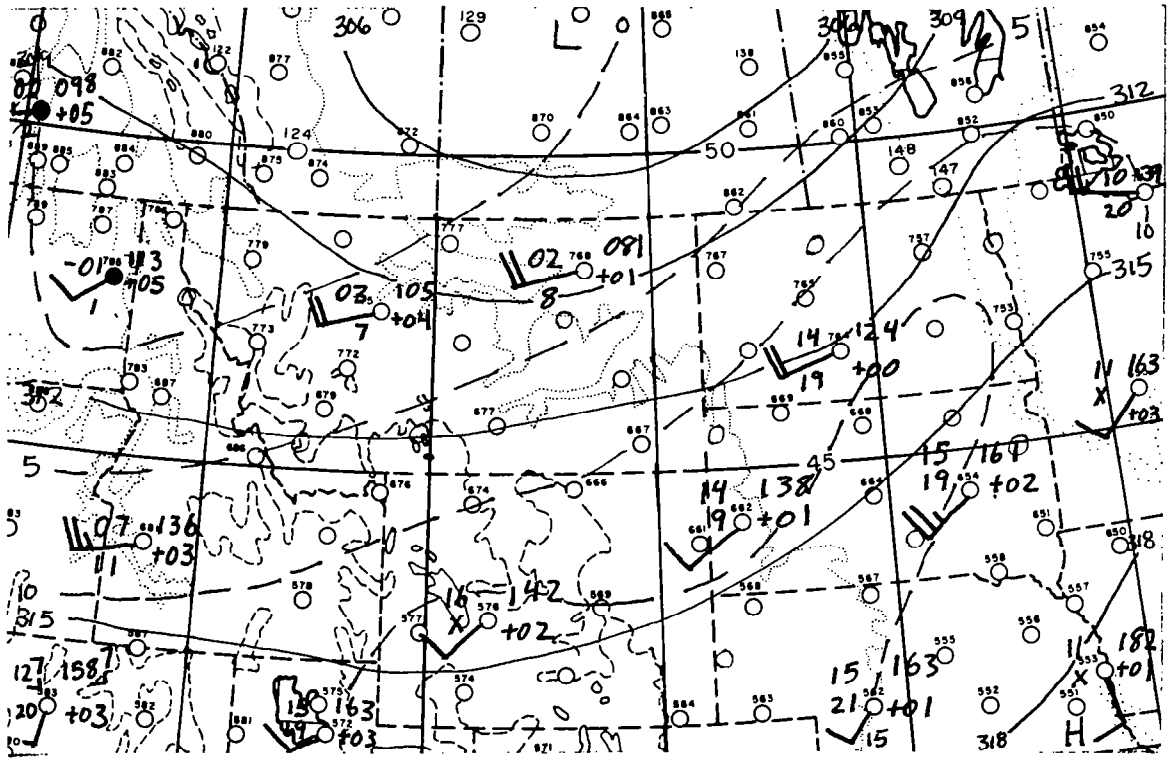

Fig. 16d. 700 mb Map for 0000 GMT 31 July 1981.

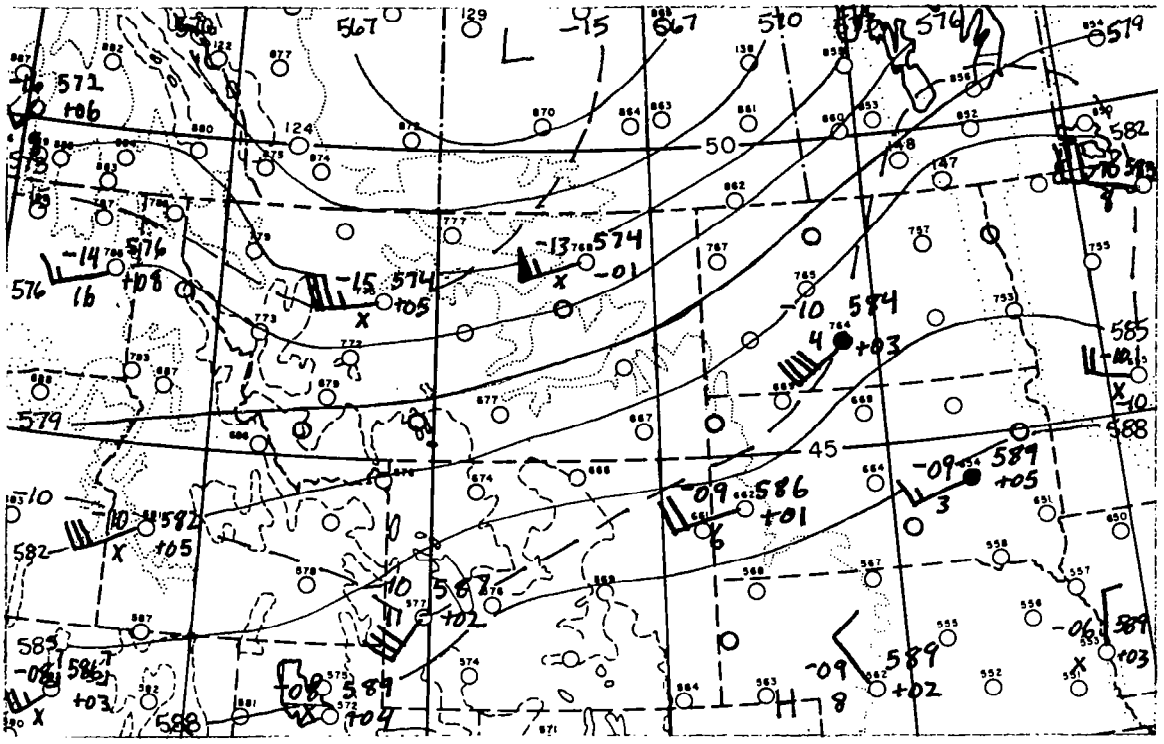

Fig. 16e. 500 mb Map for 0000 GMT 31 July 1981.

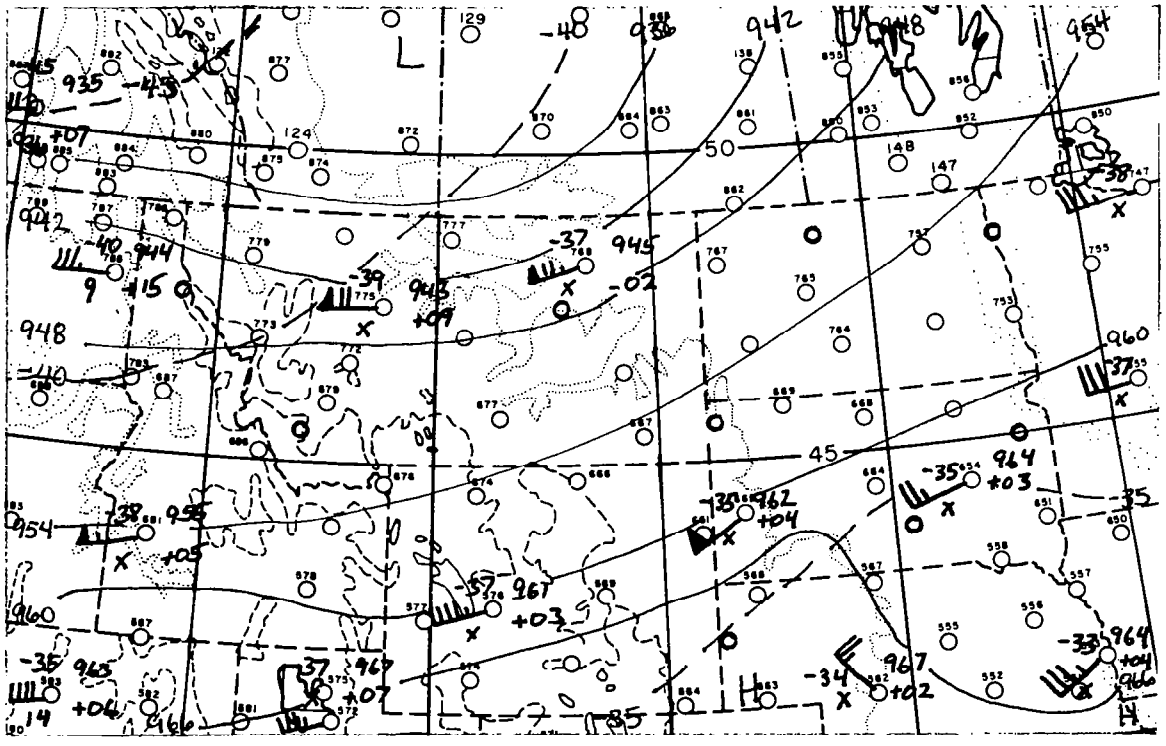

Fig. 16f. 300 mb Map for 0000 GMT 31 July 1981.

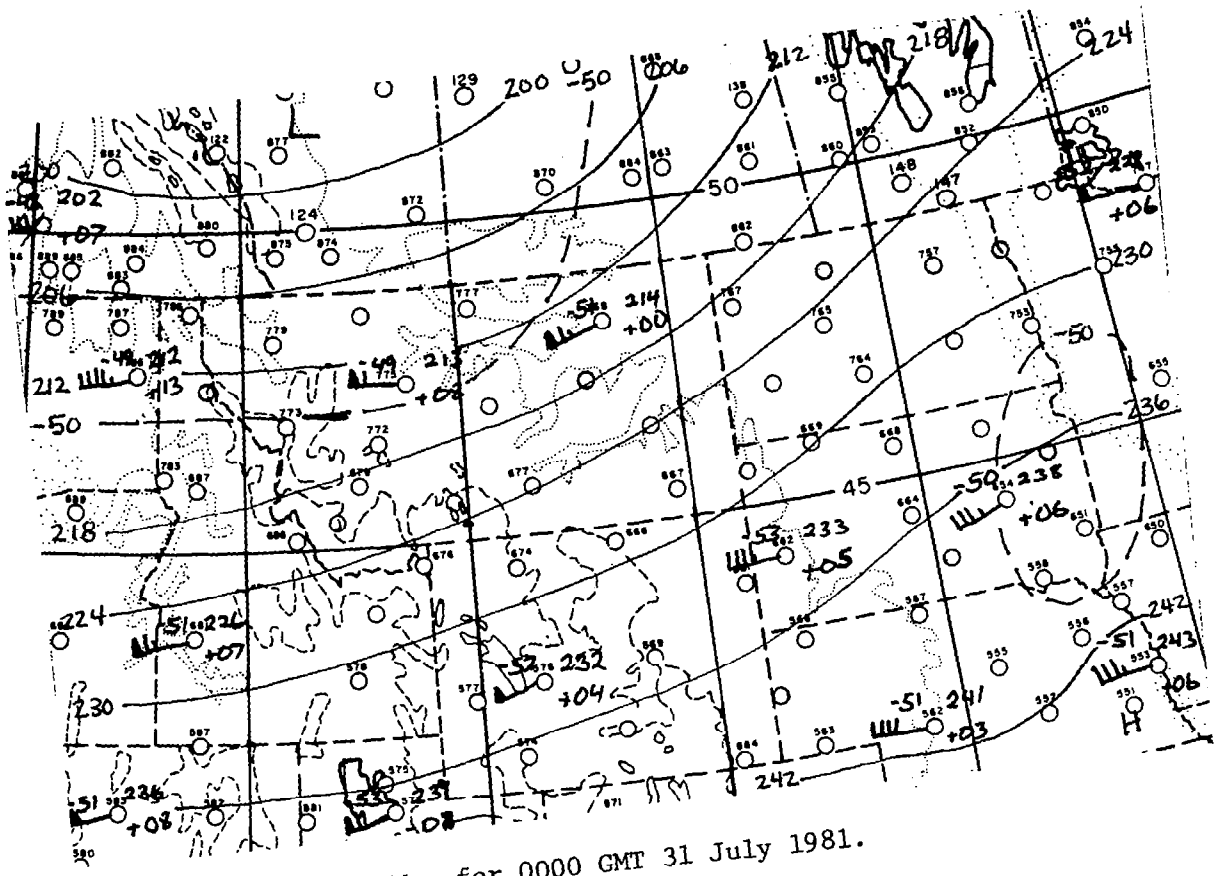

Fig. 16g. 200 mb Map for 0000 GMT 31 July 1981.

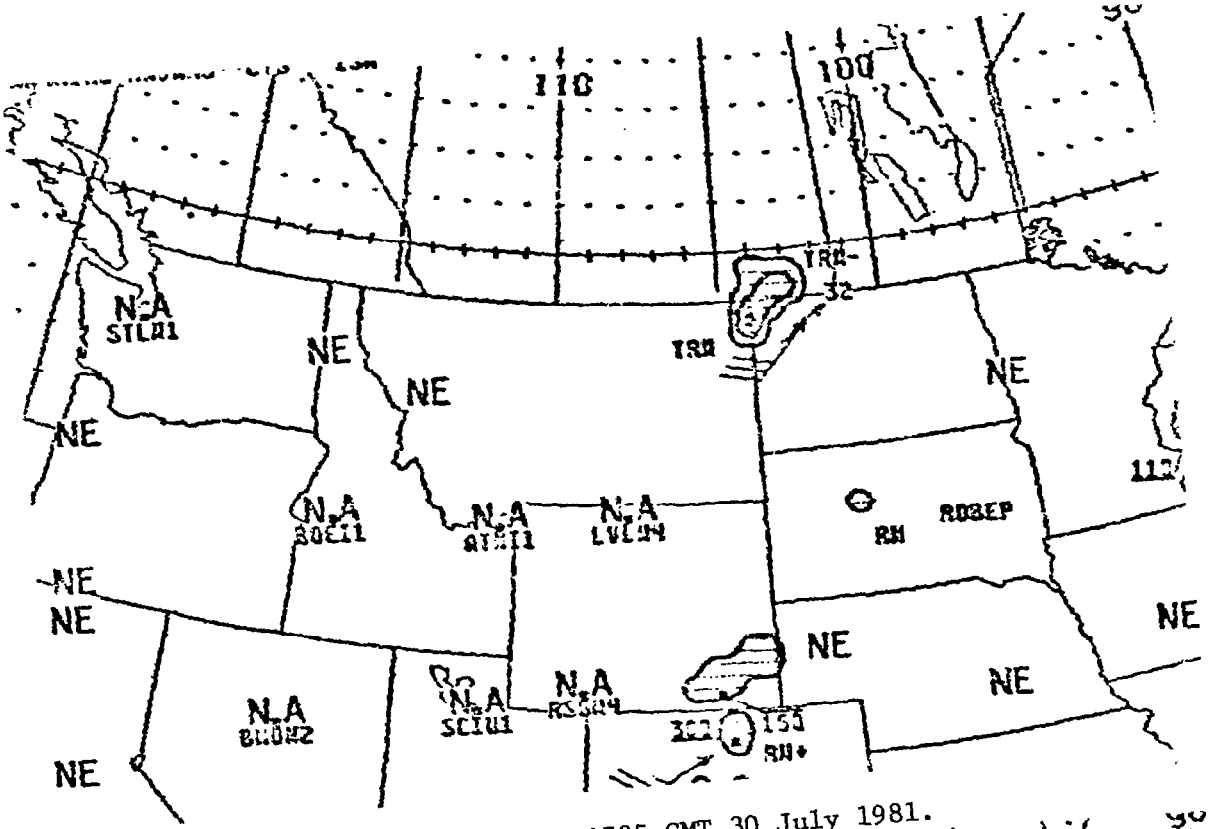

Fig. 17a. Radar Summary for 1735 GMT 30 July 1981.

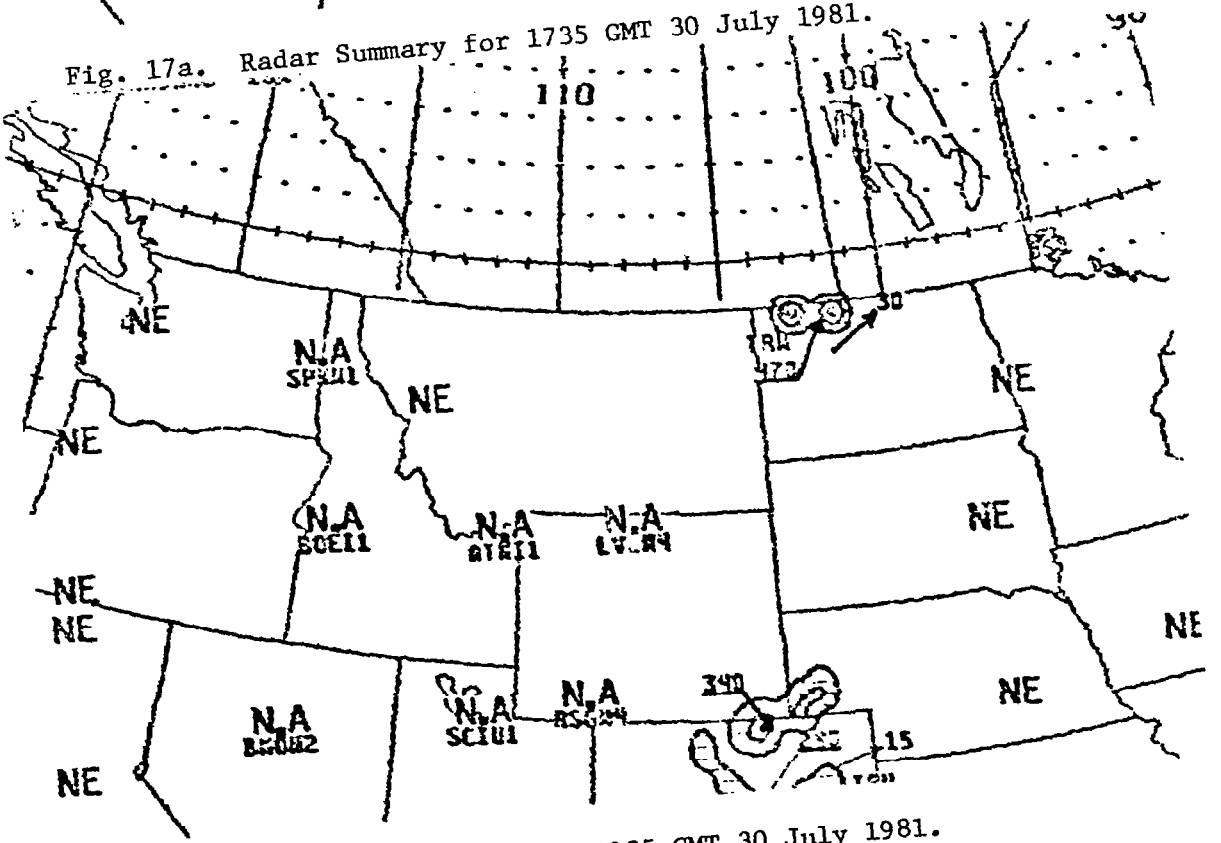

Fig. 17b. Radar Summary for 1935 GMT 30 July 1981.

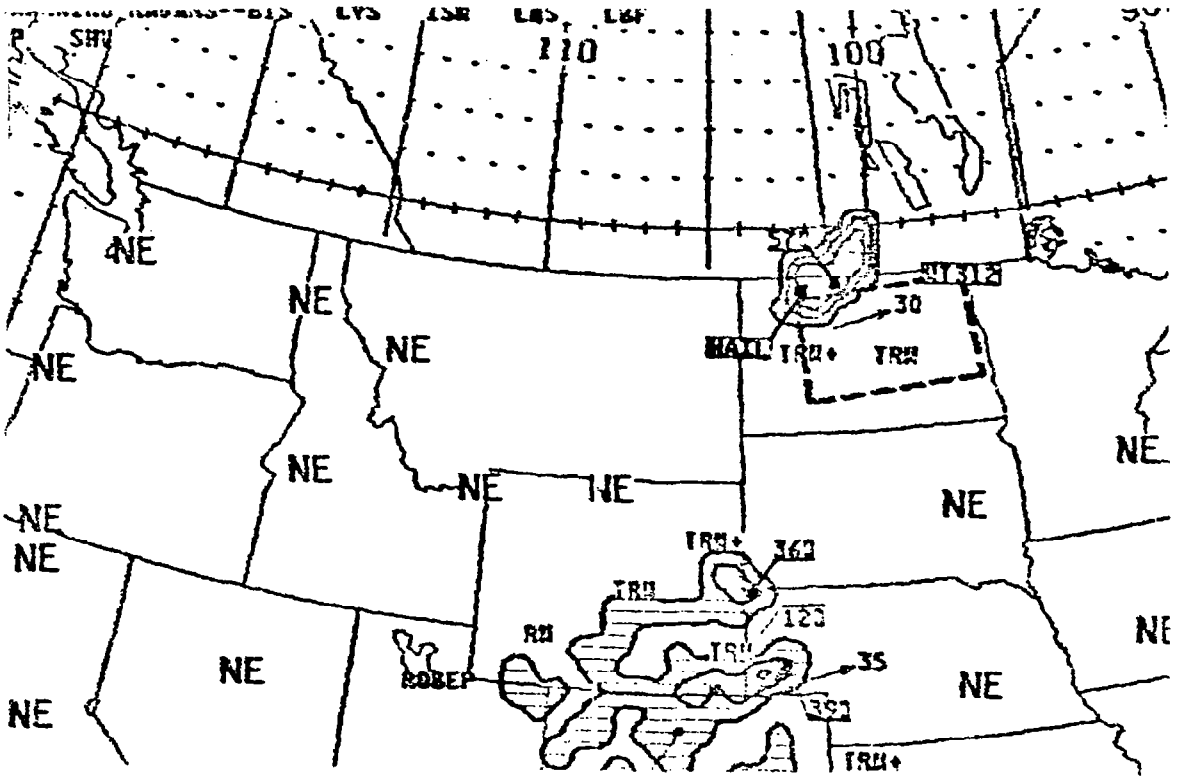

Fig. 17c. Radar Summary for 2035 GMT 30 July 1981.

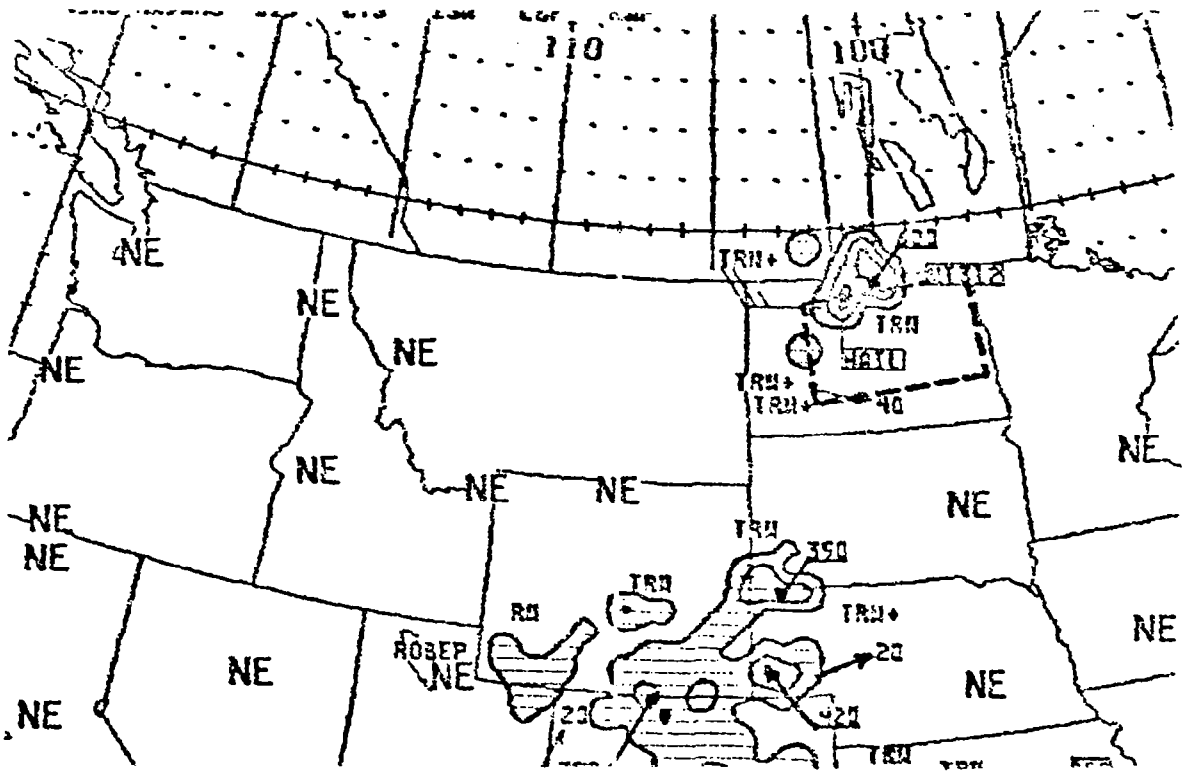

Fig. 17d. Radar Summary for 2135 GMT 30 July 1981.

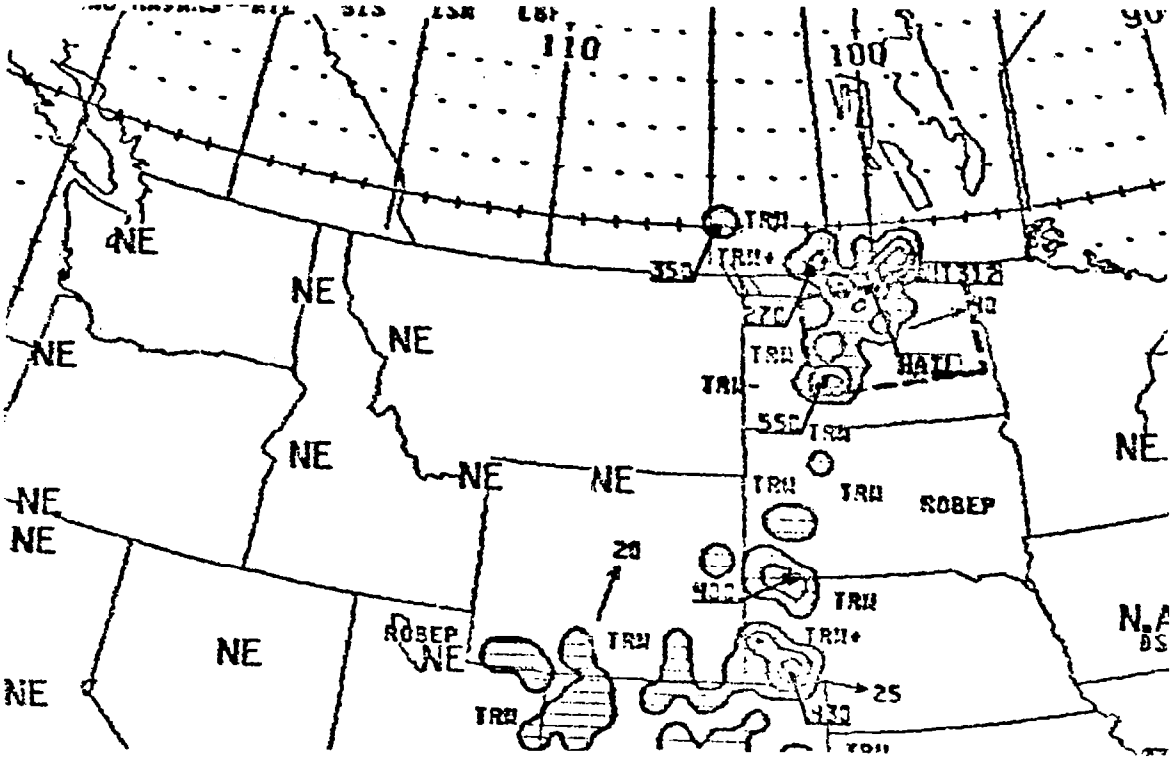

Fig. 17e. Radar Summary for 2235 GMT 30 July 1981.

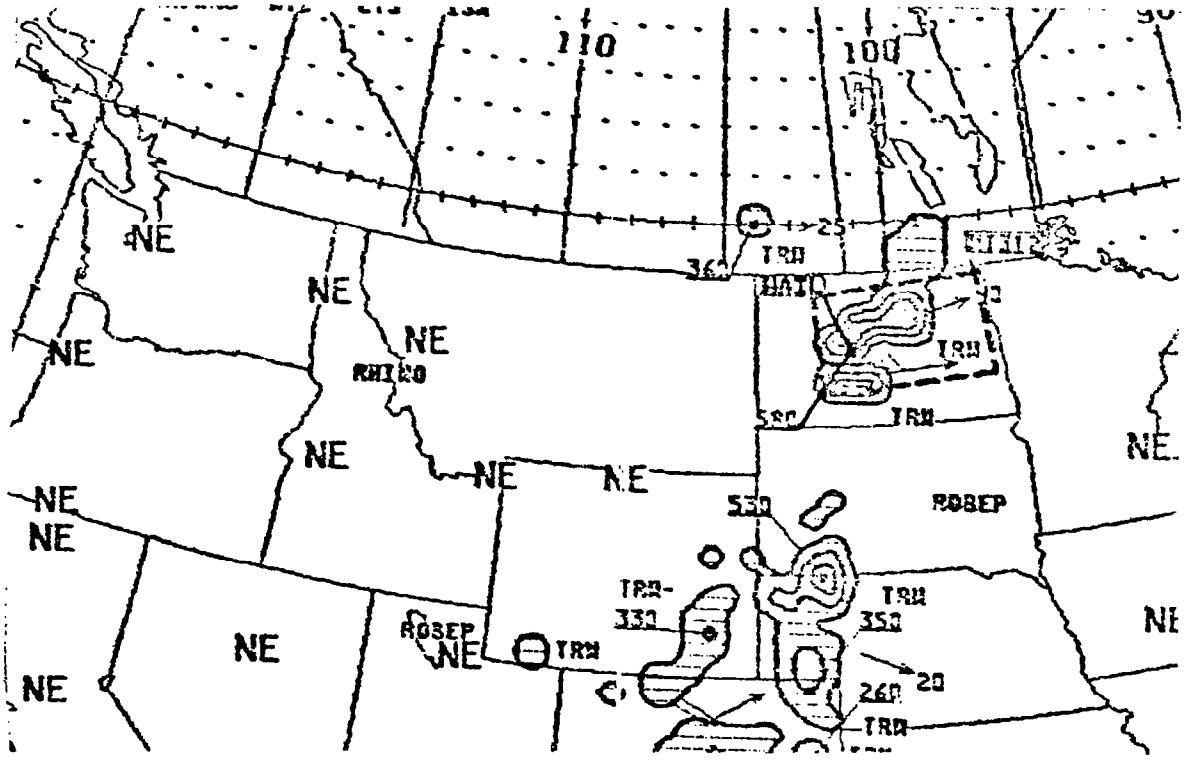

Fig. 17f. Radar Summary for 2335 GMT 30 July 1981.

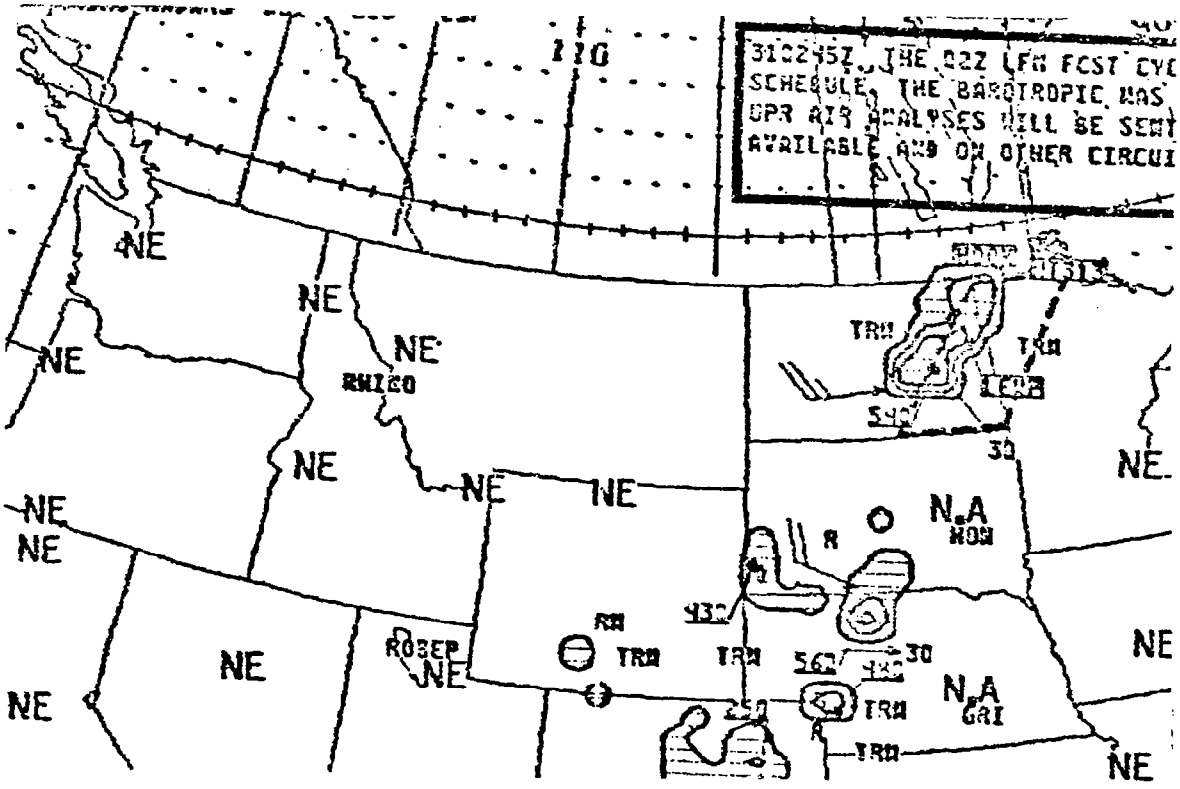

Fig. 17g. Radar Summary for 0235 GMT 31 July 1981.

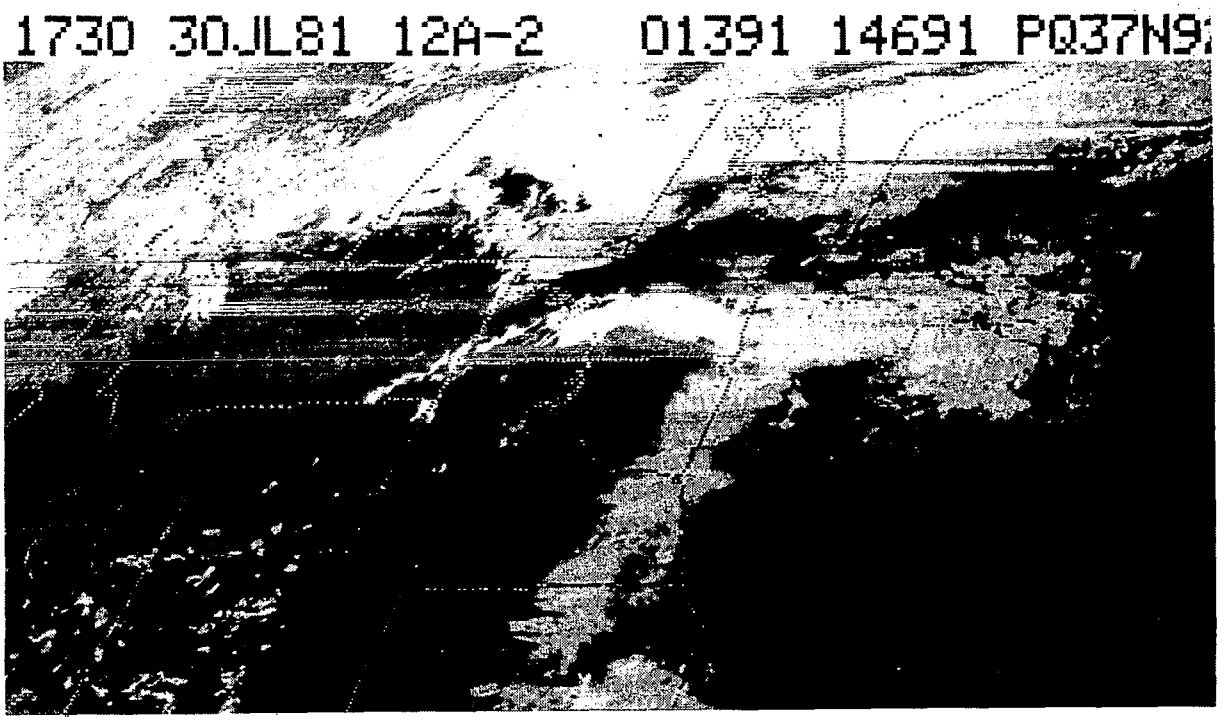

Fig. 18a. Satellite Pictures for 1730 GMT 30 July 1981.

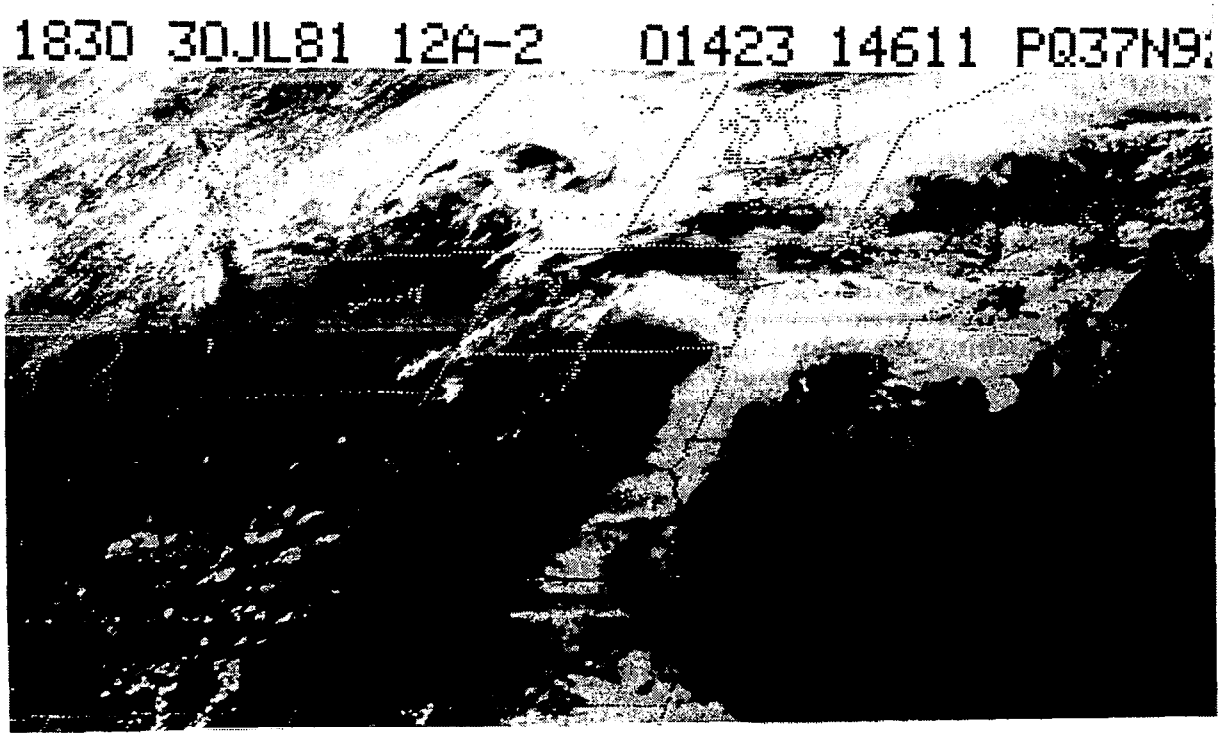

Fig. 18b. Satellite Picture for 1830 GMT 30 July 1981.

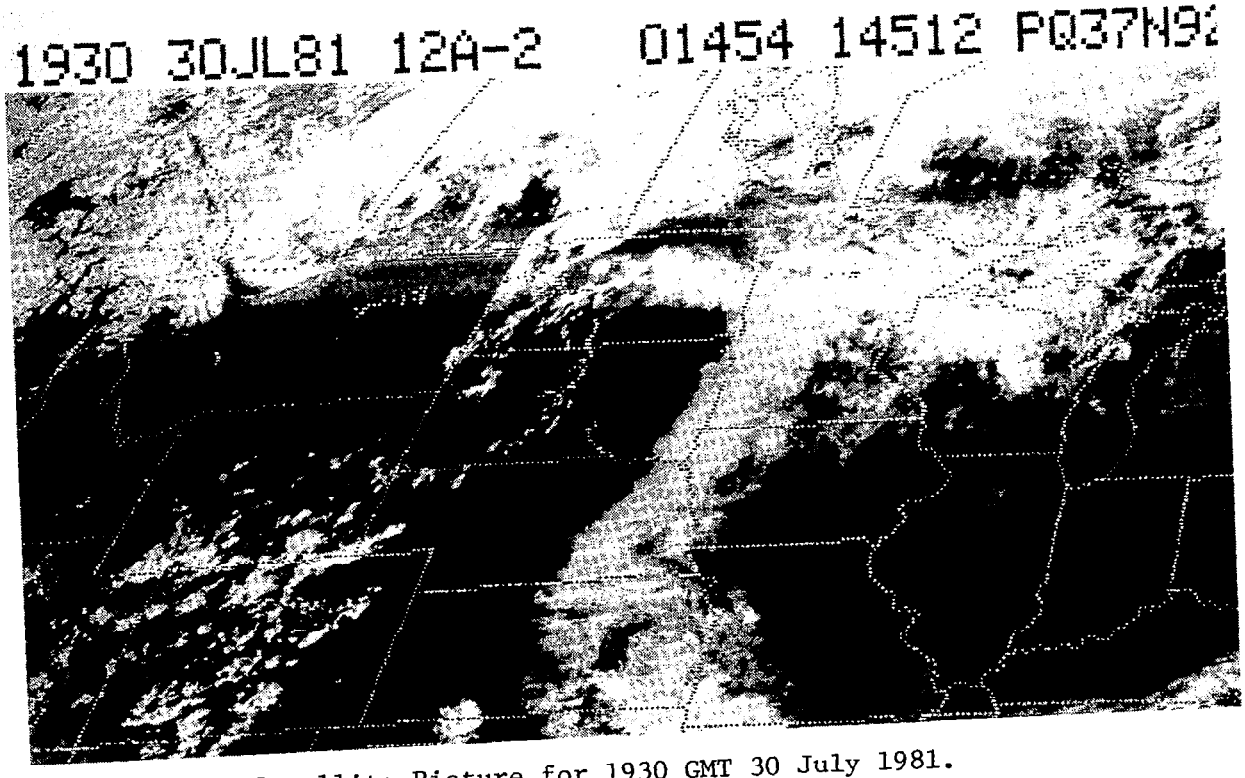

Fig. 18c. Satellite Picture for 1930 GMT 30 July 1981.

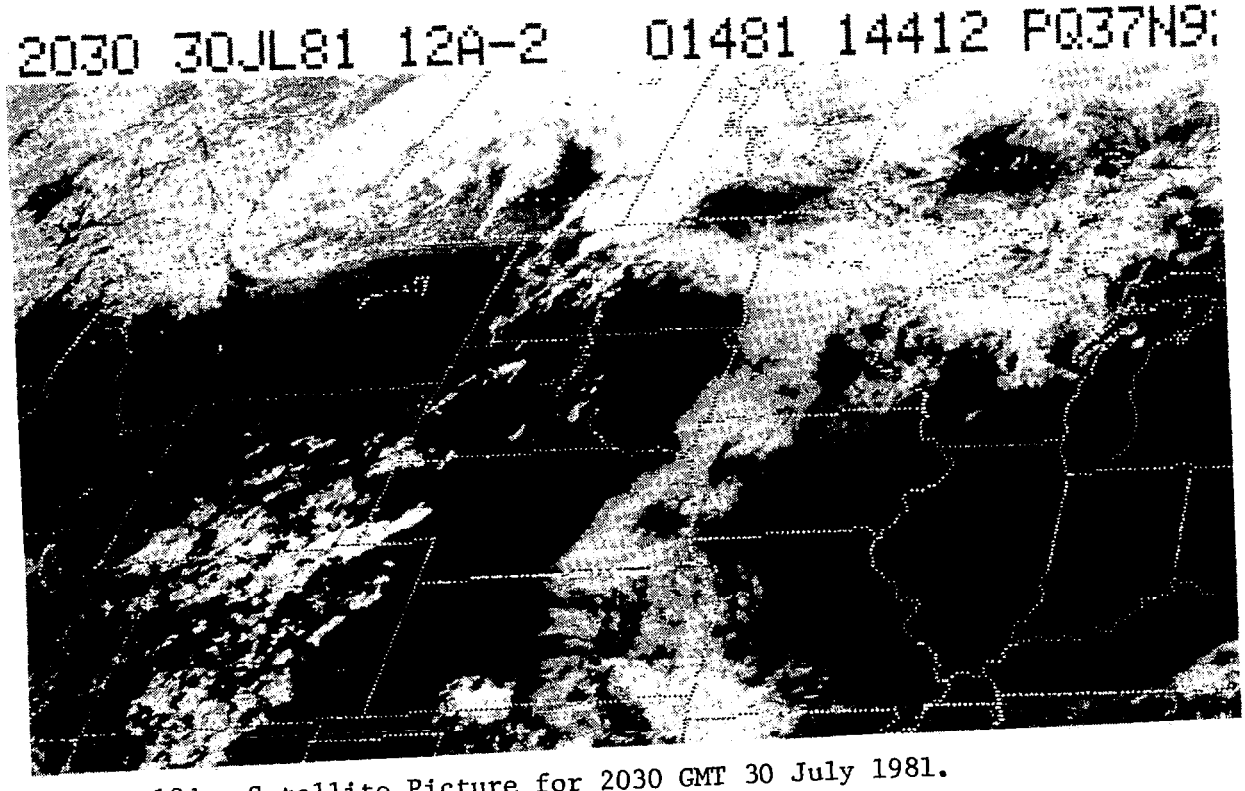

Fig. 18d. Satellite Picture for 2030 GMT 30 July 1981.

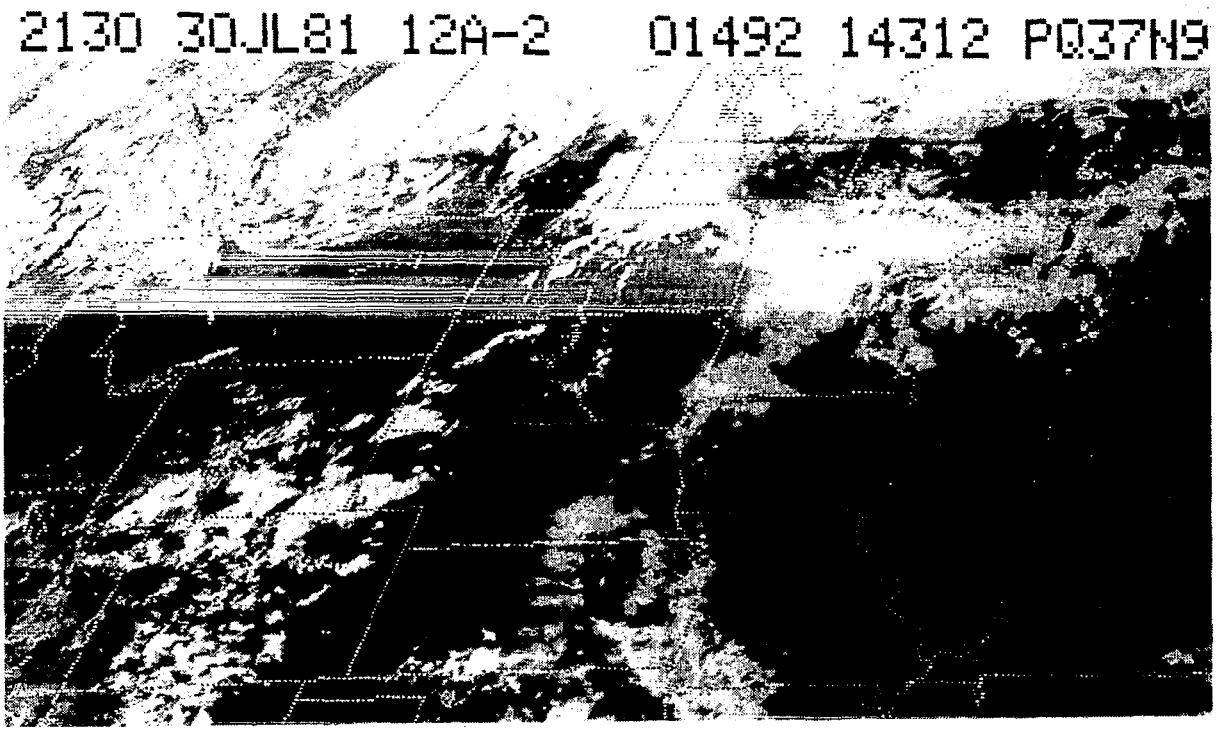

Fig. 18e. Satellite Picture for 2130 GMT 30 July 1981.

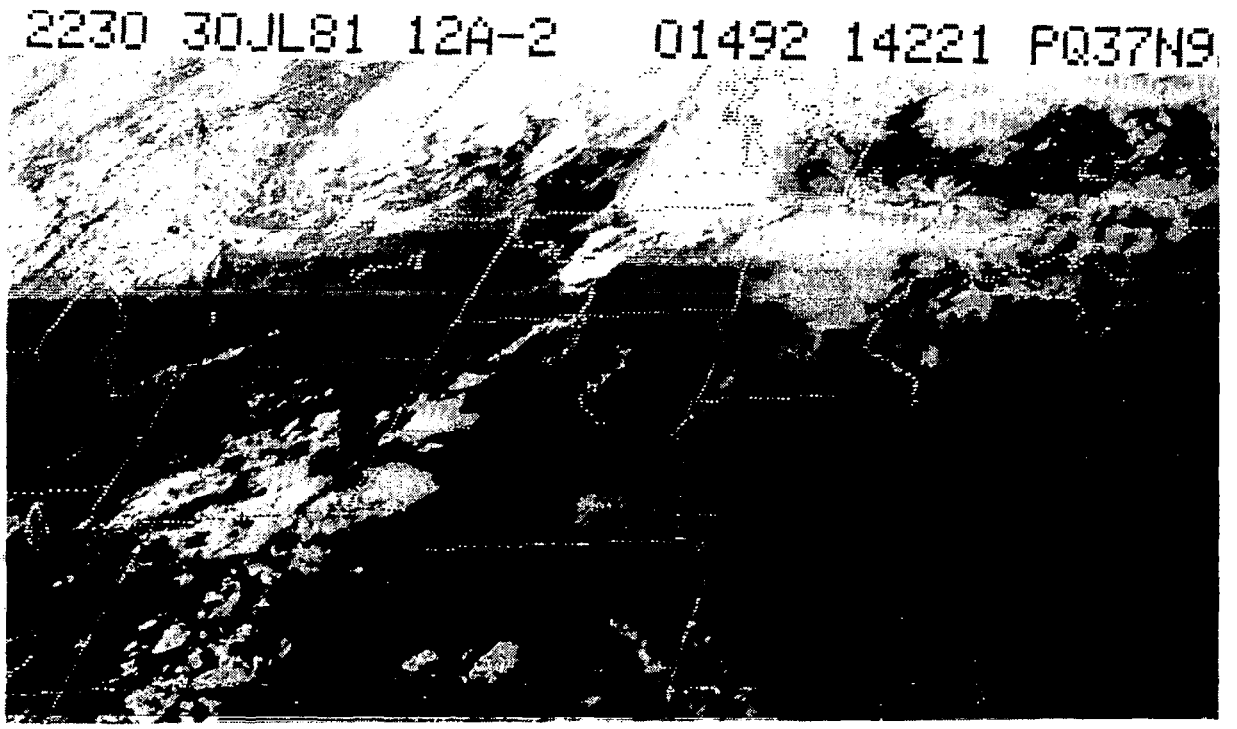

Fig. 18f. Satellite Picture for 2230 GMT 30 July 1981.

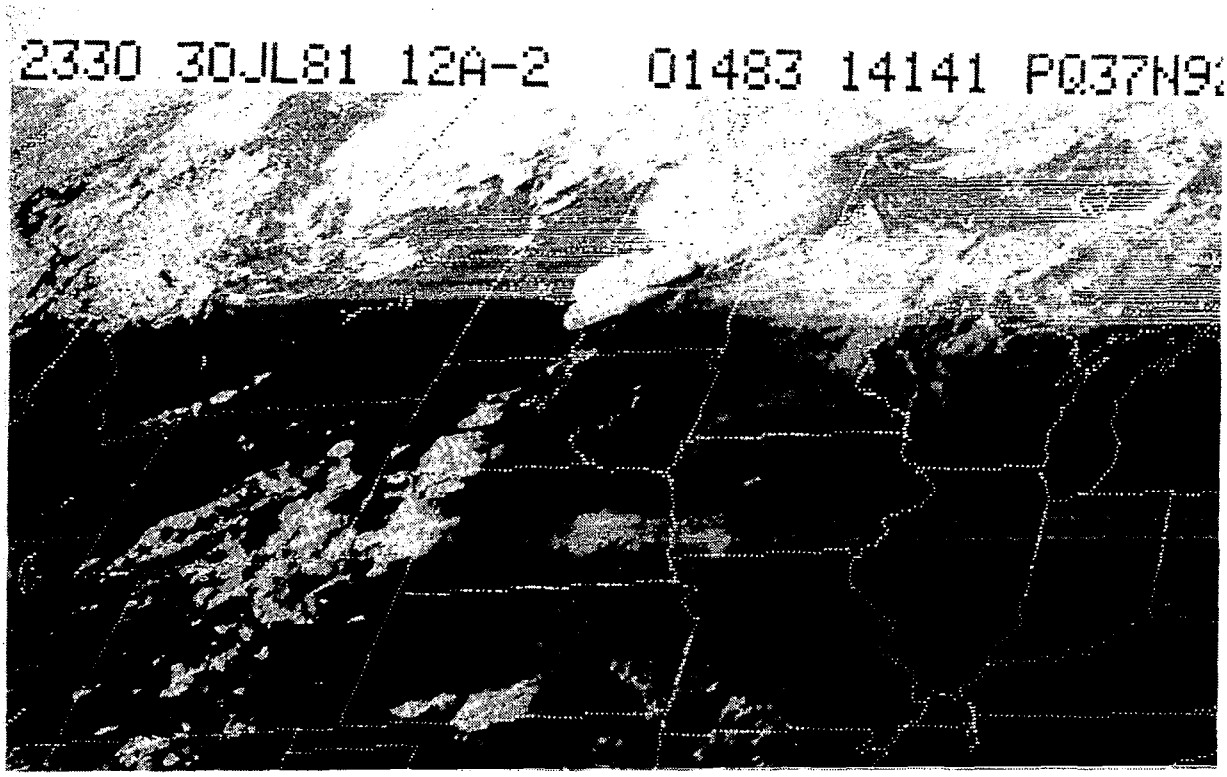

Fig. 18g. Satellite Picture for 2330 GMT 30 July 1981.

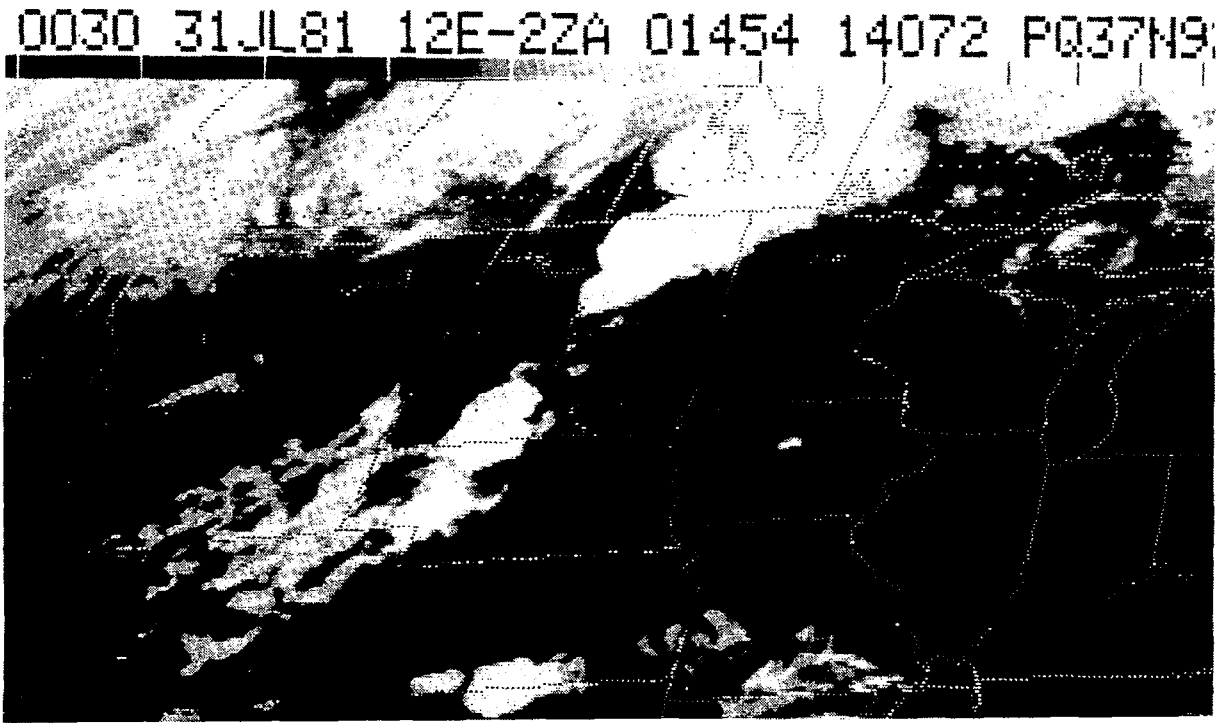

Fig. 18h. Satellite Picture for 0030 GMT 31 July 1981.

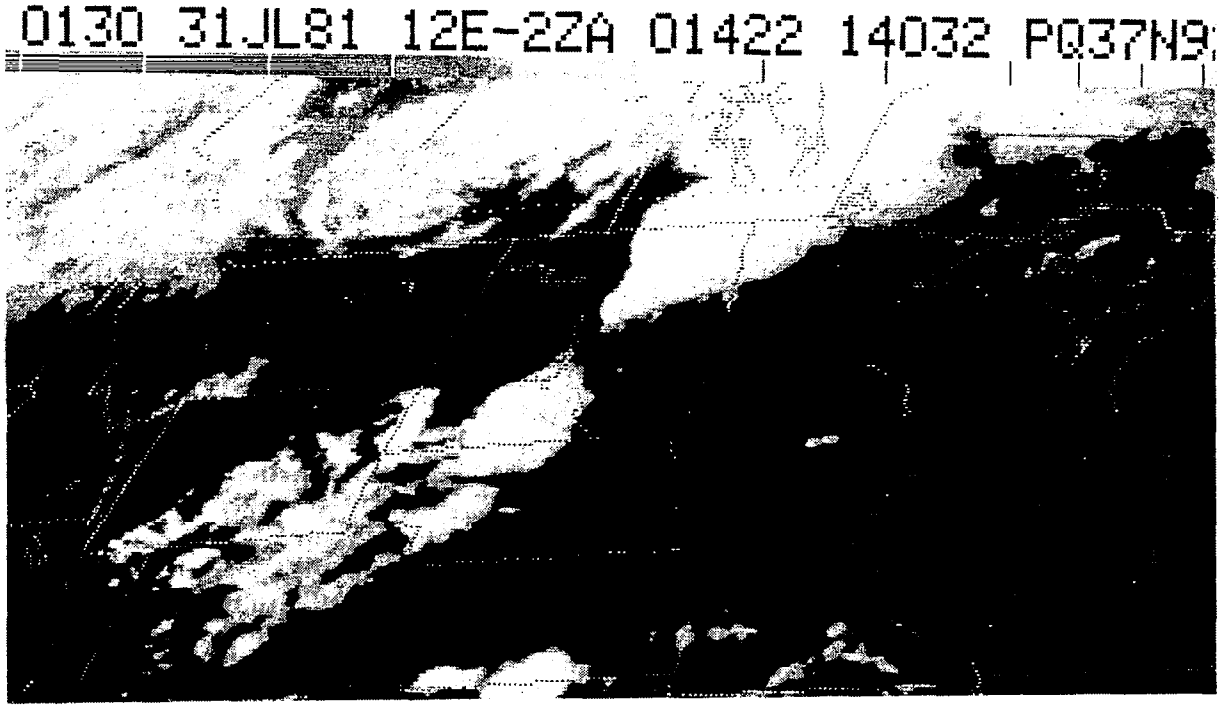

Fig. 18i. Satellite Picture for 0130 GMT 31 July 1981.

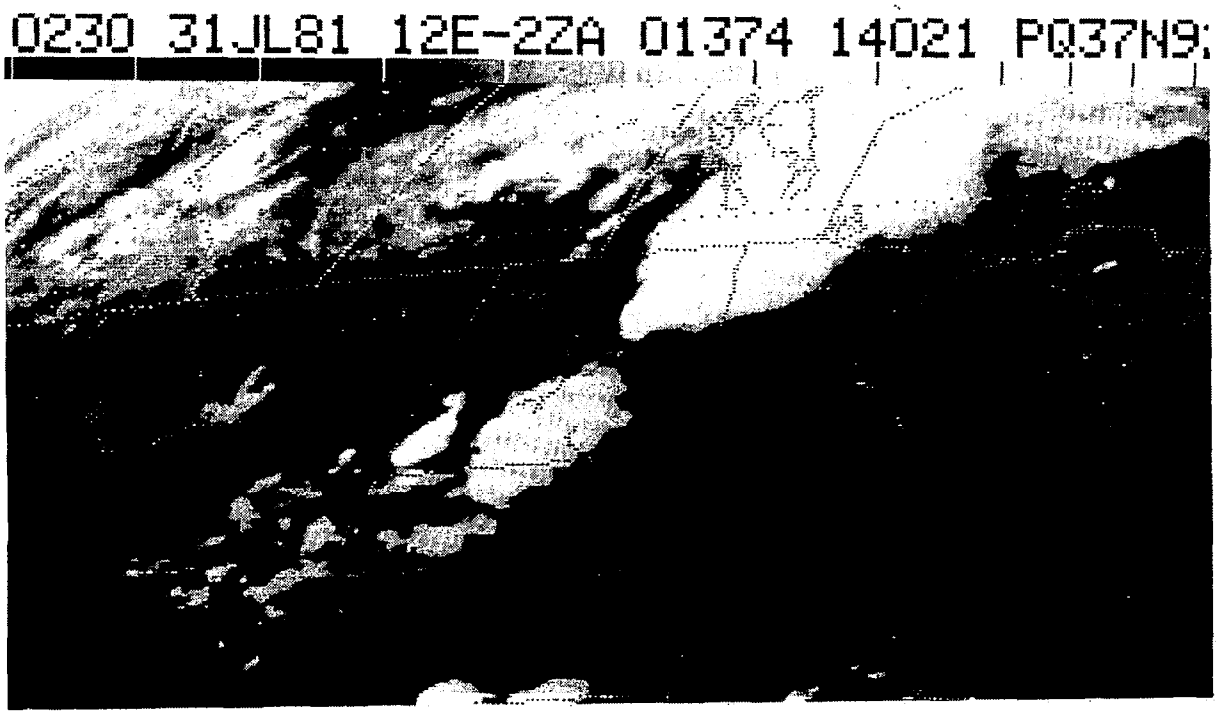

Fig. 18j. Satellite Picture for 0230 GMT 31 July 1981.

APPENDIX I

The details of each flight are listed in this appendix. It serves as an index and a quick reference to the data for each flight. The sounding data are listed in Appendix II.

14 July 1981

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Miles City	MI(1)	14	1803	100mb	Project limit
		14	2042	100mb	Project limit First 6.5 min. of wind angles were bad
		14	2340	100mb	Project limit
		15	0240	113mb	Signal transmission stopped
Glendive	GL(2)	14	1810	100mb	Project limit
		14	2041	100mb	Project limit
		14	2341	100mb	Project limit
		15	0240	100mb	Project limit First 3 CTCs were interpolated due to trouble locking on sonde
Baker	BA(3)	14	1748	100mb	Project limit
		14	2048	100mb	Project limit Wind angles 5.0 to 6.5 and 16.0 to 18.5 were interpolated due to sonde overhead
		14	2340	100mb	Project limit
		15	0240	100mb	Project limit
Knowlton	KN(4)	14	1740	100mb	Project limit
		14	2040	100mb	Project limit

14 July 1981

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Knowlton, cont.		14	2340	100mb	Project limit
		15	0243	100mb	Project limit CTCs 35 to 45 were lost because balloon was overhead (No wind angles)
Powderville	PO(5)	14	1748	100mb	Project limit
		14	2041	100mb	Project limit
		14	2340	100mb	Project limit Wind angles were bad from 0.0 to 4.5 min. into the sounding
		15	0240	100mb	Project limit

23 July 1981

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Miles City	MI(1)	23	1752	175mb	Balloon burst
		23	1910	100mb	Project limit
		23	2049	100mb	Baroswitch set incorrectly; was corrected (Wind angles are questionable)
		23	2357	100mb	Project limit
		24	0253	100mb	Project limit

23 July 1981, cont.

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Glendive	GL(2)	23	1805	100mb	Project limit
		23	1920	100mb	Project limit
		23	2043	100mb	Project limit
		23	2341	100mb	Project limit
		24	0242	100mb	Project limit
Baker	BA(3)	23	1800	none	GMD inoperative
		23	2000	200mb	Wind recorder malfunctioned Terminated early to get ready for next launch
		23	2121	100mb	Project limit
		23	2340	100mb	Project limit
		24	0240	100mb	Project limit
Knowlton	KN(4)	23	1800	none	No launch due to local power failure
		23	1930	none	Same as above
		23	2040	100mb	Radiosonde overhead at CTC 38
		23	2340	200mb	Radiosonde lost behind hills east of station
		24	0230	125mb	Balloon burst early

23 July 1981, cont.

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Powderville	PO(5)	23	1816	100mb	Thermo values from surface to CTC 20 are interpolated Wind angles were read manually at the GMD
		23	1940	100mb	Recording of wind values was done manually
		23	2108	336mb	Balloon burst Wind angles were recorded manually
		23	2358	100mb	Wind angles were recorded manually
		24	0240	none	GMD inoperative

24 July 1981

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Miles City	MI(1)	24	1748	100mb	Project limit
		24	2040	100mb	Project limit
		24	2340	100mb	Project limit
		25	0248	100mb	Project limit
Glendive	GL(2)	24	1740	100mb	Project limit
		24	2042	100mb	Project limit

24 July 1981, cont.

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Glendive, cont.		24	2340	100mb	Project limit
		24	0240	100mb	Project limit
Baker	BA(3)	24	1740	100mb	Project limit
		24	1930	none	TMQ5 sensitivity problem
		24	2349	100mb	Project limit
		25	0240	100mb	Project limit
Knowlton	KN(4)	24	1749	100mb	Project limit
		24	2040	100mb	Project limit
		24	2340	100mb	Project limit
		25	0240	100mb	Unknown problem with radiosonde
Powderville	PO(5)	24	1747	100mb	Wind angles were read manually
		24	2052	116mb	Wind angles were read manually
		24	2347	100mb	Same as above
		25	0249	100mb	Same as above

30 July 1981

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Miles City	MI(1)	30	1754	100mb	Project limit

30 July 1981, cont.

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Miles City,cont.		30	2045	218mb	Balloon burst
		30	2340	100mb	Project limit
		31	0240	100mb	Project limit Baroswitch set incorrectly, but corrected by coordinator
Glendive	GL(2)	30	1740	100mb	Project limit
		30	2040	100mb	Project limit
		30	2341	100mb	Project limit
		31	0240	100mb	Project limit
Baker	BA(3)	30	1751	100mb	Project limit
		30	2040	100mb	Intermitant signal data lost between CTC 25-40
		30	2340	none	Equipment was inoperative
		31	0240	100mb	Project limit
Knowlton	KN(4)	30	1745	100mb	Project limit
		30	2040	100mb	Project limit
		30	2340	673mb	Bad sonde
		31	0240	100mb	Project limit
Powderville	PO(5)	30	1757	100mb	Project limit
		30	2043	100mb	Project limit

30 July 1981, cont.

Station	Station ID	Day	Time(GMT)	Termination Pressure	Remarks
Powderville, cont.	PO(5)	30	2344	100mb	Project limit
		31	0302	100mb	Project limit

APPENDIX II

The rawinsonde data for the VAS days

STATION NO. 1
MILES CITY, MONTANA

14 JULY 1981
1803 GMT

128 55. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.9	800.0	924.2	24.7	12.0	300.0	5.0	4.3	-2.5	304.7	331.0	9.6	45.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.8	17.4	1031.3	900.0	21.4	9.7	325.6	5.1	2.9	-4.2	303.6	326.8	8.4	47.1	0.2	136.
1.3	20.0	1274.6	875.0	19.0	9.1	329.4	3.5	1.8	-3.0	303.5	326.5	8.3	52.7	0.3	139.
1.8	22.7	1522.9	850.0	16.7	8.1	338.9	3.6	1.3	-3.4	303.6	325.9	8.0	57.1	0.4	142.
2.1	25.3	1776.6	825.0	14.5	7.4	343.0	4.1	1.2	-3.9	303.9	325.8	7.9	62.7	0.5	146.
2.6	27.9	2035.8	800.0	12.2	6.5	338.2	3.3	1.2	-3.1	304.1	325.3	7.6	68.1	0.6	149.
3.3	30.6	2302.8	775.0	12.5	5.0	298.8	2.8	2.5	-1.4	307.2	327.2	7.1	60.2	0.7	150.
4.1	33.3	2577.2	750.0	10.6	2.8	266.1	4.0	4.0	0.3	308.1	326.0	6.3	58.5	0.8	140.
4.8	36.2	2859.1	725.0	8.9	1.9	256.1	4.8	4.7	1.2	309.2	326.7	6.1	61.3	0.9	129.
5.5	39.3	3149.7	700.0	6.3	1.7	241.0	5.7	4.9	2.7	309.4	327.3	6.2	72.3	1.0	118.
6.3	41.9	3446.9	675.0	5.3	-1.4	226.1	6.7	4.8	4.7	311.6	326.7	5.2	62.1	1.2	105.
7.1	44.9	3754.6	650.0	3.6	-10.4	227.6	9.2	6.8	6.2	313.0	321.2	2.7	35.1	1.4	92.
7.9	47.9	4071.2	625.0	0.8	-14.7	231.1	11.8	9.2	7.4	313.4	319.5	1.9	30.1	1.8	81.
8.8	50.9	4397.9	600.0	-0.9	-23.3	235.6	13.3	11.0	7.5	315.1	318.4	1.0	16.5	2.4	73.
9.6	53.9	4737.0	575.0	-2.0	-28.2	239.5	13.9	12.0	7.1	317.6	319.8	0.6	11.3	3.1	70.
10.4	57.1	5088.9	550.0	-4.2	-29.7	239.8	13.8	11.9	6.9	319.2	321.2	0.6	11.5	3.9	68.
11.4	60.4	5453.6	525.0	-7.1	-31.1	239.6	13.3	11.5	6.7	319.9	321.8	0.5	12.5	4.6	67.
12.3	63.7	5831.6	500.0	-10.4	-32.9	238.9	13.7	11.7	7.1	320.3	322.0	0.5	13.7	5.3	66.
13.2	67.1	6225.0	475.0	-12.2	-35.3	241.1	15.9	13.9	7.7	322.9	324.3	0.4	12.4	6.1	65.
14.2	70.6	6636.8	450.0	-14.5	-36.7	243.3	18.9	16.9	8.5	325.0	326.3	0.4	13.1	7.1	65.
15.1	74.1	7067.1	425.0	-17.7	-38.4	242.3	20.9	18.5	9.7	326.2	327.4	0.3	14.4	8.3	64.
16.4	77.9	7517.5	400.0	-21.2	-41.0	242.9	22.9	20.4	10.4	327.4	328.4	0.3	14.8	9.8	64.
17.4	81.7	7990.8	375.0	-24.6	-44.2	242.2	26.4	23.3	12.3	329.1	329.8	0.2	14.1	11.4	64.
18.6	85.5	8489.5	350.0	-28.1	-46.6	240.1	28.7	24.9	14.3	330.9	331.5	0.2	15.0	13.4	63.
19.8	89.7	9018.1	325.0	-31.0	-48.9	237.3	30.3	25.5	16.4	334.0	334.5	0.1	15.1	15.4	63.
20.9	93.9	9582.8	300.0	-33.1	-50.5	230.6	29.5	22.8	18.7	338.7	339.2	0.1	15.5	17.6	62.
22.5	98.2	10189.1	275.0	-37.5	-53.9	228.4	37.7	28.2	25.0	345.9	341.3	0.1	15.9	20.2	60.
24.3	102.8	10843.6	250.0	-39.9	99.9	230.8	41.0	31.8	25.9	346.7	999.9	99.9	999.9	24.9	58.
26.1	107.6	11555.6	225.0	-44.7	99.9	229.4	36.8	28.0	24.0	350.0	999.9	99.9	999.9	29.1	57.
28.1	112.8	12334.1	200.0	-49.8	99.9	228.5	36.2	27.1	24.0	354.0	999.9	99.9	999.9	33.4	56.
30.4	118.2	13201.1	175.0	-54.1	99.9	229.4	36.1	27.4	23.5	360.6	999.9	99.9	999.9	38.3	55.
33.2	124.0	14177.2	150.0	-57.7	99.9	238.3	29.6	25.2	15.5	370.6	999.9	99.9	999.9	44.0	55.
36.0	130.2	15324.6	125.0	-59.3	99.9	221.9	16.8	11.2	12.5	387.7	999.9	99.9	999.9	47.8	55.
39.6	136.7	16714.3	100.0	-60.6	99.9	999.9	99.9	99.9	99.9	410.7	999.9	99.9	999.9	50.8	54.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

14 JULY 1981
2042 GMT

124 89. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.6	900.0	922.9	27.5	10.7	10.0	4.0	-0.7	-3.9	307.6	332.3	8.8	35.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	17.0	1322.5	900.0	23.7	9.9	999.9	99.9	99.9	99.9	305.9	329.7	8.5	41.6	999.9	999.
1.2	19.7	1265.7	875.0	21.0	9.0	999.9	99.9	99.9	99.9	305.6	328.7	8.3	46.1	999.9	999.
2.1	22.3	1515.5	850.0	18.5	8.2	999.9	99.9	99.9	99.9	305.6	328.1	8.1	50.9	999.9	999.
2.9	24.9	1770.7	825.0	16.1	7.1	999.9	99.9	99.9	99.9	305.7	327.2	7.7	54.9	999.9	999.
3.5	27.6	2031.6	800.0	13.6	6.4	999.9	99.9	99.9	99.9	305.7	326.9	7.6	61.5	999.9	999.
4.2	30.3	2298.4	775.0	11.3	5.8	999.9	99.9	99.9	99.9	306.0	327.0	7.5	68.8	999.9	999.
4.9	33.0	2571.7	750.0	9.7	4.7	999.9	99.9	99.9	99.9	307.1	327.4	7.2	71.2	999.9	999.
5.6	35.8	2853.5	725.0	8.8	-1.2	999.9	99.9	99.9	99.9	309.1	327.2	4.8	49.3	999.9	999.
6.4	38.6	3143.2	700.0	6.6	-3.9	999.9	99.9	99.9	99.9	309.8	322.0	4.1	47.0	999.9	999.
7.2	41.4	3440.2	675.0	3.9	-9.3	999.9	99.9	99.9	99.9	310.0	318.6	2.8	37.6	999.9	999.
8.1	44.2	3745.7	650.0	1.6	-14.4	999.9	99.9	99.9	99.9	310.8	316.8	1.9	29.0	2.0	82.
8.9	47.1	4060.4	625.0	-0.3	-20.9	247.9	12.6	11.7	4.7	312.1	315.8	1.2	19.4	2.6	79.
9.7	49.9	4385.9	600.0	-1.8	-25.3	245.9	14.2	13.0	5.8	314.0	316.7	0.8	14.5	3.2	77.
10.6	52.9	4723.5	575.0	-3.1	-26.3	244.4	15.6	14.1	6.8	316.4	318.9	0.8	14.7	3.9	75.
11.5	55.9	5074.0	550.0	-5.4	-27.7	239.4	17.5	15.0	8.9	317.7	320.1	0.7	15.3	4.8	72.
12.4	59.0	5436.9	525.0	-9.1	-30.0	236.3	17.7	14.7	9.8	318.7	320.7	0.6	15.1	5.8	70.
13.3	62.1	5814.9	500.0	-10.6	-32.2	237.0	18.8	15.7	10.2	320.2	321.9	0.5	14.9	6.8	68.
14.4	65.4	6206.7	475.0	-13.0	-34.1	239.4	21.0	18.1	10.7	321.9	323.4	0.4	15.0	8.0	66.
15.4	68.7	6616.8	450.0	-15.6	-35.7	240.8	23.9	20.9	11.7	323.6	325.0	0.4	15.8	9.4	65.
16.5	72.0	7044.7	425.0	-19.2	-38.4	238.2	24.4	20.8	12.9	324.4	325.5	0.3	16.3	10.9	65.
17.5	75.6	7492.9	400.0	-22.7	-41.7	234.7	25.5	20.8	14.8	325.5	326.4	0.2	15.7	12.5	64.
18.7	79.1	7962.7	375.0	-26.5	-44.8	235.1	27.7	22.7	15.9	326.5	327.2	0.2	15.8	14.3	62.
20.0	82.9	8458.2	350.0	-29.7	-47.4	236.4	28.5	23.7	15.8	328.7	329.2	0.1	15.9	16.5	61.
21.6	86.7	8983.4	325.0	-32.7	-49.9	237.7	30.0	25.3	16.1	331.6	332.1	0.1	16.0	19.2	61.
23.2	90.7	9544.0	300.0	-35.6	-52.3	233.5	32.0	25.7	19.0	335.1	335.5	0.1	16.0	22.2	60.
25.2	94.8	10146.1	275.0	-38.4	-54.6	230.0	36.6	28.0	23.5	339.6	339.9	0.1	16.1	26.3	59.
27.1	99.0	10796.1	250.0	-41.9	99.9	227.6	37.7	27.8	25.4	343.8	999.9	99.9	999.9	30.6	58.
29.1	103.9	11504.6	225.0	-45.6	99.9	230.3	38.7	29.8	24.8	348.7	999.9	99.9	999.9	35.2	56.
31.2	108.9	12281.1	200.0	-50.6	99.9	234.0	40.5	32.8	23.8	352.7	999.9	99.9	999.9	39.9	56.
33.9	114.2	13142.7	175.0	-54.5	99.9	241.1	36.0	31.5	17.4	359.9	999.9	99.9	999.9	46.5	56.
37.1	120.2	14120.6	150.0	-57.6	99.9	247.3	27.2	25.1	10.5	370.8	999.9	99.9	999.9	52.4	57.
39.9	126.5	15265.6	125.0	-62.2	99.9	231.0	19.0	14.8	12.0	382.4	999.9	99.9	999.9	55.9	57.
43.7	133.3	16644.5	100.0	-59.3	99.9	211.6	10.1	5.3	8.6	413.2	999.9	99.9	999.9	55.5	57.
99.9	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.
99.9	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.
99.9	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.

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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 1
MILES CITY, MONTANA

14 JULY 1981
2340 GMT

123 87. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.3	800.0	921.6	28.8	11.8	120.0	2.0	-1.7	1.0	309.1	335.8	9.5	35.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	17.4	1009.6	900.0	25.5	9.1	91.4	2.0	-2.0	0.0	307.8	330.6	8.1	35.5	0.2	293.
1.2	20.0	1256.0	875.0	22.9	8.6	82.4	1.7	-1.7	-0.2	307.6	330.3	8.1	39.9	0.2	294.
2.0	22.6	1507.6	850.0	20.2	8.0	125.2	2.1	-1.7	1.2	307.3	329.7	8.0	45.3	0.3	283.
2.8	25.1	1764.3	825.0	17.8	7.8	162.3	1.9	-0.6	1.8	307.4	330.1	8.1	51.9	0.4	296.
3.7	27.3	2026.6	800.0	15.1	6.3	217.4	2.0	1.2	1.6	307.3	328.5	7.5	55.4	0.4	305.
4.6	30.4	2294.7	775.0	12.7	5.0	277.3	2.6	2.5	-0.3	307.5	327.6	7.1	59.5	0.4	320.
5.6	33.1	2569.2	750.0	10.1	4.6	314.8	3.1	2.2	-2.2	307.6	327.8	7.1	68.6	0.2	333.
6.8	35.9	2851.3	725.0	7.3	2.7	306.0	2.2	1.8	-1.3	307.5	325.8	6.5	72.7	0.1	32.
7.6	38.7	3138.5	700.0	5.2	1.2	280.2	6.4	6.3	-1.1	308.3	325.4	6.0	74.9	0.1	90.
8.6	41.4	3435.1	675.0	3.2	-2.9	270.4	16.9	16.9	-0.1	309.3	322.7	4.6	64.2	0.9	93.
9.7	44.3	3740.6	650.0	1.9	-11.7	265.6	19.9	19.8	1.5	311.1	318.4	2.4	35.6	2.2	90.
11.1	47.2	4055.6	625.0	-0.1	-17.6	263.3	20.1	20.0	2.3	312.3	317.2	1.5	25.3	3.8	87.
12.3	50.3	4380.9	600.0	-2.0	-28.4	256.0	19.5	19.0	4.7	313.8	315.9	0.6	11.0	5.3	86.
13.4	53.3	4715.3	575.0	-3.5	-29.3	255.1	19.9	19.2	5.1	315.8	317.8	0.6	11.5	6.5	83.
14.3	56.3	5064.3	550.0	-5.8	-29.0	258.7	20.1	19.7	4.0	317.2	319.3	0.6	14.0	7.6	82.
15.3	59.4	5430.2	525.0	-9.3	-29.4	258.3	20.1	19.6	4.1	317.3	319.4	0.6	17.7	8.5	82.
16.4	62.7	5814.0	500.0	-12.7	-35.5	254.6	21.7	20.9	5.8	317.6	318.9	0.4	13.1	10.2	81.
17.6	66.0	6195.9	475.0	-12.9	-38.2	248.2	24.5	22.7	9.1	322.0	323.0	0.3	9.8	11.8	80.
18.9	69.4	6605.7	450.0	-16.8	-40.1	244.8	26.4	23.8	11.2	323.1	324.0	0.3	10.4	13.7	79.
20.4	72.9	7034.0	425.0	-19.0	-41.1	241.8	26.8	23.6	12.7	324.6	325.5	0.2	12.0	16.2	78.
22.0	76.4	7482.3	400.0	-22.7	-44.0	239.8	27.6	23.8	13.9	325.5	326.2	0.2	12.2	18.7	76.
23.7	80.1	7952.0	375.0	-26.5	-45.6	238.9	28.7	24.6	14.8	326.5	327.2	0.2	14.5	21.4	72.
25.2	83.9	8447.7	350.0	-29.7	-48.4	238.4	30.6	26.1	16.0	328.8	329.3	0.1	14.2	24.1	70.
27.3	87.9	8972.4	325.0	-32.9	-51.1	238.5	33.1	28.2	17.3	331.4	331.8	0.1	14.1	28.0	69.
29.6	92.0	9532.1	300.0	-36.0	-53.5	235.0	36.4	29.9	20.9	334.7	335.0	0.1	14.3	32.7	67.
31.7	96.3	10131.1	275.0	-39.8	99.9	233.1	37.7	30.1	22.6	337.7	999.9	99.9	999.9	37.2	65.
34.2	100.7	10779.7	250.0	-41.7	99.9	234.9	40.9	33.4	23.5	344.0	999.9	99.9	999.9	43.1	64.
37.0	105.6	11491.0	225.0	-43.4	99.9	236.8	43.3	36.2	23.7	352.0	999.9	99.9	999.9	49.9	63.
39.4	110.5	12273.7	200.0	-46.7	99.9	237.9	36.6	31.0	19.4	358.9	999.9	99.9	999.9	55.9	62.
42.6	115.6	13134.3	175.0	-52.8	99.9	237.4	31.5	26.5	17.0	362.7	999.9	99.9	999.9	62.2	62.
45.3	121.2	14139.4	150.0	-57.9	99.9	244.5	28.5	25.7	12.2	370.3	999.9	99.9	999.9	68.2	61.
49.8	127.2	15276.5	125.0	-60.3	99.9	230.6	21.5	16.6	13.6	385.8	999.9	99.9	999.9	74.0	61.
54.2	133.5	16665.6	100.0	-58.2	99.9	999.9	99.9	99.9	99.9	415.2	999.9	99.9	999.9	79.4	61.
99.9	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.
99.9	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.
99.9	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.

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STATION NO. 1
MILES CITY, MONTANA

15 JULY 1981
240 GMT

112 113. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.4	800.0	921.0	25.5	10.1	110.0	3.0	-2.8	1.0	305.8	329.4	8.5	38.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	16.4	1033.4	900.0	26.0	10.6	292.1	1.2	1.1	-0.5	308.4	333.6	9.0	38.1	0.1	284.
1.3	18.8	1250.6	875.0	23.6	9.4	186.5	1.2	0.1	1.2	308.3	332.3	8.5	40.7	0.0	277.
1.9	21.2	1502.9	850.0	21.1	7.8	139.7	2.2	-1.4	1.7	308.2	330.5	7.9	42.6	0.1	299.
2.5	23.6	1760.7	825.0	19.4	7.0	260.9	2.2	2.2	0.4	309.1	330.9	7.7	44.4	0.2	304.
3.2	26.1	2024.3	800.0	17.0	5.9	310.2	3.6	2.8	-2.3	309.2	330.0	7.3	47.9	0.1	334.
4.0	28.7	2293.9	775.0	14.2	1.3	299.3	4.4	3.8	-2.2	309.1	324.8	5.4	41.4	0.2	121.
4.9	31.2	2569.5	750.0	11.1	2.7	292.4	4.6	4.2	-1.7	308.6	326.5	6.2	56.3	0.4	117.
5.6	33.9	2851.8	725.0	9.2	1.2	288.9	5.7	5.4	-1.8	309.5	326.3	5.9	57.4	0.6	115.
6.5	36.6	3141.6	700.0	6.6	-1.7	280.7	6.5	6.4	-1.2	309.8	323.9	4.9	55.7	0.9	112.
7.4	39.2	3439.1	675.0	4.3	-3.9	270.8	9.8	9.8	-0.1	310.4	323.0	4.3	55.3	1.3	107.
8.3	42.0	3745.4	650.0	2.5	-5.9	266.1	16.6	16.5	1.1	311.8	323.2	3.8	53.9	2.0	100.
9.0	44.7	4061.6	625.0	0.2	-10.1	266.1	20.2	20.1	1.4	312.7	321.3	2.8	45.8	2.8	96.
9.8	47.6	4387.1	600.0	-2.7	-16.4	266.7	20.3	20.2	1.2	313.0	318.5	1.8	33.8	3.8	93.
10.5	50.4	4723.1	575.0	-5.2	-18.1	267.2	21.6	21.6	1.1	313.9	319.0	1.6	35.3	4.7	92.
11.3	53.4	5070.2	550.0	-8.2	-26.9	267.8	21.6	21.6	0.8	314.4	317.0	0.8	20.4	5.7	91.
12.2	56.4	5429.1	525.0	-11.1	-32.0	267.2	20.9	20.9	1.0	315.1	316.7	0.5	15.8	6.8	91.
13.1	59.5	5802.4	500.0	-13.2	-35.2	265.2	21.9	21.8	1.8	317.0	318.3	0.4	13.6	7.9	90.
14.0	62.6	6191.0	475.0	-16.2	-37.7	261.4	23.4	23.2	3.5	317.9	319.0	0.3	13.6	9.1	89.
15.0	65.9	6596.1	450.0	-18.3	-39.7	255.1	27.1	26.2	7.0	320.3	321.2	0.3	13.2	10.5	88.
16.0	69.1	7021.0	425.0	-20.3	-41.2	248.9	31.8	29.6	11.5	323.0	323.8	0.2	13.4	12.4	85.
17.3	72.6	7467.5	400.0	-23.4	-42.9	246.0	34.6	31.6	14.1	324.7	325.4	0.2	14.6	14.8	82.
18.4	76.1	7937.9	375.0	-26.5	-44.7	244.8	35.9	32.5	15.3	326.6	327.3	0.2	15.9	17.2	80.
19.6	79.6	8433.0	350.0	-29.9	-47.1	244.1	36.5	32.9	16.0	328.5	329.1	0.2	16.7	19.5	78.
20.7	83.4	8957.6	325.0	-32.8	-50.2	243.8	39.8	35.7	17.6	331.5	331.9	0.1	15.6	22.1	76.
21.8	87.3	9513.0	300.0	-35.8	-52.5	241.8	40.6	35.8	19.2	334.9	335.3	0.1	16.0	24.7	75.
23.2	91.3	10101.1	275.0	-38.8	-54.4	237.7	40.8	34.5	21.8	339.0	339.4	0.1	17.1	28.0	73.
24.8	95.7	10726.5	250.0	-40.7	99.9	236.1	42.2	35.0	23.5	345.6	999.9	99.9	999.9	31.7	71.
26.7	100.2	11393.9	225.0	-42.8	99.9	236.0	42.5	35.3	23.8	353.0	999.9	99.9	999.9	36.4	69.
28.9	104.8	12110.1	200.0	-46.6	99.9	239.5	39.4	33.9	20.0	358.9	999.9	99.9	999.9	42.3	67.
31.6	110.0	13144.4	175.0	-53.0	99.9	243.7	36.2	32.5	16.0	362.4	999.9	99.9	999.9	48.0	67.
34.3	115.6	14129.8	150.0	-57.0	99.9	242.2	28.3	25.0	13.2	371.9	999.9	99.9	999.9	53.3	67.
37.4	121.7	15267.5	125.0	-62.5	99.9	999.9	99.9	99.9	99.9	381.8	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

14 JULY 1981
1810 GMT

124 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.4	803.0	921.3	25.0	15.3	300.0	6.0	5.2	-3.0	305.2	338.0	12.0	55.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	16.2	1036.9	900.0	20.5	13.6	333.6	6.8	3.0	-6.1	302.6	332.4	11.0	64.6	0.2	128.
1.2	18.6	1250.0	875.0	18.3	12.9	339.2	6.6	2.3	-6.2	302.8	332.1	10.8	70.9	0.4	143.
1.9	21.1	1468.0	850.0	16.1	12.1	342.5	6.2	1.9	-5.9	303.0	331.7	10.5	77.4	0.7	151.
2.7	23.6	1751.5	825.0	13.2	11.9	334.4	6.7	2.9	-6.0	302.6	331.6	10.7	91.5	1.0	154.
3.4	26.2	2010.4	800.0	12.3	8.5	306.4	5.3	4.3	-3.2	304.2	328.4	8.8	77.7	1.3	152.
4.1	28.8	2276.8	775.0	11.3	6.6	266.3	4.3	4.3	0.3	305.9	328.1	7.9	73.1	1.4	147.
4.7	31.4	2551.3	750.0	10.9	3.1	242.5	5.7	5.1	2.6	308.4	326.6	6.4	58.5	1.5	140.
5.4	34.1	2833.3	725.0	8.8	0.6	252.7	6.1	5.8	1.8	309.1	325.1	5.6	56.7	1.5	131.
6.3	36.8	3122.9	700.0	6.6	-0.6	254.4	5.8	5.6	1.6	309.8	325.0	5.3	60.2	1.6	122.
7.2	39.6	3421.3	675.0	4.8	1.8	234.6	6.4	5.3	3.7	311.0	329.7	6.5	80.8	1.9	116.
7.7	42.4	3728.7	650.0	3.1	-1.8	222.0	8.6	5.7	6.4	312.4	327.7	5.2	70.4	2.0	108.
8.5	45.3	4045.5	625.0	0.9	-10.3	220.5	9.8	6.4	7.4	313.4	322.0	2.8	42.9	2.2	97.
9.4	48.3	4371.8	600.0	-2.0	-16.2	233.5	11.4	9.1	6.8	313.8	319.5	1.8	32.6	2.6	87.
10.2	51.3	4708.2	575.0	-4.8	-24.8	242.2	13.5	12.0	6.3	314.4	317.4	0.9	19.1	3.2	83.
11.2	54.3	5057.5	550.0	-5.2	-30.5	240.5	14.8	12.9	7.3	317.9	319.7	0.5	11.6	4.0	78.
12.2	57.4	5421.3	525.0	-7.6	-30.0	235.0	14.5	11.9	8.3	319.3	321.4	0.6	14.5	4.8	75.
13.1	60.6	5798.7	500.0	-10.5	-33.0	235.3	14.9	12.3	8.5	320.3	321.9	0.5	13.6	5.5	72.
14.1	63.9	6191.8	475.0	-12.8	-35.7	239.5	16.5	14.2	8.4	322.1	323.4	0.4	12.6	6.4	70.
15.1	67.3	6602.4	450.0	-15.1	-38.8	240.7	18.8	16.4	9.2	324.2	325.3	0.3	11.1	7.5	68.
16.1	70.7	7031.6	425.0	-18.7	-40.9	239.0	20.8	17.8	10.7	325.1	326.0	0.2	12.0	8.7	67.
17.2	74.3	7481.9	400.0	-22.1	-42.5	237.6	21.8	18.4	11.7	326.3	327.2	0.2	13.6	10.1	66.
18.4	78.0	7951.1	375.0	-26.0	-45.3	238.5	24.5	20.9	12.8	327.2	327.8	0.2	14.2	11.7	65.
19.6	81.8	8447.6	350.0	-29.2	-48.1	239.1	26.7	22.9	13.7	329.4	329.9	0.1	13.9	13.5	64.
20.8	85.8	8973.8	325.0	-32.1	-49.3	237.3	30.1	25.3	16.3	332.5	333.0	0.1	16.1	15.7	63.
22.2	90.0	9534.5	300.0	-33.8	-51.6	230.0	34.7	26.6	22.3	337.8	338.2	0.1	14.4	18.2	62.
23.6	94.3	10142.4	275.0	-37.8	99.9	227.7	38.8	28.7	26.1	340.5	999.9	99.9	999.9	21.3	60.
25.1	98.9	10795.6	250.0	-40.8	99.9	225.4	39.5	28.1	27.7	345.4	999.9	99.9	999.9	24.7	58.
26.8	103.8	11505.4	225.0	-45.0	99.9	225.0	38.2	27.0	27.0	349.5	999.9	99.9	999.9	28.7	56.
28.9	109.0	12286.0	200.0	-49.2	99.9	225.9	36.3	26.1	25.3	354.8	999.9	99.9	999.9	33.2	55.
30.8	114.5	13148.7	175.0	-55.2	99.9	226.8	35.0	25.5	24.0	358.9	999.9	99.9	999.9	37.2	54.
33.3	120.5	14124.3	150.0	-57.4	99.9	229.0	27.1	20.4	17.8	371.2	999.9	99.9	999.9	42.2	53.
36.2	127.3	15254.4	125.0	-60.8	99.9	222.9	19.5	13.3	14.3	385.0	999.9	99.9	999.9	45.8	53.
40.2	135.3	16652.1	100.0	-59.5	99.9	999.9	99.9	99.9	99.9	412.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 2
GLENDIVE, MONTANA

14 JULY 1981
2041 GMT

121 94. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.2	903.0	921.3	27.3	15.3	15.0	4.0	-1.0	-3.9	307.6	340.7	12.0	48.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	15.2	1039.0	900.0	23.8	11.7	5.9	3.8	-0.4	-3.8	306.1	332.8	9.7	46.6	0.1	190.
1.0	17.6	1254.1	875.0	20.3	10.2	2.1	3.6	-0.1	-3.6	304.9	329.7	9.0	52.3	0.2	189.
1.4	20.1	1503.5	850.0	17.6	9.0	354.3	3.2	0.3	-3.2	304.6	328.2	8.5	57.0	0.3	186.
1.8	22.5	1759.2	825.0	15.1	8.2	343.8	2.9	0.8	-2.8	304.6	327.6	8.3	63.2	0.4	183.
2.3	25.3	2017.7	800.0	12.2	7.3	336.6	2.8	1.1	-2.6	304.1	326.5	8.1	72.0	0.5	177.
2.9	27.5	2284.0	775.0	10.7	7.9	300.4	3.4	2.9	-1.7	305.3	329.3	8.7	82.8	0.5	175.
3.5	30.1	2557.5	750.0	10.0	5.8	262.1	6.5	6.5	0.9	307.5	329.3	7.8	75.0	0.6	155.
4.2	32.7	2839.3	725.0	8.8	3.4	252.3	8.5	8.1	2.6	309.1	328.5	6.8	69.9	0.7	133.
4.9	35.3	3129.1	700.0	6.7	1.5	245.0	9.7	8.8	4.1	309.9	327.5	6.1	69.6	1.0	110.
5.6	38.0	3427.4	675.0	5.3	-3.9	239.3	11.2	9.7	5.7	311.5	324.2	4.3	51.7	1.3	95.
6.4	40.7	3734.4	650.0	2.6	-9.3	238.5	11.7	9.9	6.1	311.9	320.7	2.9	41.2	1.8	84.
7.2	43.6	4050.0	625.0	-0.4	-12.9	237.1	12.1	10.1	6.6	312.0	319.0	2.3	38.2	2.3	78.
8.0	46.3	4375.2	600.0	-2.4	-23.1	235.9	13.0	10.7	7.3	313.3	316.6	1.0	18.8	2.8	74.
8.7	49.3	4712.3	575.0	-3.3	-34.4	236.3	14.4	12.0	8.0	316.2	317.4	0.4	6.9	3.5	70.
9.6	52.3	5062.6	550.0	-4.9	-33.8	233.0	15.9	12.7	9.6	318.2	319.6	0.4	8.3	4.2	68.
10.5	55.3	5426.0	525.0	-7.7	-33.4	230.3	16.4	12.6	10.5	319.1	320.6	0.4	10.6	5.0	65.
11.4	58.4	5803.9	500.0	-10.0	-34.4	232.4	17.1	13.6	10.4	320.9	322.4	0.4	11.4	6.0	63.
12.4	61.6	6197.3	475.0	-12.8	-38.2	235.3	19.4	16.0	11.1	322.1	323.2	0.3	9.8	7.0	61.
13.4	64.9	6607.4	450.0	-15.5	-41.8	236.7	22.2	18.6	12.2	323.8	324.5	0.2	8.3	8.2	61.
14.4	68.3	7036.5	425.0	-18.4	-43.6	234.3	24.5	19.9	14.3	325.5	326.1	0.2	8.8	9.6	60.
15.3	71.7	7485.7	400.0	-21.9	-43.4	233.2	26.1	20.9	15.6	326.9	327.3	0.2	12.2	11.0	59.
16.3	75.3	7957.5	375.0	-25.4	-47.6	233.3	27.8	22.3	16.6	328.0	328.5	0.1	10.3	12.6	58.
17.4	79.1	8453.8	350.0	-29.1	-50.2	234.6	29.5	24.0	17.1	329.5	329.9	0.1	10.9	14.5	58.
18.6	83.0	8977.5	325.0	-32.0	-52.7	235.5	31.2	25.7	17.6	332.6	332.9	0.1	10.7	16.7	57.
19.8	87.0	9542.8	300.0	-34.6	-54.6	231.6	33.9	26.6	21.0	336.6	336.9	0.1	11.0	19.0	57.
21.0	91.2	10146.8	275.0	-37.7	-56.8	228.8	38.9	29.3	25.6	340.6	340.8	0.1	11.4	21.7	56.
22.4	95.7	10798.9	250.0	-41.4	99.9	228.7	41.0	30.8	27.1	344.5	999.9	99.9	999.9	24.9	55.
24.0	100.4	11519.8	225.0	-44.0	99.9	226.0	41.2	29.7	28.6	351.1	999.9	99.9	999.9	28.8	54.
25.6	105.5	12291.5	200.0	-48.9	99.9	230.3	40.3	31.0	25.7	355.3	999.9	99.9	999.9	32.9	53.
27.3	111.0	13163.0	175.0	-51.7	99.9	233.6	33.8	27.2	20.1	364.6	999.9	99.9	999.9	38.2	53.
29.7	117.0	14147.3	150.0	-57.9	99.9	237.6	31.8	26.8	17.0	370.3	999.9	99.9	999.9	43.4	51.
33.1	123.5	15291.9	125.0	-60.7	99.9	230.6	21.5	16.6	13.6	385.2	999.9	99.9	999.9	47.2	54.
36.5	131.0	16679.1	100.0	-57.6	99.9	999.9	99.9	99.9	99.9	416.5	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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STATION NO. 2
GLENDIVE, MONTANA

14 JULY 1981
2341 GMT

128 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.0	803.3	921.1	26.7	13.4	360.0	0.0	0.0	0.0	307.0	336.3	10.6	44.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.8	16.5	1107.1	900.0	24.7	10.0	154.3	0.2	-0.1	0.1	307.0	331.0	8.6	39.4	0.0	153.
1.4	19.0	1253.2	875.0	22.9	10.0	191.2	0.1	0.0	0.1	307.6	332.5	8.9	43.9	0.0	180.
2.0	21.6	1504.6	850.0	19.8	9.2	196.7	0.1	0.0	0.1	306.9	331.1	8.6	50.2	0.0	30.
2.7	24.2	1760.9	825.0	17.1	8.0	245.8	0.3	0.3	0.1	306.7	329.6	8.2	55.1	0.0	24.
3.4	26.8	2022.7	800.0	14.7	7.0	245.2	0.6	0.6	0.3	306.9	329.0	7.9	59.5	0.0	97.
4.0	29.4	2290.5	775.0	12.1	6.0	279.2	1.2	1.1	-0.2	306.9	328.3	7.6	66.2	0.2	43.
4.9	32.1	2564.6	750.0	9.8	5.5	286.1	2.5	2.4	-0.7	307.3	328.6	7.6	74.1	0.2	109.
5.5	34.8	2845.7	725.0	7.8	3.1	262.0	3.9	3.9	0.5	308.0	326.8	6.6	72.1	0.2	101.
6.0	37.6	3134.6	700.0	5.9	-0.7	259.6	9.7	9.5	1.7	309.0	324.1	5.2	62.5	0.4	91.
6.7	40.4	3431.5	675.0	3.9	-9.7	253.7	15.3	14.7	4.3	310.1	318.3	2.7	36.1	1.0	84.
7.6	43.3	3737.1	650.0	1.4	-13.4	250.7	15.2	14.3	5.0	310.6	317.0	2.1	32.0	1.8	78.
8.4	46.2	4051.3	625.0	-0.8	-31.5	252.2	14.5	13.8	4.5	311.6	313.1	0.4	7.5	2.6	76.
9.2	49.1	4376.0	600.0	-2.8	-33.1	250.1	15.1	14.2	5.2	312.8	314.2	0.4	7.5	3.2	75.
10.2	52.3	4713.8	575.0	-4.5	-32.6	246.0	19.1	17.5	7.8	314.7	316.2	0.4	8.9	4.2	73.
11.1	55.4	5061.2	550.0	-6.1	-29.1	245.6	21.6	19.7	8.9	316.9	319.0	0.6	14.2	5.4	71.
12.1	58.5	5423.2	525.0	-8.7	-28.8	247.8	22.8	21.1	8.6	318.0	320.2	0.7	17.7	6.7	70.
13.1	61.8	5799.4	500.0	-10.8	-37.3	247.5	23.6	21.8	9.0	319.9	321.0	0.3	9.2	8.0	70.
14.1	65.1	6193.4	475.0	-11.8	-40.2	243.9	24.6	22.1	10.8	323.4	324.3	0.2	7.3	9.4	69.
15.1	68.6	6604.7	450.0	-15.3	-42.4	242.4	26.2	23.2	12.1	324.0	324.7	0.2	7.7	11.0	69.
16.2	72.1	7033.6	425.0	-18.6	-43.3	237.9	27.5	23.3	14.6	325.2	325.9	0.2	9.2	12.8	67.
17.3	75.7	7483.1	400.0	-21.8	-45.9	235.5	28.6	23.5	16.2	326.7	327.3	0.2	9.2	14.6	66.
18.6	79.5	7955.0	375.0	-25.5	-47.4	234.8	29.0	23.7	16.7	327.9	328.4	0.1	10.8	16.5	65.
19.9	83.5	8451.0	350.0	-29.9	-49.9	233.2	29.9	23.9	17.9	328.5	328.9	0.1	12.0	18.5	63.
21.3	87.5	8975.9	325.0	-33.0	-52.1	234.7	37.5	30.7	21.7	331.3	331.6	0.1	12.6	21.9	62.
22.9	91.9	9536.1	300.0	-35.3	-55.3	234.4	35.2	28.6	20.5	335.7	335.9	0.1	10.8	25.2	61.
24.5	96.3	10136.7	275.0	-39.9	99.9	232.1	39.8	31.4	24.4	337.4	999.9	99.9	999.9	28.8	60.
26.5	101.0	10784.1	250.0	-43.8	99.9	232.3	44.5	35.2	27.2	342.4	999.9	99.9	999.9	33.8	59.
29.0	106.0	11494.1	225.0	-43.1	99.9	232.1	44.9	35.5	27.6	352.5	999.9	99.9	999.9	40.5	58.
31.3	111.4	12284.9	200.0	-45.8	99.9	233.2	41.3	33.1	24.7	360.3	999.9	99.9	999.9	46.8	57.
33.9	117.0	13161.5	175.0	-51.5	99.9	236.1	35.7	29.6	19.9	365.0	999.9	99.9	999.9	52.4	57.
37.1	123.3	14150.5	150.0	-56.9	99.9	239.6	30.0	25.9	15.2	372.0	999.9	99.9	999.9	59.2	57.
40.5	130.3	15209.3	125.0	-59.4	99.9	230.3	23.5	18.1	15.0	387.5	999.9	99.9	999.9	64.3	57.
44.6	138.3	16699.9	100.0	-59.1	99.9	999.9	99.9	99.9	99.9	413.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

15 JULY 1981
240 GMT

124 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.0	803.0	919.0	19.7	7.8	360.0	0.0	0.0	0.0	299.9	319.8	7.2	46.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	15.8	992.2	900.0	21.2	10.4	999.9	99.9	99.9	99.9	303.4	327.7	8.8	49.8	999.9	999.
1.1	18.2	1237.0	875.0	21.4	11.2	999.9	99.9	99.9	99.9	306.0	332.8	9.7	52.4	999.9	999.
1.7	20.5	1487.6	850.0	19.3	9.9	999.9	99.9	99.9	99.9	306.4	331.6	9.1	54.4	999.9	999.
2.3	23.0	1743.5	825.0	17.1	8.0	174.1	2.9	-0.3	2.9	306.7	329.8	8.2	55.0	0.6	293.
2.9	25.4	2005.5	800.0	15.2	6.0	223.7	5.1	3.5	3.7	307.4	328.2	7.4	54.0	0.6	304.
3.5	27.9	2273.8	775.0	13.4	3.9	246.1	7.8	7.1	3.2	308.2	327.0	6.6	52.6	0.4	329.
4.1	30.5	2548.7	750.0	10.7	2.5	258.4	9.3	9.2	1.9	308.2	325.7	6.1	56.7	0.6	1.
4.8	33.0	2830.2	725.0	8.1	0.7	263.8	10.2	10.2	1.1	308.4	324.4	5.6	59.4	0.8	35.
5.4	35.6	3119.3	700.0	5.9	-2.4	261.8	12.3	12.2	1.7	309.0	322.4	4.6	55.2	1.0	50.
6.1	38.3	3416.1	675.0	3.6	-5.5	260.5	16.5	16.3	2.7	309.7	320.9	3.8	51.4	1.6	60.
6.7	41.0	3721.0	650.0	1.0	-9.5	265.6	18.0	17.9	1.4	310.1	318.7	2.9	45.2	2.2	67.
7.4	43.8	4035.6	625.0	-0.7	-18.0	264.2	19.9	19.8	2.0	311.7	316.4	1.5	25.8	3.0	72.
8.1	46.6	4360.5	600.0	-2.6	-23.5	262.8	19.9	19.7	2.5	313.1	316.2	1.0	18.1	3.8	75.
8.8	49.5	4696.4	575.0	-5.1	-26.0	263.9	19.5	19.4	2.1	314.0	316.6	0.8	17.5	4.7	76.
9.6	52.4	5044.1	550.0	-7.0	-33.0	266.9	18.7	18.7	1.0	315.8	317.3	0.4	10.4	5.6	78.
10.4	55.5	5405.4	525.0	-9.3	-36.0	269.8	18.0	18.0	0.1	317.3	318.4	0.3	9.2	6.5	79.
11.3	58.6	5780.2	500.0	-12.8	-37.1	269.5	19.1	19.1	0.2	317.5	318.6	0.3	10.9	7.4	81.
12.2	61.8	6168.9	475.0	-15.9	-39.5	266.2	19.4	19.3	1.3	318.3	319.2	0.3	11.0	8.4	82.
13.2	65.0	6574.0	450.0	-18.3	-42.1	256.8	23.7	23.1	5.4	320.3	321.1	0.2	10.2	9.6	82.
14.1	68.3	6999.7	425.0	-19.9	-43.2	245.7	28.4	25.9	11.7	323.5	324.2	0.2	10.3	11.0	80.
15.1	71.9	7447.3	400.0	-22.8	-44.4	240.2	32.0	27.7	15.9	325.4	326.1	0.2	11.8	12.6	78.
15.9	75.4	7917.2	375.0	-26.5	-46.7	239.1	34.5	29.6	17.7	326.5	327.1	0.1	12.8	14.4	75.
16.9	79.2	8412.9	350.0	-30.1	-48.2	237.9	35.5	30.0	18.8	328.1	328.6	0.1	15.1	16.5	73.
18.0	83.2	8935.5	325.0	-33.8	-51.4	236.3	36.9	30.7	20.5	330.1	330.5	0.1	14.9	18.8	71.
19.3	87.2	9494.0	300.0	-35.9	-54.2	235.2	38.9	31.9	22.2	334.8	335.1	0.1	13.1	21.6	69.
20.6	91.5	10094.0	275.0	-39.2	-56.4	232.2	40.2	31.8	24.7	338.4	338.7	0.1	13.9	24.6	67.
22.0	96.2	10743.5	250.0	-41.6	99.9	232.1	43.8	34.5	26.9	344.2	999.9	99.9	999.9	28.0	65.
23.4	101.0	11454.1	225.0	-44.3	99.9	235.3	44.6	36.7	25.4	350.7	999.9	99.9	999.9	31.5	64.
25.1	106.3	12240.7	200.0	-46.5	99.9	237.8	44.1	37.3	23.5	359.1	999.9	99.9	999.9	36.1	63.
27.8	112.0	13115.8	175.0	-52.5	99.9	241.6	41.1	36.2	19.5	363.2	999.9	99.9	999.9	43.2	62.
30.3	118.2	14128.6	150.0	-55.2	99.9	231.0	32.1	25.0	20.2	375.0	999.9	99.9	999.9	48.5	62.
33.0	125.3	15267.8	125.0	-59.2	99.9	236.8	25.7	21.5	14.1	387.8	999.9	99.9	999.9	52.8	61.
36.4	133.3	16657.6	100.0	-61.4	99.9	999.9	99.9	99.9	99.9	411.2	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

14 JULY 1981
1748 GMT

122 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.3	903.0	910.9	24.7	15.6	10.0	4.0	-0.7	-3.9	305.9	339.8	12.4	57.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.4	1008.8	900.0	20.9	13.1	334.6	4.1	1.7	-3.7	303.1	332.1	10.7	61.1	0.2	180.
1.1	19.9	1251.3	875.0	18.4	13.1	337.4	5.0	1.9	-4.6	303.0	332.7	11.0	71.3	0.3	168.
1.9	22.4	1499.6	850.0	16.0	12.8	347.7	4.9	1.0	-4.8	303.0	333.0	11.0	81.2	0.5	164.
2.6	24.9	1753.1	825.0	13.8	11.9	356.5	4.4	0.3	-4.4	303.2	332.3	10.7	88.7	0.7	169.
3.3	27.5	2012.7	800.0	12.4	10.1	355.1	2.3	0.2	-2.3	304.4	331.3	9.8	85.9	0.9	169.
4.1	30.3	2280.5	775.0	14.3	4.2	301.5	1.3	0.9	-0.5	309.1	328.3	6.7	50.8	1.0	169.
4.9	32.8	2557.0	750.0	13.2	1.0	281.5	3.7	3.6	-0.7	310.9	326.9	5.5	43.2	1.0	165.
5.6	35.3	2841.4	725.0	11.7	0.7	281.8	5.7	5.6	-1.2	312.4	328.7	5.6	46.6	1.1	154.
6.4	38.1	3133.9	700.0	8.7	0.8	270.1	5.5	5.5	-0.0	312.1	329.0	5.8	57.6	1.3	144.
7.2	40.9	3434.0	675.0	6.6	3.2	254.3	6.6	6.3	1.8	313.0	333.8	7.2	79.2	1.4	135.
8.1	43.7	3743.7	650.0	5.3	-7.3	251.4	9.3	8.8	3.0	314.9	325.4	3.4	40.0	1.7	122.
8.9	46.4	4062.5	625.0	2.8	-18.2	250.6	12.6	11.9	4.2	315.6	320.3	1.5	19.6	2.1	110.
9.9	49.3	4391.1	600.0	0.8	-49.5	246.9	14.7	13.5	5.8	317.1	317.3	0.1	1.0	2.7	99.
10.8	52.3	4730.6	575.0	-2.4	-51.4	245.5	14.6	13.3	6.1	317.2	317.4	0.1	1.0	3.4	91.
11.8	55.3	5081.8	550.0	-3.8	-52.3	242.8	14.7	13.0	6.7	319.6	319.8	0.1	1.0	4.2	86.
12.8	58.4	5448.1	525.0	-5.5	-53.4	235.1	16.2	13.3	9.3	321.8	322.0	0.0	1.0	5.1	81.
13.8	61.5	5829.1	500.0	-7.6	-54.7	235.7	17.0	14.1	9.6	323.8	324.0	0.0	1.0	6.0	77.
14.8	64.6	6226.4	475.0	-10.2	-56.3	237.7	17.9	15.1	9.6	325.4	325.6	0.0	1.0	7.0	74.
16.0	68.0	6639.9	450.0	-13.9	-58.7	241.5	19.5	17.1	9.3	325.8	325.9	0.0	1.0	8.2	71.
17.2	71.4	7071.8	425.0	-16.8	-60.6	247.3	22.5	20.8	8.7	327.5	327.6	0.0	1.0	9.6	71.
18.2	75.0	7523.7	400.0	-19.9	-62.6	246.8	22.5	20.7	8.9	329.1	329.2	0.0	1.0	11.2	70.
19.5	78.6	7999.5	375.0	-23.3	-64.8	242.4	23.5	20.8	10.9	330.8	330.9	0.0	1.0	12.9	69.
20.8	82.3	8501.7	350.0	-26.1	-66.6	241.2	26.0	22.8	12.5	333.6	333.7	0.0	1.0	14.9	68.
22.3	86.2	9035.3	325.0	-28.5	-68.2	236.2	29.7	24.7	16.5	337.5	337.5	0.0	1.0	17.2	67.
23.8	90.2	9605.1	300.0	-31.4	-70.1	233.8	36.6	29.5	21.6	341.2	341.2	0.0	1.0	20.1	65.
25.5	94.4	10217.4	275.0	-35.2	-72.6	234.7	37.5	30.6	21.7	344.3	344.3	0.0	1.0	23.9	63.
27.1	98.8	10875.5	250.0	-39.7	99.9	234.1	32.9	26.6	19.3	347.1	999.9	99.9	999.9	27.5	62.
29.0	103.6	11588.5	225.0	-45.0	99.9	232.6	34.0	27.0	20.7	349.5	999.9	99.9	999.9	31.0	61.
31.1	108.8	12367.6	200.0	-49.6	99.9	227.1	32.0	23.5	21.8	354.2	999.9	99.9	999.9	35.3	60.
33.6	114.2	13228.2	175.0	-55.8	99.9	231.0	28.1	21.9	17.7	357.8	999.9	99.9	999.9	39.5	58.
36.0	120.0	14199.7	150.0	-59.6	99.9	233.2	24.7	19.8	14.8	367.5	999.9	99.9	999.9	43.5	58.
39.1	126.7	15329.5	125.0	-63.5	99.9	226.6	19.9	14.5	13.7	379.9	999.9	99.9	999.9	47.6	57.
43.1	134.3	16722.9	100.0	-57.3	99.9	999.9	99.9	99.9	99.9	417.1	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

14 JULY 1981
2040 GMT

122 91. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.4	933.9	910.1	27.5	13.8	265.0	1.0	1.0	0.1	308.9	339.5	11.0	43.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.4	1001.6	900.0	25.4	13.8	291.4	3.3	3.0	-1.2	307.7	338.6	11.1	48.6	0.0	151.
0.9	20.1	1247.7	875.0	21.1	11.4	297.6	2.6	2.3	-1.2	305.7	332.7	9.8	54.0	0.1	125.
1.4	22.7	1494.2	850.0	19.0	10.4	324.4	1.7	1.0	-1.4	306.0	332.0	9.4	57.4	0.2	124.
2.0	25.3	1753.9	825.0	16.5	9.9	336.1	2.3	0.9	-2.1	306.0	331.9	9.3	64.9	0.2	134.
2.8	28.0	2015.1	800.0	14.0	9.5	322.3	3.9	2.4	-3.1	306.1	332.2	9.4	74.5	0.4	140.
3.4	30.7	2282.7	775.0	11.8	7.0	303.3	4.2	3.5	-2.3	306.5	329.3	8.2	72.6	0.5	140.
4.2	33.5	2556.7	750.0	10.6	3.9	288.5	4.7	4.4	-1.5	308.1	327.4	6.8	63.4	0.7	131.
5.0	36.2	2838.0	725.0	9.5	1.5	297.8	4.5	4.0	-2.1	309.9	327.0	5.9	57.6	0.9	127.
5.8	39.1	3129.7	700.0	7.2	1.2	277.6	6.4	6.4	-0.8	310.5	327.8	6.0	65.3	1.2	125.
6.6	41.9	3429.8	675.0	5.6	0.4	262.7	11.1	9.9	5.1	311.9	329.0	5.9	69.5	1.4	112.
7.3	44.9	3736.4	650.0	3.4	-6.8	227.9	13.2	9.8	8.8	312.9	323.5	3.5	46.9	1.8	96.
8.2	47.9	4053.2	625.0	1.1	-21.4	229.9	13.0	9.8	8.5	313.8	317.3	1.1	16.7	2.3	82.
9.0	50.8	4380.0	600.0	-1.5	-24.8	241.9	12.6	11.2	5.9	314.4	317.2	0.8	14.9	2.9	77.
9.9	53.8	4717.9	575.0	-2.6	-27.6	248.9	13.0	12.1	4.7	316.9	319.2	0.7	12.5	3.6	75.
11.0	56.9	5066.0	550.0	-4.8	-27.3	244.2	15.1	13.6	6.6	318.4	320.9	0.7	15.1	4.4	74.
11.9	60.0	5432.8	525.0	-7.7	-29.8	240.7	17.5	15.3	8.6	319.2	321.3	0.6	14.9	5.3	72.
12.9	63.4	5811.9	500.0	-8.6	-32.7	241.6	19.5	17.2	9.3	322.5	324.2	0.5	12.2	6.4	70.
13.9	66.7	6207.6	475.0	-11.4	-33.9	242.2	22.5	19.9	10.5	323.9	325.5	0.5	13.5	7.7	69.
15.0	70.1	6619.1	450.0	-15.0	-36.4	242.2	19.4	17.2	9.1	324.4	325.8	0.4	14.0	9.2	67.
16.2	73.6	7049.0	425.0	-18.1	-39.3	241.4	17.6	15.4	8.4	325.8	326.9	0.3	13.5	10.4	67.
17.4	77.1	7499.0	400.0	-21.4	-41.7	240.8	22.9	20.0	11.2	327.2	328.1	0.2	14.0	11.7	66.
18.6	81.9	7972.1	375.0	-24.2	-43.8	240.2	27.4	23.8	13.6	329.6	330.3	0.2	14.2	13.7	65.
19.9	84.6	8471.5	350.0	-27.8	-46.2	238.3	28.6	24.3	15.0	331.2	331.9	0.2	15.2	15.8	65.
21.2	88.6	9000.6	325.0	-30.9	-48.5	235.5	29.3	24.2	16.6	334.1	334.6	0.1	15.8	18.1	64.
22.9	92.8	9565.1	300.0	-33.5	-50.8	233.8	35.2	28.4	20.8	338.1	338.6	0.1	15.6	21.1	62.
24.8	97.0	10173.1	275.0	-35.8	-52.5	233.3	40.5	32.5	24.2	343.4	343.8	0.1	15.9	25.7	61.
27.0	101.7	10829.1	250.0	-40.2	99.9	231.7	38.8	30.5	24.0	346.3	999.9	99.9	999.9	31.0	59.
29.0	106.2	11539.8	225.0	-45.6	99.9	228.9	36.9	27.8	24.2	348.6	999.9	99.9	999.9	35.4	58.
31.6	111.3	12315.3	200.0	-50.7	99.9	230.1	34.8	26.7	22.3	352.5	999.9	99.9	999.9	41.2	57.
34.4	116.5	13179.4	175.0	-55.0	99.9	233.9	32.3	26.0	19.0	359.1	999.9	99.9	999.9	45.8	56.
37.1	122.2	14156.0	150.0	-59.5	99.9	246.6	23.1	21.2	9.1	367.5	999.9	99.9	999.9	51.5	57.
40.5	128.2	15282.5	125.0	-60.6	99.9	228.9	16.1	12.1	10.6	385.2	999.9	99.9	999.9	55.2	57.
44.6	134.7	16609.8	100.0	-61.5	99.9	999.9	99.9	99.9	99.9	408.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

14 JULY 1981
2340 GMT

119 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.8	993.0	909.3	29.7	13.5	360.0	0.0	0.0	0.0	311.2	341.5	10.8	37.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	16.7	994.0	900.0	28.2	12.1	342.4	3.7	1.1	-3.5	308.6	336.3	9.9	41.3	0.1	177.
0.7	19.2	1241.5	875.0	23.9	11.1	344.7	3.3	0.9	-3.2	308.6	335.4	9.6	44.5	0.2	172.
1.2	21.7	1494.4	850.0	21.8	10.6	345.5	2.6	0.6	-2.5	309.0	335.7	9.5	49.0	0.2	170.
1.7	24.2	1753.5	825.0	19.9	9.2	340.9	2.2	0.7	-2.1	308.6	333.8	8.9	53.3	0.3	169.
2.2	26.7	2018.3	800.0	16.9	8.6	333.1	2.2	1.0	-1.9	309.1	334.0	8.8	58.2	0.4	167.
2.7	29.2	2288.9	775.0	14.9	7.7	307.0	2.0	1.6	-1.2	308.8	332.9	8.5	65.7	0.4	164.
3.3	31.8	2561.6	750.0	11.2	6.1	284.7	2.1	2.1	-0.5	308.8	331.1	7.9	70.6	0.5	155.
4.1	34.4	2844.3	725.0	8.7	4.8	287.3	3.8	3.7	-1.1	309.0	330.3	7.5	76.9	0.6	148.
4.9	37.1	3134.0	700.0	6.5	2.0	276.1	6.5	6.5	-0.7	309.6	327.9	6.4	73.3	0.8	135.
5.8	39.9	3431.5	675.0	4.5	-5.3	265.6	9.0	9.0	0.7	310.7	322.1	3.8	49.1	1.1	119.
6.5	42.6	3738.0	650.0	2.4	-12.2	260.3	10.8	10.7	1.8	311.7	318.8	2.7	33.2	1.4	109.
7.2	45.4	4053.6	625.0	0.5	-24.3	255.2	13.1	12.6	3.3	313.0	316.1	1.0	15.4	1.9	101.
8.1	48.2	4380.6	600.0	-0.1	-29.5	256.4	14.3	13.9	3.6	316.9	317.8	0.5	8.7	2.6	93.
9.0	51.1	4719.3	575.0	-2.6	-30.7	259.0	15.9	15.6	3.0	317.0	318.7	0.5	9.3	3.4	90.
10.1	54.1	5072.5	550.0	-4.8	-29.4	257.3	17.5	17.1	3.9	318.4	320.4	0.6	12.5	4.5	87.
11.3	57.3	5438.0	525.0	-6.6	-32.8	255.4	18.5	17.9	4.7	320.5	322.1	0.5	10.3	5.7	85.
12.3	60.3	5814.3	500.0	-9.0	-33.8	252.2	20.8	19.8	6.4	322.1	323.6	0.4	11.3	6.9	83.
13.3	63.5	6209.2	475.0	-11.7	-35.0	250.1	23.8	22.4	8.1	323.5	325.0	0.4	12.4	8.2	81.
14.3	66.8	6621.0	450.0	-14.7	-38.3	246.1	23.7	21.7	9.6	324.7	325.8	0.3	11.3	9.6	79.
15.3	70.1	7050.6	425.0	-18.4	-41.3	244.9	24.8	22.4	10.5	325.4	326.3	0.2	11.2	11.1	77.
16.5	73.6	7500.6	400.0	-21.3	-43.3	245.0	26.6	24.1	11.2	327.3	328.1	0.2	11.6	12.6	75.
17.8	77.1	7973.8	375.0	-24.3	-44.7	244.5	27.4	24.8	11.8	329.4	330.1	0.2	13.1	14.9	74.
19.3	80.7	8473.2	350.0	-27.5	-46.7	243.5	28.0	25.0	12.5	331.7	332.3	0.2	14.0	17.4	73.
21.0	84.6	9003.4	325.0	-30.5	-49.5	236.5	30.6	25.5	16.8	334.7	335.2	0.1	13.4	20.2	71.
22.7	88.5	9569.2	300.0	-33.5	-50.4	230.3	36.1	27.8	23.1	338.1	338.6	0.1	16.3	23.5	69.
24.4	92.7	10175.2	275.0	-37.4	-53.8	230.0	37.4	28.7	24.1	341.1	341.5	0.1	15.9	27.0	66.
26.1	97.0	10824.9	250.0	-39.8	-55.4	232.5	40.7	32.3	24.8	346.9	347.2	0.1	16.9	31.0	64.
28.2	101.6	11541.0	225.0	-45.3	99.9	235.1	41.6	34.1	23.8	349.1	999.9	99.9	999.9	37.1	62.
30.9	106.4	12320.9	200.0	-48.6	99.9	237.0	38.1	31.9	20.8	355.9	999.9	99.9	999.9	42.7	61.
33.7	111.8	13198.7	175.0	-53.8	99.9	236.2	31.4	26.1	17.5	361.1	999.9	99.9	999.9	48.3	61.
36.8	117.4	14167.3	150.0	-59.1	99.9	242.6	25.4	22.6	11.7	368.2	999.9	99.9	999.9	53.8	61.
40.1	123.5	15322.2	125.0	-63.3	99.9	238.9	20.6	17.6	10.6	380.4	999.9	99.9	999.9	58.4	61.
44.0	130.2	16685.1	100.0	-60.5	99.9	999.9	99.9	99.9	99.9	410.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
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STATION NO. 3
BAKER, MONTANA

15 JULY 1981
240 GMT

118 94. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.1	933.0	905.7	23.8	15.0	90.0	1.0	-1.0	0.0	305.1	337.7	11.9	58.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.0	996.8	900.0	23.4	13.0	73.1	4.8	-4.6	-1.4	305.6	334.7	10.6	52.3	0.3	272.
0.8	19.4	1242.5	875.0	21.7	11.7	71.3	4.6	-4.4	-1.5	306.3	333.8	9.9	53.9	0.4	268.
1.5	21.8	1493.8	850.0	19.8	11.3	66.8	4.5	-4.2	-1.8	306.9	334.6	10.0	57.7	0.6	261.
2.2	24.3	1750.5	825.0	17.4	10.2	52.7	3.4	-2.7	-2.1	307.0	333.6	9.6	62.7	0.7	257.
2.9	26.8	2013.2	800.0	15.5	9.9	65.8	1.7	-1.6	-0.7	307.7	334.6	9.6	69.2	0.8	253.
3.7	29.3	2282.1	775.0	12.8	8.8	152.2	0.9	-0.4	0.8	307.6	333.3	9.2	76.6	0.9	254.
4.5	31.9	2556.9	750.0	10.4	5.6	233.8	2.9	2.4	1.7	307.9	329.5	7.6	71.9	0.8	256.
5.3	34.6	2838.7	725.0	8.8	2.0	259.0	5.4	5.3	1.0	309.1	326.7	6.1	62.5	0.6	260.
6.2	37.0	3129.2	700.0	6.9	-3.3	273.4	9.9	9.9	-0.6	310.1	322.8	4.3	48.1	0.3	248.
7.0	39.7	3426.5	675.0	5.6	-7.8	276.1	15.5	15.4	-1.6	311.5	321.5	3.2	37.5	0.4	115.
7.9	42.4	3734.6	650.0	4.1	-11.6	275.9	18.2	18.1	-1.9	313.6	321.1	2.4	30.8	1.3	102.
8.6	45.1	4051.5	625.0	0.7	-15.1	276.2	20.3	20.2	-2.2	313.3	319.2	1.9	29.4	2.2	99.
9.5	48.0	4377.7	600.0	-1.8	-17.9	277.0	21.0	20.9	-2.6	314.1	319.0	1.6	27.8	3.3	98.
10.4	50.9	4714.1	575.0	-5.0	-26.0	275.6	19.5	19.5	-1.9	314.1	316.7	0.8	17.4	4.4	98.
11.4	53.7	5062.0	550.0	-7.1	-39.9	270.4	17.9	17.9	-0.1	315.7	316.4	0.2	5.2	5.5	97.
12.5	56.8	5423.5	525.0	-8.7	-41.4	263.0	18.8	18.6	2.3	318.0	318.7	0.2	5.1	6.7	95.
13.5	59.9	5800.9	500.0	-10.0	-42.2	258.6	22.4	22.0	4.4	320.9	321.6	0.2	5.1	7.9	93.
14.5	63.0	6195.1	475.0	-11.6	-42.8	254.8	24.5	23.7	6.4	323.6	324.3	0.2	5.4	9.2	91.
15.4	66.1	6606.7	450.0	-14.6	-42.6	251.6	26.0	24.7	8.2	324.8	325.6	0.2	7.1	10.6	88.
16.5	69.5	7036.4	425.0	-17.9	-42.7	249.0	26.6	24.9	9.5	326.0	326.8	0.2	9.3	12.2	86.
17.6	72.9	7485.9	400.0	-22.2	-45.8	246.8	27.5	25.3	10.8	326.1	326.7	0.2	9.6	13.8	84.
18.7	76.4	7956.8	375.0	-25.4	-49.3	246.4	31.3	28.7	12.5	328.0	328.4	0.1	8.6	15.8	81.
19.8	80.0	8453.9	350.0	-29.4	-50.8	246.7	32.1	29.5	12.7	329.1	329.5	0.1	10.5	17.8	80.
21.1	83.9	8980.8	325.0	-31.2	-52.1	248.2	33.3	30.9	12.4	333.7	334.0	0.1	10.6	20.2	78.
22.3	87.8	9543.0	300.0	-34.3	-55.3	246.1	38.4	35.1	15.6	337.1	337.3	0.1	9.8	22.9	77.
23.7	92.0	10147.5	275.0	-37.6	-57.0	240.3	41.7	36.3	20.7	340.7	340.9	0.1	11.0	26.1	75.
25.2	96.4	10804.8	250.0	-39.0	99.9	234.5	42.6	34.7	24.7	348.2	999.9	99.9	999.9	29.5	73.
27.2	101.0	11517.7	225.0	-45.2	99.9	236.9	43.4	36.3	23.7	349.2	999.9	99.9	999.9	34.7	70.
29.5	106.0	12298.3	200.0	-49.4	99.9	235.5	38.0	31.3	21.5	354.6	999.9	99.9	999.9	40.2	68.
31.9	111.3	13164.2	175.0	-54.0	99.9	238.3	32.8	27.9	17.2	360.8	999.9	99.9	999.9	45.2	67.
34.5	117.0	14136.6	150.0	-59.4	99.9	249.7	30.1	28.2	10.4	367.7	999.9	99.9	999.9	50.3	67.
37.9	123.5	15259.5	125.0	-63.4	99.9	252.0	21.8	20.7	6.7	380.2	999.9	99.9	999.9	54.8	67.
41.5	131.0	16652.1	100.0	-62.7	99.9	999.9	99.9	99.9	99.9	406.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

14 JULY 1981
1740 GMT

119 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.5	954.0	906.8	24.6	15.2	345.0	2.0	0.5	-1.9	306.2	339.5	12.1	56.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	17.1	1019.8	900.0	22.0	11.9	999.9	99.9	99.9	99.9	304.2	331.2	9.8	52.8	999.9	999.
0.8	19.6	1203.4	875.0	19.7	11.6	999.9	99.9	99.9	99.9	303.2	330.3	9.9	63.6	999.9	999.
1.5	22.1	1411.7	850.0	16.3	11.5	999.9	99.9	99.9	99.9	303.3	330.9	10.1	73.2	999.9	999.
2.4	24.6	1645.3	825.0	13.9	11.2	999.9	99.9	99.9	99.9	303.3	331.1	10.2	83.9	0.4	151.
3.2	27.2	1904.6	800.0	11.8	10.3	333.3	3.4	1.5	-3.0	303.7	330.8	9.9	90.7	0.6	153.
3.9	29.8	2191.1	775.0	12.8	5.4	298.2	2.7	2.4	-1.3	307.6	328.2	7.3	60.6	0.7	153.
4.6	32.4	2506.9	750.0	12.8	1.2	267.8	5.4	5.4	0.2	310.5	326.8	5.6	45.1	0.8	142.
5.5	35.1	2850.9	725.0	10.7	1.5	265.9	5.2	5.2	0.4	311.2	328.3	5.9	52.7	1.1	127.
6.3	37.8	3224.4	700.0	8.2	1.4	248.1	4.6	4.3	1.7	311.6	329.2	6.1	61.9	1.2	121.
7.1	40.6	3628.3	675.0	6.4	-1.4	227.4	6.9	5.1	4.7	312.8	328.0	5.1	57.5	1.3	110.
7.9	43.3	4060.6	650.0	4.3	-13.1	232.1	9.2	7.3	5.7	313.9	320.8	2.2	27.6	1.6	97.
8.8	46.2	4518.4	625.0	2.2	-37.1	237.6	10.3	8.7	5.5	315.0	315.9	0.2	3.5	2.0	87.
9.7	49.0	4995.7	600.0	-1.0	-50.6	241.3	11.4	10.0	5.5	315.0	315.2	0.1	1.0	2.5	80.
10.6	51.9	5488.7	575.0	-2.5	-51.5	241.4	12.4	10.9	5.9	317.0	317.2	0.1	1.0	3.1	77.
11.6	54.9	5995.3	550.0	-3.7	-52.3	237.2	14.5	12.1	7.8	319.7	319.9	0.1	1.0	4.0	73.
12.6	57.9	6513.5	525.0	-6.7	-54.1	234.2	15.4	12.5	9.0	320.4	320.6	0.0	1.0	4.8	70.
13.6	61.0	7039.0	500.0	-9.3	-55.8	236.1	14.9	12.3	8.3	321.7	321.9	0.0	1.0	5.7	67.
14.7	64.1	7574.6	475.0	-10.8	-56.8	242.3	16.5	14.6	7.7	324.6	324.7	0.0	1.0	6.6	66.
15.8	67.5	8138.1	450.0	-13.7	-58.6	242.5	19.5	17.3	9.0	326.1	326.2	0.0	1.0	7.9	66.
17.0	70.9	8749.5	425.0	-17.0	-60.7	241.7	22.0	19.3	10.4	327.2	327.3	0.0	1.0	9.4	65.
18.2	74.3	9321.8	400.0	-20.1	-62.7	243.2	25.5	22.8	11.5	328.9	328.9	0.0	1.0	11.0	65.
19.3	77.8	9906.9	375.0	-23.6	-65.0	241.7	26.1	23.0	12.4	330.4	330.5	0.0	1.0	12.7	65.
20.4	81.4	10498.1	350.0	-26.7	-67.0	237.5	27.6	23.3	14.8	332.8	332.8	0.0	1.0	14.6	64.
21.4	85.2	11130.3	325.0	-29.5	-68.9	233.5	30.5	24.5	18.2	336.0	336.0	0.0	1.0	16.3	63.
22.7	89.2	11797.1	300.0	-33.2	-71.3	230.6	34.8	26.9	22.1	338.6	338.6	0.0	1.0	18.6	62.
23.9	93.2	12506.1	275.0	-35.5	-72.8	229.8	38.1	29.1	24.6	343.9	343.9	0.0	1.0	21.3	60.
25.1	97.5	13264.1	250.0	-39.7	99.9	228.7	37.0	27.8	24.4	347.1	999.9	99.9	999.9	24.1	59.
26.5	102.0	14077.0	225.0	-44.9	99.9	225.0	38.2	27.0	27.0	349.9	999.9	99.9	999.9	27.1	58.
28.1	107.0	14953.0	200.0	-50.5	99.9	226.3	33.6	24.3	23.2	352.8	999.9	99.9	999.9	30.4	56.
29.8	112.2	15915.1	175.0	-55.3	99.9	230.2	32.4	24.9	20.8	358.6	999.9	99.9	999.9	33.8	55.
31.4	117.7	16983.3	150.0	-57.6	99.9	234.2	23.2	18.8	13.6	370.9	999.9	99.9	999.9	37.3	55.
34.1	124.0	18227.2	125.0	-62.0	99.9	218.0	16.4	10.1	12.9	382.7	999.9	99.9	999.9	39.7	54.
37.2	130.7	19717.2	100.0	-56.8	99.9	999.9	99.9	99.9	99.9	418.1	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 4
KNOWLTON, MONTANA

14 JULY 1981
2040 GMT

123 89. 9

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	16.4	954.0	905.7	26.6	11.9	360.0	1.0	0.0	-1.0	308.4	335.6	9.7	40.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	17.0	1009.6	900.0	25.2	11.4	999.9	99.9	99.9	99.9	307.4	333.8	9.5	42.1	999.9	999.
0.9	19.6	1256.2	875.0	22.7	9.8	999.9	99.9	99.9	99.9	307.4	331.9	8.8	44.0	999.9	999.
1.7	22.3	1507.5	850.0	20.1	9.5	999.9	99.9	99.9	99.9	307.2	331.8	8.8	50.5	999.9	999.
2.6	25.0	1763.9	825.0	17.1	7.9	999.9	99.9	99.9	99.9	306.6	329.4	8.1	54.7	0.3	154.
3.4	27.8	2025.9	800.0	14.7	7.2	310.8	3.3	2.5	-2.2	306.8	329.3	8.0	61.0	0.5	146.
4.2	30.4	2293.8	775.0	12.5	6.9	306.5	2.4	1.9	-1.4	307.2	329.9	8.1	69.6	0.7	145.
5.1	33.2	2568.3	750.0	10.2	6.1	269.8	2.9	2.9	0.0	307.7	330.0	7.9	75.6	0.7	141.
5.9	36.1	2850.7	725.0	9.7	2.6	253.0	6.1	5.8	1.8	310.1	328.5	6.4	61.6	0.9	128.
6.8	38.9	3141.7	700.0	8.0	1.0	248.8	8.6	8.0	3.1	311.3	328.5	5.9	61.1	1.1	119.
7.6	41.8	3440.8	675.0	5.5	-3.6	247.5	9.2	8.5	3.5	311.8	324.7	4.4	51.7	1.5	98.
8.6	44.8	3747.9	650.0	2.3	-7.1	246.7	10.2	9.3	4.0	311.6	322.1	3.5	49.8	2.0	90.
9.5	47.8	4063.5	625.0	0.5	-28.4	245.6	12.2	11.1	5.1	313.1	315.2	0.7	10.4	2.6	85.
10.5	50.8	4390.2	600.0	-0.2	-48.1	242.5	14.7	13.1	6.8	315.8	316.2	0.1	1.4	3.3	80.
11.5	53.9	4729.4	575.0	-1.8	-51.1	241.8	15.8	13.9	7.5	317.8	318.1	0.1	1.0	4.2	76.
12.5	57.0	5081.1	550.0	-4.1	-52.5	238.3	15.5	13.2	8.1	319.3	319.5	0.1	1.0	5.2	73.
13.6	60.3	5446.8	525.0	-7.2	-49.8	235.3	16.0	13.1	9.1	319.8	320.1	0.1	1.8	6.1	70.
14.7	63.6	5824.4	500.0	-9.3	-55.2	237.4	18.3	15.4	9.9	321.7	321.9	0.0	1.1	7.3	68.
16.2	67.0	6219.3	475.0	-11.3	-50.8	240.2	21.4	18.6	10.6	324.0	324.3	0.1	2.1	9.0	66.
17.4	70.4	6631.8	450.0	-14.7	-47.1	235.2	21.6	17.7	12.3	324.8	325.3	0.1	4.3	10.5	65.
18.6	74.0	7061.6	425.0	-17.7	-54.3	234.8	23.7	19.4	13.7	326.3	326.5	0.1	2.4	12.1	64.
19.7	77.6	7512.3	400.0	-21.3	-54.5	235.1	26.5	21.8	15.2	327.3	327.6	0.1	3.2	13.7	63.
21.0	81.3	7985.0	375.0	-24.6	-57.7	236.5	27.9	23.8	14.6	329.0	329.2	0.0	2.9	16.0	62.
22.5	85.3	8483.9	350.0	-28.2	-56.3	239.5	28.5	24.6	14.5	330.8	331.0	0.1	4.7	18.5	62.
23.9	89.2	9013.2	325.0	-30.1	-58.2	234.2	32.4	26.3	18.9	335.3	335.4	0.0	4.5	20.9	61.
25.4	93.3	9579.3	300.0	-33.3	-61.1	228.9	35.7	26.9	23.5	338.4	338.6	0.0	4.2	24.1	60.
27.2	97.8	10185.1	275.0	-37.8	-63.2	231.5	38.6	30.2	24.0	340.5	340.7	0.0	5.0	27.9	59.
29.3	102.2	10830.4	250.0	-39.8	99.9	230.3	39.9	30.7	25.5	347.0	999.9	99.9	999.9	32.8	57.
31.5	106.8	11513.5	225.0	-44.6	99.9	226.9	43.0	31.3	29.4	350.1	999.9	99.9	999.9	38.3	56.
33.9	111.9	12231.9	200.0	-50.2	99.9	229.4	38.5	29.3	25.1	353.3	999.9	99.9	999.9	43.6	55.
36.5	117.2	13197.6	175.0	-53.6	99.9	236.1	34.3	28.5	19.2	361.5	999.9	99.9	999.9	49.9	55.
39.5	122.7	14177.2	150.0	-56.8	99.9	241.5	23.6	20.7	11.3	372.2	999.9	99.9	999.9	55.2	55.
42.4	128.7	15320.2	125.0	-61.1	99.9	229.2	16.2	12.3	10.6	384.4	999.9	99.9	999.9	58.3	55.
46.6	135.0	16707.4	100.0	-58.4	99.9	217.2	12.8	7.7	10.2	414.8	999.9	99.9	999.9	62.6	55.
99.9	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.
99.9	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.
99.9	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.

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STATION NO. 4
KNOWLTON, MONTANA

14 JULY 1981
2340 GMT

117 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	17.0	954.0	905.5	27.6	11.6	360.0	1.0	0.0	-1.0	309.4	336.3	9.5	37.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	17.5	1008.0	900.0	26.8	10.7	344.7	3.5	0.9	-3.4	309.2	334.6	9.1	36.5	0.1	278.
0.8	19.9	1255.6	875.0	24.3	9.3	330.7	4.3	2.1	-3.8	309.1	332.9	8.4	38.5	0.2	185.
1.5	22.5	1508.4	850.0	21.5	8.5	338.2	3.1	1.2	-2.9	308.7	331.9	8.2	43.1	0.4	172.
2.3	25.0	1766.1	825.0	18.9	7.5	338.9	4.0	1.4	-3.7	308.6	331.0	7.9	47.4	0.5	169.
2.9	27.5	2029.7	800.0	16.5	6.9	331.2	3.9	1.9	-3.4	308.8	331.0	7.8	52.8	0.7	166.
3.6	30.1	2299.0	775.0	13.9	6.0	319.9	4.4	2.8	-3.3	308.8	330.5	7.6	58.8	0.8	162.
4.2	32.7	2574.8	750.0	11.4	5.1	299.7	5.0	4.3	-2.5	309.0	329.9	7.4	65.0	1.0	157.
4.9	35.3	2857.4	725.0	9.0	3.8	282.5	4.7	4.6	-1.0	309.3	329.3	7.0	70.2	1.1	150.
5.6	38.0	3146.9	700.0	6.2	-4.6	267.6	6.2	6.2	0.3	309.3	320.8	3.9	45.9	1.2	141.
6.3	40.8	3444.2	675.0	4.1	-5.3	268.4	9.3	9.3	0.3	310.3	321.7	3.8	50.4	1.4	131.
6.9	43.5	3750.0	650.0	1.8	-15.3	266.8	12.0	12.0	0.7	311.0	317.6	2.2	32.6	1.8	121.
7.7	46.3	4065.4	625.0	0.4	-24.1	265.9	14.3	14.2	1.0	313.0	315.8	0.9	13.8	2.3	113.
8.4	49.1	4391.3	600.0	-1.8	-24.8	261.5	15.8	15.7	2.3	314.0	316.8	0.8	15.2	2.9	107.
9.2	52.1	4728.9	575.0	-3.1	-27.5	254.9	17.0	16.5	4.4	316.4	318.7	0.7	13.1	3.6	101.
10.0	55.1	5079.0	550.0	-5.9	-27.3	252.4	18.8	17.9	5.7	317.2	319.6	0.7	16.4	4.4	95.
10.8	58.3	5441.6	525.0	-8.0	-28.9	253.4	21.2	20.3	6.0	318.9	321.1	0.7	16.5	5.3	91.
11.9	61.3	5819.2	500.0	-10.2	-32.3	249.1	21.5	20.1	7.7	320.6	322.4	0.5	14.3	6.6	87.
13.0	64.4	6212.9	475.0	-12.1	-33.8	243.6	23.3	20.8	10.3	323.0	324.7	0.5	14.3	8.1	84.
14.1	67.6	6624.6	450.0	-14.6	-36.4	236.8	24.2	20.3	13.2	324.9	326.3	0.4	13.6	9.5	80.
15.2	71.0	7054.4	425.0	-18.1	-38.2	232.9	26.0	20.7	15.7	325.8	327.0	0.3	15.2	10.9	76.
16.2	74.4	7503.8	400.0	-22.1	-40.9	232.7	27.8	22.2	16.8	326.3	327.3	0.3	16.1	12.5	73.
17.5	77.9	7975.6	375.0	-25.2	-43.9	237.5	29.1	24.6	15.6	328.3	329.0	0.2	15.5	14.5	70.
18.6	81.6	8473.7	350.0	-28.6	-46.1	239.1	30.8	26.5	15.8	330.2	330.9	0.2	16.6	16.5	69.
19.8	85.3	9001.2	325.0	-31.5	-48.4	238.5	31.8	27.1	16.6	333.3	333.8	0.1	16.9	18.7	68.
21.0	89.2	9564.5	300.0	-33.9	-50.4	237.6	37.3	31.5	20.0	337.6	338.0	0.1	16.9	21.1	67.
22.3	93.3	10170.1	275.0	-37.3	-53.2	234.8	40.8	33.3	23.5	341.1	341.5	0.1	17.1	24.2	65.
23.6	97.7	10824.7	250.0	-39.9	99.9	230.1	39.9	30.6	25.6	346.7	999.9	99.9	999.9	27.4	64.
25.1	102.2	11539.5	225.0	-44.1	99.9	227.6	39.3	29.0	26.5	351.0	999.9	99.9	999.9	30.5	62.
26.5	107.0	12323.6	200.0	-49.0	99.9	232.4	38.9	30.9	23.7	355.2	999.9	99.9	999.9	34.0	61.
28.4	112.2	13189.1	175.0	-53.8	99.9	238.3	34.3	29.2	18.0	361.2	999.9	99.9	999.9	38.2	60.
31.2	117.7	14169.7	150.0	-57.6	99.9	242.2	28.0	24.8	13.1	370.8	999.9	99.9	999.9	43.1	60.
33.7	124.0	15307.4	125.0	-63.2	99.9	235.0	21.9	17.9	12.5	380.6	999.9	99.9	999.9	47.1	60.
37.0	130.7	16690.6	100.0	-58.5	99.9	999.9	99.9	99.9	99.9	414.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

15 JULY 1981
243 GMT

120 88. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.4	954.0	905.3	23.0	12.6	999.9	99.9	99.9	99.9	304.7	332.8	10.2	52.0	999.9	999.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	16.9	1005.4	900.0	23.8	12.2	999.9	99.9	99.9	99.9	306.1	333.8	10.0	48.2	999.9	999.
0.9	19.4	1251.7	875.0	22.6	10.7	999.9	99.9	99.9	99.9	307.3	333.2	9.3	46.9	999.9	999.
1.6	21.9	1503.4	850.0	20.8	9.3	999.9	99.9	99.9	99.9	307.9	332.3	8.7	47.7	999.9	999.
2.2	24.5	1760.9	825.0	18.7	7.6	999.9	99.9	99.9	99.9	308.4	330.9	8.0	48.3	999.9	999.
2.8	27.1	2024.0	800.0	16.4	5.7	999.9	99.9	99.9	99.9	308.6	329.1	7.2	49.2	999.9	999.
3.6	29.6	2293.5	775.0	13.9	4.5	999.9	99.9	99.9	99.9	308.8	328.4	6.9	53.0	999.9	999.
4.4	32.2	2568.9	750.0	11.6	0.9	999.9	99.9	99.9	99.9	309.2	325.1	5.5	47.8	999.9	999.
5.1	35.0	2851.4	725.0	9.5	-3.3	999.9	99.9	99.9	99.9	309.9	322.1	4.1	40.3	999.9	999.
5.8	37.7	3141.4	700.0	7.1	-6.5	999.9	99.9	99.9	99.9	310.3	320.4	3.4	37.1	999.9	999.
6.6	40.4	3439.4	675.0	4.9	-6.8	999.9	99.9	99.9	99.9	311.2	321.4	3.4	42.3	999.9	999.
7.5	43.2	3746.0	650.0	2.4	-7.5	999.9	99.9	99.9	99.9	311.7	321.7	3.4	48.0	999.9	999.
8.3	46.1	4061.6	625.0	-0.3	-8.7	999.9	99.9	99.9	99.9	312.1	321.8	3.2	53.0	999.9	999.
9.1	49.0	4386.7	600.0	-2.8	-13.2	999.9	99.9	99.9	99.9	312.8	320.0	2.3	44.6	999.9	999.
9.9	51.9	4722.3	575.0	-5.8	-22.1	999.9	99.9	99.9	99.9	313.2	316.9	1.1	26.1	999.9	999.
10.8	55.0	5069.5	550.0	-8.8	-29.9	999.9	99.9	99.9	99.9	313.6	315.6	0.6	16.2	999.9	999.
11.8	58.0	5427.0	525.0	-11.1	-39.2	999.9	99.9	99.9	99.9	315.0	315.9	0.2	7.6	999.9	999.
12.7	61.1	5800.4	500.0	-13.2	-42.0	999.9	99.9	99.9	99.9	317.0	317.7	0.2	6.8	999.9	999.
13.8	64.4	6191.0	475.0	-14.8	-45.5	999.9	99.9	99.9	99.9	319.7	320.2	0.1	5.3	999.9	999.
14.9	67.7	6598.0	450.0	-16.4	-44.3	999.9	99.9	99.9	99.9	322.7	323.3	0.2	6.8	999.9	999.
15.9	71.1	7025.8	425.0	-18.9	-44.2	999.9	99.9	99.9	99.9	324.7	325.4	0.2	8.5	999.9	999.
17.0	74.6	7473.8	400.0	-22.5	-47.0	999.9	99.9	99.9	99.9	325.7	326.2	0.1	8.6	999.9	999.
17.9	78.1	7944.9	375.0	-25.5	-49.7	999.9	99.9	99.9	99.9	327.9	328.3	0.1	8.2	999.9	999.
19.1	81.9	8441.8	350.0	-28.8	-52.5	999.9	99.9	99.9	99.9	330.0	330.3	0.1	8.0	999.9	999.
20.4	85.7	8969.5	325.0	-31.5	-55.1	999.9	99.9	99.9	99.9	333.3	333.5	0.1	7.6	999.9	999.
22.0	89.7	9530.6	300.0	-35.6	-56.6	999.9	99.9	99.9	99.9	335.2	335.4	0.1	9.4	999.9	999.
23.4	93.8	10132.5	275.0	-38.9	-58.9	999.9	99.9	99.9	99.9	338.9	339.1	0.0	9.8	999.9	999.
24.6	98.2	10780.4	250.0	-41.6	99.9	999.9	99.9	99.9	99.9	344.3	999.9	99.9	999.9	999.9	999.
26.3	102.7	11493.2	225.0	-44.8	99.9	999.9	99.9	99.9	99.9	349.8	999.9	99.9	999.9	999.9	999.
28.9	107.6	12275.2	200.0	-47.2	99.9	999.9	99.9	99.9	99.9	358.0	999.9	99.9	999.9	999.9	999.
31.2	112.8	13147.2	175.0	-53.1	99.9	999.9	99.9	99.9	99.9	362.3	999.9	99.9	999.9	999.9	999.
33.5	118.5	14127.7	150.0	-59.0	99.9	999.9	99.9	99.9	99.9	368.5	999.9	99.9	999.9	999.9	999.
36.4	124.7	15251.8	125.0	-63.8	99.9	999.9	99.9	99.9	99.9	379.6	999.9	99.9	999.9	999.9	999.
40.3	131.5	16639.0	100.0	-61.1	99.9	999.9	99.9	99.9	99.9	409.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

14 JULY 1981
1748 GMT

114 88. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.3	866.0	917.0	22.8	14.9	300.0	2.0	1.7	-1.0	303.4	335.2	11.7	61.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	14.8	1029.6	900.0	20.3	13.0	317.1	5.7	3.9	-4.2	302.4	331.1	10.6	63.1	0.2	126.
1.2	17.1	1271.2	875.0	17.8	13.0	315.6	4.6	3.2	-3.3	302.3	331.7	10.8	73.1	0.4	132.
1.8	19.3	1519.2	850.0	15.8	13.4	318.2	3.4	2.3	-2.5	302.7	333.8	11.5	85.8	0.5	132.
2.4	21.6	1772.5	825.0	13.5	12.5	332.1	3.2	1.5	-2.8	302.9	333.0	11.1	93.4	0.6	135.
3.2	23.9	2031.6	800.0	11.7	11.1	343.8	3.0	0.8	-2.8	303.6	332.2	10.5	95.9	0.8	140.
3.9	26.3	2297.4	775.0	10.8	0.6	314.3	2.7	2.0	-1.9	305.4	320.2	5.2	49.6	0.9	143.
4.5	28.7	2570.9	750.0	10.8	-0.8	274.2	3.8	3.8	-0.3	308.3	322.3	4.8	44.5	1.0	138.
5.3	31.1	2853.3	725.0	9.4	1.0	248.4	4.5	4.1	1.6	309.8	326.2	5.7	55.5	1.1	128.
6.1	33.6	3144.3	700.0	8.4	-0.9	250.8	6.1	5.8	2.0	311.8	326.9	5.1	51.9	1.2	120.
6.8	36.0	3444.6	675.0	7.8	-11.1	245.5	8.8	8.0	3.7	314.4	321.9	2.4	24.6	1.4	113.
7.7	38.6	3754.2	650.0	5.4	-20.1	238.1	10.9	9.2	5.8	315.1	319.0	1.2	14.1	1.6	97.
8.5	41.1	4073.3	625.0	3.6	-24.8	237.0	11.9	10.0	6.5	316.6	319.3	0.8	10.3	2.3	87.
9.3	43.6	4402.7	600.0	0.8	-27.4	240.8	12.2	10.7	6.0	317.0	319.3	0.7	9.9	2.8	82.
10.2	46.3	4742.5	575.0	-1.8	-29.2	244.4	12.6	11.4	5.5	317.9	319.9	0.6	10.2	3.5	78.
11.1	49.1	5095.4	550.0	-2.8	-29.4	241.3	12.8	11.2	6.1	320.7	322.8	0.6	10.8	4.1	76.
12.1	51.9	5461.6	525.0	-6.1	-31.7	240.2	13.6	11.8	6.8	321.1	322.9	0.5	11.0	4.8	73.
13.1	54.8	5842.6	500.0	-7.1	-33.5	241.4	15.6	13.7	7.5	324.4	326.0	0.4	10.0	5.7	71.
14.1	57.8	6240.0	475.0	-10.4	-35.4	243.9	17.8	16.0	7.8	325.1	326.5	0.4	10.6	6.7	70.
15.1	60.8	6653.4	450.0	-13.7	-37.8	243.5	18.6	16.6	8.3	326.0	327.2	0.3	11.0	7.8	69.
16.2	64.0	7085.3	425.0	-16.7	-40.2	246.8	19.0	17.4	7.5	327.5	328.5	0.3	11.0	9.1	69.
17.4	67.0	7537.4	400.0	-19.9	-42.5	248.7	20.1	18.7	7.3	329.2	330.0	0.2	11.2	10.5	69.
18.5	70.4	8013.5	375.0	-23.3	-45.0	242.6	20.5	18.2	9.4	330.8	331.5	0.2	11.5	11.8	68.
19.7	73.9	8514.9	350.0	-26.8	-47.4	238.8	25.0	21.4	12.9	332.7	333.2	0.1	12.1	13.3	67.
20.9	77.4	9047.3	325.0	-29.2	-49.3	233.2	25.7	20.6	15.4	336.5	337.0	0.1	12.2	15.2	66.
22.3	81.2	9615.8	300.0	-31.4	-51.1	229.3	31.5	23.9	20.6	341.1	341.5	0.1	12.3	17.8	64.
23.8	85.2	10227.0	275.0	-35.4	-54.3	232.0	33.4	26.3	20.6	343.9	344.3	0.1	12.3	20.3	62.
25.3	89.2	10883.3	250.0	-40.2	99.9	232.5	34.2	27.1	20.8	346.3	999.9	99.9	999.9	23.3	61.
27.1	93.3	11593.9	225.0	-45.8	99.9	234.1	31.9	25.8	18.7	348.4	999.9	99.9	999.9	26.9	60.
28.9	98.5	12372.3	200.0	-49.3	99.9	232.1	29.6	23.3	18.2	354.7	999.9	99.9	999.9	30.4	59.
31.2	103.6	13236.5	175.0	-55.1	99.9	233.0	26.6	21.3	16.0	359.0	999.9	99.9	999.9	34.0	58.
33.6	109.2	14217.6	150.0	-58.0	99.9	235.3	21.8	17.9	12.4	370.1	999.9	99.9	999.9	37.6	58.
36.6	115.3	15350.1	125.0	-61.8	99.9	227.8	19.1	13.4	12.1	383.0	999.9	99.9	999.9	40.5	57.
40.2	122.3	16741.5	100.0	-57.5	99.9	999.9	99.9	99.9	99.9	416.6	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

14 JULY 1981
2041 GMT

116 88. 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 PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.5	866.0	915.7	27.7	14.0	15.0	1.0	-0.3	-1.0	308.5	339.3	11.1	43.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	15.9	1018.0	900.0	24.3	13.1	60.0	1.1	-0.9	-0.5	306.5	335.9	10.6	49.8	0.0	162.
1.2	18.2	1203.8	875.0	21.3	12.5	32.0	1.3	-0.7	-1.1	305.9	334.8	10.5	57.4	0.1	201.
2.0	20.5	1514.4	850.0	19.4	12.0	302.2	1.4	1.2	-0.7	306.4	335.1	10.4	62.3	0.1	195.
2.8	22.9	1773.5	825.0	16.8	10.8	280.9	1.8	1.8	-0.3	306.3	333.8	9.9	67.6	0.1	155.
3.5	25.3	2032.5	800.0	14.6	10.6	307.5	2.9	2.3	-1.8	306.7	334.7	10.1	77.3	0.2	145.
4.2	27.7	2300.4	775.0	11.9	9.5	286.3	4.8	4.6	-1.3	306.6	333.6	9.7	85.2	0.4	135.
5.3	30.2	2576.1	750.0	13.1	3.1	268.9	6.8	6.8	0.1	310.8	329.5	6.5	51.3	0.7	112.
6.1	32.5	2960.4	725.0	11.2	-5.5	274.5	8.8	8.8	-0.7	311.7	322.3	3.5	30.7	1.1	105.
7.0	35.0	3151.9	700.0	9.3	-10.2	272.0	10.8	10.8	-0.4	312.7	320.5	2.5	24.1	1.6	101.
7.8	37.5	3451.9	675.0	6.8	-12.8	265.3	11.6	11.6	1.0	313.2	319.8	2.1	23.2	2.1	99.
8.6	40.1	3760.2	650.0	4.5	-15.4	259.9	12.9	12.7	2.3	314.0	319.6	1.8	22.0	2.7	94.
9.4	42.8	4078.0	625.0	1.9	-19.1	257.0	12.8	12.5	2.9	314.6	319.0	1.3	19.2	3.3	91.
10.3	45.4	4406.3	600.0	0.3	-21.8	252.1	11.8	11.2	3.6	316.5	320.1	1.1	17.0	4.0	89.
11.3	48.1	4746.3	575.0	-1.3	-23.3	251.1	12.7	12.0	4.1	318.5	321.9	1.0	16.8	4.7	86.
12.3	51.0	5098.6	550.0	-3.8	-25.0	251.5	14.3	13.5	4.5	319.6	322.6	0.9	17.3	5.4	84.
13.3	53.8	5464.2	525.0	-6.2	-27.0	249.3	15.9	14.9	5.6	321.0	323.7	0.8	17.4	6.3	82.
14.4	56.7	5844.8	500.0	-7.7	-28.5	243.7	17.4	15.6	7.7	323.6	326.1	0.7	16.9	7.3	80.
15.4	59.7	6241.5	475.0	-10.8	-30.9	239.7	20.3	17.5	10.3	324.6	326.7	0.6	17.3	8.4	77.
16.5	62.8	6658.4	450.0	-13.9	-33.5	238.1	21.6	18.3	11.4	325.7	327.5	0.5	17.2	9.8	75.
17.7	66.0	7096.1	425.0	-17.0	-36.1	238.7	22.9	19.6	11.9	327.2	328.7	0.4	17.2	11.3	72.
19.0	69.1	7557.8	400.0	-20.6	-39.0	238.1	23.6	20.1	12.5	328.2	329.4	0.3	17.3	12.9	71.
20.1	72.6	8042.9	375.0	-23.7	-41.1	237.2	23.6	19.8	12.8	330.2	331.2	0.3	18.3	14.6	69.
21.4	76.0	8553.3	350.0	-27.1	-43.9	236.9	26.0	21.8	14.2	332.3	333.1	0.2	18.4	16.5	68.
22.6	79.6	9095.2	325.0	-29.7	-46.1	231.8	28.9	22.7	17.9	335.7	336.4	0.2	18.4	18.3	66.
23.8	83.3	9612.6	300.0	-32.6	-48.3	230.7	33.4	25.9	21.1	339.5	340.1	0.2	18.9	20.6	65.
25.2	87.3	10221.8	275.0	-35.6	-50.8	232.7	35.0	27.8	21.2	343.7	344.2	0.1	19.1	23.5	63.
26.9	91.7	10879.8	250.0	-39.5	99.9	235.1	36.2	29.7	20.7	347.4	999.9	99.9	999.9	26.9	62.
28.4	96.0	11593.3	225.0	-44.2	99.9	229.1	33.7	25.5	22.1	350.8	999.9	99.9	999.9	30.2	61.
30.4	101.1	12372.2	200.0	-49.6	99.9	232.4	29.6	23.5	18.1	354.2	999.9	99.9	999.9	33.9	60.
32.4	106.0	13241.5	175.0	-53.2	99.9	234.8	28.7	23.5	16.5	362.1	999.9	99.9	999.9	37.3	59.
35.2	111.8	14219.9	150.0	-57.7	99.9	240.7	25.1	21.9	12.3	370.7	999.9	99.9	999.9	41.6	59.
37.6	119.3	15359.3	125.0	-63.0	99.9	239.4	21.3	18.4	10.8	381.0	999.9	99.9	999.9	45.1	59.
41.2	125.0	16746.0	100.0	-61.8	99.9	999.9	99.9	99.9	99.9	408.3	999.9	99.9	999.9	46.3	56.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

14 JULY 1981
2340 GMT

113 88. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.0	866.0	914.5	30.2	12.6	340.0	3.0	1.0	-2.8	311.2	339.7	10.1	34.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	15.3	1308.1	900.0	27.2	11.0	999.9	99.9	99.9	99.9	309.6	335.5	9.2	36.3	999.9	999.
1.2	17.5	1556.3	875.0	24.6	10.0	999.9	99.9	99.9	99.9	309.4	334.5	8.9	39.7	999.9	999.
2.0	19.7	1809.4	850.0	22.1	9.6	999.9	99.9	99.9	99.9	309.3	334.3	8.9	45.1	999.9	999.
2.6	22.0	1767.8	825.0	19.8	9.1	999.9	99.9	99.9	99.9	309.5	334.5	8.8	49.9	999.9	999.
3.1	24.4	2032.1	800.0	17.3	7.8	999.9	99.9	99.9	99.9	309.6	333.2	8.4	53.7	999.9	999.
3.6	26.7	2302.4	775.0	14.8	7.0	999.9	99.9	99.9	99.9	309.8	333.0	8.2	59.5	999.9	999.
4.3	29.1	2579.9	750.0	12.1	5.0	999.9	99.9	99.9	99.9	309.7	330.6	7.3	61.6	999.9	999.
5.2	31.6	2862.1	725.0	9.3	4.8	999.9	99.9	99.9	99.9	309.6	331.0	7.5	73.7	999.9	999.
6.1	34.0	3152.2	700.0	7.0	-0.0	999.9	99.9	99.9	99.9	310.2	326.1	5.5	61.0	1.0	143.
7.0	36.4	3450.4	675.0	4.6	-1.0	290.8	10.7	10.6	-2.0	310.8	326.3	5.3	67.2	1.4	131.
7.8	38.9	3757.1	650.0	2.6	-7.1	272.8	14.8	14.7	-0.7	312.0	322.4	3.5	48.7	1.9	121.
8.5	41.4	4074.2	625.0	1.7	-13.9	266.9	18.2	18.2	1.0	314.4	321.0	2.1	30.6	2.6	112.
9.3	44.0	4401.7	600.0	-0.0	-22.5	263.8	18.8	18.7	2.0	316.1	319.5	1.0	16.4	3.4	105.
10.3	46.7	4742.0	575.0	-1.8	-23.1	264.5	18.9	18.8	1.8	317.9	321.3	1.0	17.8	4.5	100.
11.4	49.4	5093.6	550.0	-4.4	-25.6	265.3	20.7	20.6	1.7	318.8	321.7	0.9	17.3	5.7	97.
12.6	52.2	5458.9	525.0	-5.9	-26.9	258.3	20.9	20.4	4.2	321.3	324.0	0.8	17.1	7.2	94.
13.8	55.1	5839.2	500.0	-8.3	-28.9	244.0	19.8	17.8	8.7	322.9	325.3	0.7	17.2	8.6	90.
14.9	58.0	6235.0	475.0	-11.2	-31.1	239.1	21.6	18.5	11.1	324.2	326.2	0.6	17.3	9.8	86.
16.2	61.1	6647.2	450.0	-15.0	-34.1	240.6	21.7	18.9	10.7	324.4	326.1	0.5	17.7	11.4	82.
17.5	64.1	7076.5	425.0	-18.6	-37.1	241.1	23.5	20.6	11.4	325.1	326.4	0.4	17.8	12.9	80.
18.9	67.4	7525.4	400.0	-22.4	-39.8	243.7	26.9	24.1	11.9	325.9	327.0	0.3	18.6	14.9	77.
20.1	70.6	7997.0	375.0	-25.0	-42.0	243.9	25.3	22.7	11.1	328.6	329.5	0.2	18.5	16.8	76.
21.8	74.0	8495.0	350.0	-28.3	-44.6	247.3	31.9	29.4	12.3	330.7	331.4	0.2	19.1	19.7	74.
23.9	77.6	9026.3	325.0	-29.1	-45.1	238.4	34.5	29.4	18.1	336.6	337.4	0.2	19.4	24.0	73.
25.7	81.4	9595.9	300.0	-32.0	-47.8	230.3	38.5	29.7	24.6	340.3	340.9	0.2	18.9	27.3	70.
27.8	85.3	10206.4	275.0	-35.7	-51.0	227.9	33.0	24.5	22.1	343.5	344.0	0.1	19.0	32.2	67.
29.9	89.5	10863.7	250.0	-39.4	99.9	233.2	35.3	28.3	21.1	347.5	999.9	99.9	999.9	35.4	65.
32.1	93.8	11577.1	225.0	-44.4	99.9	233.5	38.5	31.0	22.9	350.5	999.9	99.9	999.9	40.8	64.
34.8	98.6	12357.6	200.0	-48.5	99.9	235.7	29.3	24.2	16.5	356.0	999.9	99.9	999.9	46.1	63.
37.7	103.6	13229.1	175.0	-53.3	99.9	238.6	26.1	22.3	13.6	361.9	999.9	99.9	999.9	51.0	62.
40.9	109.0	14213.7	150.0	-57.5	99.9	241.8	26.1	23.0	12.3	371.0	999.9	99.9	999.9	55.3	62.
43.4	115.2	15348.4	125.0	-64.6	99.9	242.0	28.0	24.7	13.2	378.1	999.9	99.9	999.9	59.9	62.
47.5	122.3	16722.0	100.0	-57.4	99.9	999.9	99.9	99.9	99.9	417.0	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

15 JULY 1981
240 GMT

116 87. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.2	866.0	914.3	24.5	11.1	360.0	0.0	0.0	0.0	305.4	330.7	9.1	43.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	15.5	1033.2	900.0	26.7	12.5	221.3	3.2	2.1	2.4	309.1	337.6	10.2	41.3	0.1	214.
1.1	17.7	1253.0	875.0	24.5	9.4	87.5	3.2	-3.2	-0.1	309.2	333.3	8.5	38.4	0.2	250.
1.9	20.1	1506.1	850.0	22.5	9.1	80.8	2.6	-2.6	-0.4	309.8	334.1	8.6	42.4	0.3	256.
2.7	22.4	1760.9	825.0	20.0	8.2	78.9	3.5	-3.5	-0.7	309.8	333.4	8.3	46.5	0.5	257.
3.5	24.7	2020.4	800.0	17.5	7.1	30.7	2.3	-1.2	-2.0	309.8	332.4	8.0	50.5	0.6	257.
4.3	27.1	2296.5	775.0	14.8	6.3	355.1	2.4	0.2	-2.3	309.8	331.9	7.8	56.6	0.6	250.
5.1	29.5	2576.4	750.0	12.8	5.0	23.7	4.7	-1.9	-4.3	310.5	331.4	7.3	58.9	0.8	241.
6.0	31.9	2860.9	725.0	9.7	3.0	348.9	3.7	0.7	-3.6	310.2	329.1	6.6	62.8	0.9	231.
6.7	34.4	3150.9	700.0	7.9	1.2	308.5	6.9	5.4	-4.3	311.2	328.7	6.0	62.9	1.0	219.
7.6	37.0	3447.3	675.0	6.6	-4.4	289.9	11.6	10.9	-3.9	313.0	325.3	4.1	45.3	1.0	199.
8.4	39.6	3750.8	650.0	5.1	-7.9	275.6	15.1	15.1	-1.5	314.7	324.7	3.3	38.4	1.2	156.
9.4	42.2	4078.5	625.0	2.5	-10.1	264.0	16.8	16.7	1.8	315.3	324.1	2.8	38.7	1.6	127.
10.5	44.9	4436.9	600.0	-0.4	-12.5	258.8	17.8	17.5	3.5	315.7	323.3	2.4	39.5	2.7	110.
11.5	47.6	4796.0	575.0	-3.1	-14.9	255.8	20.1	19.4	4.9	316.4	323.0	2.1	39.5	3.7	100.
12.6	50.4	5196.3	550.0	-6.3	-18.6	256.3	21.4	20.8	5.1	316.6	321.8	1.6	36.9	5.1	93.
13.7	53.3	5657.5	525.0	-9.6	-23.1	258.4	21.6	21.2	4.4	316.9	320.6	1.1	32.6	6.4	90.
14.7	56.2	5932.6	500.0	-12.0	-32.0	258.9	20.7	20.3	4.0	318.4	320.1	0.5	17.1	7.7	88.
15.8	59.2	6323.2	475.0	-14.3	-33.4	256.4	23.6	22.9	5.5	320.3	322.0	0.5	17.8	9.0	86.
16.9	62.3	6632.2	450.0	-15.7	-34.9	252.7	26.6	25.4	7.9	323.5	325.0	0.4	17.3	10.6	85.
18.0	65.5	7360.9	425.0	-18.6	-37.0	251.1	28.8	27.2	9.3	325.1	326.4	0.4	17.9	12.5	83.
19.2	68.8	7510.0	400.0	-21.9	-38.7	248.8	30.4	28.4	11.0	326.5	327.7	0.3	20.0	14.6	81.
20.4	72.1	7982.1	375.0	-24.9	-41.9	245.5	32.2	29.3	13.3	328.7	329.6	0.3	18.6	16.8	79.
21.9	75.7	8480.7	350.0	-28.3	-44.8	243.8	33.9	30.4	14.9	330.6	331.3	0.2	18.8	19.5	77.
23.4	79.2	9010.1	325.0	-30.7	-46.8	244.4	33.7	30.4	14.5	334.4	335.1	0.2	18.8	22.6	75.
25.0	83.0	9575.9	300.0	-33.1	-48.7	241.1	35.6	31.1	17.2	338.8	339.4	0.1	19.0	25.8	74.
26.5	87.0	10183.5	275.0	-36.4	-51.3	239.6	38.7	33.4	19.6	342.5	343.0	0.1	19.4	29.1	72.
28.1	91.2	10842.2	250.0	-38.6	99.9	237.6	38.3	32.4	20.5	348.7	999.9	99.9	999.9	32.8	71.
30.2	95.8	11557.0	225.0	-43.5	99.9	239.6	35.9	31.0	18.2	351.8	999.9	99.9	999.9	37.3	69.
32.6	100.6	12342.7	200.0	-47.8	99.9	238.5	35.3	30.1	18.4	357.2	999.9	99.9	999.9	42.5	68.
34.9	105.8	13213.6	175.0	-53.0	99.9	236.9	27.5	23.1	15.0	362.4	999.9	99.9	999.9	46.9	67.
37.9	111.5	14197.1	150.0	-56.9	99.9	243.7	25.4	22.8	11.2	372.0	999.9	99.9	999.9	51.2	66.
41.1	117.7	15331.0	125.0	-64.3	99.9	244.6	25.9	23.4	11.1	378.5	999.9	99.9	999.9	56.0	66.
44.7	125.0	16719.7	100.0	-60.0	99.9	999.9	99.9	99.9	99.9	411.8	999.9	99.9	999.9	61.3	66.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

23 JULY 1981
1752 GMT

103 156. 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 PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.7	800.0	922.3	25.9	12.4	350.0	11.0	1.9	-10.8	306.1	333.3	9.9	43.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	16.9	1013.4	900.0	20.7	7.4	51.2	6.0	-4.7	-3.8	302.8	322.8	7.2	42.1	0.3	229.
1.1	19.4	1254.6	875.0	19.9	5.3	50.1	6.0	-4.6	-3.8	304.5	322.5	6.4	38.2	0.5	230.
1.7	21.8	1505.8	850.0	18.5	4.7	56.9	5.5	-4.6	-3.0	305.5	323.4	6.3	40.1	0.6	229.
2.3	24.3	1761.1	825.0	16.6	6.0	79.0	4.3	-4.2	-0.8	306.1	326.2	7.1	49.5	0.8	233.
2.9	26.8	2022.6	800.0	15.0	4.8	98.5	3.4	-3.4	0.5	307.2	326.4	6.8	50.4	0.9	238.
3.5	29.4	2290.5	775.0	12.7	3.2	128.1	2.6	-2.1	1.6	307.5	325.3	6.2	52.3	1.0	243.
4.1	32.1	2565.2	750.0	11.3	0.5	186.2	2.7	0.3	2.7	308.9	324.3	5.3	47.2	1.0	248.
4.8	34.7	2847.8	725.0	9.3	1.0	219.7	4.6	2.9	3.5	309.6	326.1	5.7	56.2	0.9	253.
5.6	37.4	3137.7	700.0	6.7	0.1	232.6	5.3	4.2	3.2	310.0	326.0	5.5	62.6	0.7	263.
6.3	40.1	3435.7	675.0	4.9	-2.7	243.8	4.5	4.1	2.0	311.1	324.8	4.7	58.1	0.5	274.
7.4	43.0	3743.0	650.0	1.6	-6.7	227.8	3.2	2.4	2.2	310.8	321.4	3.6	54.2	0.3	295.
8.4	45.8	4056.3	625.0	-1.7	-9.9	217.0	4.0	2.4	3.2	310.5	319.2	2.9	53.7	0.3	335.
9.2	48.7	4379.9	600.0	-4.2	-13.4	215.6	4.9	2.9	4.0	311.3	318.3	2.3	48.4	0.5	358.
9.9	51.6	4714.3	575.0	-6.2	-15.0	225.5	6.7	4.8	4.7	312.7	319.1	2.1	49.4	0.7	9.
10.8	54.6	5059.4	550.0	-8.0	-18.3	238.3	16.0	13.6	8.4	313.4	318.6	1.6	46.9	1.1	26.
11.7	57.6	5418.3	525.0	-12.6	-20.2	246.3	31.5	28.8	12.7	313.3	318.0	1.5	52.8	2.3	46.
12.7	60.8	5788.7	500.0	-15.3	-41.0	262.8	25.8	25.6	3.2	314.4	315.2	0.2	9.8	4.2	59.
13.7	63.9	6174.4	475.0	-17.4	-47.8	270.4	18.0	18.0	-0.1	316.4	316.8	0.1	5.1	5.2	65.
14.6	67.3	6577.3	450.0	-20.5	-48.2	269.5	18.0	18.0	0.2	317.5	317.9	0.1	6.2	6.2	69.
15.5	70.5	6997.5	425.0	-23.9	-50.5	269.3	18.0	17.9	0.2	318.4	318.7	0.1	6.5	7.1	72.
16.6	74.0	7437.0	400.0	-27.1	-52.2	270.2	20.5	20.5	-0.1	319.8	320.1	0.1	7.1	8.3	74.
17.5	77.5	7899.5	375.0	-30.5	-55.3	274.2	22.7	22.6	-1.6	321.3	321.5	0.1	6.7	9.5	77.
18.6	81.2	8385.4	350.0	-34.6	-56.4	276.3	25.8	25.7	-2.8	322.1	322.3	0.0	8.8	11.0	79.
19.7	85.0	8898.6	325.0	-38.8	-59.0	277.4	25.8	25.6	-3.3	323.3	323.4	0.0	9.6	12.6	82.
20.8	89.0	9443.5	300.0	-43.0	99.9	276.4	24.1	23.9	-2.7	324.8	999.9	99.9	999.9	14.2	84.
21.9	93.0	10026.2	275.0	-47.5	99.9	272.8	23.2	23.2	-1.2	326.4	999.9	99.9	999.9	15.7	85.
23.2	97.3	10648.5	250.0	-51.4	99.9	271.6	24.8	24.8	-0.7	329.7	999.9	99.9	999.9	17.5	85.
24.6	101.8	11329.1	225.0	-52.3	99.9	268.8	30.3	30.3	0.6	338.4	999.9	99.9	999.9	19.7	86.
26.3	106.8	12095.6	200.0	-50.1	99.9	267.9	32.7	32.7	1.2	353.5	999.9	99.9	999.9	22.7	86.
27.7	111.8	12966.0	175.0	-51.9	99.9	999.9	99.9	99.9	99.9	364.2	999.9	99.9	999.9	25.7	87.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

23 JULY 1981
1910 GMT

119 92. 0

TME 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	14.4	800.0	921.4	27.4	9.7	80.0	9.0	-8.9	-1.6	307.7	330.9	8.3	33.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	10.5	1006.8	900.0	24.2	8.2	70.2	4.2	-4.0	-1.4	306.4	327.8	7.6	34.1	0.4	242.
1.1	18.9	1252.3	875.0	21.9	6.8	70.5	6.3	-5.9	-2.1	306.6	326.7	7.1	37.6	0.5	244.
1.7	21.3	1503.1	850.0	20.3	6.9	74.1	7.2	-6.9	-2.0	307.4	328.3	7.4	41.8	0.8	247.
2.3	23.8	1760.1	825.0	18.5	7.0	86.0	6.7	-6.7	-0.5	308.2	329.9	7.7	47.0	1.1	249.
3.1	26.3	2023.2	800.0	16.3	6.6	101.1	6.4	-6.3	1.2	308.5	330.2	7.7	52.5	1.3	255.
3.7	28.8	2292.6	775.0	14.3	5.4	141.0	5.8	-3.7	4.5	309.2	329.9	7.3	55.0	1.5	260.
4.5	31.4	2569.1	750.0	12.5	2.9	184.9	6.1	0.5	6.1	310.1	328.4	6.3	52.2	1.6	271.
5.4	34.0	2852.5	725.0	10.1	1.5	204.7	5.7	2.4	5.2	310.6	327.7	5.9	55.0	1.6	282.
6.2	36.7	3143.8	700.0	8.3	0.6	230.6	8.4	6.5	5.3	311.7	328.5	5.7	58.3	1.4	293.
7.0	39.3	3443.7	675.0	6.6	-2.4	232.5	10.5	8.3	6.4	313.0	327.1	4.8	52.9	1.2	312.
7.8	42.1	3752.2	650.0	3.9	-4.1	233.6	12.1	9.7	7.2	313.3	326.3	4.3	55.8	1.3	328.
8.7	44.9	4069.6	625.0	0.8	-5.0	239.8	13.5	11.7	6.8	313.4	326.0	4.2	64.8	1.5	3.
9.5	47.8	4396.3	600.0	-1.7	-7.2	247.2	14.2	13.1	5.5	314.1	325.4	3.7	66.2	2.0	21.
10.4	50.6	4733.6	575.0	-4.3	-12.6	249.0	15.2	14.2	5.4	314.9	322.8	2.5	52.4	2.6	34.
11.3	53.6	5082.7	550.0	-6.7	-14.9	249.4	16.1	15.1	5.7	316.1	323.0	2.2	52.2	3.3	42.
12.2	56.6	5443.6	525.0	-10.4	-17.4	250.1	16.0	15.0	5.4	315.9	321.8	1.9	56.4	4.1	49.
13.1	59.8	5817.0	500.0	-13.5	-25.9	254.2	16.0	15.4	4.4	316.6	319.7	0.9	35.1	4.9	52.
14.1	62.9	6205.5	475.0	-15.8	-38.8	258.1	17.5	17.2	3.6	318.5	319.4	0.3	11.7	5.8	56.
15.0	66.1	6611.2	450.0	-18.6	-41.3	261.2	18.4	18.1	2.8	319.9	320.7	0.2	11.4	6.8	60.
16.1	69.4	7034.9	425.0	-21.8	-43.3	266.1	19.5	19.4	1.3	321.0	321.7	0.2	12.2	7.8	63.
17.2	72.9	7478.5	400.0	-25.0	-46.0	269.0	22.0	22.0	0.4	322.5	323.1	0.1	12.0	9.1	67.
18.3	76.4	7944.5	375.0	-28.6	-48.3	272.3	24.6	24.6	-1.0	323.8	324.2	0.1	12.9	10.6	70.
19.5	80.0	8434.2	350.0	-32.6	-50.4	276.9	26.8	26.6	-3.2	324.8	325.2	0.1	14.8	12.3	74.
20.8	83.9	8952.2	325.0	-36.8	-53.5	278.6	26.4	26.1	-4.0	326.0	326.3	0.1	15.7	14.1	77.
22.0	87.7	9501.5	300.0	-41.1	99.9	277.5	25.0	24.7	-3.3	327.4	999.9	99.9	999.9	16.0	80.
23.3	91.8	10086.5	275.0	-45.9	99.9	273.8	24.3	24.3	-1.6	328.7	999.9	99.9	999.9	17.9	81.
24.8	96.2	10714.8	250.0	-50.2	99.9	272.3	26.6	26.5	-1.0	331.5	999.9	99.9	999.9	20.0	83.
26.2	100.7	11389.6	225.0	-52.1	99.9	269.8	31.2	31.2	0.1	338.7	999.9	99.9	999.9	22.4	84.
27.9	105.6	12166.8	200.0	-50.0	99.9	270.1	34.1	34.1	-0.1	353.6	999.9	99.9	999.9	25.9	84.
30.7	110.8	13039.5	175.0	-50.8	99.9	267.5	28.5	28.4	1.3	366.1	999.9	99.9	999.9	31.1	85.
33.7	116.5	14042.6	150.0	-51.1	99.9	267.5	22.4	22.4	1.0	382.0	999.9	99.9	999.9	35.7	85.
36.8	122.5	15215.9	125.0	-57.0	99.9	262.3	14.3	14.2	1.9	391.8	999.9	99.9	999.9	39.8	86.
40.9	129.7	16624.6	100.0	-59.1	99.9	999.9	99.9	99.9	99.9	413.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* BY SPEED MEANS ELEVATION ANGLE BETWEEN 6 AND 10 DEG
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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 1
MILES CITY, MONTANA

23 JULY 1981
2049 GMT

120 91. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.8	800.0	920.5	29.8	10.4	20.0	8.0	-2.7	-7.5	310.2	334.6	8.6	30.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	16.6	1003.5	900.0	26.3	11.2	999.9	99.9	99.9	99.9	308.6	334.8	9.3	38.8	999.9	999.
0.9	19.1	1250.6	875.0	23.5	9.7	999.9	99.9	99.9	99.9	308.3	332.6	8.7	41.4	999.9	999.
1.5	21.6	1502.8	850.0	20.9	8.3	999.9	99.9	99.9	99.9	308.0	331.0	8.2	44.6	999.9	999.
2.0	24.1	1760.0	825.0	18.7	7.8	999.9	99.9	99.9	99.9	308.4	331.2	8.1	48.9	999.9	999.
2.5	26.7	2023.2	800.0	16.3	6.2	999.9	99.9	99.9	99.9	308.5	329.8	7.5	51.3	999.9	999.
3.2	29.3	2292.5	775.0	14.1	5.2	999.9	99.9	99.9	99.9	309.0	329.4	7.2	54.8	999.9	999.
4.0	31.9	2568.7	750.0	11.9	4.5	999.9	99.9	99.9	99.9	309.5	329.6	7.1	60.3	999.9	999.
4.8	34.7	2851.9	725.0	10.3	5.2	999.9	99.9	99.9	99.9	310.7	332.8	7.7	71.0	999.9	999.
5.7	37.3	3143.5	700.0	8.3	1.5	999.9	99.9	99.9	99.9	311.7	329.5	6.1	62.1	999.9	999.
6.4	40.1	3442.9	675.0	5.8	-0.5	999.9	99.9	99.9	99.9	312.1	328.2	5.5	64.3	999.9	999.
7.3	42.9	3750.9	650.0	3.4	-1.9	999.9	99.9	99.9	99.9	312.8	327.9	5.1	68.1	999.9	999.
8.1	45.8	4067.4	625.0	0.8	99.9	999.9	99.9	99.9	99.9	313.3	999.9	99.9	999.9	999.9	999.
9.0	48.6	4393.4	600.0	-1.7	99.9	999.9	99.9	99.9	99.9	314.1	999.9	99.9	999.9	999.9	999.
9.9	51.6	4730.3	575.0	-4.4	99.9	999.9	99.9	99.9	99.9	314.9	999.9	99.9	999.9	999.9	999.
10.8	54.6	5079.3	550.0	-7.6	99.9	999.9	99.9	99.9	99.9	315.1	999.9	99.9	999.9	999.9	999.
11.7	57.6	5438.0	525.0	-10.3	99.9	999.9	99.9	99.9	99.9	316.0	999.9	99.9	999.9	999.9	999.
12.6	60.8	5811.8	500.0	-12.9	99.9	999.9	99.9	99.9	99.9	317.3	999.9	99.9	999.9	999.9	999.
13.6	64.0	6200.6	475.0	-15.5	99.9	999.9	99.9	99.9	99.9	318.8	999.9	99.9	999.9	999.9	999.
14.5	67.3	6606.9	450.0	-18.0	99.9	999.9	99.9	99.9	99.9	320.6	999.9	99.9	999.9	999.9	999.
15.6	70.6	7032.4	425.0	-20.3	99.9	999.9	99.9	99.9	99.9	322.9	999.9	99.9	999.9	999.9	999.
16.7	74.1	7478.5	400.0	-23.7	99.9	999.9	99.9	99.9	99.9	324.2	999.9	99.9	999.9	999.9	999.
17.9	77.6	7946.7	375.0	-27.6	99.9	999.9	99.9	99.9	99.9	325.1	999.9	99.9	999.9	999.9	999.
19.1	81.3	8438.1	350.0	-32.1	99.9	999.9	99.9	99.9	99.9	325.5	999.9	99.9	999.9	999.9	999.
20.3	85.0	8956.1	325.0	-36.4	99.9	999.9	99.9	99.9	99.9	326.5	999.9	99.9	999.9	999.9	999.
21.5	89.3	9505.7	300.0	-41.2	99.9	999.9	99.9	99.9	99.9	327.3	999.9	99.9	999.9	999.9	999.
22.8	93.0	10091.8	275.0	-45.3	99.9	999.9	99.9	99.9	99.9	329.6	999.9	99.9	999.9	999.9	999.
24.2	97.4	10724.1	250.0	-48.1	99.9	999.9	99.9	99.9	99.9	334.6	999.9	99.9	999.9	999.9	999.
25.7	101.8	11414.4	225.0	-50.5	99.9	999.9	99.9	99.9	99.9	341.1	999.9	99.9	999.9	999.9	999.
27.5	106.8	12194.3	200.0	-49.8	99.9	267.9	33.8	33.8	1.2	354.0	999.9	99.9	999.9	27.8	82.
29.8	111.9	13056.7	175.0	-50.2	99.9	264.8	29.4	29.3	2.7	367.1	999.9	99.9	999.9	32.0	83.
32.6	117.4	14059.4	150.0	-51.6	99.9	261.9	23.4	23.1	3.3	381.2	999.9	99.9	999.9	36.5	82.
35.6	123.5	15238.0	125.0	-55.8	99.9	260.7	16.2	16.0	2.6	393.9	999.9	99.9	999.9	40.0	82.
39.5	130.3	16648.5	100.0	-57.8	99.9	999.9	99.9	99.9	99.9	416.1	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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STATION NO. 1
MILES CITY, MONTANA

23 JULY 1981
2357 GMT

121 91. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.7	800.0	920.5	28.8	10.0	80.0	7.0	-6.9	-1.2	309.2	333.0	8.4	31.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	16.7	999.4	900.0	26.3	8.9	40.4	4.8	-3.1	-3.6	308.6	331.2	8.0	33.3	0.4	294.
1.3	19.2	1246.7	875.0	23.9	7.9	43.1	6.2	-4.2	-4.5	308.6	330.4	7.7	36.0	0.6	242.
2.1	21.9	1499.0	850.0	21.5	7.2	44.0	6.3	-4.4	-4.5	308.7	330.1	7.5	39.5	0.9	235.
2.9	24.4	1758.9	825.0	19.3	6.8	40.7	6.7	-4.4	-5.1	309.0	330.5	7.6	44.1	1.2	232.
3.6	27.0	2020.4	800.0	16.7	6.1	43.9	5.6	-3.9	-4.1	309.0	330.0	7.4	49.4	1.5	229.
4.4	29.6	2290.1	775.0	14.2	4.8	69.4	3.7	-3.4	-1.3	309.1	329.2	7.0	53.2	1.7	230.
5.2	32.2	2566.1	750.0	11.8	4.0	115.9	2.6	-2.4	1.2	309.4	328.9	6.8	58.7	1.8	233.
6.0	34.9	2848.9	725.0	9.5	3.1	204.3	2.9	1.2	2.7	309.9	328.8	6.6	64.1	1.8	236.
6.7	37.6	3140.0	700.0	8.5	-0.7	259.2	6.8	6.7	1.3	311.9	327.3	5.2	52.6	1.6	235.
7.4	40.3	3439.9	675.0	6.6	-8.4	269.0	9.9	9.9	0.2	313.1	322.3	3.0	33.5	1.3	224.
8.2	43.1	3748.6	650.0	4.7	-12.8	270.3	11.0	11.0	-0.1	314.3	321.1	2.2	26.7	1.0	201.
9.1	46.0	4066.5	625.0	1.8	-15.6	271.7	12.5	12.5	-0.8	314.5	320.3	1.8	26.0	0.6	169.
9.9	48.9	4393.9	600.0	-1.3	-18.8	273.1	14.3	14.3	-0.8	314.7	319.3	1.4	24.8	1.3	138.
10.8	51.9	4731.4	575.0	-4.1	-22.5	269.9	15.7	15.7	0.0	315.2	318.8	1.1	22.1	1.9	121.
11.6	54.9	5080.3	550.0	-6.9	-21.0	267.0	17.8	17.8	0.9	315.9	320.1	1.3	31.4	2.6	111.
12.4	58.0	5441.2	525.0	-10.0	-25.0	265.2	20.4	20.3	1.7	316.6	319.6	1.0	28.0	3.5	105.
13.3	61.1	5815.3	500.0	-13.2	-26.5	265.8	21.4	21.4	1.6	317.0	319.9	0.9	31.5	4.7	100.
14.3	64.3	6204.2	475.0	-15.9	-33.1	265.7	21.5	21.4	1.6	318.3	320.0	0.5	21.1	5.8	97.
15.2	67.6	6608.7	450.0	-19.6	-34.3	259.5	21.9	21.5	4.0	318.7	320.2	0.5	25.5	7.1	95.
16.3	71.0	7031.1	425.0	-22.1	-40.0	253.1	23.9	22.8	6.9	320.7	321.6	0.3	17.8	8.4	91.
17.3	74.4	7475.3	400.0	-24.6	-42.4	252.4	25.4	24.2	7.7	323.0	323.8	0.2	17.3	9.9	89.
18.4	78.0	7941.0	375.0	-28.9	-44.4	253.2	26.5	25.3	7.6	323.4	324.1	0.2	20.6	11.5	86.
19.5	81.7	8430.7	350.0	-32.9	-47.9	254.9	29.5	28.5	7.7	324.4	324.9	0.1	20.6	13.3	85.
20.6	85.5	8947.9	325.0	-36.9	-51.5	256.2	32.4	31.5	7.8	325.8	326.2	0.1	20.1	15.5	83.
21.8	89.5	9497.5	300.0	-41.0	99.9	259.1	32.8	32.2	6.2	327.6	999.9	99.9	999.9	17.8	82.
23.1	93.6	10083.9	275.0	-45.1	99.9	264.3	33.8	33.6	3.4	329.9	999.9	99.9	999.9	20.2	82.
24.3	97.8	10714.1	250.0	-49.5	99.9	263.7	34.6	34.4	3.8	332.4	999.9	99.9	999.9	22.5	83.
25.9	102.4	11400.0	225.0	-51.0	99.9	262.8	37.6	37.3	4.7	340.4	999.9	99.9	999.9	26.2	83.
27.9	107.3	12171.4	200.0	-49.2	99.9	266.0	37.3	37.2	2.6	354.9	999.9	99.9	999.9	30.7	83.
30.1	112.5	13044.6	175.0	-51.1	99.9	258.4	31.5	30.9	6.3	365.6	999.9	99.9	999.9	35.4	83.
32.9	118.2	14045.3	150.0	-51.7	99.9	256.2	26.2	25.4	6.3	380.9	999.9	99.9	999.9	39.9	82.
35.5	124.2	15216.3	125.0	-55.5	99.9	266.7	18.7	18.7	1.1	394.6	999.9	99.9	999.9	43.3	82.
39.7	131.3	16636.5	100.0	-56.9	99.9	999.9	99.9	99.9	99.9	417.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

24 JULY 1981
253 GMT

121 95. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.9	900.0	922.7	24.0	7.2	270.0	5.0	5.0	0.0	304.1	323.4	6.9	34.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	17.2	1018.5	900.0	24.4	5.2	286.8	11.6	11.1	-3.3	306.6	324.2	6.2	29.0	0.3	96.
1.1	19.7	1263.9	875.0	21.9	3.5	298.5	11.0	9.7	-5.2	306.6	322.7	5.7	29.9	0.7	104.
1.7	22.3	1514.6	850.0	20.3	3.0	316.7	10.6	7.2	-7.7	307.5	323.5	5.6	31.7	1.0	112.
2.5	24.8	1771.1	825.0	18.0	2.2	328.4	12.3	6.4	-10.4	307.6	323.2	5.4	34.7	1.5	124.
3.2	27.4	2033.4	800.0	16.0	1.9	325.5	12.7	7.2	-10.5	308.2	324.1	5.5	38.4	2.0	131.
3.7	30.0	2301.7	775.0	13.1	0.1	323.3	11.7	7.0	-9.4	308.0	322.4	5.0	40.8	2.4	132.
4.4	32.7	2576.6	750.0	11.1	-1.3	323.5	11.8	7.0	-9.5	308.7	322.2	4.6	41.9	2.8	134.
5.2	35.4	2858.4	725.0	8.4	-2.2	317.8	12.6	8.5	-9.4	308.6	321.8	4.5	47.2	3.4	136.
5.8	38.1	3146.9	700.0	5.8	-2.8	306.5	11.3	9.1	-6.7	308.9	322.0	4.5	54.0	3.9	135.
6.5	40.9	3443.9	675.0	3.9	-3.5	297.0	10.5	9.3	-4.7	310.0	322.9	4.4	58.3	4.2	134.
6.8	43.7	3749.5	650.0	0.9	-4.1	285.9	9.8	9.4	-2.7	310.0	322.9	4.4	69.1	4.5	133.
7.6	46.6	4063.6	625.0	-2.0	-3.3	261.1	9.9	9.8	1.5	310.2	324.3	4.8	91.2	4.8	130.
8.3	49.5	4387.0	600.0	-4.4	-4.7	250.2	14.8	13.9	5.0	311.0	324.3	4.5	97.6	5.1	125.
9.2	52.4	4722.3	575.0	-6.1	-6.5	248.9	19.6	18.3	7.0	312.9	325.1	4.1	97.0	5.7	117.
10.1	55.5	5069.5	550.0	-7.9	-8.3	256.9	24.4	23.8	5.6	314.8	326.1	3.7	96.9	6.6	110.
11.2	58.6	5429.8	525.0	-10.6	-12.7	262.2	30.5	30.2	4.2	315.7	324.2	2.8	84.4	8.1	104.
12.3	61.8	5803.4	500.0	-13.3	-18.5	262.4	32.8	32.5	4.4	316.8	322.5	1.8	65.1	10.2	99.
13.6	65.0	6192.6	475.0	-14.5	-17.5	259.1	29.9	29.3	5.6	320.0	326.5	2.0	77.4	12.6	96.
14.8	68.3	6601.3	450.0	-17.0	-19.5	251.7	23.9	22.7	7.5	321.9	327.8	1.8	80.7	14.5	93.
15.9	71.7	7028.1	425.0	-19.8	-22.5	245.7	21.3	19.4	8.8	323.6	328.5	1.5	79.4	15.7	91.
16.8	75.1	7475.5	400.0	-22.9	-25.8	239.2	21.8	18.7	11.1	325.2	329.1	1.2	77.3	16.9	89.
17.8	78.7	7945.3	375.0	-26.6	-29.8	226.0	18.5	13.3	12.9	326.4	329.4	0.9	73.8	17.9	87.
18.9	82.5	8439.5	350.0	-30.9	-34.5	218.4	17.3	10.8	13.6	327.2	329.2	0.6	69.7	18.7	84.
20.2	86.3	8961.2	325.0	-34.9	-39.1	213.7	18.1	10.0	15.0	328.6	330.0	0.4	65.2	19.6	81.
21.4	90.2	9514.7	300.0	-39.4	99.9	214.8	21.5	12.2	17.6	329.9	999.9	99.9	999.9	20.6	78.
22.8	94.4	10103.7	275.0	-44.7	99.9	218.9	23.1	14.5	18.0	330.6	999.9	99.9	999.9	21.9	75.
24.3	98.9	10734.3	250.0	-49.9	99.9	227.4	31.5	23.2	21.3	331.9	999.9	99.9	999.9	23.6	73.
25.4	103.4	11415.7	225.0	-54.9	99.9	234.3	38.7	31.4	22.5	334.3	999.9	99.9	999.9	26.2	70.
27.0	108.4	12177.7	200.0	-50.2	99.9	251.8	42.7	40.6	13.4	353.3	999.9	99.9	999.9	30.2	69.
28.7	113.6	13049.2	175.0	-51.1	99.9	263.0	37.3	37.1	4.5	365.5	999.9	99.9	999.9	34.5	70.
30.6	119.2	14049.9	150.0	-50.9	99.9	266.4	25.5	25.5	2.1	382.4	999.9	99.9	999.9	38.0	72.
32.6	125.5	15220.1	125.0	-57.8	99.9	270.3	13.5	13.5	-0.1	390.4	999.9	99.9	999.9	40.3	73.
35.5	133.5	16627.0	100.0	-59.5	99.9	999.9	99.9	99.9	99.9	412.8	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

23 JULY 1981
1805 GMT

129 91. 0

TME 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	14.7	803.0	922.0	21.8	10.6	360.0	0.0	0.0	0.0	301.9	325.9	8.8	49.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.	
99.9	99.9	99.9	975.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.	
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.	
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.	
0.5	16.9	1012.6	900.0	21.4	7.2	121.1	7.5	-6.4	3.9	303.6	323.4	7.1	40.0	0.0	253.
1.1	19.4	1256.6	875.0	20.7	5.6	140.0	3.5	-2.2	2.7	305.3	323.8	6.6	37.2	0.3	297.
1.8	21.9	1500.3	850.0	19.3	4.3	252.3	1.8	1.7	0.5	306.3	323.8	6.2	37.3	0.3	303.
2.4	24.5	1762.0	825.0	17.0	2.5	283.4	4.4	4.3	-1.0	306.6	322.5	5.6	37.6	0.2	317.
3.0	27.1	2023.7	800.0	15.8	1.2	292.5	6.7	6.2	-2.6	308.0	323.1	5.2	37.0	0.1	55.
3.7	29.8	2292.2	775.0	13.7	-0.1	299.4	7.4	6.5	-3.6	308.5	322.8	4.9	38.7	0.4	105.
4.6	32.4	2567.5	750.0	11.5	0.1	288.0	7.6	7.2	-2.3	309.0	324.0	5.2	45.5	0.8	110.
5.4	35.2	2849.9	725.0	9.2	-0.4	287.7	9.5	9.1	-2.9	309.5	324.5	5.1	51.1	1.1	108.
6.3	37.9	3139.7	700.0	6.7	-1.2	291.6	10.1	9.4	-3.7	309.9	324.6	5.0	57.3	1.7	110.
7.0	40.8	3437.9	675.0	5.2	-1.9	278.5	11.8	11.7	-1.7	311.5	326.1	5.0	60.2	2.2	109.
7.7	43.6	3745.0	650.0	2.2	-2.5	264.0	14.9	14.8	1.5	311.5	325.9	4.9	70.6	2.7	105.
8.5	46.6	4060.6	625.0	-0.5	-1.8	250.2	17.0	16.0	5.8	311.9	327.7	5.4	90.7	3.4	99.
9.4	49.5	4386.8	600.0	-1.9	-6.0	247.8	18.5	17.1	7.0	313.9	326.1	4.1	73.5	4.2	92.
10.2	52.6	4722.5	575.0	-5.6	-8.6	250.6	18.2	17.1	6.0	313.4	323.9	3.5	79.4	5.1	88.
11.1	55.8	5070.3	550.0	-7.8	-11.1	257.5	19.8	19.3	4.3	314.8	323.9	3.0	77.0	6.0	86.
11.9	59.9	5430.5	525.0	-10.3	-11.5	261.3	20.0	19.7	3.0	316.0	325.3	3.0	90.8	7.0	85.
12.8	62.1	5804.1	500.0	-13.7	-15.5	262.4	19.8	19.6	2.6	316.3	323.5	2.3	86.8	8.1	84.
13.8	65.6	6193.8	475.0	-14.8	-27.1	264.5	17.4	17.3	1.7	319.6	322.5	0.9	34.0	9.2	84.
14.6	69.0	6600.8	450.0	-17.8	-30.1	267.5	17.0	16.9	0.7	320.9	323.2	0.7	32.9	10.0	84.
15.6	72.6	7025.7	425.0	-21.4	-32.4	267.0	18.1	18.1	1.0	321.6	323.6	0.6	36.0	11.0	85.
16.5	76.2	7469.8	400.0	-24.9	-36.2	266.4	18.7	18.7	1.2	322.6	324.2	0.4	35.2	12.2	85.
17.7	80.0	7936.6	375.0	-27.5	-31.4	263.8	15.5	15.4	1.7	325.1	327.7	0.7	69.5	13.3	85.
18.8	84.0	8429.9	350.0	-30.7	-35.2	255.2	10.1	9.8	2.6	327.7	329.3	0.5	64.3	14.2	85.
19.9	88.2	8951.7	325.0	-35.0	-39.7	248.6	7.7	7.1	2.8	328.4	329.8	0.4	61.7	14.7	84.
21.0	92.3	9504.9	300.0	-39.5	99.9	245.1	8.3	7.5	3.5	329.7	999.9	99.9	999.9	15.2	84.
22.1	96.8	10093.2	275.0	-45.1	99.9	254.0	9.7	9.3	2.7	329.9	999.9	99.9	999.9	15.7	83.
23.2	101.6	10722.6	250.0	-50.4	99.9	266.0	16.9	16.9	1.2	331.1	999.9	99.9	999.9	16.6	83.
24.4	106.6	11404.0	225.0	-53.7	99.9	270.8	25.0	25.0	-0.3	336.2	999.9	99.9	999.9	18.1	84.
26.0	112.0	12170.5	200.0	-48.2	99.9	269.2	28.2	28.2	0.4	356.5	999.9	99.9	999.9	20.7	84.
28.1	117.7	13049.4	175.0	-49.1	99.9	268.1	27.0	27.0	0.9	368.9	999.9	99.9	999.9	24.3	85.
30.7	124.2	14060.6	150.0	-49.9	99.9	264.7	21.2	21.1	2.0	384.1	999.9	99.9	999.9	28.0	85.
33.4	131.2	15239.6	125.0	-54.3	99.9	269.2	20.4	20.4	0.3	396.7	999.9	99.9	999.9	31.4	85.
36.6	139.0	16664.7	100.0	-55.5	99.9	999.9	99.9	99.9	99.9	420.5	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

23 JULY 1981
1920 GMT

121 93. 0

TME 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	13.7	803.0	921.9	22.9	11.6	360.0	0.0	0.0	0.0	303.0	328.7	9.4	49.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	15.7	1012.5	900.0	21.5	9.8	356.2	0.3	0.0	-0.3	303.7	327.1	8.5	47.1	0.1	8.
1.2	18.1	1256.0	875.0	19.7	4.8	336.3	1.8	0.7	-1.6	304.2	321.6	6.2	37.6	0.0	13.
1.9	20.5	1505.1	850.0	18.2	4.4	322.8	5.6	3.4	-4.4	305.3	322.8	6.2	39.9	0.1	117.
2.5	22.8	1760.1	825.0	16.5	3.3	321.9	8.1	5.0	-6.4	306.1	322.8	5.9	41.1	0.4	138.
3.2	25.3	2021.3	800.0	14.9	1.8	312.0	8.5	6.3	-5.7	307.1	322.8	5.5	41.1	0.7	136.
3.9	27.8	2289.3	775.0	12.8	1.1	303.8	10.0	8.3	-5.6	307.6	323.1	5.4	44.8	1.1	134.
4.7	30.3	2563.7	750.0	10.5	0.3	293.6	10.9	9.9	-4.3	308.0	323.1	5.2	49.0	1.6	130.
5.4	32.9	2845.2	725.0	8.5	-0.5	279.4	10.4	10.3	-1.7	308.8	323.6	5.1	52.9	2.0	125.
6.1	35.5	3134.5	700.0	6.2	-1.3	262.3	9.4	9.3	1.3	309.4	323.9	5.0	58.4	2.4	119.
7.0	38.2	3431.6	675.0	3.8	-1.8	239.3	10.6	9.1	5.4	309.9	324.4	5.0	66.6	2.7	112.
7.8	40.9	3737.7	650.0	2.0	0.5	228.6	15.0	11.3	9.9	311.2	329.0	6.1	90.1	3.1	102.
8.7	43.7	4054.0	625.0	0.1	-3.3	228.9	19.7	14.8	12.9	312.6	326.8	4.8	77.5	3.7	93.
9.5	46.4	4380.0	600.0	-2.5	-5.2	234.9	21.3	17.4	12.2	313.3	326.2	4.3	81.5	4.6	82.
10.3	49.3	4716.4	575.0	-5.4	-7.7	244.3	23.2	20.9	10.1	313.7	324.9	3.7	83.6	5.6	78.
11.1	52.3	5063.9	550.0	-8.0	-12.7	251.4	23.1	21.9	7.4	314.7	322.7	2.6	68.3	6.7	76.
12.0	55.3	5423.7	525.0	-10.9	-15.8	258.4	22.1	21.7	4.4	315.3	321.9	2.1	67.2	7.9	76.
13.0	58.4	5796.5	500.0	-13.8	-20.4	263.7	20.5	20.4	2.2	316.2	321.0	1.5	57.5	9.2	77.
13.9	61.6	6184.3	475.0	-16.6	-23.6	266.4	20.5	20.5	1.3	317.4	321.3	1.2	54.6	10.3	78.
14.8	64.8	6588.9	450.0	-19.2	-43.9	266.7	21.2	21.2	1.2	319.1	319.7	0.2	9.2	11.4	79.
15.8	68.1	7012.1	425.0	-21.7	-49.3	262.5	21.5	21.3	2.8	321.2	321.6	0.1	6.2	12.6	79.
16.9	71.5	7456.9	400.0	-24.7	-47.4	262.9	21.1	21.0	2.6	322.8	323.3	0.1	10.5	14.1	79.
18.0	75.2	7923.8	375.0	-27.6	-32.0	262.5	19.5	19.3	2.5	325.0	327.4	0.7	66.0	15.4	80.
19.1	78.9	8415.5	350.0	-31.1	-36.2	259.0	17.5	17.1	3.3	326.9	328.6	0.5	60.4	16.6	80.
20.2	82.8	8936.2	325.0	-35.5	-40.7	260.9	17.7	17.5	2.8	327.8	329.0	0.3	58.4	17.8	80.
21.3	86.9	9488.4	300.0	-40.1	99.9	266.1	18.4	18.3	1.3	328.9	999.9	99.9	999.9	18.9	80.
22.2	91.0	10074.5	275.0	-45.8	99.9	272.1	18.1	18.1	-0.7	328.9	999.9	99.9	999.9	19.9	81.
23.5	95.5	10703.8	250.0	-49.8	99.9	270.5	20.5	20.5	-0.2	332.0	999.9	99.9	999.9	21.4	81.
24.9	100.2	11386.6	225.0	-53.6	99.9	267.3	25.9	25.8	1.2	336.4	999.9	99.9	999.9	23.2	82.
26.3	105.4	12151.6	200.0	-49.3	99.9	265.2	27.7	27.6	2.3	354.8	999.9	99.9	999.9	25.6	82.
28.6	110.8	13026.5	175.0	-49.6	99.9	268.8	27.8	27.8	0.6	368.0	999.9	99.9	999.9	29.5	83.
31.3	116.7	14031.6	150.0	-51.2	99.9	268.5	21.1	21.1	0.6	381.8	999.9	99.9	999.9	33.4	84.
34.1	123.3	15219.9	125.0	-54.4	99.9	262.2	18.6	18.4	2.5	396.5	999.9	99.9	999.9	36.8	84.
37.8	130.7	16628.7	100.0	-57.0	99.9	999.9	99.9	99.9	99.9	417.6	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 2
GLENDIVE, MONTANA

23 JULY 1981
2043 GMT

120 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.3	803.0	921.2	28.2	11.3	360.0	0.0	0.0	0.0	308.5	334.3	9.2	35.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	16.2	1007.1	900.0	23.1	8.6	275.1	1.5	1.5	-0.1	305.4	327.2	7.8	39.5	0.0	159.
1.2	18.5	1251.8	875.0	20.9	8.2	338.4	2.2	0.8	-2.0	305.5	327.4	7.9	44.3	0.1	114.
2.0	20.9	1501.7	850.0	18.8	6.7	38.0	3.3	-2.1	-2.6	305.9	326.4	7.3	45.2	0.2	162.
2.7	23.3	1757.1	825.0	16.6	5.1	6.3	4.0	-0.4	-4.0	306.1	325.1	6.7	46.5	0.3	199.
3.4	25.7	2019.1	800.0	16.4	2.0	324.1	8.0	4.7	-6.4	308.6	324.6	5.5	37.7	0.5	176.
4.3	28.2	2288.1	775.0	13.9	0.7	304.4	10.8	8.9	-6.1	308.7	323.8	5.2	40.6	0.9	155.
5.1	30.7	2563.5	750.0	11.5	0.7	291.2	10.1	9.4	-3.7	309.0	324.6	5.4	47.4	1.4	140.
5.9	33.2	2845.6	725.0	8.9	0.1	276.7	8.4	8.4	-1.0	309.2	324.7	5.3	54.2	1.8	132.
6.5	35.8	3135.0	700.0	6.2	-0.3	259.0	7.3	7.2	1.4	309.3	324.8	5.3	63.0	2.0	126.
7.3	38.4	3433.5	675.0	4.3	1.4	236.5	7.5	6.2	4.1	310.5	326.7	6.3	81.3	2.2	119.
8.1	41.1	3739.7	650.0	2.8	0.4	228.2	9.9	7.4	6.6	312.2	329.8	6.1	83.8	2.4	109.
9.1	43.9	4056.4	625.0	0.4	-2.4	239.8	15.2	13.2	7.7	312.9	328.0	5.1	81.6	2.8	98.
9.9	46.7	4382.9	600.0	-2.6	-3.8	247.3	19.0	17.5	7.3	313.1	327.4	4.8	91.5	3.6	92.
10.7	49.4	4719.2	575.0	-5.7	-7.3	249.1	17.5	16.3	6.2	313.4	324.9	3.9	88.1	4.4	86.
11.6	52.4	5066.5	550.0	-8.0	-14.4	252.2	18.1	17.2	5.5	314.6	321.7	2.3	60.0	5.3	83.
12.6	55.4	5426.3	525.0	-11.1	-19.2	253.4	21.6	20.7	6.2	315.1	320.1	1.6	51.0	6.6	81.
13.6	58.4	5798.7	500.0	-14.1	-31.9	256.4	23.8	23.1	5.6	315.8	317.9	0.6	24.1	7.9	80.
14.6	61.5	6186.7	475.0	-16.0	-40.5	257.5	22.0	21.5	4.8	318.2	319.1	0.2	10.0	9.3	80.
15.7	64.8	6592.1	450.0	-18.5	-43.4	258.6	21.9	21.4	4.3	320.0	320.7	0.2	9.1	10.7	79.
16.8	68.0	7015.6	425.0	-21.5	-44.6	257.5	21.5	21.0	4.7	321.4	322.0	0.2	10.3	12.1	79.
18.0	71.5	7460.2	400.0	-24.2	-46.9	259.0	24.0	23.5	4.6	323.5	324.0	0.1	10.1	13.7	79.
19.2	75.0	7927.4	375.0	-27.7	-49.0	263.6	25.1	25.0	2.8	324.9	325.3	0.1	11.0	15.5	79.
20.4	78.7	8419.3	350.0	-31.3	-51.9	268.5	26.6	26.6	0.7	326.5	326.8	0.1	11.1	17.3	80.
21.4	82.5	8940.2	325.0	-35.7	-54.1	271.8	27.1	27.0	-0.9	327.5	327.8	0.1	12.9	19.1	81.
22.6	86.5	9491.4	300.0	-40.6	99.9	274.5	23.7	23.7	-1.9	328.2	999.9	99.9	999.9	20.9	82.
23.9	90.7	10078.3	275.0	-45.0	99.9	273.1	22.6	22.6	-1.2	330.0	999.9	99.9	999.9	22.4	83.
25.1	95.0	10709.4	250.0	-48.8	99.9	268.5	24.8	24.8	0.6	333.5	999.9	99.9	999.9	24.2	84.
26.6	99.8	11396.2	225.0	-52.3	99.9	266.5	26.1	26.1	1.6	338.4	999.9	99.9	999.9	26.6	84.
28.1	104.8	12159.3	200.0	-50.2	99.9	263.8	26.3	26.2	2.8	353.4	999.9	99.9	999.9	29.8	84.
30.4	110.2	13037.8	175.0	-48.1	99.9	264.6	28.0	27.9	2.6	370.4	999.9	99.9	999.9	32.6	84.
33.0	116.2	14046.8	150.0	-50.2	99.9	266.0	23.8	23.7	1.7	383.5	999.9	99.9	999.9	36.7	84.
35.9	122.7	15224.7	125.0	-55.3	99.9	260.4	22.9	22.6	3.8	395.0	999.9	99.9	999.9	40.8	84.
39.3	130.0	16640.9	100.0	-57.3	99.9	270.9	14.7	14.7	-0.2	417.0	999.9	99.9	999.9	44.5	84.
99.9	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.
99.9	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.
99.9	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.

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STATION NO. 2
GLENDIVE, MONTANA

23 JULY 1981
2341 GMT

123 89. 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 PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.4	803.0	919.5	28.7	9.4	35.0	3.0	-1.7	-2.5	309.2	332.1	8.1	30.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	16.2	992.1	900.0	25.4	6.7	35.0	3.7	-2.1	-3.0	307.7	327.3	6.9	30.3	0.1	142.
1.2	18.6	1238.6	875.0	23.2	7.2	7.9	7.1	-1.0	-7.1	307.9	328.7	7.3	35.7	0.2	178.
1.8	21.0	1490.1	850.0	20.6	4.9	0.5	6.6	-0.1	-6.6	307.8	326.1	6.4	35.6	0.6	180.
2.4	23.5	1746.8	825.0	17.8	4.3	354.1	6.2	0.6	-6.2	307.4	325.4	6.3	40.7	0.8	180.
3.0	26.0	2009.2	800.0	16.2	0.7	332.5	6.2	2.9	-5.5	308.5	323.1	5.1	34.9	1.0	178.
3.7	28.5	2279.0	775.0	14.6	0.6	305.5	6.4	5.2	-3.7	309.6	324.6	5.2	38.2	1.2	169.
4.3	31.0	2554.9	750.0	11.9	1.0	289.8	5.4	5.1	-1.8	309.6	325.5	5.5	47.0	1.4	161.
5.1	33.7	2837.8	725.0	9.5	1.7	283.9	4.2	4.2	0.4	309.9	327.2	6.0	58.0	1.5	154.
5.8	36.2	3128.3	700.0	7.4	4.5	283.7	6.0	5.4	2.7	310.6	332.3	7.6	81.9	1.5	147.
6.5	39.0	3427.5	675.0	6.0	2.4	281.1	8.5	8.1	2.8	312.3	331.9	6.8	77.6	1.6	135.
7.2	41.7	3735.9	650.0	3.5	-0.5	283.0	10.9	10.8	1.3	313.0	329.7	5.7	74.8	1.9	124.
8.0	44.4	4053.1	625.0	0.5	-2.4	259.6	12.8	12.6	2.3	313.0	328.2	5.2	81.2	2.3	116.
8.7	47.3	4379.4	600.0	-2.2	-9.0	253.7	14.7	14.1	4.1	313.6	323.4	3.2	59.4	2.8	108.
9.5	50.2	4716.1	575.0	-4.9	-12.6	252.3	15.4	14.7	4.7	314.3	322.1	2.5	56.8	3.4	101.
10.4	53.2	5064.0	550.0	-7.7	-18.3	255.7	16.1	15.6	4.0	314.9	320.5	1.8	45.8	4.1	95.
11.2	56.3	5424.3	525.0	-9.8	-39.5	260.1	17.8	17.6	3.1	316.6	317.5	0.2	6.7	5.0	92.
12.0	59.3	5798.2	500.0	-13.4	-43.5	262.1	19.3	19.2	2.7	316.8	317.3	0.2	5.8	5.8	91.
12.8	62.5	6187.1	475.0	-15.4	-46.2	261.0	20.1	19.8	3.2	319.0	319.5	0.1	5.2	6.8	90.
13.6	65.7	6593.1	450.0	-18.7	-45.5	255.9	21.1	20.5	5.1	319.8	320.3	0.1	7.3	7.8	88.
14.6	69.0	7017.3	425.0	-20.7	-50.9	252.4	22.2	21.2	6.7	322.5	322.8	0.1	4.7	9.0	86.
15.6	72.5	7463.4	400.0	-23.9	-51.4	253.2	26.0	24.9	7.5	324.0	324.3	0.1	5.9	10.2	84.
16.6	76.0	7931.1	375.0	-28.2	-51.2	255.2	27.9	27.0	7.1	324.2	324.6	0.1	8.9	12.0	83.
17.6	79.9	8422.2	350.0	-32.0	-53.3	257.1	28.8	28.0	6.4	325.6	325.9	0.1	9.9	13.8	82.
18.6	83.7	8941.5	325.0	-36.0	-55.8	258.1	28.6	28.0	5.9	327.1	327.3	0.1	10.9	15.5	81.
19.7	87.7	9492.4	300.0	-40.2	99.9	261.5	30.1	29.8	4.5	328.7	999.9	99.9	999.9	17.3	81.
20.8	91.8	10079.8	275.0	-44.5	99.9	263.4	28.6	28.4	3.3	330.8	999.9	99.9	999.9	19.2	81.
22.1	96.3	10712.8	250.0	-48.8	99.9	265.3	29.1	29.0	2.4	333.6	999.9	99.9	999.9	21.4	82.
23.3	101.0	11400.4	225.0	-50.4	99.9	261.7	26.1	25.8	3.8	341.3	999.9	99.9	999.9	23.6	82.
24.9	106.2	12173.6	200.0	-48.5	99.9	261.5	28.2	27.9	4.1	356.0	999.9	99.9	999.9	25.9	82.
26.6	111.6	13056.0	175.0	-48.4	99.9	262.1	30.0	29.7	4.1	370.1	999.9	99.9	999.9	29.0	82.
28.6	117.7	14064.5	150.0	-50.6	99.9	263.6	26.3	26.1	3.0	382.9	999.9	99.9	999.9	32.5	82.
31.1	124.5	15241.1	125.0	-54.1	99.9	261.0	19.9	19.6	3.1	397.0	999.9	99.9	999.9	36.0	82.
34.7	132.3	16668.7	100.0	-56.9	99.9	999.9	99.9	99.9	99.9	417.8	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

24 JULY 1981
242 GMT

124 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.4	903.0	919.5	19.7	12.0	360.0	0.0	0.0	0.0	300.0	326.0	9.6	61.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	16.3	990.0	900.1	24.7	-34.9	283.2	5.1	5.0	-1.2	307.0	307.7	0.2	1.0	0.1	87.
1.1	18.8	1234.9	875.0	22.5	-36.2	314.9	4.2	3.0	-3.0	307.2	307.9	0.2	1.0	0.2	87.
1.9	21.3	1485.2	850.0	20.4	-37.5	357.5	3.3	0.1	-3.3	307.5	308.1	0.2	1.0	0.2	110.
2.5	23.8	1740.9	825.0	18.0	-19.0	354.8	4.7	0.4	-4.7	307.7	311.3	1.2	7.4	0.4	130.
3.3	26.3	2002.6	800.0	15.6	-7.6	344.5	5.6	1.5	-5.3	307.8	315.9	2.7	19.6	0.6	145.
4.0	28.9	2270.5	775.0	13.2	-4.7	337.4	5.9	2.3	-5.5	308.0	318.3	3.5	28.5	0.9	148.
4.8	31.5	2545.3	750.0	11.7	-13.7	330.9	7.4	3.6	-6.4	309.2	314.7	1.9	15.4	1.2	151.
5.6	34.2	2827.2	725.0	9.4	-12.3	310.8	8.9	6.7	-5.8	309.7	316.0	2.0	20.2	1.6	149.
6.4	37.0	3116.6	700.0	6.7	-6.5	291.0	10.1	9.4	-3.6	309.9	319.9	3.4	38.3	2.0	142.
7.2	39.7	3414.3	675.0	4.2	-3.2	281.6	10.6	10.4	-2.1	310.3	323.5	4.5	58.6	2.4	135.
7.9	42.4	3720.2	650.0	1.6	-3.6	279.9	10.0	9.9	-1.7	310.8	324.2	4.5	68.3	2.8	129.
8.7	45.3	4035.2	625.0	-0.7	-9.4	277.0	9.3	9.2	-1.1	311.6	320.7	3.0	51.9	3.2	125.
9.5	48.2	4359.8	600.0	-3.6	-9.0	270.8	10.5	10.5	-0.1	312.0	321.7	3.2	65.8	3.6	121.
10.4	51.2	4694.7	575.0	-6.3	-9.6	264.6	11.4	11.4	1.1	312.6	322.3	3.2	77.2	4.1	117.
11.3	54.1	5041.2	550.0	-8.7	-13.0	260.7	9.8	9.7	1.6	313.8	321.7	2.6	71.0	4.6	112.
12.3	57.3	5402.7	525.0	-10.7	-19.7	275.8	11.2	11.2	-1.1	315.6	320.4	1.5	47.4	5.1	109.
13.3	60.5	5774.4	500.0	-12.7	-41.7	285.1	15.1	14.6	-3.9	317.6	319.2	0.5	17.1	5.9	109.
14.4	63.7	6164.3	475.0	-14.8	-59.3	284.9	20.0	19.3	-5.1	319.7	319.8	0.0	1.0	7.0	108.
15.4	67.3	6571.0	450.0	-17.8	-61.2	280.7	23.2	22.8	-4.3	320.8	320.9	0.0	1.0	8.4	107.
16.3	70.4	6995.9	425.0	-21.3	-63.5	275.9	24.7	24.6	-2.6	321.8	321.8	0.0	1.0	9.7	106.
17.4	74.0	7439.3	400.0	-25.3	-66.1	276.6	24.9	24.8	-2.9	322.1	322.1	0.0	1.0	11.2	105.
18.5	77.7	7905.0	375.0	-28.0	-36.6	280.7	27.2	26.8	-5.0	324.5	326.1	0.4	43.9	12.9	104.
19.5	81.5	8398.1	350.0	-31.0	-39.8	274.2	29.1	29.1	-2.1	327.0	328.3	0.3	41.0	14.8	103.
20.8	85.5	8920.0	325.0	-34.6	-45.6	261.8	26.8	26.6	3.8	329.0	329.7	0.2	31.2	16.7	101.
21.7	89.7	9474.3	300.0	-39.3	99.9	259.7	28.2	27.7	5.0	330.0	999.9	99.9	999.9	18.2	100.
22.8	94.0	10064.3	275.0	-43.6	99.9	252.0	28.5	27.1	8.8	332.0	999.9	99.9	999.9	19.9	98.
24.0	98.6	10697.6	250.0	-49.2	99.9	246.7	33.5	30.8	13.3	333.0	999.9	99.9	999.9	21.8	94.
25.4	103.4	11382.0	225.0	-51.6	99.9	249.4	38.8	36.4	13.7	339.5	999.9	99.9	999.9	24.5	92.
26.7	108.6	12150.1	200.0	-49.5	99.9	255.2	37.8	36.5	9.7	356.0	999.9	99.9	999.9	27.6	89.
28.8	114.2	13031.8	175.0	-48.9	99.9	263.2	31.1	30.9	3.7	369.3	999.9	99.9	999.9	31.6	88.
31.1	120.2	14034.3	150.0	-52.6	99.9	264.1	26.7	26.6	2.7	379.4	999.9	99.9	999.9	35.4	88.
33.9	127.0	15200.8	125.0	-55.1	99.9	268.8	24.6	24.6	0.5	395.3	999.9	99.9	999.9	40.1	87.
37.6	134.7	16623.3	100.0	-58.0	99.9	999.9	99.9	99.9	99.9	415.6	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 3
BAKER, MONTANA

23 JULY 1981
2000 GMT

100 186. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.9	903.0	910.6	27.4	11.4	45.0	6.0	-4.2	-4.2	308.7	335.0	9.4	37.3	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	17.0	1105.7	900.0	24.0	8.3	999.9	99.9	99.9	99.9	306.2	327.7	7.7	36.8	999.9	999.
0.9	19.7	1351.3	875.0	22.0	8.3	999.9	99.9	99.9	99.9	306.7	328.9	7.9	41.5	999.9	999.
1.6	22.3	1592.1	850.0	19.7	7.6	999.9	99.9	99.9	99.9	306.7	328.5	7.8	45.7	999.9	999.
2.2	25.0	1758.0	825.0	17.0	6.6	999.9	99.9	99.9	99.9	306.6	327.6	7.5	50.3	999.9	999.
2.8	27.7	2019.9	800.0	15.0	4.9	999.9	99.9	99.9	99.9	307.2	326.5	6.8	50.6	999.9	999.
3.3	30.3	2258.7	775.0	14.0	4.0	999.9	99.9	99.9	99.9	308.9	327.8	6.6	51.0	999.9	999.
4.0	33.1	2544.5	750.0	11.9	1.8	999.9	99.9	99.9	99.9	309.5	326.4	5.8	49.9	999.9	999.
4.8	35.9	2787.6	725.0	10.5	0.4	999.9	99.9	99.9	99.9	310.9	326.8	5.4	49.6	999.9	999.
5.6	38.7	3139.3	700.0	8.7	1.6	999.9	99.9	99.9	99.9	312.1	330.0	6.2	60.8	999.9	999.
6.3	41.3	3379.7	675.0	7.0	-0.5	999.9	99.9	99.9	99.9	313.5	329.6	5.5	58.7	1.1	352.
7.1	44.3	3749.9	650.0	4.6	-3.0	236.7	14.6	12.2	8.0	314.1	328.2	4.7	57.9	1.5	14.
7.9	47.1	4007.0	625.0	1.8	-5.7	240.3	16.9	14.7	8.4	314.5	326.5	4.0	57.4	2.1	30.
8.7	50.1	4394.6	600.0	-1.2	-8.4	246.8	17.1	15.7	6.7	314.7	325.1	3.4	58.0	2.9	39.
9.6	53.3	4732.6	575.0	-4.2	-11.2	257.1	16.3	15.9	3.6	315.1	323.8	2.8	58.0	3.6	46.
10.4	56.4	5081.8	550.0	-6.7	-15.0	263.0	18.3	18.2	2.2	316.1	322.9	2.2	51.7	4.3	53.
11.3	59.7	5443.1	525.0	-9.6	-16.6	266.8	19.8	19.8	1.1	316.9	323.2	2.0	56.6	5.3	59.
12.2	63.2	5817.7	500.0	-13.2	-16.9	266.7	21.9	21.8	1.3	316.9	323.4	2.0	73.9	6.2	64.
13.2	66.3	6206.1	475.0	-16.0	-40.8	267.2	22.2	22.2	1.1	318.2	319.0	0.2	9.6	7.5	68.
14.2	69.7	6612.1	450.0	-17.8	-43.0	268.2	20.7	20.7	0.6	320.9	321.6	0.2	8.9	8.7	71.
15.3	73.1	7037.3	425.0	-20.3	-45.5	273.7	23.7	23.7	-1.5	323.0	323.5	0.1	8.4	10.1	73.
16.4	76.8	7483.9	400.0	-23.4	-47.8	279.9	25.7	25.3	-4.4	324.6	325.1	0.1	8.5	11.7	77.
17.7	80.6	7953.9	375.0	-26.9	-49.0	283.5	25.1	24.4	-5.9	326.0	326.4	0.1	10.2	13.2	80.
19.0	84.3	8446.5	350.0	-30.8	-51.5	288.2	24.9	23.7	-7.8	327.2	327.6	0.1	10.9	15.0	83.
20.2	88.3	8967.2	325.0	-35.7	-54.0	283.8	24.3	23.6	-5.8	327.5	327.8	0.1	13.1	16.8	86.
21.7	92.5	9518.9	300.0	-39.9	99.9	278.8	22.8	22.6	-3.5	329.1	999.9	99.9	999.9	18.9	88.
23.7	96.8	10108.2	275.0	-44.3	99.9	272.6	23.7	23.6	-1.1	331.1	999.9	99.9	999.9	21.0	88.
24.8	101.4	10734.9	250.0	-48.8	99.9	273.6	26.0	26.0	-1.6	333.5	999.9	99.9	999.9	23.3	89.
26.3	106.0	11426.6	225.0	-51.8	99.9	272.0	30.3	30.3	-1.0	339.1	999.9	99.9	999.9	25.7	89.
28.6	111.0	12193.2	200.0	-49.8	99.9	999.9	99.9	99.9	99.9	353.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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STATION NO. 3
BAKER, MONTANA

23 JULY 1981
2121 GMT

122 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.6	903.0	910.0	29.8	9.9	10.0	1.0	-0.2	-1.0	311.2	335.3	8.4	29.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.7	1301.1	900.0	27.6	8.7	254.1	5.8	5.5	1.6	309.9	332.4	7.9	33.6	0.7	248.
0.6	20.2	1748.8	875.0	24.2	7.0	266.3	3.9	3.9	0.3	308.9	329.5	7.2	33.3	0.6	248.
1.2	22.9	1501.4	850.0	21.7	5.8	12.7	2.2	-0.5	-2.2	308.8	328.3	6.8	35.6	0.5	245.
1.6	25.6	1759.2	825.0	19.6	6.5	60.9	5.2	-4.5	-2.5	309.3	330.4	7.4	42.6	0.7	243.
2.0	28.2	2023.1	800.0	17.0	5.9	70.1	5.9	-5.6	-2.0	309.2	330.1	7.3	48.0	0.8	244.
2.6	30.9	2292.8	775.0	14.7	4.6	96.4	4.8	-4.8	0.5	309.7	329.4	6.9	50.7	1.0	246.
3.4	33.7	2569.6	750.0	12.8	4.1	162.7	5.7	-1.7	5.5	310.4	330.2	6.9	55.5	1.1	256.
4.0	36.4	2853.6	725.0	10.7	2.6	194.8	7.5	1.9	7.2	311.2	329.6	6.4	57.2	1.1	269.
4.8	39.3	3145.3	700.0	7.6	1.8	217.8	8.7	5.3	6.9	310.9	329.0	6.3	66.7	1.0	288.
5.5	42.1	3444.6	675.0	6.6	0.0	229.2	9.4	7.1	6.1	313.0	329.7	5.7	62.9	0.8	315.
6.2	45.0	3753.4	650.0	4.4	-2.7	236.5	11.2	9.3	6.2	314.0	328.3	4.8	59.7	0.9	340.
7.1	48.0	4072.3	625.0	2.1	-6.3	259.7	17.1	16.8	3.0	314.8	326.4	3.8	54.0	1.2	18.
7.9	51.0	4400.4	600.0	-0.5	-7.8	273.4	18.8	18.8	-1.1	315.5	326.3	3.5	57.7	1.7	51.
8.7	54.0	4738.5	575.0	-3.7	-13.2	266.1	17.8	17.8	1.2	315.7	323.2	2.4	47.3	2.4	64.
9.5	57.1	5088.1	550.0	-6.8	-15.8	262.7	17.3	17.1	2.2	316.0	322.4	2.0	48.5	3.3	69.
10.5	60.3	5449.7	525.0	-9.6	-19.3	265.4	17.4	17.3	1.4	316.9	321.9	1.6	45.0	4.2	72.
11.4	63.6	5825.1	500.0	-11.2	-37.5	269.2	20.9	20.9	0.3	319.4	320.5	0.3	9.2	5.2	75.
12.3	66.9	6216.6	475.0	-13.7	-39.5	273.2	21.9	21.8	-1.2	321.1	322.0	0.3	9.1	6.4	78.
13.3	70.3	6625.5	450.0	-16.4	-42.7	276.4	22.2	22.0	-2.5	322.7	323.4	0.2	8.2	7.6	81.
14.4	73.9	7052.9	425.0	-19.3	-43.8	273.2	24.2	24.2	-1.4	324.3	325.0	0.2	9.2	9.1	83.
15.4	77.4	7501.1	400.0	-22.9	-46.1	273.5	24.9	24.8	-1.5	325.2	325.8	0.1	9.8	10.6	85.
16.5	81.2	7970.2	375.0	-27.4	-46.9	274.4	25.9	25.9	-2.0	325.4	325.9	0.1	13.5	12.3	86.
17.7	85.0	8463.5	350.0	-30.8	-50.7	272.3	29.1	29.1	-1.2	327.3	327.6	0.1	12.0	14.2	87.
18.9	89.0	8985.2	325.0	-35.2	-53.3	272.5	26.0	26.0	-1.1	328.2	328.5	0.1	13.5	16.3	88.
20.2	93.0	9535.9	300.0	-39.5	-55.8	272.0	24.4	24.4	-0.8	329.7	330.0	0.1	15.4	18.1	88.
21.5	97.5	10125.7	275.0	-44.5	99.9	268.6	26.5	26.5	0.7	330.8	999.9	99.9	999.9	20.2	88.
22.9	102.0	10757.8	250.0	-48.4	99.9	267.7	30.6	30.6	1.2	334.2	999.9	99.9	999.9	22.5	88.
24.5	106.6	11447.2	225.0	-50.9	99.9	265.4	35.9	35.8	2.9	340.6	999.9	99.9	999.9	25.9	88.
26.3	111.6	12214.2	200.0	-50.8	99.9	269.1	41.3	41.3	0.7	352.4	999.9	99.9	999.9	31.2	88.
29.3	116.9	13142.4	175.0	-52.1	99.9	272.5	34.5	34.5	-1.5	363.9	999.9	99.9	999.9	36.9	88.
32.6	122.5	14253.9	150.0	-50.8	99.9	275.1	27.4	27.3	-2.4	382.5	999.9	99.9	999.9	42.9	89.
35.5	128.2	15281.1	125.0	-55.4	99.9	271.9	18.0	18.0	-0.6	394.8	999.9	99.9	999.9	46.6	90.
39.2	134.7	16684.1	100.0	-57.4	99.9	999.9	99.9	99.9	99.9	416.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

23 JULY 1981
2340 GMT

119 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.4	903.0	909.3	29.0	8.1	50.0	3.0	-2.3	-1.9	310.5	331.9	7.5	27.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.3	994.2	900.0	27.5	4.8	94.6	6.2	-6.1	0.5	309.9	327.2	6.9	23.4	0.3	277.
0.8	19.8	1242.0	875.0	24.7	4.3	94.7	6.3	-6.3	0.5	309.5	326.6	6.0	26.7	0.4	276.
1.5	22.2	1495.0	850.0	22.3	4.5	96.7	6.5	-6.4	0.8	309.5	327.4	6.2	31.3	0.6	276.
2.2	24.8	1753.1	825.0	20.0	4.2	97.9	6.7	-6.6	0.9	309.8	327.8	6.3	35.1	0.9	276.
2.9	27.3	2017.4	800.0	17.6	4.4	91.9	6.6	-6.6	0.2	310.0	328.8	6.6	41.4	1.2	277.
3.5	29.9	2287.7	775.0	15.1	4.2	76.5	6.0	-5.8	-1.4	310.1	329.4	6.7	48.0	1.4	275.
4.3	32.5	2564.4	750.0	12.3	3.5	75.5	5.2	-5.0	-1.3	310.0	328.9	6.6	54.8	1.6	272.
4.6	35.2	2847.6	725.0	9.9	3.0	90.7	4.9	-4.9	0.1	310.3	329.2	6.6	62.0	1.8	271.
5.3	37.8	3139.6	700.0	7.6	1.2	167.0	4.0	-0.9	3.9	310.9	328.3	6.0	64.0	2.0	272.
6.1	40.6	3438.1	675.0	6.5	0.8	238.9	6.5	5.6	3.4	312.9	330.5	6.0	67.0	1.8	278.
6.9	43.3	3747.0	650.0	3.7	-0.7	253.5	10.0	9.6	2.8	313.2	329.6	5.6	72.6	1.5	283.
7.5	46.1	4064.9	625.0	1.4	-1.2	254.8	13.4	12.9	3.5	314.1	330.7	5.6	82.6	1.1	296.
8.3	49.0	4392.5	600.0	-1.1	-7.4	255.9	15.4	15.0	3.8	314.8	325.9	3.7	62.3	0.7	334.
9.0	52.0	4730.2	575.0	-4.5	-8.5	263.6	19.7	19.6	2.2	314.7	325.3	3.5	73.6	0.9	23.
10.1	55.0	5078.9	550.0	-7.5	-14.4	268.7	23.2	23.1	0.5	315.2	322.3	2.3	57.9	2.0	66.
10.9	58.0	5440.6	525.0	-8.7	-41.9	266.9	23.1	23.1	1.2	318.0	318.6	0.2	4.8	3.1	73.
11.8	61.1	5816.3	500.0	-12.0	-42.6	271.7	23.0	23.0	-0.7	318.4	319.0	0.2	5.7	4.4	78.
12.9	64.3	6207.3	475.0	-14.4	-42.9	270.4	23.6	23.6	-0.2	320.2	320.8	0.2	6.7	5.8	82.
14.0	67.6	6615.0	450.0	-16.5	-45.5	267.9	22.9	22.9	0.8	322.5	323.1	0.1	6.0	7.4	83.
15.2	71.0	7042.4	425.0	-19.7	-47.8	266.0	24.1	24.0	1.7	323.7	324.2	0.1	6.1	9.2	84.
16.3	74.4	7489.7	400.0	-23.4	-48.3	266.3	25.1	25.0	1.6	324.6	325.1	0.1	8.0	10.7	84.
17.5	77.9	7958.1	375.0	-27.2	-51.0	266.3	25.8	25.8	1.7	325.7	326.0	0.1	8.2	12.6	84.
18.9	81.6	8451.0	350.0	-31.5	-52.0	266.9	27.3	27.3	1.5	326.3	326.6	0.1	11.1	14.7	85.
20.2	85.3	8970.9	325.0	-35.5	-53.3	265.9	27.6	27.5	2.0	327.8	328.1	0.1	13.9	16.9	85.
21.7	89.2	9522.1	300.0	-40.1	99.9	265.1	29.0	28.9	2.5	328.9	999.9	99.9	999.9	19.3	85.
23.1	93.3	10111.3	275.0	-43.9	99.9	266.7	32.4	32.4	1.9	331.7	999.9	99.9	999.9	22.0	85.
25.0	97.8	10745.7	250.0	-47.7	99.9	266.4	35.0	34.9	2.2	335.1	999.9	99.9	999.9	25.7	85.
27.0	102.4	11417.0	225.0	-49.8	99.9	267.1	40.9	40.8	2.1	342.1	999.9	99.9	999.9	30.2	86.
29.1	107.4	12211.4	200.0	-48.6	99.9	268.9	40.4	40.4	0.8	355.8	999.9	99.9	999.9	35.7	86.
31.8	113.6	13095.4	175.0	-51.2	99.9	260.9	34.6	34.2	5.5	365.5	999.9	99.9	999.9	41.6	86.
34.7	118.2	14085.8	150.0	-52.1	99.9	258.2	26.3	25.8	5.4	380.4	999.9	99.9	999.9	47.1	85.
37.9	124.7	15259.4	125.0	-55.5	99.9	266.5	20.4	20.4	1.2	394.6	999.9	99.9	999.9	51.6	84.
42.0	131.7	16666.8	100.0	-59.4	99.9	999.9	99.9	99.9	99.9	412.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

24 JULY 1981
240 GMT

123 94. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.9	903.0	909.2	21.9	10.1	10.0	2.0	-0.3	-2.0	303.2	326.8	8.6	47.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.9	991.4	900.0	22.2	6.4	31.0	9.4	-4.9	-8.1	304.4	323.3	6.7	36.0	0.2	209.
0.8	20.5	1236.6	875.0	22.4	4.9	31.9	9.0	-4.8	-7.6	307.0	324.8	6.2	32.1	0.5	210.
1.4	23.2	1487.4	850.0	20.3	4.0	37.1	7.5	-4.5	-6.0	307.5	324.6	6.0	34.0	0.8	211.
2.1	25.9	1743.5	825.0	17.0	2.6	47.3	6.6	-4.9	-4.5	306.6	322.6	5.6	37.9	1.1	213.
2.8	28.6	2005.1	800.0	15.1	1.9	56.6	6.6	-5.5	-3.6	307.2	323.0	5.5	40.9	1.3	217.
3.4	31.2	2272.9	775.0	12.5	1.7	67.7	6.6	-6.1	-2.5	307.3	323.3	5.6	47.5	1.6	221.
4.1	34.0	2547.0	750.0	10.2	1.7	86.0	6.3	-6.3	-0.4	307.6	324.2	5.8	55.8	1.8	226.
4.8	36.8	2828.0	725.0	7.2	1.7	98.4	4.7	-4.7	0.7	307.4	324.5	6.0	68.1	2.0	232.
5.6	39.7	3116.2	700.0	5.1	-0.1	163.7	1.7	-0.5	1.6	308.1	323.8	5.4	69.1	2.1	235.
6.4	42.6	3413.1	675.0	3.9	-2.0	289.6	2.3	2.2	-0.8	310.1	324.4	4.9	65.2	2.1	234.
7.1	45.4	3719.6	650.0	1.9	-2.6	298.3	5.0	4.4	-2.4	311.1	325.5	4.9	72.0	2.0	231.
7.9	48.4	4034.8	625.0	-1.4	-5.2	306.8	7.9	6.3	-4.7	310.9	323.2	4.2	75.5	1.9	222.
8.6	51.4	4358.9	600.0	-4.0	-8.2	307.6	10.5	8.3	-6.4	311.6	321.9	3.4	72.1	2.0	210.
9.5	54.6	4693.7	575.0	-6.2	-14.0	297.3	12.7	11.3	-5.8	312.8	319.8	2.3	53.8	2.1	195.
10.3	57.9	5040.1	550.0	-8.7	-17.1	282.8	14.8	14.5	-3.3	313.8	319.5	1.8	50.4	2.3	179.
11.3	61.0	5399.3	525.0	-11.4	-12.7	266.4	16.6	16.6	1.1	314.8	323.2	2.8	90.3	2.6	164.
12.4	64.3	5772.9	500.0	-13.5	-15.1	255.4	19.3	18.6	4.9	316.6	324.0	2.4	87.5	3.1	153.
13.5	67.6	6161.3	475.0	-16.1	-19.8	248.2	22.8	21.2	8.5	318.0	323.4	1.7	73.4	3.6	145.
14.5	71.0	6565.7	450.0	-19.4	-27.0	244.3	24.0	21.6	10.4	318.9	321.9	0.9	50.9	5.0	139.
15.7	74.6	6988.3	425.0	-22.2	-28.8	245.7	23.4	21.4	9.6	320.5	323.3	0.8	54.7	6.4	93.
16.8	78.1	7431.7	400.0	-25.3	-30.4	253.9	23.9	23.0	6.7	322.1	324.7	0.8	62.2	7.9	88.
17.8	82.0	7897.2	375.0	-28.7	-33.3	263.7	22.4	22.3	2.4	323.6	325.7	0.6	64.0	9.3	87.
18.8	85.9	8387.5	350.0	-32.4	-35.1	275.2	18.9	18.8	-1.7	325.1	327.0	0.5	76.8	10.5	87.
19.8	90.0	8904.2	325.0	-37.4	-39.6	280.0	15.4	15.2	-2.7	325.2	326.5	0.4	79.6	11.5	88.
20.9	94.0	9452.5	300.0	-41.0	99.9	274.7	16.6	16.5	-1.4	327.5	999.9	99.9	999.9	12.4	89.
22.1	98.4	10039.6	275.0	-44.2	99.9	267.5	24.5	24.5	1.1	331.3	999.9	99.9	999.9	14.0	89.
23.4	103.0	10672.1	250.0	-48.8	99.9	259.3	33.5	32.9	6.2	333.6	999.9	99.9	999.9	16.2	88.
24.7	107.8	11362.5	225.0	-49.3	99.9	259.7	36.2	35.6	6.5	343.0	999.9	99.9	999.9	19.0	87.
26.3	113.8	12132.2	200.0	-50.4	99.9	267.8	39.4	39.4	1.5	352.9	999.9	99.9	999.9	22.6	86.
28.1	118.2	12993.9	175.0	-54.0	99.9	270.8	31.8	31.8	-0.5	360.8	999.9	99.9	999.9	26.6	87.
30.4	123.8	13978.7	150.0	-57.0	99.9	270.5	24.2	24.2	-0.2	371.8	999.9	99.9	999.9	30.3	87.
33.4	129.8	15135.0	125.0	-58.6	99.9	266.5	18.3	18.3	1.1	389.0	999.9	99.9	999.9	34.0	87.
37.4	136.2	16535.9	100.0	-59.4	99.9	999.9	99.9	99.9	99.9	413.0	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

23 JULY 1981
2040 GMT

121 89. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.7	954.0	905.0	27.5	8.9	360.0	4.0	0.0	-4.0	309.4	331.9	7.9	31.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	15.2	1003.1	900.0	28.1	10.0	52.2	9.8	-7.8	-6.0	310.5	335.0	8.6	32.3	0.2	232.
0.7	17.2	1250.0	875.0	22.4	6.4	52.6	9.8	-7.8	-5.9	307.1	326.7	6.9	35.3	0.4	232.
1.5	19.3	1501.2	850.0	20.0	6.4	53.7	9.3	-7.5	-5.5	307.1	327.2	7.1	41.1	0.8	233.
2.2	21.4	1757.4	825.0	17.5	5.9	62.4	8.0	-7.1	-3.7	307.1	327.1	7.1	46.7	1.2	233.
3.0	23.5	2019.4	800.0	15.2	5.1	86.8	6.5	-6.5	-0.4	307.4	327.0	6.9	51.0	1.5	237.
3.8	25.8	2288.0	775.0	14.4	4.6	134.5	6.5	-4.6	4.5	309.3	329.1	6.9	51.8	1.5	244.
4.6	28.1	2560.3	750.0	12.8	4.3	183.8	8.2	0.5	8.2	310.5	330.5	7.0	56.1	1.7	269.
5.4	30.5	2840.6	725.0	10.7	3.6	209.5	9.4	4.6	8.2	311.2	331.0	6.9	61.7	1.6	289.
6.1	32.8	3140.3	700.0	8.9	0.8	229.3	11.9	9.0	7.7	312.3	329.3	5.8	56.8	1.2	284.
6.9	35.3	3442.7	675.0	6.8	-2.2	241.6	12.6	11.1	6.0	313.3	327.6	4.8	52.7	1.0	309.
7.5	37.8	3749.6	650.0	4.0	-4.2	250.2	11.2	10.6	3.8	313.5	326.4	4.3	55.0	0.9	336.
8.4	40.3	4067.1	625.0	1.0	-5.8	244.1	12.0	10.8	5.2	313.6	325.5	4.0	60.6	1.0	10.
9.2	42.9	4393.9	600.0	-1.5	-7.8	241.6	17.5	15.4	8.3	314.4	325.1	3.6	62.2	1.5	28.
10.1	45.7	4731.4	575.0	-4.3	-14.4	250.5	23.2	21.8	7.7	315.0	321.9	2.2	45.3	2.6	45.
11.0	48.4	5080.3	550.0	-6.6	-16.6	250.5	21.4	20.1	7.1	316.2	322.2	1.9	44.8	3.8	54.
12.0	51.3	5441.4	525.0	-9.9	-26.2	250.4	20.2	19.1	6.8	316.5	319.8	1.0	29.2	4.9	58.
13.0	54.3	5816.4	500.0	-11.7	-45.1	256.7	20.8	20.2	4.8	318.8	319.3	0.1	4.3	6.1	61.
13.9	57.4	6207.1	475.0	-14.5	-45.1	260.7	22.1	21.8	3.6	320.0	320.6	0.1	5.4	7.2	64.
14.8	60.5	6614.8	450.0	-17.1	-47.9	262.9	23.1	22.9	2.8	321.8	322.2	0.1	4.9	8.4	67.
15.0	63.9	7041.5	425.0	-19.5	-49.2	267.5	24.5	24.4	1.1	324.0	324.4	0.1	5.1	9.9	69.
17.1	67.3	7488.7	400.0	-23.4	-50.3	269.5	25.9	25.9	0.2	324.6	325.0	0.1	6.3	11.5	72.
18.3	70.9	7957.1	375.0	-27.4	-51.7	270.0	26.2	26.2	0.0	325.3	325.7	0.1	7.8	13.3	75.
19.4	74.7	8449.8	350.0	-31.6	-53.5	270.9	26.0	26.0	-0.4	326.1	326.4	0.1	9.3	15.0	77.
20.6	78.6	8969.6	325.0	-35.9	-56.5	268.5	25.0	25.0	0.7	327.2	327.4	0.1	9.8	16.8	78.
21.8	82.7	9520.5	300.0	-40.2	99.9	266.5	23.6	23.6	1.4	328.7	999.9	99.9	999.9	18.6	79.
23.2	87.2	10108.3	275.0	-44.2	99.9	265.6	25.4	25.3	2.0	331.3	999.9	99.9	999.9	20.5	80.
24.6	91.8	10742.5	250.0	-47.7	99.9	263.2	29.3	29.0	3.5	335.2	999.9	99.9	999.9	22.9	80.
26.4	96.8	11432.8	225.0	-51.0	99.9	263.4	35.0	34.7	4.0	340.3	999.9	99.9	999.9	26.3	80.
28.5	102.3	12202.2	200.0	-49.8	99.9	267.9	39.1	39.1	1.4	353.9	999.9	99.9	999.9	31.0	81.
31.0	108.3	13074.0	175.0	-51.3	99.9	264.9	34.6	34.5	3.1	365.2	999.9	99.9	999.9	36.5	82.
34.1	114.7	14072.9	150.0	-52.1	99.9	263.0	26.7	26.5	3.2	380.3	999.9	99.9	999.9	42.2	82.
37.1	122.0	15249.7	125.0	-55.7	99.9	268.5	17.3	17.3	0.5	394.1	999.9	99.9	999.9	46.2	83.
41.0	130.0	16669.5	100.0	-56.7	99.9	999.9	99.9	99.9	99.9	418.1	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

23 JULY 1981
2340 GMT

95 176. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.1	954.0	904.3	28.1	7.4	360.0	3.0	0.0	-3.0	310.1	330.5	7.2	27.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
3.1	16.5	996.3	900.0	27.4	7.6	212.5	6.4	3.4	5.4	309.8	330.6	7.3	28.6	0.1	301.
0.8	19.0	1244.0	875.0	24.5	6.6	40.5	9.2	-6.0	-7.0	309.2	329.2	7.0	31.8	0.4	228.
1.4	21.5	1496.7	850.0	21.9	5.9	44.2	7.2	-5.0	-5.1	309.0	328.7	6.9	35.5	0.7	224.
2.2	24.0	1754.5	825.0	19.4	5.3	63.8	6.5	-5.8	-2.9	309.1	328.5	6.8	39.6	1.0	226.
2.9	26.5	2019.2	800.0	16.9	4.8	81.7	5.9	-5.9	-0.9	309.1	328.4	6.8	44.7	1.3	233.
3.7	29.1	2287.8	775.0	14.4	4.1	96.2	5.8	-5.8	0.6	309.3	328.3	6.7	50.2	1.5	238.
4.5	31.7	2563.7	750.0	11.7	3.5	119.7	5.4	-4.7	2.7	309.2	328.1	6.6	57.3	1.7	245.
5.3	34.3	2847.2	725.0	10.4	4.1	178.6	5.2	-0.1	5.2	310.9	331.3	7.1	64.8	1.8	252.
6.1	37.0	3138.7	700.0	8.6	3.1	233.6	8.4	6.7	5.0	312.0	331.9	6.9	68.3	1.8	259.
6.8	39.7	3439.0	675.0	6.5	-0.5	237.0	11.3	9.5	6.2	312.9	329.0	5.5	60.7	1.1	265.
7.4	42.4	3747.8	650.0	4.0	-3.0	229.6	11.3	8.6	7.3	313.5	327.6	4.7	60.2	0.8	281.
8.1	45.0	4066.5	625.0	1.4	-4.4	224.9	11.3	8.0	8.0	314.1	327.4	4.4	65.2	0.6	319.
8.9	47.9	4393.2	600.0	-1.0	-8.7	231.9	12.8	10.1	7.9	314.9	325.0	3.3	55.8	0.9	356.
9.7	50.8	4731.3	575.0	-3.6	-20.7	250.8	17.1	16.2	5.6	315.8	320.1	1.3	26.0	1.3	25.
10.5	53.8	5080.9	550.0	-6.0	-32.7	262.2	24.6	24.4	3.4	317.0	318.5	0.4	9.8	2.1	49.
11.5	56.7	5441.4	525.0	-8.6	-33.5	269.0	26.2	26.2	0.5	318.0	319.5	0.4	11.2	3.5	64.
12.5	59.8	5819.2	500.0	-11.7	-35.7	271.2	23.1	23.0	-0.5	318.7	320.0	0.4	11.5	4.9	72.
13.6	62.9	6209.5	475.0	-15.1	-37.0	265.3	20.9	20.8	1.7	319.3	320.5	0.3	13.3	6.2	76.
14.8	66.1	6615.8	450.0	-17.8	-39.7	260.8	21.7	21.4	3.5	320.9	321.8	0.3	12.6	7.8	77.
16.1	69.4	7041.6	425.0	-20.1	-41.9	260.6	24.1	23.7	3.9	323.2	324.0	0.2	12.1	9.5	78.
17.2	72.9	7487.5	400.0	-24.1	-43.4	260.3	25.3	25.0	4.3	323.7	324.4	0.2	14.7	11.3	78.
18.4	76.3	7954.7	375.0	-28.2	-46.7	260.4	25.0	24.6	4.2	324.3	324.9	0.1	14.8	13.0	79.
19.6	80.0	8445.7	350.0	-32.1	-49.3	262.4	27.0	26.8	3.6	325.5	326.0	0.1	16.0	14.8	79.
21.7	83.7	8964.6	325.0	-36.4	-52.0	262.3	28.9	28.7	3.9	326.5	326.9	0.1	18.0	16.8	79.
21.8	87.5	9515.2	300.0	-40.4	99.9	260.3	30.6	30.1	5.1	328.4	999.9	99.9	999.9	18.7	80.
23.1	91.5	10102.9	275.0	-44.6	99.9	261.6	32.7	32.3	4.8	330.6	999.9	99.9	999.9	21.1	80.
24.6	95.8	10735.8	250.0	-48.0	99.9	261.9	37.7	37.3	5.3	334.7	999.9	99.9	999.9	24.3	80.
26.3	100.3	11426.4	225.0	-50.3	99.9	261.2	39.9	39.4	6.1	341.5	999.9	99.9	999.9	28.3	80.
28.4	105.2	12197.9	200.0	-49.2	99.9	999.9	99.9	99.9	99.9	354.9	999.9	99.9	999.9	33.4	81.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

24 JULY 1981
230 GMT

110 121. 0

TME 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	16.3	954.0	904.3	24.7	12.6	360.0	5.0	0.0	-5.0	306.6	334.9	10.2	47.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	16.8	995.8	900.0	24.4	10.6	122.5	10.9	-9.2	5.8	306.7	331.8	9.0	41.9	0.2	246.
0.6	19.2	1241.8	875.0	22.6	8.4	11.8	13.3	-2.7	-13.1	307.3	329.6	8.0	40.2	0.4	193.
1.2	21.7	1493.4	850.0	20.9	7.1	12.0	12.2	-2.5	-11.9	309.1	329.2	7.5	40.7	0.9	192.
1.9	24.2	1750.7	825.0	18.8	5.9	15.5	10.8	-2.9	-10.4	308.5	328.7	7.1	42.7	1.3	192.
2.6	26.7	2013.9	800.0	16.4	5.2	26.7	9.1	-4.1	-8.2	308.7	328.5	7.0	47.3	1.7	194.
3.4	29.3	2283.4	775.0	14.0	4.2	42.0	8.2	-5.5	-6.1	308.9	328.0	6.7	51.5	2.1	198.
4.2	31.9	2559.2	750.0	12.4	2.2	15.0	6.8	-1.8	-6.6	310.0	327.4	6.0	49.8	2.5	202.
5.1	34.6	2842.7	725.0	9.7	0.3	340.2	9.5	3.2	-8.9	310.1	325.8	5.4	52.0	2.8	198.
6.2	37.2	3132.9	700.0	7.1	-0.8	335.8	10.4	4.3	-9.5	310.3	325.4	5.2	57.2	3.4	189.
7.1	39.9	3430.9	675.0	4.4	-0.6	332.1	9.4	4.4	-8.3	310.6	326.5	5.5	70.0	3.6	185.
7.7	42.7	3737.2	650.0	1.6	0.0	321.2	8.9	5.6	-7.0	310.8	328.0	5.9	89.4	4.1	182.
8.5	45.5	4052.3	625.0	-1.0	-5.2	302.7	9.4	7.9	-5.1	311.3	323.7	4.2	73.5	4.4	178.
9.3	48.4	4377.2	600.0	-3.2	-9.5	284.9	9.2	8.9	-2.4	312.4	321.8	3.1	61.6	4.6	173.
10.3	51.3	4713.0	575.0	-5.6	-11.0	271.7	11.1	11.1	-0.3	313.5	322.2	2.9	65.3	4.8	166.
11.2	54.3	5060.2	550.0	-8.4	-11.2	260.4	12.7	12.5	2.1	314.2	323.3	3.0	80.3	4.9	159.
12.2	57.3	5420.3	525.0	-11.6	-11.5	243.8	13.9	12.5	6.2	315.7	325.9	3.0	93.1	5.0	150.
13.3	60.4	5794.7	500.0	-12.5	-13.5	231.8	18.2	14.3	11.2	317.8	326.2	2.7	92.3	5.1	137.
14.8	63.6	6184.7	475.0	-15.5	-16.6	231.5	22.2	17.4	13.8	318.8	325.8	2.2	90.8	5.5	118.
16.3	66.9	6591.3	450.0	-18.0	-19.4	234.7	24.1	19.7	13.9	320.6	326.5	1.8	88.9	6.6	101.
17.7	70.3	7016.1	425.0	-21.0	-22.7	240.7	24.4	21.3	11.9	322.0	326.8	1.4	86.5	8.2	91.
19.2	73.7	7461.5	400.0	-24.1	-26.0	245.6	22.3	20.3	9.2	323.7	327.6	1.1	83.8	10.1	86.
20.4	77.3	7929.1	375.0	-27.8	-29.9	259.1	20.8	20.4	3.9	324.8	327.7	0.8	82.0	11.6	84.
21.5	80.9	8420.9	350.0	-31.8	-34.3	272.0	18.4	18.3	-0.7	325.9	328.0	0.6	78.5	12.9	84.
22.7	84.7	8943.2	325.0	-35.9	-38.7	276.2	16.3	16.2	-1.7	327.2	328.7	0.4	74.9	14.1	85.
24.0	89.7	9492.2	300.0	-39.7	99.9	273.3	17.4	17.4	-1.0	329.4	999.9	99.9	999.9	15.4	86.
25.4	92.8	10081.2	275.0	-44.2	99.9	263.6	20.5	20.3	2.3	331.2	999.9	99.9	999.9	16.9	86.
26.8	97.2	10713.0	250.0	-49.4	99.9	259.2	30.4	29.9	5.7	332.7	999.9	99.9	999.9	19.0	86.
28.2	101.9	11396.0	225.0	-53.3	99.9	257.5	41.7	40.7	9.0	336.8	999.9	99.9	999.9	22.1	84.
29.9	106.8	12129.3	200.0	-46.7	99.9	262.7	43.7	43.3	5.5	358.8	999.9	99.9	999.9	26.7	84.
31.7	112.0	13950.1	175.0	-50.7	99.9	262.2	29.2	28.9	3.9	366.1	999.9	99.9	999.9	30.7	84.
33.8	117.7	14938.7	150.0	-55.9	99.9	999.9	99.9	99.9	99.9	373.7	999.9	99.9	999.9	33.6	83.
36.1	124.0	15999.6	125.0	-56.7	99.9	999.9	99.9	99.9	99.9	392.4	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

23 JULY 1981
1816 GMT

127 91. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.9	866.0	914.0	31.2	10.0	160.0	5.0	-1.7	4.7	312.3	336.5	8.5	27.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	18.4	1007.4	900.0	28.4	8.7	138.6	5.0	-3.3	3.7	317.8	333.5	7.9	29.2	0.2	330.
0.8	21.1	1252.8	875.0	26.5	10.0	134.8	4.5	-3.2	3.2	311.3	336.5	8.9	35.5	0.3	326.
1.3	23.9	1507.6	850.0	24.2	9.4	126.8	4.4	-3.6	2.7	311.5	336.5	8.8	39.1	0.4	322.
1.8	26.8	1767.8	825.0	21.4	8.7	113.8	5.9	-5.4	2.4	311.2	335.8	8.6	44.3	0.5	316.
2.4	29.6	2033.4	800.0	18.8	7.4	101.4	6.4	-6.2	1.3	311.2	334.4	8.1	47.4	0.8	307.
2.9	32.4	2304.9	775.0	15.8	6.7	121.1	4.3	-3.7	2.2	310.8	333.7	8.0	54.7	0.9	301.
3.3	35.3	2582.4	750.0	13.1	6.3	166.5	4.8	-1.1	4.6	310.8	333.7	8.0	63.4	1.0	305.
4.0	38.2	2866.8	725.0	11.1	5.9	193.9	6.9	1.7	6.7	311.7	334.8	8.1	70.0	1.1	316.
4.8	41.1	3159.3	700.0	9.4	3.3	225.1	11.2	8.0	7.9	313.0	333.2	7.0	65.5	1.3	334.
5.8	44.1	3460.5	675.0	7.6	-2.3	233.6	10.7	8.6	6.3	314.1	328.4	4.8	49.7	1.6	0.
6.6	47.1	3770.2	650.0	4.5	-5.1	237.8	10.7	9.1	5.7	314.0	326.1	4.0	49.9	1.9	12.
7.5	50.1	4088.9	625.0	2.5	-7.7	248.0	10.9	10.1	4.1	315.4	325.8	3.4	46.6	2.4	23.
8.5	53.2	4417.0	600.0	-1.0	-10.2	254.6	10.6	10.2	2.8	314.9	323.9	2.9	49.5	2.8	32.
9.4	56.3	4755.5	575.0	-3.3	-12.5	255.4	12.8	12.4	3.2	316.1	324.0	2.5	48.9	3.3	40.
10.3	59.5	5104.9	550.0	-6.6	-13.9	258.1	14.8	14.5	3.0	316.2	323.7	2.4	56.2	3.9	47.
11.3	62.6	5466.6	525.0	-9.6	-16.1	262.7	16.0	15.9	2.0	316.9	323.5	2.1	58.6	4.7	53.
12.3	65.9	5841.2	500.0	-11.6	-30.6	269.8	16.7	16.7	0.0	318.5	321.1	0.7	20.9	5.5	58.
13.3	69.3	6232.6	475.0	-14.6	-34.3	276.1	17.3	17.2	-1.8	319.9	321.4	0.4	16.8	6.4	64.
14.2	72.7	6642.2	450.0	-17.3	-36.4	279.8	17.9	17.7	-3.1	321.5	322.8	0.4	17.1	7.2	68.
15.3	76.3	7066.6	425.0	-20.0	-38.9	280.9	20.5	20.1	-3.9	323.4	324.5	0.3	16.5	8.3	73.
16.4	79.7	7513.3	400.0	-23.5	-41.9	280.6	22.1	21.7	-4.1	324.4	325.3	0.2	16.4	9.5	77.
17.4	83.2	7981.9	375.0	-27.1	-44.5	278.4	24.5	24.3	-3.6	325.6	326.5	0.2	17.2	10.9	80.
18.6	87.0	8474.6	350.0	-31.5	-48.0	276.7	26.2	26.1	-3.1	326.3	326.8	0.1	17.6	12.6	82.
19.7	91.0	8994.9	325.0	-35.7	-50.9	277.6	26.0	25.8	-3.4	327.4	327.8	0.1	19.2	14.3	84.
21.2	95.0	9546.4	300.0	-39.9	-54.5	274.5	26.0	25.9	-2.0	329.1	329.4	0.1	19.0	16.5	86.
22.7	99.3	10135.1	275.0	-44.4	99.9	268.7	22.8	22.8	0.5	330.9	999.9	99.9	999.9	18.9	86.
24.3	103.8	10768.6	250.0	-47.9	99.9	272.1	28.8	28.8	-1.1	334.9	999.9	99.9	999.9	21.1	87.
26.0	108.6	11459.9	225.0	-49.3	99.9	271.0	31.3	31.3	-0.6	342.9	999.9	99.9	999.9	24.3	87.
28.7	113.6	12232.8	200.0	-48.7	99.9	270.2	36.6	36.6	-0.1	355.7	999.9	99.9	999.9	29.1	88.
31.5	119.2	13106.6	175.0	-51.0	99.9	269.7	21.4	21.4	0.1	365.8	999.9	99.9	999.9	34.6	88.
34.6	125.2	14107.9	150.0	-51.3	99.9	269.4	29.9	29.9	0.3	381.7	999.9	99.9	999.9	39.6	89.
37.6	131.3	15241.2	125.0	-55.8	99.9	266.5	22.6	22.6	1.4	393.9	999.9	99.9	999.9	44.2	88.
41.5	139.0	16695.0	100.0	-58.8	99.9	999.9	99.9	99.9	99.9	414.1	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 5
POWDERVILLE, MONTANA

23 JULY 1981
1944 GMT

121 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.0	866.0	912.8	31.2	7.0	120.0	2.0	-1.7	1.0	312.4	332.4	6.9	22.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	17.3	992.1	900.0	29.4	8.1	114.1	5.1	-4.7	2.1	311.8	331.6	7.6	26.4	0.2	298.
0.9	19.9	1241.9	875.0	26.8	7.9	114.8	5.6	-5.1	2.3	311.6	333.6	7.7	30.2	0.4	295.
1.4	22.5	1495.8	850.0	24.3	7.6	124.3	6.1	-5.0	3.4	311.6	333.8	7.7	34.3	0.5	296.
1.8	25.1	1754.9	825.0	21.5	6.9	128.4	7.4	-5.8	4.6	311.3	333.1	7.6	38.9	0.7	300.
2.5	27.8	2022.9	800.0	19.3	7.1	129.0	6.6	-5.1	4.1	311.8	334.5	8.0	45.0	1.0	302.
3.0	30.4	2294.9	775.0	16.6	6.6	129.2	5.2	-4.0	3.3	311.6	334.3	7.9	51.6	1.2	303.
3.6	33.1	2572.9	750.0	13.7	5.6	133.7	4.3	-3.1	3.0	311.5	333.4	7.6	58.0	1.3	304.
4.1	35.9	2857.8	725.0	11.2	5.5	143.0	3.1	-1.9	2.5	311.7	334.3	7.9	68.2	1.4	305.
4.6	38.6	3150.1	700.0	8.3	5.2	182.8	2.5	0.1	2.5	311.7	334.5	8.0	81.2	1.5	306.
5.3	41.4	3449.7	675.0	5.7	3.4	228.8	5.5	4.2	3.6	312.1	333.0	7.3	84.8	1.5	312.
6.1	44.3	3757.7	650.0	3.0	-0.0	232.9	8.1	6.4	4.9	312.4	329.7	5.9	80.5	1.5	325.
6.8	47.1	4074.8	625.0	1.4	-10.6	235.4	10.8	8.9	6.1	314.1	322.4	2.7	40.4	1.5	340.
7.7	50.1	4402.4	600.0	-1.1	-12.0	245.0	17.3	15.7	7.3	314.9	322.9	2.5	43.3	1.9	2.
8.7	53.0	4740.3	575.0	-3.9	-13.5	253.4	18.1	17.3	5.2	315.4	322.7	2.3	47.2	2.5	27.
9.5	56.0	5089.3	550.0	-6.5	-18.1	253.3	17.4	16.7	5.0	316.4	321.7	1.7	39.0	3.1	38.
10.4	59.1	5451.0	525.0	-9.4	-23.9	258.5	20.0	19.6	4.0	317.1	320.6	1.1	29.4	4.0	47.
11.3	62.1	5826.3	500.0	-11.8	-23.6	267.8	20.6	20.6	0.8	318.7	322.4	1.1	36.5	4.8	54.
12.1	65.4	6218.9	475.0	-14.9	-25.2	272.7	20.1	20.1	-1.0	319.6	323.0	1.0	40.8	5.7	60.
12.9	68.7	6623.3	450.0	-18.2	-22.9	273.7	20.6	20.6	-1.3	320.4	324.8	1.3	66.4	6.5	65.
13.9	72.3	7048.6	425.0	-20.0	-35.9	272.1	22.5	22.5	-0.8	323.3	324.8	0.4	22.7	7.7	70.
15.4	75.4	7496.2	400.0	-23.5	-42.4	271.7	24.3	24.3	-0.7	324.5	325.3	0.2	15.7	9.6	74.
16.6	79.3	7967.3	375.0	-27.3	-45.9	270.7	24.6	24.6	-0.3	325.4	326.0	0.2	15.0	11.4	77.
18.0	82.7	8456.4	350.0	-31.5	-48.8	269.5	24.2	24.2	0.2	326.3	326.8	0.1	16.0	13.3	79.
19.3	86.5	8975.8	325.0	-36.3	-53.0	268.2	26.1	26.1	0.8	326.6	327.0	0.1	15.8	15.5	80.
20.8	90.3	9529.1	300.0	-40.3	99.9	267.9	21.7	21.7	0.8	328.6	999.9	99.9	999.9	17.3	81.
22.3	94.5	10113.9	275.0	-44.6	99.9	267.0	24.4	24.4	1.3	330.6	999.9	99.9	999.9	19.5	82.
24.1	98.8	10745.4	250.0	-48.8	99.9	268.9	29.5	29.5	0.6	333.6	999.9	99.9	999.9	22.3	83.
26.3	103.4	11433.8	225.0	-50.4	99.9	268.3	33.7	33.7	1.0	341.2	999.9	99.9	999.9	26.5	84.
28.8	108.4	12205.7	200.0	-49.1	99.9	269.6	32.9	32.9	0.2	355.0	999.9	99.9	999.9	31.5	84.
31.7	113.6	13076.9	175.0	-51.2	99.9	267.5	34.9	34.9	1.5	365.4	999.9	99.9	999.9	37.3	85.
34.7	119.2	14073.4	150.0	-53.5	99.9	265.3	23.5	23.4	1.9	377.9	999.9	99.9	999.9	43.0	85.
38.0	125.7	15239.2	125.0	-56.8	99.9	268.1	18.1	18.1	0.6	392.1	999.9	99.9	999.9	46.9	85.
42.3	133.0	16650.5	100.0	-58.8	99.9	265.5	24.5	24.4	1.9	414.2	999.9	99.9	999.9	51.8	85.
99.9	99.9	99.9	75.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	50.0	99.9	99.9	99.9	99.9	99.9	99.9	999.9	999.9	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	999.9	999.9	99.9	999.9	999.9	999.

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STATION NO. 5
POWDERVILLE, MONTANA

23 JULY 1981
2108 GMT

69 337. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.0	866.0	911.6	31.1	8.8	10.0	15.0	-2.6	-14.8	312.4	334.9	7.8	25.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	17.2	980.1	906.0	27.9	8.0	43.1	13.2	-9.0	-9.6	310.3	331.9	7.5	28.6	0.3	215.
1.0	19.8	1228.9	875.0	26.1	6.9	44.4	13.8	-9.6	-9.8	310.9	331.5	7.2	29.6	0.6	220.
1.5	22.3	1483.1	850.0	23.7	6.7	45.9	12.3	-8.9	-8.6	311.0	331.9	7.3	33.6	1.0	222.
2.0	24.9	1743.0	825.0	21.3	6.5	54.6	8.4	-6.9	-4.9	311.2	332.4	7.4	38.2	1.4	223.
2.6	27.6	2008.7	800.0	19.0	6.0	91.2	5.9	-5.9	0.1	311.4	332.5	7.4	42.6	1.6	226.
3.2	30.2	2281.0	775.0	17.4	5.3	121.9	6.9	-5.8	3.6	312.5	333.4	7.2	44.9	1.7	234.
4.0	32.9	2560.1	750.0	14.9	4.7	142.3	5.9	-3.6	4.7	312.8	333.6	7.2	50.4	1.8	243.
4.8	35.6	2845.9	725.0	12.3	4.6	160.7	5.9	-2.0	5.6	313.0	334.3	7.4	59.2	1.9	253.
5.6	38.2	3139.2	700.0	9.6	3.2	189.3	5.4	0.9	5.3	313.1	333.2	6.9	64.6	1.8	260.
6.4	41.0	3440.4	675.0	7.1	2.1	221.9	7.7	5.2	5.8	313.6	332.9	6.6	70.2	1.6	269.
7.4	43.8	3750.4	650.0	5.1	-1.2	235.0	10.3	8.4	5.9	314.8	330.8	5.4	63.3	1.2	286.
8.5	46.9	4069.5	625.0	2.5	-4.4	238.7	11.0	9.4	5.7	315.4	328.7	4.4	60.3	0.9	321.
9.4	49.6	4398.3	600.0	-0.3	-11.3	239.5	11.9	10.2	6.0	315.8	324.1	2.7	43.2	1.0	356.
10.3	52.4	4737.7	575.0	-2.7	-12.9	246.0	12.5	11.4	5.1	316.8	324.5	2.5	45.3	1.4	21.
11.4	55.5	5088.3	550.0	-5.7	-12.9	262.9	12.5	12.4	1.5	317.4	325.4	2.6	56.5	2.0	39.
12.5	58.6	5452.1	525.0	-7.8	-14.3	275.4	13.8	13.7	-1.3	319.0	326.6	2.4	59.4	2.7	55.
13.8	61.8	5829.9	500.0	-9.9	-22.1	282.7	14.8	14.4	-3.3	320.9	325.2	1.3	36.3	3.6	67.
15.1	64.9	6223.0	475.0	-13.3	-33.8	283.1	15.1	14.7	-3.4	321.5	323.1	0.5	15.8	4.6	77.
16.5	68.1	6631.9	450.0	-16.8	-31.9	283.7	18.8	18.2	-4.4	322.2	324.2	0.6	25.8	5.9	82.
20.4	71.4	7057.7	425.0	-21.0	-25.5	289.4	18.5	17.5	-6.2	322.1	325.9	1.1	66.9	10.2	95.
21.7	74.9	7503.4	400.0	-24.5	-27.4	266.6	14.5	14.5	0.9	323.2	326.6	1.0	76.6	11.6	96.
24.1	78.4	7970.2	375.0	-28.4	-31.2	999.9	99.9	99.9	99.9	324.1	326.6	0.7	76.0	13.1	93.
26.4	82.0	8462.8	350.0	-30.6	-33.7	999.9	99.9	99.9	99.9	327.5	329.7	0.6	74.1	999.9	999.
99.9	99.9	99.9	325.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	300.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	275.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	250.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	225.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	200.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

23 JULY 1981
2358 GMT

121 84. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.8	866.9	911.8	28.4	10.1	40.0	6.0	-3.9	-4.6	309.6	333.9	8.6	32.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	17.0	981.4	900.0	26.8	9.8	71.8	12.6	-12.0	-3.9	309.1	333.2	8.5	34.5	0.2	230.
1.0	19.5	1229.5	875.0	25.0	8.6	74.0	10.8	-10.4	-3.0	309.7	332.6	8.1	35.4	0.6	244.
1.8	22.0	1482.6	850.0	22.5	8.2	72.6	9.9	-9.5	-3.0	309.8	332.7	8.1	39.9	1.1	248.
2.5	24.6	1741.5	825.0	20.8	6.1	71.8	8.6	-8.1	-2.7	310.6	331.2	7.2	38.4	1.5	250.
3.3	27.2	2006.5	800.0	18.6	4.5	71.6	6.9	-6.6	-2.2	311.0	330.2	6.6	39.4	1.8	250.
3.9	29.8	2277.9	775.0	16.5	3.8	71.1	5.1	-4.8	-1.6	311.5	330.3	6.5	42.8	2.1	250.
4.6	32.4	2556.3	750.0	14.3	4.2	62.0	2.4	-2.1	-1.1	312.1	332.1	6.9	50.4	2.2	250.
5.3	35.1	2841.8	725.0	12.2	3.6	318.8	2.6	1.7	-2.0	312.9	332.8	6.9	55.3	2.3	250.
6.0	37.8	3135.6	700.0	10.9	0.9	266.9	7.4	7.4	0.4	314.5	331.8	5.9	50.1	2.1	248.
6.6	40.4	3438.1	675.0	8.9	-2.4	264.7	9.8	9.7	0.9	315.6	329.8	4.8	44.9	1.7	244.
7.4	43.2	3749.4	650.0	6.8	-6.4	266.0	13.6	13.5	1.0	316.7	327.9	3.7	38.2	1.3	236.
8.2	46.0	4069.7	625.0	4.2	-11.1	261.2	16.4	16.2	2.5	317.2	325.4	2.6	31.9	0.7	202.
9.0	48.8	4400.3	600.0	1.4	-12.8	253.6	17.3	16.6	4.9	317.7	325.2	2.4	33.7	0.7	133.
9.9	51.6	4741.5	575.0	-1.2	-17.8	256.9	20.4	19.9	4.6	318.6	323.9	1.6	26.9	1.5	98.
10.8	54.6	5094.0	550.0	-4.3	-20.3	260.2	22.3	22.0	3.8	319.0	323.5	1.4	27.5	2.6	90.
11.6	57.6	5458.3	525.0	-7.9	-21.1	259.3	22.2	21.8	4.1	319.0	323.4	1.4	33.7	3.7	87.
12.6	60.7	5835.1	500.0	-11.3	-22.8	260.1	21.5	21.2	3.7	319.2	323.2	1.2	38.1	5.0	85.
13.7	63.8	6226.1	475.0	-14.5	-33.7	260.0	24.1	23.7	4.2	320.1	321.7	0.5	17.7	6.5	84.
14.7	66.9	6633.4	450.0	-17.8	-29.7	261.0	23.4	23.1	3.7	320.9	323.3	0.7	34.1	7.9	83.
15.9	70.1	7059.4	425.0	-20.0	-39.8	264.3	22.8	22.7	2.3	323.3	324.3	0.3	15.2	9.3	83.
16.8	73.4	7506.2	400.0	-23.3	-42.0	265.5	24.4	24.3	1.9	324.7	325.5	0.2	16.0	10.8	83.
18.0	77.0	7974.6	375.0	-27.3	-44.2	267.2	26.7	26.7	1.3	325.5	326.2	0.2	18.2	12.6	84.
19.3	80.6	8467.2	350.0	-31.5	-46.9	266.9	29.2	29.2	1.6	326.4	326.9	0.2	20.0	14.9	84.
20.6	84.3	8987.3	325.0	-36.0	-49.4	268.6	29.9	29.9	0.7	327.1	327.6	0.1	23.5	17.1	85.
21.9	88.1	9538.4	300.0	-39.9	99.9	267.0	34.5	34.5	1.8	329.1	999.9	99.9	999.9	19.5	85.
23.2	92.2	10128.9	275.0	-43.5	99.9	264.0	36.5	36.3	3.8	332.2	999.9	99.9	999.9	22.5	85.
24.7	96.4	10763.6	250.0	-46.8	99.9	261.7	39.5	39.1	5.7	336.5	999.9	99.9	999.9	25.8	85.
26.3	101.0	11458.4	225.0	-48.2	99.9	262.8	40.9	40.6	5.2	344.7	999.9	99.9	999.9	29.6	84.
28.4	105.9	12237.1	200.0	-47.9	99.9	263.8	42.2	41.9	4.5	356.9	999.9	99.9	999.9	35.2	84.
30.9	111.0	13110.7	175.0	-51.0	99.9	264.2	32.1	32.0	3.2	365.8	999.9	99.9	999.9	40.5	84.
33.7	116.7	14108.8	150.0	-52.4	99.9	258.3	29.5	28.9	6.0	379.8	999.9	99.9	999.9	45.6	84.
36.2	123.0	15278.9	125.0	-56.0	99.9	260.2	25.7	25.3	4.4	393.6	999.9	99.9	999.9	49.8	84.
39.8	130.0	16688.6	100.0	-57.5	99.9	999.9	99.9	99.9	99.9	416.7	999.9	99.9	999.9	54.5	83.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

24 JULY 1981
1748 GMT

131 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.9	800.0	926.9	23.0	11.4	330.0	4.0	2.0	-3.5	302.7	327.8	9.2	48.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	15.0	817.9	925.0	22.8	12.3	316.2	8.4	5.8	-6.1	302.6	329.3	9.8	51.5	0.1	119.
0.7	17.7	1005.1	900.0	19.1	10.0	315.3	7.0	4.9	-5.0	301.2	324.7	8.6	55.4	0.2	124.
1.4	20.4	1196.3	875.0	16.1	8.5	311.4	5.1	3.8	-3.4	300.6	322.5	8.0	60.6	0.4	130.
2.0	23.2	1542.4	850.0	14.1	8.1	313.4	5.5	4.0	-3.8	300.9	322.9	8.0	67.3	0.6	129.
2.7	26.1	1793.5	825.0	11.7	7.9	316.4	5.6	3.8	-4.0	301.0	323.3	8.2	77.7	0.8	131.
3.3	28.8	2050.7	800.0	9.6	8.0	314.5	5.9	4.2	-4.1	301.4	324.5	8.5	90.0	1.0	133.
4.1	31.7	2313.8	775.0	7.9	5.4	303.3	8.6	7.2	-4.7	302.3	322.5	7.3	84.5	1.3	132.
5.1	34.6	2585.2	750.0	7.9	3.0	297.8	9.6	8.5	-4.5	305.2	323.2	6.4	71.4	1.9	128.
5.9	37.5	2864.3	725.0	5.6	2.1	284.2	8.3	8.0	-2.0	305.6	323.1	6.2	78.0	2.4	126.
6.8	40.4	3150.8	700.0	3.8	0.3	276.1	8.4	8.3	-0.9	306.7	322.8	5.6	78.2	2.7	122.
7.6	43.4	3445.8	675.0	1.9	-2.2	275.6	10.1	10.0	-1.0	307.8	321.9	4.9	74.3	3.1	118.
8.4	46.5	3749.4	650.0	-0.5	-3.1	275.6	12.0	12.0	-1.2	308.4	322.1	4.7	82.7	3.7	115.
9.4	49.6	4062.0	625.0	-2.6	-5.7	277.7	14.2	14.1	-1.9	309.5	321.3	4.0	79.0	4.4	112.
10.3	52.8	4385.5	600.0	-4.2	-9.0	277.1	16.1	16.0	-2.0	311.2	320.9	3.2	69.2	5.2	110.
11.3	56.0	4719.8	575.0	-6.5	-9.8	267.6	16.5	16.4	0.7	312.3	321.9	3.2	77.8	6.2	107.
12.4	59.3	5066.0	550.0	-9.1	-10.5	258.7	16.8	16.5	3.3	313.4	322.9	3.1	89.1	7.2	103.
13.5	62.6	5424.7	525.0	-11.6	-14.0	260.5	17.4	17.2	2.9	314.5	322.2	2.5	82.1	8.2	100.
14.5	66.0	5797.1	500.0	-14.3	-16.3	268.2	18.7	18.7	0.6	315.6	322.3	2.1	84.6	9.2	98.
15.4	69.6	6184.5	475.0	-17.0	-18.2	271.2	19.9	19.9	-0.4	317.0	323.1	1.9	90.5	10.3	97.
16.3	73.1	6588.5	450.0	-20.0	-23.4	272.4	21.2	21.2	-0.9	318.1	322.4	1.3	75.2	11.4	97.
17.3	76.7	7009.6	425.0	-23.9	-37.9	273.0	23.9	23.9	-1.2	318.3	319.5	0.3	26.2	12.7	96.
18.5	80.6	7448.3	400.0	-26.5	-40.0	273.4	25.3	25.3	-1.5	320.5	321.6	0.3	26.4	14.5	96.
19.6	84.4	7911.7	375.0	-30.7	-43.2	273.3	26.1	26.0	-1.5	321.0	321.8	0.2	28.0	16.2	96.
20.8	88.3	8397.9	350.0	-34.4	-47.4	271.0	27.0	27.0	-0.5	322.3	322.9	0.1	25.1	18.0	95.
21.9	92.5	8912.0	325.0	-37.9	-51.0	270.3	31.0	31.0	-0.2	324.5	324.9	0.1	23.5	20.0	95.
23.3	96.7	9459.7	300.0	-41.3	99.9	270.5	33.9	33.9	-0.3	327.2	999.9	99.9	999.9	22.7	94.
24.7	101.2	10045.5	275.0	-45.4	99.9	265.9	34.4	34.3	2.5	329.5	999.9	99.9	999.9	25.5	94.
26.1	105.8	10678.6	250.0	-49.0	99.9	256.7	36.1	35.2	8.3	334.7	999.9	99.9	999.9	28.5	93.
27.9	110.8	11370.4	225.0	-48.1	99.9	256.5	36.0	35.0	8.4	344.8	999.9	99.9	999.9	32.2	90.
30.1	116.0	12143.9	200.0	-50.2	99.9	259.9	34.7	34.2	6.1	353.3	999.9	99.9	999.9	36.8	89.
32.9	121.7	13014.2	175.0	-50.9	99.9	259.6	31.4	30.8	5.7	365.9	999.9	99.9	999.9	42.2	88.
35.7	127.7	14016.5	150.0	-51.6	99.9	259.2	23.9	23.5	4.5	381.1	999.9	99.9	999.9	46.9	87.
39.0	134.5	15193.6	125.0	-54.9	99.9	264.8	18.4	18.4	1.7	395.5	999.9	99.9	999.9	50.8	86.
42.6	142.0	16613.3	100.0	-58.0	99.9	999.9	99.9	99.9	99.9	415.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 1
MILES CITY, MONTANA

24 JULY 1981
2040 GMT

123 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.1	800.0	926.2	24.6	11.5	290.0	4.0	3.8	-1.4	304.4	330.0	9.3	44.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	15.2	811.4	925.0	24.3	11.4	298.9	4.4	3.8	-2.1	304.2	329.6	9.2	44.4	0.0	19.
0.4	17.6	1049.4	900.0	20.7	9.8	357.4	6.5	0.3	-6.5	302.9	326.3	8.5	49.6	0.2	158.
1.7	20.3	1292.4	875.0	18.4	8.9	350.0	6.3	1.1	-6.2	302.9	325.6	8.2	53.7	0.6	169.
2.5	22.9	1539.4	850.0	15.9	8.0	336.8	6.6	2.6	-6.1	302.8	324.9	8.0	59.5	0.9	167.
3.1	25.5	1792.9	825.0	13.5	7.1	324.1	7.3	4.3	-5.9	302.8	324.2	7.7	65.5	1.2	163.
3.8	28.1	2051.3	800.0	11.1	6.9	318.9	7.9	4.6	-5.3	303.0	324.6	7.8	75.5	1.4	158.
4.4	30.8	2315.7	775.0	8.6	6.8	324.4	6.8	4.0	-5.5	303.1	325.3	8.1	88.6	1.7	156.
5.3	33.6	2584.4	750.0	6.2	5.2	313.8	6.0	4.3	-4.1	303.3	323.9	7.4	93.3	2.0	154.
6.0	36.4	2864.4	725.0	4.9	3.4	299.8	6.6	6.2	-2.3	304.9	324.0	6.8	89.9	2.2	150.
6.8	39.2	3150.1	700.0	2.9	0.5	283.1	7.4	7.3	-1.7	305.7	321.9	5.7	84.2	2.4	145.
7.6	42.1	3445.0	675.0	2.5	-3.7	275.7	9.6	9.6	-0.9	308.4	321.0	4.3	63.8	2.8	139.
8.4	45.0	3749.5	650.0	0.9	-5.4	267.9	11.8	11.8	0.4	310.0	321.6	3.9	62.6	3.1	132.
9.2	48.0	4067.6	625.0	-1.7	-7.7	268.2	13.5	13.5	0.4	310.5	320.8	3.4	63.4	3.6	125.
9.9	51.0	4387.7	600.0	-3.7	-11.4	272.0	14.8	14.8	-0.5	311.8	320.0	2.7	55.1	4.1	120.
10.8	54.0	4722.7	575.0	-6.4	-9.2	274.2	16.0	16.0	-1.2	312.5	322.5	3.3	80.5	4.8	116.
11.8	57.1	5068.7	550.0	-8.9	-17.1	272.3	17.1	17.0	-0.7	313.6	319.3	1.8	51.1	5.8	112.
12.9	60.4	5427.4	525.0	-11.9	-23.6	270.0	18.0	18.0	-0.0	314.1	317.7	1.1	37.3	6.9	108.
13.9	63.6	5799.1	500.0	-14.6	-30.5	269.7	18.2	18.2	0.1	315.3	317.5	0.7	27.9	7.9	106.
14.9	66.9	6186.2	475.0	-16.8	-19.7	266.9	18.6	18.5	1.0	317.1	322.5	1.7	78.3	8.9	104.
15.9	70.3	6590.3	450.0	-19.8	-22.0	267.0	20.2	20.2	1.1	318.3	323.1	1.5	82.8	10.1	102.
17.0	73.9	7012.3	425.0	-22.9	-30.6	269.0	22.7	22.7	0.4	319.6	322.0	0.7	49.3	11.4	100.
18.1	77.5	7453.6	400.0	-26.3	-40.9	270.0	25.5	25.5	0.0	320.8	321.7	0.3	23.6	13.0	99.
19.3	81.3	7916.7	375.0	-29.9	-52.3	268.2	26.0	26.0	0.8	322.1	322.4	0.1	9.1	14.5	98.
20.5	85.1	8404.6	350.0	-33.7	-54.4	265.5	27.0	26.9	2.1	323.3	323.5	0.1	10.3	16.9	96.
21.7	89.0	8919.7	325.0	-37.6	-55.8	264.3	31.9	31.8	3.1	324.9	325.1	0.1	12.8	18.8	95.
22.7	93.2	9467.6	300.0	-41.2	99.9	260.1	34.8	34.3	6.0	327.3	999.9	99.9	999.9	20.9	94.
24.1	97.5	10053.1	275.0	-45.7	99.9	255.7	38.8	37.6	9.6	329.0	999.9	99.9	999.9	23.6	92.
25.3	101.9	10683.3	250.0	-49.3	99.9	252.5	41.6	39.7	12.5	332.7	999.9	99.9	999.9	26.4	90.
26.8	106.8	11368.6	225.0	-52.4	99.9	254.1	42.3	40.4	11.5	338.2	999.9	99.9	999.9	30.3	88.
28.9	111.8	12135.9	200.0	-49.4	99.9	260.0	38.3	37.7	6.7	354.5	999.9	99.9	999.9	35.1	86.
31.3	117.3	13013.9	175.0	-50.3	99.9	261.5	33.4	33.0	5.0	366.9	999.9	99.9	999.9	40.2	86.
34.1	122.5	14015.8	150.0	-50.5	99.9	264.5	25.9	25.8	2.5	383.1	999.9	99.9	999.9	45.2	85.
37.2	128.5	15193.5	125.0	-55.2	99.9	257.8	17.9	17.5	3.8	395.1	999.9	99.9	999.9	49.8	85.
41.0	134.7	16613.9	100.0	-56.4	99.9	999.9	99.9	99.9	99.9	418.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

24 JULY 1981
2340 GMT

120 89. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.0	800.0	926.6	23.6	9.9	360.0	7.0	0.0	-7.0	303.3	326.3	8.3	42.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	14.2	815.1	925.0	23.3	10.0	302.6	7.2	6.0	-3.9	303.1	326.2	8.4	43.0	0.0	333.
0.7	16.6	1052.6	900.0	19.9	10.1	12.7	8.1	-1.8	-7.9	302.0	325.8	8.7	53.4	0.2	197.
1.3	19.1	1294.7	875.0	17.6	9.3	4.6	7.3	-0.6	-7.3	302.1	325.2	8.4	58.1	0.5	192.
1.9	21.5	1542.0	850.0	15.6	8.7	1.8	5.0	-0.2	-5.0	302.4	325.3	8.3	63.5	0.7	189.
2.7	24.0	1794.5	825.0	13.5	7.2	350.8	3.8	0.6	-3.8	302.8	324.3	7.8	65.9	0.9	187.
3.4	26.4	2051.1	800.0	11.4	6.9	331.9	3.8	1.8	-3.4	303.3	325.0	7.8	73.9	1.0	183.
4.1	29.0	2312.7	775.0	8.9	6.2	318.8	4.6	3.0	-3.5	303.4	324.8	7.7	82.8	1.2	178.
4.9	31.6	2578.9	750.0	6.9	5.1	298.6	5.4	4.7	-2.6	304.1	324.7	7.4	88.3	1.4	171.
5.8	34.2	2847.2	725.0	5.0	3.2	280.6	6.3	6.2	-1.2	304.9	323.8	6.7	88.4	1.5	160.
6.5	36.9	3119.5	700.0	3.7	1.4	281.1	7.8	7.6	-1.5	306.6	324.0	6.1	85.0	1.7	152.
7.3	39.6	3394.6	675.0	2.1	-0.9	280.3	9.9	9.8	-1.8	308.0	323.3	5.3	80.5	2.0	142.
8.1	42.3	3672.5	650.0	-0.4	-2.6	270.5	11.8	11.8	-0.1	308.5	322.7	4.9	85.0	2.4	133.
9.0	45.1	4006.4	625.0	-2.3	-3.5	259.1	13.4	13.1	2.5	309.8	323.6	4.7	91.5	2.9	122.
9.9	48.0	4388.8	600.0	-4.5	-5.5	262.6	14.1	13.9	1.8	311.0	323.5	4.2	92.5	3.5	114.
10.9	51.0	4772.8	575.0	-6.9	-11.7	272.8	14.8	14.7	-0.7	311.9	320.2	2.7	68.9	4.2	109.
11.9	53.9	5158.9	550.0	-8.4	-29.8	277.6	17.1	17.0	-2.3	314.1	316.1	0.6	15.8	5.2	107.
13.0	56.9	5548.1	525.0	-11.0	-29.1	278.1	20.6	20.4	-2.9	315.2	317.4	0.7	20.8	6.4	105.
13.9	59.9	5901.5	500.0	-12.7	-30.4	278.8	22.3	22.1	-3.4	317.5	319.6	0.6	21.0	7.5	104.
14.8	63.1	6190.6	475.0	-15.9	-29.5	280.6	23.7	23.3	-4.4	318.3	320.6	0.7	29.8	8.9	103.
15.7	66.4	6595.2	450.0	-19.5	-32.0	281.8	23.9	23.4	-4.9	318.7	320.7	0.6	31.7	10.1	103.
16.7	69.7	7017.1	425.0	-23.0	-36.4	282.3	23.5	23.1	-4.2	319.5	320.9	0.4	27.8	11.6	103.
17.9	73.1	7457.9	400.0	-26.8	-40.9	283.8	24.2	24.1	-1.6	320.2	321.2	0.3	24.4	13.1	102.
19.1	76.7	7923.9	375.0	-30.0	-46.8	284.9	28.0	28.0	0.1	321.9	322.4	0.1	17.4	15.1	101.
20.3	80.3	8409.3	350.0	-33.8	-48.9	286.9	31.3	31.2	1.7	323.2	323.6	0.1	20.1	17.2	99.
21.5	84.1	8923.3	325.0	-37.6	-50.1	288.6	36.4	36.1	4.7	324.8	325.3	0.1	25.4	19.6	98.
22.7	88.0	9470.7	300.0	-41.3	99.9	257.5	38.3	37.4	8.3	327.2	999.9	99.9	999.9	22.1	95.
23.9	92.2	10056.7	275.0	-46.0	99.9	254.4	40.2	38.7	10.8	328.6	999.9	99.9	999.9	24.9	93.
25.3	96.5	10685.7	250.0	-49.4	99.9	252.2	42.1	40.1	12.8	332.6	999.9	99.9	999.9	28.2	91.
27.0	101.0	11371.7	225.0	-51.2	99.9	251.9	41.1	39.1	12.8	340.1	999.9	99.9	999.9	32.1	88.
29.1	105.8	12140.6	200.0	-49.6	99.9	255.9	38.0	36.8	9.3	354.3	999.9	99.9	999.9	36.9	86.
31.6	110.8	13013.2	175.0	-51.5	99.9	263.5	34.4	34.2	3.9	364.9	999.9	99.9	999.9	42.5	85.
34.8	116.5	14011.6	150.0	-53.1	99.9	259.0	23.9	23.4	4.6	378.6	999.9	99.9	999.9	48.0	85.
38.5	122.7	15184.6	125.0	-54.0	99.9	262.2	21.2	21.0	2.9	397.3	999.9	99.9	999.9	52.4	85.
42.0	129.5	16605.7	100.0	-58.3	99.9	248.3	9.9	9.2	3.6	415.1	999.9	99.9	999.9	56.0	85.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

25 JULY 1981
248 GMT

124 82. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.9	900.0	928.1	20.2	10.3	10.0	5.0	-0.9	-4.9	299.7	322.8	8.5	53.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	14.2	828.9	925.0	19.9	10.6	3.8	7.8	-0.5	-7.8	299.6	323.3	8.8	55.3	0.2	187.
0.8	16.7	1064.9	900.0	18.4	8.6	5.5	8.1	-0.8	-8.1	300.5	321.9	7.8	52.8	0.3	186.
1.5	19.2	1305.7	875.0	16.2	7.6	11.4	7.5	-1.5	-7.4	300.6	321.3	7.5	56.8	0.6	186.
2.1	21.9	1551.6	850.0	13.9	7.0	18.1	5.1	-1.6	-4.8	300.8	321.2	7.4	62.9	0.9	189.
2.8	24.3	1803.3	825.0	12.1	6.9	1.8	3.4	-0.1	-3.4	301.4	322.3	7.6	70.7	1.0	191.
3.4	26.8	2060.4	800.0	10.2	5.4	329.4	4.3	2.2	-3.7	302.1	321.7	7.1	71.9	1.2	187.
4.0	29.5	2324.0	775.0	7.9	3.9	309.7	5.6	4.3	-3.6	302.3	320.5	6.5	75.7	1.3	181.
4.7	32.1	2593.8	750.0	5.6	3.6	307.3	7.0	5.6	-4.2	302.6	321.1	6.6	87.0	1.4	173.
5.4	34.8	2870.6	725.0	3.5	1.4	304.2	8.0	6.6	-4.5	303.3	319.9	5.9	86.2	1.7	166.
6.1	37.6	3155.2	700.0	1.8	-0.0	296.9	8.7	7.8	-4.0	304.4	320.0	5.5	88.0	1.9	158.
6.9	40.3	3447.9	675.0	-0.4	-1.7	294.4	9.4	8.6	-3.9	305.2	319.5	5.0	91.4	2.3	150.
7.7	43.1	3748.8	650.0	-2.7	-3.5	291.8	10.7	9.9	-4.0	305.9	319.0	4.5	93.9	2.7	144.
8.7	46.0	4059.8	625.0	-3.1	-10.1	289.4	11.9	11.3	-4.0	308.9	317.5	2.8	58.6	3.3	137.
9.6	48.9	4381.7	600.0	-5.5	-21.3	285.1	13.0	12.3	-4.2	309.8	313.5	1.2	27.9	3.9	133.
10.6	51.9	4714.5	575.0	-7.1	-43.2	289.6	13.7	12.9	-4.6	311.7	312.2	0.1	3.8	4.6	129.
11.5	54.9	5059.4	550.0	-9.2	-28.7	288.9	16.4	15.5	-5.3	313.2	315.4	0.7	19.6	5.3	126.
12.4	58.0	5418.2	525.0	-11.4	-21.2	285.6	19.2	18.5	-5.2	314.7	319.0	1.3	43.8	6.1	123.
13.3	61.0	5790.6	500.0	-13.8	-30.8	283.5	20.0	19.5	-4.7	316.2	318.2	0.6	22.2	7.3	120.
14.2	64.3	6178.4	475.0	-16.8	-33.4	280.7	19.6	19.2	-3.6	317.2	318.8	0.5	22.1	8.4	118.
15.1	67.5	6582.1	450.0	-21.0	-36.6	279.9	19.7	19.4	-3.4	318.2	319.5	0.4	21.1	9.4	116.
16.1	70.9	7003.0	425.0	-23.5	-47.2	278.7	20.8	20.6	-3.1	318.9	319.4	0.1	9.2	10.5	114.
17.1	74.3	7443.9	400.0	-26.4	-47.6	275.5	25.0	24.9	-2.4	320.7	321.1	0.1	11.4	11.8	112.
18.3	77.9	7906.7	375.0	-29.7	-51.2	272.4	28.2	28.1	-1.2	322.3	322.6	0.1	10.6	13.7	110.
19.6	81.6	8395.8	350.0	-33.0	-50.2	267.9	29.4	29.4	1.1	324.2	324.7	0.1	18.4	15.9	107.
20.9	85.3	8912.7	325.0	-36.7	-47.7	262.2	31.9	31.6	4.3	326.2	326.7	0.2	30.5	18.0	104.
22.2	89.3	9462.7	300.0	-40.9	99.9	257.4	35.7	34.8	7.8	327.7	999.9	99.9	999.9	20.5	101.
23.5	93.3	10048.1	275.0	-45.7	99.9	251.9	39.0	37.0	12.1	329.1	999.9	99.9	999.9	23.2	98.
24.9	97.7	10676.4	250.0	-50.5	99.9	249.2	39.9	37.3	14.2	330.9	999.9	99.9	999.9	26.1	94.
26.5	102.2	11356.8	225.0	-54.1	99.9	251.4	41.0	39.3	11.7	335.7	999.9	99.9	999.9	29.7	92.
28.5	107.0	12114.8	200.0	-50.6	99.9	254.9	38.3	37.0	10.0	352.7	999.9	99.9	999.9	34.3	89.
30.3	112.2	12978.6	175.0	-53.4	99.9	259.3	33.8	33.2	6.3	361.8	999.9	99.9	999.9	39.5	87.
33.9	117.7	13970.2	150.0	-52.6	99.9	261.4	29.0	28.6	4.3	379.4	999.9	99.9	999.9	45.1	87.
37.0	124.0	15140.7	125.0	-55.3	99.9	266.4	19.9	19.9	1.2	394.8	999.9	99.9	999.9	49.2	86.
41.1	130.7	16554.8	100.0	-58.2	99.9	999.9	99.9	99.9	99.9	415.3	999.9	99.9	999.9	53.6	87.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

24 JULY 1981
1740 GMT

122 91. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.9	803.0	924.7	22.4	12.4	290.0	3.0	2.8	-1.0	302.3	329.0	9.8	53.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.7	16.3	1334.8	900.0	21.0	13.3	296.3	7.0	6.2	-3.1	303.2	332.5	10.8	61.3	0.2	113.
1.3	18.7	1282.3	875.0	19.0	12.9	305.2	6.4	5.3	-3.7	303.5	333.0	10.8	68.0	0.5	114.
1.9	21.1	1530.8	850.0	16.0	11.7	317.6	5.1	3.5	-3.8	302.9	330.9	10.3	76.0	0.7	121.
2.4	23.5	1784.3	825.0	13.7	11.4	305.4	5.2	4.3	-3.0	303.1	331.3	10.4	86.3	0.8	124.
2.8	26.0	2043.3	800.0	11.2	10.7	294.2	6.3	5.7	-2.6	303.1	331.0	10.2	97.1	0.9	122.
3.3	28.5	2308.6	775.0	9.6	9.3	292.4	7.3	6.8	-2.8	304.2	330.4	9.5	97.6	1.2	120.
3.8	31.1	2581.0	750.0	8.4	8.1	295.8	7.7	6.9	-3.3	305.7	330.8	9.1	98.0	1.4	119.
4.3	33.7	2861.2	725.0	6.9	6.6	299.4	9.0	7.8	-4.4	307.0	330.7	8.5	98.0	1.6	119.
4.8	36.3	3148.8	700.0	3.4	2.1	297.7	11.5	10.2	-5.3	306.3	324.5	6.4	91.2	1.9	119.
5.4	39.0	3443.7	675.0	2.3	-0.8	291.0	14.2	13.2	-5.1	308.2	323.7	5.4	80.1	2.4	118.
5.9	41.7	3747.9	650.0	0.2	-4.8	285.5	16.0	15.4	-4.3	309.2	321.3	4.1	68.9	2.9	116.
6.6	44.4	4061.4	625.0	-2.0	-8.9	281.4	17.5	17.2	-3.5	310.1	319.5	3.1	59.3	3.6	114.
7.3	47.2	4385.1	600.0	-3.2	-44.2	279.4	19.0	18.8	-3.1	312.4	312.9	0.1	2.5	4.3	111.
8.1	50.1	4720.7	575.0	-5.1	-35.8	276.4	19.9	19.8	-2.2	314.0	315.1	0.3	6.8	5.2	109.
9.1	53.0	5067.8	550.0	-8.0	-37.0	276.3	21.2	21.1	-2.3	314.7	315.7	0.3	7.5	6.4	107.
9.9	56.0	5427.4	525.0	-10.4	-43.1	275.0	22.4	22.3	-2.0	315.9	316.5	0.2	4.8	7.5	105.
10.9	59.1	5801.0	500.0	-13.5	-46.7	272.6	21.8	21.8	-1.0	316.6	317.1	0.1	4.2	8.8	103.
11.9	62.3	6190.0	475.0	-15.5	-59.7	273.8	21.0	20.9	-1.4	318.8	318.9	0.0	1.9	10.0	102.
12.8	65.6	6595.4	450.0	-18.9	-58.8	275.7	21.1	21.0	-2.1	319.5	319.7	0.0	1.6	11.1	101.
13.8	68.9	7017.8	425.0	-22.8	-56.0	274.5	22.1	22.0	-1.7	319.8	320.0	0.0	3.0	12.4	101.
14.7	72.4	7460.2	400.0	-25.4	-61.0	272.5	25.0	25.0	-1.1	322.0	322.1	0.0	2.0	13.7	100.
15.8	76.0	7925.1	375.0	-28.9	-62.1	270.7	26.3	26.3	-0.3	323.4	323.4	0.0	2.4	15.3	99.
16.8	79.7	8415.2	350.0	-32.4	-62.5	268.7	26.5	26.5	0.6	325.0	325.1	0.0	3.2	17.0	98.
17.8	83.5	8933.9	325.0	-36.0	-62.7	267.4	26.2	26.2	1.2	327.1	327.2	0.0	4.4	18.5	97.
18.8	87.5	9484.8	300.0	-40.5	99.9	267.2	27.3	27.3	1.3	328.3	999.9	99.9	999.9	20.0	97.
19.9	91.8	10072.0	275.0	-44.4	99.9	265.7	28.1	28.0	2.1	330.9	999.9	99.9	999.9	21.9	96.
21.2	96.2	10708.5	250.0	-45.6	99.9	262.6	30.7	30.5	4.0	338.3	999.9	99.9	999.9	24.2	95.
22.5	100.8	11410.1	225.0	-46.4	99.9	256.7	31.8	31.0	7.3	347.5	999.9	99.9	999.9	26.5	93.
23.9	106.0	12193.7	200.0	-45.8	99.9	258.7	31.9	31.3	6.2	360.3	999.9	99.9	999.9	29.1	92.
25.5	111.3	13076.0	175.0	-48.0	99.9	261.0	27.5	27.2	4.3	370.7	999.9	99.9	999.9	31.9	91.
27.5	117.2	14089.6	150.0	-48.5	99.9	256.6	24.2	23.6	5.6	386.5	999.9	99.9	999.9	34.8	90.
30.0	123.7	15285.2	125.0	-51.7	99.9	262.7	20.4	20.2	2.6	401.3	999.9	99.9	999.9	38.1	89.
32.9	131.3	16721.6	100.0	-55.4	99.9	999.9	99.9	99.9	99.9	420.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

24 JULY 1981
2042 GMT

127 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.8	803.0	924.9	21.9	13.0	330.0	5.0	2.5	-4.3	301.7	329.5	10.3	57.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.9	17.3	1038.7	900.0	19.0	12.0	347.7	7.6	1.6	-7.4	301.1	327.8	9.8	63.7	0.3	150.
1.4	20.0	1280.2	875.0	16.9	11.5	350.7	8.9	1.4	-8.8	301.4	327.9	9.8	70.2	0.6	160.
1.9	22.5	1526.6	850.0	14.0	10.0	345.1	8.8	2.3	-8.5	300.8	325.6	9.1	77.1	0.9	163.
2.5	25.1	1778.0	825.0	12.1	10.1	332.5	8.1	3.8	-7.2	301.4	327.1	9.5	87.5	1.2	162.
3.2	27.9	2035.3	800.0	9.2	8.5	312.9	8.4	6.2	-5.7	301.0	324.8	8.7	95.2	1.5	158.
3.8	30.5	2298.0	775.0	7.0	6.3	297.8	9.6	8.5	-4.5	301.3	322.7	7.8	95.5	1.8	152.
4.4	33.3	2567.4	750.0	4.4	4.0	288.9	10.9	10.3	-3.5	301.4	320.3	6.9	97.8	2.1	146.
5.1	36.2	2843.3	725.0	2.9	2.2	283.8	12.2	11.9	-2.9	302.7	320.1	6.2	95.3	2.4	139.
6.0	39.1	3126.9	700.0	1.5	0.8	284.4	13.9	13.5	-3.5	304.1	320.6	5.8	95.6	3.1	131.
6.9	42.0	3419.2	675.0	-0.4	-3.0	280.6	15.9	15.7	-2.9	305.2	318.3	4.6	83.0	3.8	125.
7.7	45.0	3720.1	650.0	-2.3	-6.7	278.0	16.8	16.7	-2.3	306.3	316.8	3.6	72.1	4.5	121.
8.5	48.1	4030.6	625.0	-4.3	-11.6	277.6	18.0	17.9	-2.4	307.6	315.2	2.5	57.0	5.3	117.
9.3	51.3	4351.5	600.0	-5.6	-31.8	277.4	19.6	19.4	-2.5	309.6	311.4	0.5	12.6	6.1	115.
10.2	54.4	4684.1	575.0	-7.3	-39.1	277.0	21.4	21.3	-2.6	311.5	312.3	0.2	6.0	7.2	112.
11.1	57.6	5029.2	550.0	-9.2	-51.9	275.5	22.5	22.4	-2.2	313.2	313.4	0.1	1.6	8.3	110.
12.0	60.9	5387.1	525.0	-11.1	-55.3	273.8	21.8	21.7	-1.4	315.1	315.2	0.0	1.4	9.5	108.
12.7	64.1	5760.2	500.0	-13.3	-58.4	271.1	19.7	19.7	-0.4	316.8	316.9	0.0	1.0	10.4	107.
13.6	67.4	6148.6	475.0	-16.1	-60.1	269.5	19.4	19.4	0.2	318.0	318.1	0.0	1.0	11.3	105.
14.5	70.9	6553.3	450.0	-19.1	-62.1	269.6	20.5	20.5	0.2	319.2	319.3	0.0	1.0	12.4	104.
15.3	74.4	6976.0	425.0	-22.4	-64.2	269.8	22.0	22.0	0.1	320.3	320.4	0.0	1.0	13.4	103.
16.3	78.0	7417.5	400.0	-26.4	-66.8	271.1	24.4	24.4	-0.5	320.7	320.8	0.0	1.0	14.7	101.
17.3	81.9	7881.1	375.0	-30.5	-69.5	271.1	24.2	24.2	-0.5	321.3	321.3	0.0	1.0	16.2	101.
18.4	85.7	8367.1	350.0	-34.2	-71.9	267.6	24.7	24.6	1.0	322.7	322.7	0.0	1.0	17.8	100.
19.7	89.7	8881.4	325.0	-38.2	-71.4	265.3	25.1	25.0	2.0	324.0	324.0	0.0	1.7	19.7	98.
20.9	93.7	9427.5	300.0	-42.2	99.9	263.0	29.8	29.6	3.6	325.9	999.9	99.9	999.9	21.6	97.
22.2	98.0	10011.2	275.0	-45.6	99.9	259.9	36.3	35.7	6.4	329.2	999.9	99.9	999.9	23.9	95.
23.5	102.6	10643.4	250.0	-48.0	99.9	255.1	40.1	38.7	10.3	334.8	999.9	99.9	999.9	26.8	93.
24.9	107.3	11334.9	225.0	-49.9	99.9	255.1	38.8	37.5	10.0	342.0	999.9	99.9	999.9	30.1	91.
26.4	112.4	12106.1	200.0	-49.4	99.9	260.0	34.5	34.0	6.0	354.5	999.9	99.9	999.9	33.1	90.
27.8	117.7	12980.8	175.0	-47.9	99.9	262.5	32.9	32.6	4.3	370.8	999.9	99.9	999.9	36.2	89.
29.8	123.7	14000.1	150.0	-48.2	99.9	265.3	30.5	30.4	2.5	387.0	999.9	99.9	999.9	39.7	89.
31.3	130.2	15186.4	125.0	-53.0	99.9	263.0	31.7	31.5	3.8	399.1	999.9	99.9	999.9	42.9	89.
34.0	137.3	16616.2	100.0	-56.0	99.9	999.9	99.9	99.9	99.9	421.6	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

24 JULY 1981
2340 GMT

121 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.1	803.0	925.7	22.6	-4.5	350.0	3.0	0.5	-3.0	302.4	311.0	3.0	16.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	14.2	809.6	925.0	22.4	-3.4	350.4	3.3	0.6	-3.2	302.2	312.0	3.4	18.9	0.0	11.
0.9	16.6	1045.8	900.0	18.2	10.0	350.7	6.4	1.0	-6.3	300.3	323.7	8.6	58.8	0.2	164.
1.5	19.1	1286.2	875.0	15.6	9.4	344.0	6.1	1.7	-5.9	300.0	323.1	8.5	66.6	0.5	164.
2.2	21.6	1531.6	850.0	13.3	9.2	340.9	8.3	2.7	-7.9	300.0	323.6	8.7	76.6	0.8	165.
2.8	24.2	1782.1	825.0	10.8	8.4	322.6	9.1	5.5	-7.3	300.0	322.9	8.4	85.3	1.1	163.
3.5	26.8	2038.9	800.0	9.7	5.2	298.6	9.5	8.3	-4.5	301.5	320.8	7.0	73.8	1.4	154.
4.1	29.3	2302.5	775.0	8.6	3.8	295.8	11.3	10.2	-4.9	303.1	321.3	6.5	71.7	1.7	147.
4.8	32.0	2573.2	750.0	7.0	1.9	289.8	13.7	12.9	-4.7	304.2	320.8	5.9	69.7	2.2	139.
5.5	34.7	2851.4	725.0	4.9	0.4	284.0	13.6	13.2	-3.3	304.8	320.3	5.4	72.6	2.7	132.
6.2	37.4	3137.1	700.0	3.1	-1.8	284.4	15.3	14.8	-3.8	305.9	319.8	4.8	70.2	3.3	127.
6.9	40.1	3431.5	675.0	1.9	-5.7	280.9	17.0	16.7	-3.2	307.8	318.8	3.7	56.9	3.9	123.
7.7	43.0	3734.6	650.0	-0.7	-9.0	277.9	18.2	18.0	-2.5	308.2	317.1	3.0	53.4	4.7	119.
8.4	45.8	4046.7	625.0	-3.2	-16.3	278.4	18.7	18.5	-2.7	308.8	314.1	1.7	35.9	5.5	116.
9.3	48.8	4369.0	600.0	-4.7	-21.5	281.0	18.5	18.2	-3.5	310.7	314.3	1.1	25.4	6.4	113.
10.0	51.7	4701.3	575.0	-7.2	-24.9	282.9	18.1	17.6	-4.0	311.6	314.5	0.9	22.8	7.1	112.
10.8	54.6	5047.5	550.0	-9.1	-28.3	282.9	18.7	18.2	-4.2	313.3	315.5	0.7	19.2	8.0	111.
11.6	57.8	5405.4	525.0	-12.1	-31.3	283.7	18.9	18.6	-3.5	313.8	315.6	0.5	18.4	8.9	110.
12.6	60.9	5776.7	500.0	-14.5	-37.2	278.3	19.1	18.9	-2.8	315.4	316.4	0.3	12.4	10.0	109.
13.4	64.1	6163.3	475.0	-17.2	-38.7	275.0	18.8	18.8	-1.7	316.7	317.6	0.3	13.4	11.0	108.
14.5	67.4	6567.4	450.0	-19.3	-42.4	275.2	20.5	20.5	-1.8	319.0	319.7	0.2	10.7	12.1	107.
15.4	70.9	6989.3	425.0	-22.9	-44.6	276.5	22.9	22.7	-2.6	319.7	320.3	0.2	11.7	13.4	106.
16.5	74.3	7430.5	400.0	-26.6	-46.8	273.8	23.2	23.1	-1.5	320.4	320.9	0.1	12.7	14.8	105.
17.6	77.9	7892.9	375.0	-30.3	-48.7	272.1	23.6	23.6	-0.9	321.5	322.0	0.1	14.5	16.3	104.
18.7	81.6	8379.7	350.0	-34.1	-49.4	270.8	24.6	24.6	-0.4	322.6	323.2	0.1	19.5	17.8	102.
19.7	85.4	8894.0	325.0	-38.3	-53.2	269.3	27.0	27.0	0.3	323.9	324.2	0.1	18.7	19.4	102.
20.8	89.3	9439.9	300.0	-42.2	99.9	265.2	31.5	31.3	2.6	325.9	999.9	99.9	999.9	21.3	100.
22.0	93.5	10020.2	275.0	-45.9	99.9	260.4	40.1	39.5	6.7	328.8	999.9	99.9	999.9	23.8	98.
23.3	97.8	10654.1	250.0	-48.0	99.9	255.1	42.4	40.9	10.9	334.7	999.9	99.9	999.9	26.8	96.
24.7	102.4	11344.3	225.0	-50.4	99.9	255.3	40.9	39.6	10.4	341.3	999.9	99.9	999.9	30.0	93.
26.2	107.2	12117.5	200.0	-48.4	99.9	256.7	36.1	35.1	8.3	356.2	999.9	99.9	999.9	33.3	92.
27.8	112.4	12994.2	175.0	-49.4	99.9	262.5	32.1	31.8	4.2	368.4	999.9	99.9	999.9	36.5	90.
29.8	118.0	13998.8	150.0	-51.0	99.9	263.2	22.6	22.5	2.7	382.3	999.9	99.9	999.9	39.9	90.
33.0	124.2	15182.8	125.0	-52.7	99.9	257.9	19.8	19.3	4.1	399.6	999.9	99.9	999.9	43.4	89.
36.3	131.0	16614.3	100.0	-55.8	99.9	253.8	21.0	20.2	5.8	419.9	999.9	99.9	999.9	47.6	88.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

25 JULY 1981
240 GMT

126 85. 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 PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.3	803.0	926.5	17.7	11.0	360.0	0.0	0.0	0.0	297.2	321.3	9.0	65.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	14.5	820.6	925.0	17.8	10.9	270.4	1.4	1.4	-0.0	297.5	321.4	8.9	64.2	0.0	311.
0.7	17.0	1054.8	900.0	16.7	8.6	29.9	5.2	-2.6	-4.5	298.8	320.1	7.9	58.7	0.2	190.
1.3	19.7	1294.1	875.0	14.5	8.2	20.5	5.6	-2.0	-5.3	298.9	320.2	7.9	66.1	0.4	197.
2.0	22.3	1538.5	850.0	12.4	7.9	14.6	5.8	-1.5	-5.6	299.1	320.6	7.9	74.1	0.6	198.
2.6	25.2	1788.2	825.0	9.9	8.5	12.4	6.0	-1.3	-5.8	299.1	322.0	8.5	90.6	0.8	196.
3.2	27.7	2043.7	800.0	8.2	7.0	1.0	6.2	-0.1	-6.2	299.9	321.4	7.9	91.9	1.1	195.
3.9	30.4	2305.9	775.0	6.9	5.3	347.3	6.4	1.4	-6.2	301.2	321.2	7.2	89.6	1.3	191.
4.5	33.2	2575.2	750.0	5.6	2.0	337.8	6.7	2.5	-6.2	302.6	319.1	5.9	77.6	1.5	187.
5.2	36.1	2852.3	725.0	4.2	0.2	314.0	7.9	5.7	-5.5	304.1	319.3	5.4	75.9	1.8	181.
5.9	38.9	3137.4	700.0	2.3	-1.1	300.2	9.4	8.1	-4.7	305.1	319.5	5.1	78.4	2.0	172.
6.7	41.9	3430.9	675.0	0.7	-2.7	297.9	11.4	10.0	-5.3	306.4	319.9	4.7	78.3	2.3	163.
7.3	44.8	3733.4	650.0	-1.4	-7.0	293.3	12.6	11.5	-5.0	307.3	317.7	3.5	65.9	2.6	156.
7.9	47.7	4045.3	625.0	-2.6	-29.9	286.5	13.3	12.7	-3.8	309.5	311.1	0.5	10.0	3.0	148.
8.6	50.8	4367.6	600.0	-4.5	-33.0	286.1	14.9	14.3	-4.1	310.9	312.3	0.4	8.7	3.4	142.
9.4	53.9	4701.0	575.0	-6.8	-35.3	286.7	16.7	16.0	-4.8	312.1	313.2	0.3	8.1	4.0	136.
10.1	57.3	5046.5	550.0	-8.9	-35.5	284.4	17.0	16.4	-4.2	313.5	314.7	0.3	9.4	4.7	131.
11.0	60.3	5404.6	525.0	-12.1	-37.0	283.5	17.1	16.6	-4.0	313.9	315.0	0.3	10.4	5.5	127.
11.9	63.6	5775.9	500.0	-14.5	-40.4	282.8	16.9	16.5	-3.7	315.4	316.2	0.2	8.8	6.3	124.
12.8	67.0	6162.7	475.0	-16.9	-44.8	281.8	17.6	17.2	-3.6	317.0	317.5	0.1	6.8	7.3	121.
13.6	70.4	6566.7	450.0	-19.7	-45.7	280.3	17.6	17.3	-3.1	318.5	319.0	0.1	7.7	8.1	119.
14.5	74.0	6988.4	425.0	-22.7	-47.0	280.0	19.1	18.8	-3.3	319.9	320.3	0.1	8.8	9.0	117.
15.5	77.6	7430.1	400.0	-26.1	-48.4	278.1	20.6	20.4	-2.9	321.1	321.5	0.1	10.2	10.1	115.
16.5	81.3	7893.5	375.0	-29.7	-48.1	274.9	21.5	21.4	-1.8	322.3	322.7	0.1	14.8	11.2	113.
17.4	85.2	8381.6	350.0	-33.4	-48.9	269.9	22.3	22.3	0.1	323.7	324.2	0.1	19.3	12.5	111.
18.5	89.2	8898.2	325.0	-37.2	-51.9	264.9	25.7	25.6	2.3	325.4	325.7	0.1	19.9	13.9	108.
19.6	93.5	9445.8	300.0	-41.9	99.9	258.1	29.2	28.6	6.0	326.3	999.9	99.9	999.9	15.6	105.
20.8	97.8	10030.3	275.0	-46.1	99.9	255.3	34.6	33.5	8.8	328.5	999.9	99.9	999.9	17.4	102.
21.8	102.2	10658.7	250.0	-49.8	99.9	252.8	39.3	37.6	11.6	332.0	999.9	99.9	999.9	19.6	99.
23.0	107.2	11343.3	225.0	-52.4	99.9	252.6	39.3	37.5	11.8	338.2	999.9	99.9	999.9	22.2	95.
24.5	112.2	12105.0	200.0	-51.2	99.9	258.2	37.9	37.1	7.7	351.7	999.9	99.9	999.9	25.4	93.
26.1	117.6	12973.8	175.0	-52.0	99.9	263.7	32.9	32.7	3.6	364.1	999.9	99.9	999.9	28.8	91.
28.0	123.2	13974.5	150.0	-51.7	99.9	264.4	26.6	26.5	2.6	381.0	999.9	99.9	999.9	32.2	91.
30.2	129.5	15151.4	125.0	-53.0	99.9	263.1	19.4	19.2	2.3	399.1	999.9	99.9	999.9	35.1	90.
33.3	136.0	16577.9	100.0	-56.6	99.9	999.9	99.9	99.9	99.9	418.3	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

24 JULY 1981
1740 GMT

123 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.5	903.0	914.1	23.2	12.5	340.0	4.0	1.4	-3.8	304.1	331.6	10.0	51.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.9	1237.9	900.0	20.0	11.1	315.1	4.7	3.3	-3.3	302.1	327.5	9.3	56.6	0.2	152.
1.0	19.6	1283.0	875.0	17.6	10.0	319.9	5.3	3.4	-4.1	302.1	326.2	8.8	61.0	0.3	145.
1.6	22.2	1527.1	850.0	15.3	9.9	326.9	6.9	3.8	-5.8	302.2	327.0	9.1	70.2	0.6	146.
2.2	24.9	1779.5	825.0	12.9	7.8	322.5	8.6	5.3	-6.9	302.2	324.5	8.1	71.3	0.8	146.
2.8	27.6	2037.8	800.0	11.8	3.4	310.3	11.1	8.5	-7.2	303.8	321.1	6.2	56.5	1.2	144.
3.5	30.3	2303.5	775.0	10.9	0.8	296.3	12.3	11.0	-5.4	305.5	320.5	5.3	49.7	1.7	139.
4.1	33.1	2576.3	750.0	8.8	0.5	294.9	13.5	12.3	-5.7	306.2	321.4	5.3	56.1	2.1	132.
4.7	35.9	2856.2	725.0	6.8	0.6	294.7	12.7	11.6	-5.3	306.9	322.8	5.5	64.7	2.6	129.
5.4	38.7	3143.9	700.0	4.8	-1.4	283.4	11.7	11.3	-2.7	307.8	322.1	5.0	64.1	3.0	127.
6.2	41.6	3439.6	675.0	2.8	-4.7	274.3	13.5	13.4	-1.0	308.8	320.6	4.0	57.7	3.6	122.
6.9	44.4	3744.5	650.0	1.7	-8.5	272.6	14.7	14.6	-0.7	311.0	320.3	3.1	46.5	4.1	117.
7.8	47.4	4059.4	625.0	-0.7	-10.4	276.2	15.5	15.4	-1.7	311.7	320.1	2.8	47.6	4.9	114.
8.7	50.5	4384.1	600.0	-3.5	-11.4	278.9	17.3	17.1	-2.7	312.1	320.3	2.7	54.2	5.7	111.
9.6	53.6	4719.2	575.0	-6.0	-11.9	276.1	19.4	19.3	-2.0	313.0	321.2	2.7	63.1	6.7	109.
10.4	56.8	5065.7	550.0	-8.9	-12.6	272.9	21.1	21.1	-1.1	313.5	321.6	2.6	74.2	7.7	107.
11.2	60.0	5424.3	525.0	-11.5	-13.4	268.2	20.2	20.2	0.6	314.6	322.6	2.6	85.4	8.6	106.
12.2	63.3	5796.8	500.0	-14.5	-15.1	263.9	20.0	19.8	2.1	315.3	322.7	2.4	95.6	9.7	103.
13.0	66.7	6183.6	475.0	-17.5	-18.1	264.4	20.5	20.4	2.0	316.4	322.5	1.9	94.5	10.7	101.
13.9	70.1	6586.5	450.0	-20.3	-23.7	266.8	21.5	21.5	1.2	317.8	321.9	1.3	74.1	11.8	100.
14.8	73.7	7008.0	425.0	-23.2	-27.3	268.4	21.1	21.1	0.6	319.3	322.5	1.0	68.7	12.9	99.
15.9	77.3	7449.2	400.0	-26.4	-35.6	271.8	24.1	24.1	-0.8	320.8	322.3	0.5	41.3	14.3	98.
16.9	81.0	7912.0	375.0	-30.0	-41.1	272.6	26.9	26.9	-1.2	321.9	322.9	0.3	32.8	15.8	97.
18.1	86.0	8398.5	350.0	-34.4	-45.9	270.3	28.4	28.4	-0.2	322.4	323.0	0.2	29.7	17.8	97.
19.2	89.0	8913.4	325.0	-37.4	-51.5	270.4	34.0	34.0	-0.2	325.2	325.6	0.1	21.1	19.8	96.
20.4	93.2	9462.8	300.0	-40.4	99.9	273.5	34.7	34.6	-2.1	328.4	999.9	99.9	999.9	22.5	96.
21.9	97.5	10051.3	275.0	-43.9	99.9	265.5	34.1	34.0	2.7	331.7	999.9	99.9	999.9	25.5	95.
23.3	102.0	10685.5	250.0	-47.8	99.9	258.7	34.1	33.4	6.7	335.0	999.9	99.9	999.9	28.1	94.
24.7	106.4	11379.6	225.0	-48.5	99.9	258.4	42.8	42.0	8.6	344.2	999.9	99.9	999.9	31.4	92.
26.3	111.8	12152.8	200.0	-49.8	99.9	261.3	39.3	38.8	6.0	354.0	999.9	99.9	999.9	35.3	91.
28.3	117.0	13021.1	175.0	-51.7	99.9	261.5	36.2	35.8	5.4	364.5	999.9	99.9	999.9	39.6	90.
30.6	122.7	14016.8	150.0	-51.9	99.9	253.3	29.5	28.3	8.5	380.7	999.9	99.9	999.9	44.2	88.
32.4	128.7	15195.3	125.0	-53.8	99.9	266.6	20.5	20.4	1.2	397.6	999.9	99.9	999.9	48.1	88.
36.1	135.0	16617.6	100.0	-58.6	99.9	999.9	99.9	99.9	99.9	414.5	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

24 JULY 1981
2349 GMT

122 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.3	903.0	914.9	22.3	12.8	5.0	4.0	-0.3	-4.0	303.1	331.0	10.3	55.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.9	1045.7	900.0	20.8	11.6	1.8	4.7	-0.1	-4.7	303.0	329.3	9.6	55.4	0.2	208.
0.9	19.4	1288.8	875.0	18.7	10.7	1.4	5.5	-0.1	-5.5	303.2	328.6	9.3	59.7	0.4	200.
1.6	22.0	1536.8	850.0	16.1	9.9	355.3	6.5	0.5	-6.5	303.0	328.0	9.1	66.7	0.6	193.
2.3	24.7	1790.3	825.0	13.6	9.6	348.4	7.1	1.4	-6.9	303.0	328.1	9.1	76.3	0.9	186.
3.0	27.4	2049.2	800.0	11.4	8.6	343.3	6.5	2.9	-5.8	303.3	327.6	8.8	83.0	1.2	180.
3.7	30.1	2314.1	775.0	9.3	7.5	342.5	6.1	4.5	-4.1	303.8	327.2	8.5	88.8	1.4	174.
4.5	32.9	2585.6	750.0	7.0	5.5	291.6	8.8	8.2	-3.2	304.2	325.4	7.6	90.1	1.6	167.
5.2	35.7	2864.6	725.0	5.3	2.8	296.5	9.3	8.4	-4.2	306.3	324.7	6.5	78.6	1.9	154.
6.0	38.5	3152.1	700.0	4.8	-0.7	298.0	10.9	9.6	-5.1	307.8	322.8	5.2	67.2	2.3	149.
6.7	41.4	3448.3	675.0	3.3	-2.7	286.2	13.7	13.1	-3.8	309.4	323.0	4.7	64.6	2.7	142.
7.5	44.3	3753.8	650.0	1.4	-4.3	276.0	14.4	14.3	-1.5	310.6	323.2	4.3	65.4	3.3	134.
8.3	47.3	4068.7	625.0	-1.7	-5.6	270.1	15.4	15.4	-0.0	310.5	322.5	4.0	74.2	3.8	127.
9.1	50.3	4393.6	600.0	-3.6	-6.6	266.2	16.1	16.0	1.1	312.0	323.6	3.9	79.3	4.4	121.
9.9	53.4	4727.8	575.0	-6.3	-8.2	265.8	16.5	16.4	1.2	312.6	323.4	3.6	86.6	5.0	116.
10.6	56.3	5074.0	550.0	-9.2	-10.1	270.4	17.3	17.3	-0.1	313.2	323.0	3.2	93.3	5.7	112.
11.3	59.5	5432.6	525.0	-11.5	-12.1	274.0	18.8	18.8	-1.3	314.6	323.4	2.9	95.4	6.5	110.
12.1	62.8	5806.0	500.0	-13.2	-18.1	277.0	21.2	21.1	-2.6	316.9	322.9	1.9	68.2	7.3	108.
12.9	66.1	6190.5	475.0	-18.8	-44.2	280.3	24.4	24.1	-4.4	314.7	315.3	0.2	8.5	8.5	107.
13.9	69.5	6592.3	450.0	-20.5	-38.2	283.0	26.2	25.5	-5.9	317.5	318.6	0.3	18.7	10.0	106.
15.0	73.0	7012.5	425.0	-23.4	-40.7	283.8	27.5	26.7	-6.6	319.0	319.9	0.2	18.5	11.7	106.
16.0	76.7	7452.9	400.0	-26.7	-46.0	278.9	27.7	27.3	-4.3	320.3	320.9	0.2	14.2	13.4	105.
17.1	80.4	7916.6	375.0	-29.5	-50.9	272.8	31.2	31.1	-1.5	322.6	323.0	0.1	10.4	15.3	104.
18.2	84.3	8406.9	350.0	-32.5	-51.4	267.4	35.9	35.9	1.6	325.0	325.4	0.1	13.1	17.4	102.
19.3	88.2	8924.8	325.0	-36.0	-54.3	261.3	39.4	39.0	6.0	327.1	327.7	0.1	13.1	19.9	100.
20.6	92.3	9476.4	300.0	-39.7	99.9	257.0	43.5	42.4	9.8	329.4	999.9	99.9	999.9	22.8	97.
21.9	96.5	10066.8	275.0	-43.6	99.9	252.0	47.7	45.4	14.7	332.1	999.9	99.9	999.9	26.1	94.
23.1	101.0	10699.8	250.0	-48.6	99.9	250.4	45.9	43.3	15.4	333.8	999.9	99.9	999.9	29.2	91.
24.7	105.6	11386.5	225.0	-51.5	99.9	254.7	48.7	47.0	12.8	339.5	999.9	99.9	999.9	33.7	89.
26.7	110.6	12165.7	200.0	-49.2	99.9	259.5	44.9	44.1	8.2	354.8	999.9	99.9	999.9	39.1	87.
29.0	115.8	13037.5	175.0	-50.7	99.9	265.8	39.5	39.4	2.9	366.3	999.9	99.9	999.9	45.2	87.
32.1	121.4	14038.2	150.0	-52.4	99.9	263.0	30.3	30.1	3.7	379.8	999.9	99.9	999.9	51.3	87.
35.3	127.4	15205.5	125.0	-53.7	99.9	263.6	23.1	22.9	2.6	397.8	999.9	99.9	999.9	56.2	86.
38.9	133.7	16629.4	100.0	-59.5	99.9	999.9	99.9	99.9	99.9	412.7	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

25 JULY 1981
240 GMT

117 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.6	903.0	916.2	17.3	12.0	5.0	2.0	-0.2	-2.0	297.8	323.7	9.7	71.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	17.1	1055.3	900.0	16.8	8.1	352.1	5.1	0.7	-5.0	298.9	319.5	7.6	56.5	0.2	192.
1.0	19.5	1296.2	875.0	15.4	7.2	345.7	5.0	1.2	-4.9	299.8	319.9	7.3	58.1	0.4	184.
1.6	22.0	1540.0	850.0	12.7	5.4	332.9	4.9	2.2	-4.3	299.4	317.7	6.7	61.3	0.5	176.
2.2	24.5	1792.3	825.0	10.7	4.4	319.1	5.1	3.4	-3.9	299.9	317.5	6.4	65.1	0.7	169.
2.8	27.0	2046.2	800.0	8.9	2.8	306.6	5.9	4.8	-3.5	300.7	317.0	5.9	65.3	0.9	161.
3.4	29.6	2309.0	775.0	7.4	2.6	295.7	6.5	5.8	-2.8	301.7	318.5	6.0	71.9	1.1	153.
4.1	32.2	2578.5	750.0	5.4	1.9	276.2	9.1	9.1	-1.0	302.5	318.9	5.9	78.0	1.3	145.
4.7	34.8	2855.1	725.0	3.6	0.3	264.0	9.8	9.5	-2.4	303.4	318.7	5.4	79.2	1.6	131.
5.4	37.4	3139.4	700.0	1.3	-1.5	258.0	10.4	9.9	-3.2	304.0	318.0	4.9	81.6	2.0	127.
6.1	40.1	3431.4	675.0	-0.7	-2.3	257.2	11.1	10.6	-3.3	304.9	318.6	4.8	89.3	2.4	123.
6.9	42.9	3730.5	650.0	-2.2	-6.0	256.0	12.3	11.8	-3.4	306.5	317.5	3.8	75.0	2.9	120.
7.7	45.7	4043.3	625.0	-4.3	-5.7	253.7	13.8	13.4	-3.3	307.6	319.3	4.0	89.3	3.5	118.
8.5	48.5	4364.0	600.0	-7.0	-8.1	251.0	15.1	14.8	-2.9	308.1	318.3	3.5	91.8	4.2	115.
9.5	51.4	4695.2	575.0	-8.9	-22.5	250.5	15.6	15.3	-2.8	309.5	313.9	1.4	42.0	5.1	112.
10.4	54.4	5032.4	550.0	-10.8	-28.5	252.7	16.0	15.6	-3.5	311.3	313.5	0.7	21.6	5.9	111.
11.4	57.3	5394.5	525.0	-12.9	-35.7	254.8	18.1	17.5	-4.6	312.9	314.1	0.3	12.7	6.9	110.
12.3	60.4	5764.9	500.0	-15.3	-34.9	254.9	20.7	20.0	-5.3	314.4	315.9	0.4	18.1	8.0	109.
13.2	63.4	6150.4	475.0	-18.0	-32.3	253.7	22.2	21.6	-5.2	315.7	317.6	0.5	27.7	9.2	109.
14.2	66.5	6552.5	450.0	-20.9	-38.9	253.6	21.9	21.3	-5.2	317.0	318.1	0.3	18.0	10.5	108.
15.2	69.9	6972.0	425.0	-24.3	-43.0	253.9	23.5	22.8	-5.6	317.9	318.6	0.2	15.6	11.7	107.
16.2	73.3	7411.4	400.0	-27.1	-55.2	252.6	27.7	27.1	-6.0	319.8	320.0	0.1	4.9	13.3	107.
17.3	76.9	7873.7	375.0	-29.6	-50.1	278.4	33.4	33.0	-4.9	322.4	322.8	0.1	11.9	15.2	106.
18.4	80.4	8363.2	350.0	-32.6	-48.7	271.1	35.2	35.2	-0.7	324.8	325.3	0.1	18.2	17.6	105.
19.7	84.2	8880.6	325.0	-36.2	-51.1	264.3	38.2	38.0	3.8	326.7	327.1	0.1	19.8	20.2	102.
20.9	88.0	9431.0	300.0	-40.2	99.9	260.2	46.4	45.7	7.9	328.8	999.9	99.9	999.9	23.2	100.
22.1	92.2	10018.1	275.0	-45.3	99.9	255.0	49.0	46.3	12.5	329.7	999.9	99.9	999.9	26.5	97.
23.5	96.4	10646.7	250.0	-50.5	99.9	251.9	49.8	47.3	15.4	331.0	999.9	99.9	999.9	30.0	94.
24.9	100.8	11317.1	225.0	-54.6	99.9	255.5	49.2	47.6	12.3	334.9	999.9	99.9	999.9	34.4	91.
26.6	105.6	12034.5	200.0	-52.0	99.9	258.7	45.1	44.2	8.8	350.4	999.9	99.9	999.9	39.0	89.
28.1	110.8	12949.5	175.0	-52.5	99.9	262.1	41.4	41.0	5.7	363.3	999.9	99.9	999.9	45.3	86.
31.9	116.4	13944.2	150.0	-53.7	99.9	260.5	27.5	27.1	4.5	377.6	999.9	99.9	999.9	51.3	87.
35.5	122.3	15110.4	125.0	-55.7	99.9	263.0	23.7	23.5	2.9	394.2	999.9	99.9	999.9	56.2	87.
39.0	129.0	16515.5	100.0	-61.0	99.9	999.9	99.9	99.9	99.9	409.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

24 JULY 1981
1749 GMT

119 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.4	954.0	910.1	21.4	12.5	360.0	2.0	0.0	-2.0	302.6	330.1	10.1	57.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.3	1050.4	900.0	18.8	9.5	291.7	11.9	11.1	-4.4	300.9	323.7	8.4	54.9	0.2	231.
0.8	18.6	1291.4	875.0	16.0	8.9	293.8	10.0	9.1	-4.0	300.5	322.9	8.2	62.5	0.2	173.
1.4	21.0	1537.1	850.0	14.1	7.8	306.9	8.0	6.4	-4.8	300.9	322.5	7.9	64.2	0.4	140.
2.0	23.4	1788.7	825.0	12.3	6.9	318.5	8.8	5.8	-6.6	301.6	322.5	7.6	69.4	0.8	139.
2.6	25.8	2046.1	800.0	10.3	5.6	315.2	9.7	6.8	-6.9	302.2	322.0	7.2	72.3	1.1	135.
3.2	28.3	2310.0	775.0	8.9	3.5	303.0	10.1	8.5	-5.5	303.4	321.4	6.4	69.4	1.4	131.
3.8	30.8	2581.7	750.0	7.9	-0.1	294.2	10.1	9.2	-4.1	305.2	319.7	5.1	56.9	1.8	133.
4.5	33.3	2860.4	725.0	5.6	-0.9	292.2	10.3	9.5	-3.9	305.7	319.9	5.0	63.0	2.2	128.
5.2	36.0	3146.5	700.0	3.4	-2.1	288.7	11.1	10.5	-3.6	306.2	319.8	4.7	67.5	2.6	126.
5.9	38.6	3441.2	675.0	1.8	-4.2	284.6	12.6	12.2	-3.2	307.7	319.9	4.2	64.2	3.1	123.
6.7	41.2	3745.1	650.0	0.5	-11.7	281.1	13.1	12.9	-2.5	309.6	316.9	2.4	39.4	3.7	119.
7.5	44.0	4058.8	625.0	-1.4	-13.8	281.7	14.4	14.1	-2.9	310.9	317.4	2.1	37.9	4.3	117.
8.3	46.9	4382.8	600.0	-3.8	-14.4	279.1	15.8	15.6	-2.5	311.8	318.2	2.1	43.5	5.0	114.
9.2	49.8	4719.1	575.0	-6.2	-12.2	271.0	17.2	17.2	-0.3	312.7	320.7	2.6	62.8	5.8	112.
10.1	52.4	5064.5	550.0	-8.9	-11.7	261.2	18.1	17.8	2.8	313.6	322.2	2.8	79.9	6.7	109.
11.0	55.4	5423.3	525.0	-11.8	-14.1	260.0	20.2	19.9	3.5	314.2	321.8	2.4	82.9	7.7	104.
11.8	58.5	5795.2	500.0	-15.2	-18.2	263.4	20.9	20.8	2.4	314.5	320.3	1.8	77.7	8.6	101.
12.8	61.6	6180.8	475.0	-18.9	-32.8	264.9	21.7	21.7	1.9	314.6	316.3	0.5	27.9	9.8	100.
13.7	64.8	6583.3	450.0	-20.3	-42.5	263.2	24.3	24.1	2.9	317.7	318.5	0.2	11.9	11.0	99.
14.6	68.0	7003.9	425.0	-23.6	-52.7	262.4	25.1	24.8	3.3	318.8	319.1	0.1	4.8	12.3	96.
15.6	71.4	7444.2	400.0	-26.8	-32.8	264.2	26.7	26.5	2.7	320.2	322.2	0.6	56.5	13.8	95.
16.7	75.0	7906.6	375.0	-30.3	-37.8	267.3	26.9	26.8	1.3	321.5	322.9	0.4	47.2	15.5	94.
17.7	78.6	8394.1	350.0	-34.1	-45.5	268.5	27.8	27.8	0.7	322.8	323.5	0.2	39.1	17.1	93.
18.9	82.4	8909.9	325.0	-37.3	-61.1	269.3	32.8	32.8	0.4	325.2	325.4	0.0	6.4	19.1	93.
20.0	86.3	9458.1	300.0	-40.8	99.9	267.1	38.0	37.9	1.9	327.8	999.9	99.9	999.9	21.5	92.
21.3	90.5	10045.1	275.0	-44.8	99.9	263.1	37.6	37.4	4.5	330.3	999.9	99.9	999.9	24.8	91.
22.6	94.8	10676.3	250.0	-48.7	99.9	257.7	39.0	38.1	8.3	333.7	999.9	99.9	999.9	27.6	90.
24.2	99.5	11369.2	225.0	-49.1	99.9	255.9	42.9	41.6	10.4	343.3	999.9	99.9	999.9	31.4	88.
26.1	104.6	12143.1	200.0	-48.9	99.9	257.3	39.2	38.2	8.6	355.4	999.9	99.9	999.9	36.1	87.
28.2	110.0	13014.2	175.0	-50.9	99.9	256.9	34.4	33.5	7.8	365.9	999.9	99.9	999.9	40.6	86.
30.7	115.7	14013.2	150.0	-52.1	99.9	256.2	27.8	27.0	6.6	380.3	999.9	99.9	999.9	45.1	85.
33.6	122.2	15191.2	125.0	-53.8	99.9	254.7	18.8	18.2	5.0	397.6	999.9	99.9	999.9	49.5	84.
36.5	129.7	16617.1	100.0	-57.6	99.9	999.9	99.9	99.9	99.9	416.5	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

24 JULY 1981
2040 GMT

120 92. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.5	954.0	909.6	25.3	11.1	360.0	2.0	0.0	-2.0	306.7	332.2	9.2	41.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.4	1046.6	900.0	21.8	10.5	273.4	4.7	4.7	-0.3	303.7	328.3	8.9	49.5	0.3	171.
0.9	20.3	1289.6	875.0	18.7	9.2	298.2	5.3	4.7	-2.5	303.2	326.4	8.4	53.9	0.3	149.
1.7	22.6	1537.9	850.0	16.5	8.1	322.1	6.8	4.2	-5.3	303.4	325.6	8.0	57.4	0.6	145.
2.3	25.1	1791.3	825.0	14.2	7.1	323.5	6.7	4.0	-5.4	303.6	324.9	7.7	62.3	0.9	145.
3.0	27.8	2050.4	800.0	11.7	6.0	319.8	7.7	4.9	-5.8	303.7	324.1	7.4	67.8	1.1	144.
3.6	30.3	2315.5	775.0	9.5	5.9	316.8	7.6	5.2	-5.5	304.1	325.2	7.6	78.4	1.4	143.
4.2	33.1	2587.0	750.0	7.3	4.2	309.6	7.2	5.6	-4.6	304.5	324.0	6.9	80.8	1.7	141.
4.8	35.8	2866.8	725.0	5.8	3.1	299.2	8.5	7.4	-4.1	305.9	324.6	6.6	82.6	1.9	139.
5.4	38.6	3153.2	700.0	4.6	-1.5	289.4	12.3	11.6	-4.1	307.6	321.8	4.9	64.7	2.3	135.
6.0	41.3	3448.8	675.0	2.9	-4.1	282.8	14.6	14.2	-3.2	308.9	321.2	4.2	60.2	2.8	130.
6.8	44.1	3753.2	650.0	0.2	-6.5	278.0	15.3	15.1	-2.1	309.3	320.2	3.6	60.4	3.4	124.
7.6	47.0	4066.7	625.0	-1.7	-9.3	270.4	15.7	15.7	-0.1	310.5	319.6	3.0	56.4	4.0	119.
8.5	49.9	4390.6	600.0	-4.1	-6.8	261.6	16.4	16.2	2.4	311.4	322.8	3.8	81.6	4.7	113.
9.4	52.9	4725.4	575.0	-6.3	-7.3	259.1	18.2	17.9	3.4	312.7	324.2	3.8	91.9	5.5	108.
10.2	55.9	5072.2	550.0	-8.5	-10.4	259.7	19.9	19.6	3.6	314.1	323.7	3.2	86.1	6.4	104.
10.9	59.0	5431.4	525.0	-11.1	-12.5	263.2	19.1	18.9	2.3	315.0	323.6	2.8	89.3	7.2	101.
11.7	62.1	5804.5	500.0	-13.6	-15.0	268.9	18.7	18.7	0.4	316.4	323.9	2.4	89.8	8.1	99.
12.6	65.4	6192.8	475.0	-16.6	-19.0	271.9	19.4	19.3	-0.6	317.5	323.2	1.8	81.0	9.0	99.
13.4	68.7	6597.4	450.0	-19.3	-26.3	270.8	20.7	20.7	-0.3	319.0	322.3	1.0	53.9	10.0	98.
14.4	72.1	7019.6	425.0	-22.8	-30.5	266.4	22.7	22.7	1.4	319.7	322.1	0.7	49.7	11.4	97.
15.6	75.6	7461.4	400.0	-26.1	-41.9	267.5	22.6	22.6	1.0	321.1	321.9	0.2	20.9	12.8	96.
16.6	79.3	7924.9	375.0	-30.1	-43.9	266.8	23.2	23.2	1.3	321.8	322.6	0.2	24.4	14.2	95.
17.7	83.0	8412.3	350.0	-33.7	-49.8	262.8	28.6	28.3	3.6	323.4	323.8	0.1	17.7	15.5	94.
18.8	86.8	8927.0	325.0	-38.0	-53.2	267.1	32.5	32.5	1.6	324.3	324.6	0.1	18.3	16.0	93.
20.1	90.8	9475.2	300.0	-40.8	99.9	261.3	36.8	36.3	5.5	327.9	999.9	99.9	999.9	20.5	92.
21.4	95.0	10061.5	275.0	-45.1	99.9	256.8	42.2	41.1	9.6	330.0	999.9	99.9	999.9	23.6	90.
22.7	99.3	10694.0	250.0	-48.6	99.9	255.0	46.1	44.5	11.9	333.8	999.9	99.9	999.9	27.0	88.
24.1	103.8	11382.9	225.0	-50.5	99.9	260.1	44.3	43.6	7.6	341.1	999.9	99.9	999.9	30.6	86.
25.5	108.8	12153.8	200.0	-48.6	99.9	261.5	41.9	41.5	6.2	355.9	999.9	99.9	999.9	34.5	87.
27.2	114.9	13032.1	175.0	-50.1	99.9	254.2	39.6	38.1	10.8	367.3	999.9	99.9	999.9	38.5	85.
29.2	119.7	14038.0	150.0	-50.8	99.9	256.6	26.0	25.3	6.0	382.6	999.9	99.9	999.9	42.3	84.
31.0	125.7	15216.4	125.0	-54.8	99.9	261.8	18.5	18.3	2.6	395.7	999.9	99.9	999.9	44.6	84.
33.7	132.7	16636.5	100.0	-57.8	99.9	999.9	99.9	99.9	99.9	416.0	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

24 JULY 1981
2340 GMT

120 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.0	954.0	910.2	22.3	12.5	360.0	4.0	0.0	-4.0	303.5	331.2	10.1	54.0	0.0	0.
99.9	99.9	99.9	1000.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.2	1051.9	900.0	20.9	11.5	23.4	9.8	-3.9	-9.0	303.1	329.2	9.5	54.8	0.2	213.
0.7	19.6	1294.8	875.0	18.0	10.6	22.3	9.2	-3.5	-8.5	302.5	327.6	9.2	61.9	0.4	210.
1.3	22.1	1542.3	850.0	15.6	10.0	17.0	8.5	-2.5	-8.2	302.5	327.5	9.1	69.3	0.7	206.
1.9	24.7	1795.0	825.0	12.9	9.8	9.3	8.2	-1.3	-8.1	302.3	327.6	9.3	81.2	0.9	202.
2.5	27.3	2053.2	800.0	10.6	9.2	354.3	6.5	0.6	-6.4	302.4	327.7	9.2	91.5	1.2	198.
3.1	30.0	2317.3	775.0	8.3	7.0	325.5	5.2	3.0	-4.3	302.8	325.3	8.2	91.6	1.4	193.
3.7	32.6	2588.4	750.0	7.3	5.0	295.1	7.0	6.3	-3.0	304.5	325.0	7.4	86.0	1.5	186.
4.4	35.3	2867.4	725.0	5.9	2.0	280.6	8.8	8.6	-1.6	306.0	323.3	6.1	75.8	1.5	174.
4.9	38.1	3154.3	700.0	4.0	0.1	281.1	9.8	9.6	-1.9	307.0	322.8	5.5	75.5	1.7	163.
5.7	40.9	3449.1	675.0	1.9	-1.2	274.6	10.8	10.7	-0.9	307.7	322.7	5.2	80.1	1.9	151.
6.4	43.8	3752.8	650.0	-0.3	-2.4	264.7	12.2	12.1	1.1	308.6	322.9	4.9	85.9	2.2	139.
7.2	46.6	4066.0	625.0	-2.3	-4.8	266.2	13.5	13.5	0.9	309.8	322.4	4.3	82.7	2.6	128.
8.1	49.5	4389.6	600.0	-4.2	-9.8	270.6	14.9	14.9	-0.2	311.3	320.5	3.0	64.9	3.3	119.
9.0	52.4	4723.9	575.0	-6.9	-10.2	271.0	15.5	15.5	-0.3	312.0	321.3	3.1	77.3	3.9	114.
9.8	55.5	5069.6	550.0	-9.1	-30.6	276.8	16.5	16.3	-2.0	313.3	316.7	1.1	31.3	4.7	110.
10.7	58.6	5428.3	525.0	-11.2	-42.4	282.5	18.6	18.2	-4.0	315.0	315.6	0.2	5.5	5.6	109.
11.5	61.8	5801.0	500.0	-13.3	-47.9	281.9	22.3	21.8	-4.6	316.8	317.2	0.1	7.5	6.6	108.
12.3	65.3	6189.5	475.0	-16.1	-39.4	276.6	24.9	24.7	-2.9	318.0	318.9	0.3	11.3	7.7	107.
13.3	68.3	6594.4	450.0	-19.4	-34.4	275.7	23.2	23.1	-2.3	318.8	320.4	0.5	24.8	9.2	105.
15.2	71.6	7016.3	425.0	-22.8	-39.0	274.7	23.6	23.5	-1.9	319.8	320.8	0.3	20.9	11.4	103.
16.3	75.1	7456.9	400.0	-26.9	-43.9	270.4	28.1	28.1	-0.2	320.1	320.8	0.2	18.7	13.2	102.
17.5	78.7	7921.6	375.0	-28.7	-59.0	264.9	31.0	30.9	2.7	323.6	323.8	0.0	3.6	15.2	100.
18.7	82.4	8411.6	350.0	-32.6	-49.0	259.1	37.7	37.0	7.2	324.8	325.3	0.1	17.5	17.5	97.
19.9	86.3	8930.4	325.0	-35.9	-54.6	257.4	40.4	38.7	11.5	327.2	327.4	0.1	12.5	20.2	94.
21.1	90.3	9481.4	300.0	-40.6	99.9	252.4	44.1	42.0	13.4	328.2	999.9	99.9	999.9	22.9	92.
22.3	94.3	10069.1	275.0	-44.8	99.9	248.6	44.6	41.5	16.2	330.4	999.9	99.9	999.9	25.0	89.
23.7	98.7	10701.2	250.0	-48.6	99.9	247.7	44.8	41.4	17.0	333.8	999.9	99.9	999.9	29.4	86.
25.3	103.2	11384.0	225.0	-51.0	99.9	253.1	45.8	43.8	13.3	340.4	999.9	99.9	999.9	33.7	84.
27.0	108.0	12129.0	200.0	-49.7	99.9	258.3	42.1	41.2	8.5	354.1	999.9	99.9	999.9	38.2	83.
28.9	113.2	13332.6	175.0	-50.6	99.9	258.8	36.3	35.7	7.0	366.3	999.9	99.9	999.9	42.6	83.
31.3	119.0	14733.1	150.0	-53.1	99.9	256.6	28.6	27.8	6.6	378.6	999.9	99.9	999.9	47.4	82.
34.4	125.0	15206.2	125.0	-54.7	99.9	255.8	13.8	13.6	2.4	396.0	999.9	99.9	999.9	51.4	82.
37.5	132.0	16632.8	100.0	-58.2	99.9	999.9	99.9	99.9	99.9	415.3	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

25 JULY 1981
240 GMT

76 296. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.7	954.0	911.5	18.4	10.5	360.0	1.0	0.0	-1.0	299.4	323.2	8.8	60.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.8	1063.3	900.0	19.3	11.0	353.4	4.5	0.5	-4.4	301.4	326.4	9.2	58.7	0.3	229.
0.9	19.3	1304.9	875.0	17.0	9.7	1.8	4.8	-0.1	-4.8	301.5	325.2	8.7	62.2	0.4	217.
1.4	21.9	1551.6	850.0	14.8	9.0	4.2	5.2	-0.4	-5.2	301.6	325.0	8.5	68.3	0.5	209.
2.0	24.4	1803.8	825.0	12.6	8.7	343.9	4.7	1.3	-4.6	301.9	325.5	8.6	77.1	0.7	201.
2.7	26.9	2061.9	800.0	10.9	7.9	315.2	5.3	3.7	-3.8	302.8	325.9	8.4	81.6	0.8	191.
3.3	29.5	2326.6	775.0	9.4	5.1	297.1	7.4	6.6	-3.4	304.0	323.9	7.1	74.2	0.9	177.
3.9	32.1	2598.2	750.0	7.8	2.6	290.3	9.3	8.7	-3.2	305.1	322.5	6.2	69.2	1.1	162.
4.6	34.8	2877.3	725.0	5.8	0.8	286.2	9.7	9.3	-2.7	305.9	321.9	5.6	70.1	1.4	149.
5.3	37.6	3163.6	700.0	3.2	0.5	286.5	10.1	9.6	-2.9	306.0	322.2	5.7	82.3	1.7	139.
6.1	40.3	3458.0	675.0	1.5	-0.5	281.5	11.0	10.7	-2.2	307.3	323.1	5.5	86.3	2.1	132.
6.7	43.1	3761.5	650.0	-0.5	-1.3	276.9	11.5	11.5	-1.4	308.4	323.8	5.4	94.2	2.5	126.
7.4	46.0	4074.5	625.0	-2.7	-3.3	276.1	11.9	11.8	-1.3	309.4	323.4	4.8	95.3	2.9	122.
8.2	48.9	4397.5	600.0	-5.0	-6.1	277.5	12.7	12.6	-1.7	310.3	322.3	4.1	92.4	3.4	118.
8.8	51.8	4731.2	575.0	-7.0	-20.1	279.2	14.0	13.9	-2.2	311.8	316.1	1.3	34.4	3.9	115.
9.5	54.9	5076.4	550.0	-9.1	-24.6	282.4	16.0	15.6	-3.4	313.3	316.4	0.9	26.9	4.6	113.
10.3	57.9	5435.2	525.0	-10.7	-29.5	285.6	19.5	18.7	-5.2	315.6	317.8	0.7	20.2	5.3	112.
11.0	61.0	5808.1	500.0	-13.5	-28.3	285.2	21.4	20.6	-5.6	316.5	319.0	0.7	27.4	6.2	111.
11.9	64.3	6196.3	475.0	-16.6	-33.3	285.2	21.2	20.4	-5.6	317.4	319.1	0.5	21.9	7.3	110.
12.9	67.6	6601.4	450.0	-19.7	-32.3	284.8	21.9	21.2	-5.6	318.4	320.4	0.6	31.5	8.6	109.
13.8	70.9	7021.9	425.0	-23.0	-40.2	283.0	22.2	21.7	-5.0	319.6	320.5	0.3	18.9	9.8	109.
14.8	74.4	7463.3	400.0	-26.0	-50.0	280.0	26.1	25.7	-4.5	321.3	321.6	0.1	8.5	11.3	108.
15.9	78.0	7928.1	375.0	-28.2	-44.7	277.4	32.5	32.5	-1.3	324.2	324.9	0.2	18.7	13.0	106.
16.9	81.6	8419.7	350.0	-31.7	-50.2	999.9	99.9	99.9	99.9	326.0	326.4	0.1	14.3	15.1	104.
17.9	85.4	8939.2	325.0	-35.9	-56.2	999.9	99.9	99.9	99.9	327.2	327.5	0.1	10.2	999.9	999.
19.0	89.4	9491.5	300.0	-39.3	99.9	999.9	99.9	99.9	99.9	330.0	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	275.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	250.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	225.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	200.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

24 JULY 1981
1747 GMT

123 85. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.8	866.0	910.9	21.7	12.0	350.0	6.0	1.0	-5.9	302.1	328.4	9.7	54.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	16.7	1347.3	900.0	20.6	10.7	326.3	6.1	3.4	-5.1	302.7	327.6	9.1	53.2	0.1	158.
1.1	19.3	1589.3	875.0	17.7	9.8	333.5	6.4	2.8	-5.7	302.2	326.1	8.7	59.8	0.3	151.
1.9	21.9	1836.5	850.0	15.3	9.0	343.5	6.0	1.7	-5.7	302.2	325.7	8.6	66.1	0.6	156.
2.5	24.4	2089.9	825.0	12.8	7.5	337.8	5.7	2.2	-5.3	302.2	324.0	7.9	70.0	0.9	158.
3.2	27.1	2347.3	800.0	12.2	2.9	315.7	5.7	4.0	-4.1	304.2	320.9	5.9	52.9	1.1	156.
4.0	29.8	2312.3	775.0	10.7	1.8	305.6	5.9	4.8	-3.4	305.3	321.4	5.6	54.2	1.3	150.
4.8	32.4	2885.5	750.0	8.9	2.1	303.0	6.3	5.3	-3.4	306.3	323.3	6.0	62.4	1.6	146.
5.6	35.1	3165.6	725.0	7.1	0.8	306.0	7.1	5.8	-4.2	307.2	324.3	5.6	64.4	1.9	142.
6.5	37.9	3153.0	700.0	5.4	-1.3	306.4	7.3	5.6	-4.2	308.5	322.9	5.0	61.7	2.3	140.
7.3	40.7	3450.0	675.0	3.7	-5.7	297.0	7.5	6.7	-3.4	309.8	320.8	3.7	50.5	2.6	137.
8.1	43.4	3755.8	650.0	2.1	-7.4	276.6	8.5	8.5	-1.0	311.3	321.4	3.4	49.2	3.0	134.
9.0	46.2	4071.1	625.0	-0.6	-8.7	252.3	11.2	10.6	3.4	311.8	321.4	3.2	54.2	3.3	127.
9.8	49.1	4396.3	600.0	-3.0	-6.8	242.2	13.4	11.9	6.2	312.7	324.2	3.8	75.0	3.6	118.
10.9	52.1	4731.9	575.0	-5.8	-8.6	249.0	15.1	14.1	5.4	313.2	323.7	3.5	80.9	4.2	108.
11.8	55.3	5079.2	550.0	-8.3	-14.2	256.3	17.0	16.5	4.0	314.3	321.5	2.3	61.9	4.9	102.
12.7	57.9	5439.3	525.0	-11.0	-17.4	260.6	18.3	18.0	3.0	315.2	321.0	1.9	59.1	5.8	99.
13.6	61.3	5811.6	500.0	-14.4	-20.6	263.2	19.6	19.4	2.3	315.5	320.2	1.5	59.3	6.8	96.
14.7	64.3	6198.8	475.0	-16.5	-24.6	264.4	22.2	22.1	2.2	317.6	319.0	0.4	19.2	8.2	94.
15.9	67.4	6603.2	450.0	-19.4	-36.3	267.5	22.0	22.0	1.0	318.9	320.2	0.4	20.6	9.6	93.
16.9	70.8	7026.6	425.0	-22.7	-39.7	270.4	22.2	22.2	-0.1	319.9	321.9	0.3	19.2	11.1	92.
18.1	74.1	7466.8	400.0	-26.4	-41.1	271.2	24.9	24.9	-0.5	320.7	321.6	0.3	23.4	12.7	92.
19.3	77.7	7929.6	375.0	-30.3	-42.0	270.3	26.1	26.1	-0.2	321.5	322.4	0.2	30.4	14.6	92.
20.5	81.4	8417.6	350.0	-33.0	-47.8	270.0	28.1	28.1	-0.0	324.2	324.8	0.1	21.1	16.5	92.
21.8	85.3	8934.9	325.0	-36.6	-50.8	268.9	30.0	30.0	0.6	326.2	326.6	0.1	21.2	18.5	92.
23.1	89.7	9486.1	300.0	-40.2	99.9	264.0	29.5	29.4	3.1	328.7	999.9	99.9	999.9	21.1	91.
24.4	92.8	10073.9	275.0	-44.6	99.9	263.6	34.8	34.6	3.9	330.7	999.9	99.9	999.9	23.7	90.
26.3	97.2	10708.3	250.0	-47.4	99.9	255.5	31.0	30.0	7.8	335.6	999.9	99.9	999.9	27.4	89.
28.4	101.7	11400.5	225.0	-49.2	99.9	253.7	37.0	35.5	10.4	343.1	999.9	99.9	999.9	31.2	87.
30.9	106.6	12173.5	200.0	-49.0	99.9	259.8	33.8	33.3	6.0	355.3	999.9	99.9	999.9	36.7	85.
33.6	111.8	13049.4	175.0	-49.7	99.9	263.2	29.1	28.9	3.4	367.9	999.9	99.9	999.9	41.1	85.
36.5	117.7	14048.2	150.0	-54.2	99.9	254.5	25.3	24.3	6.8	376.7	999.9	99.9	999.9	46.7	84.
40.3	124.0	15211.7	125.0	-56.0	99.9	255.8	23.3	22.6	5.7	393.6	999.9	99.9	999.9	51.5	83.
44.3	131.3	16629.7	100.0	-59.2	99.9	999.9	99.9	99.9	99.9	413.4	999.9	99.9	999.9	57.0	83.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

24 JULY 1981
2052 GMT

114 117. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.1	866.0	918.4	25.3	12.5	340.0	2.0	0.7	-1.9	305.8	333.4	10.0	45.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	17.0	1042.9	900.0	22.8	11.2	326.7	7.7	4.3	-6.5	305.0	330.8	9.3	48.0	0.2	155.
0.9	19.6	1287.9	875.0	20.5	10.0	321.4	6.8	4.2	-5.3	305.1	329.6	8.8	50.7	0.4	150.
1.4	22.2	1537.3	850.0	17.7	9.3	317.2	6.2	4.2	-4.6	304.7	328.9	8.7	57.8	0.5	145.
2.1	24.9	1791.8	825.0	15.1	8.7	330.2	6.3	3.1	-5.5	304.6	328.4	8.6	65.3	0.8	141.
2.7	27.6	2050.2	800.0	13.9	8.3	340.6	5.4	1.8	-5.1	305.1	329.0	8.6	72.8	1.0	147.
3.3	30.2	2318.8	775.0	11.3	6.8	336.8	5.0	2.0	-4.6	306.0	328.5	8.0	73.5	1.2	149.
3.9	33.0	2592.1	750.0	8.9	6.3	331.3	6.5	3.1	-5.7	306.3	328.8	8.1	83.7	1.4	150.
4.4	35.7	2872.3	725.0	7.0	3.0	320.8	6.6	4.2	-5.1	307.1	325.8	6.6	76.1	1.6	150.
5.1	38.4	3157.5	700.0	5.3	-0.1	292.7	6.2	5.7	-2.4	308.4	324.1	5.4	67.9	1.8	147.
5.7	41.2	3447.4	675.0	4.2	-1.9	264.1	6.8	6.7	0.7	310.4	324.9	5.0	64.4	2.0	142.
6.3	44.1	3743.7	650.0	2.3	-7.1	248.0	8.4	7.8	3.1	311.6	322.0	3.5	49.7	2.1	135.
7.1	47.0	4049.5	625.0	-0.6	-4.7	253.0	11.5	11.0	3.4	311.8	324.6	4.3	73.8	2.3	125.
7.8	49.9	4365.2	600.0	-2.8	-4.5	257.2	14.6	14.2	3.2	312.9	326.5	4.6	87.8	2.7	114.
8.5	52.9	4691.3	575.0	-5.4	-8.3	257.3	16.6	16.2	3.7	313.6	324.7	3.7	82.3	3.2	109.
9.2	55.9	5028.4	550.0	-7.8	-12.6	261.3	18.1	17.9	2.7	314.9	323.1	2.6	68.2	3.9	103.
9.9	59.0	5379.7	525.0	-10.7	-17.8	267.2	18.9	18.8	0.9	315.5	321.2	1.8	55.9	4.7	100.
10.6	62.1	5743.4	500.0	-12.3	-27.9	269.9	19.9	19.9	0.0	318.1	320.7	0.8	25.9	5.5	98.
11.5	65.4	6123.4	475.0	-15.2	-30.9	271.4	21.7	21.7	-0.5	319.2	320.9	0.5	20.2	6.6	97.
12.3	68.6	6519.3	450.0	-18.5	-33.6	271.7	21.2	21.1	-0.6	320.0	321.7	0.5	25.2	7.7	96.
13.2	72.0	6933.6	425.0	-21.3	-33.2	270.5	21.3	21.3	-0.2	321.6	323.5	0.5	33.1	8.7	96.
14.1	75.4	7367.5	400.0	-25.0	-36.2	270.5	23.3	23.3	-0.2	322.5	323.7	0.3	27.9	10.0	95.
15.0	79.0	7823.5	375.0	-27.7	-42.2	271.5	27.2	27.2	-0.7	324.9	325.8	0.2	23.5	11.3	95.
15.9	82.7	8305.6	350.0	-31.2	-45.9	267.0	29.3	29.3	1.5	326.8	327.4	0.2	21.7	12.8	94.
16.9	86.5	8815.9	325.0	-35.3	-48.8	263.0	33.8	33.5	4.1	328.0	328.5	0.1	23.6	14.7	93.
17.9	90.5	9359.4	300.0	-39.0	-51.6	257.9	36.9	36.1	7.7	330.4	330.8	0.1	24.8	16.8	91.
19.0	94.7	10111.3	275.0	-43.0	99.9	250.9	41.1	38.9	13.5	332.9	999.9	99.9	999.9	19.2	89.
20.3	99.0	11746.4	250.0	-47.9	99.9	250.6	42.9	40.5	14.2	334.9	999.9	99.9	999.9	22.4	86.
21.5	103.5	11435.7	225.0	-50.3	99.9	255.3	43.6	42.2	11.1	341.4	999.9	99.9	999.9	25.5	85.
22.9	108.4	12756.3	200.0	-49.3	99.9	260.9	39.4	38.9	6.2	354.9	999.9	99.9	999.9	29.0	84.
24.3	113.6	13389.3	175.0	-48.4	-99.9	262.1	33.3	33.0	4.6	367.9	999.9	99.9	999.9	32.1	84.
26.1	119.2	14090.1	150.0	-47.1	-99.9	999.9	99.9	99.9	99.9	381.7	999.9	99.9	999.9	35.4	84.
28.1	125.7	15262.0	125.0	-55.1	99.9	999.9	99.9	99.9	99.9	394.3	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

24 JULY 1981
2347 GMT

122 88. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	14.6	866.0	918.6	25.0	10.8	350.0	3.0	0.5	-3.0	305.5	330.3	8.9	41.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	16.5	1044.7	900.0	22.2	10.4	337.8	4.8	1.8	-4.5	304.4	329.0	8.9	47.3	0.2	164.
1.2	19.2	1289.0	875.0	20.1	10.0	347.8	4.4	0.9	-4.3	304.6	329.1	8.8	52.1	0.4	163.
2.0	21.6	1538.4	850.0	17.6	8.7	352.8	6.3	0.8	-6.3	304.6	327.8	8.4	56.2	0.6	167.
2.9	24.2	1792.9	825.0	15.4	7.6	353.3	7.3	0.9	-7.2	304.9	327.1	8.0	59.8	1.0	169.
3.7	26.8	2053.3	800.0	12.9	6.7	356.0	6.7	0.5	-6.6	304.9	326.4	7.7	65.8	1.3	170.
4.4	29.4	2319.5	775.0	10.7	5.6	348.7	5.9	1.2	-5.8	305.3	326.0	7.4	70.5	1.6	171.
5.1	32.0	2592.2	750.0	8.7	5.1	330.0	5.5	2.8	-4.8	306.1	326.8	7.4	77.6	1.8	170.
5.9	34.7	2872.3	725.0	6.5	3.7	302.6	5.0	4.2	-2.7	306.6	326.2	6.9	82.0	2.0	167.
6.6	37.4	3160.1	700.0	4.8	0.9	273.0	5.6	5.6	-0.3	307.9	324.7	5.9	75.6	2.2	161.
7.4	40.1	3456.1	675.0	2.9	0.0	259.5	7.3	7.1	1.3	308.9	325.4	5.7	81.3	2.2	154.
8.3	42.9	3761.3	650.0	1.1	-0.8	261.2	9.4	9.3	1.4	310.2	326.3	5.6	87.1	2.4	144.
9.2	45.9	4076.1	625.0	-1.0	-2.4	263.6	11.3	11.2	1.2	311.3	326.4	5.1	90.0	2.7	135.
10.2	48.8	4400.9	600.0	-3.5	-4.9	269.9	13.6	13.6	0.0	312.1	325.2	4.4	89.9	3.2	125.
10.9	51.5	4736.3	575.0	-5.8	-7.5	271.4	15.0	14.9	-0.4	313.2	324.6	3.8	87.9	3.8	119.
11.9	54.5	5083.6	550.0	-8.2	-13.1	272.3	16.5	16.5	-0.7	314.4	322.3	2.5	67.7	4.7	113.
13.0	57.5	5443.6	525.0	-10.2	-28.7	279.3	19.7	19.4	-3.2	316.1	318.4	0.7	20.2	5.8	110.
14.2	60.6	5818.3	500.0	-12.3	-28.6	280.7	21.1	20.8	-3.9	318.1	320.5	0.7	24.2	7.1	108.
15.2	63.8	6208.0	475.0	-15.5	-29.1	277.5	22.3	22.1	-2.9	318.8	321.2	0.7	29.8	8.6	107.
16.5	67.0	6613.2	450.0	-19.1	-31.3	279.6	24.6	24.2	-4.1	319.3	321.4	0.6	32.9	10.3	105.
17.8	70.1	7036.2	425.0	-21.8	-33.4	278.1	27.5	27.3	-3.9	321.0	322.9	0.5	34.1	11.9	105.
18.6	73.6	7480.5	400.0	-24.3	-41.5	270.7	30.0	30.0	-0.4	323.5	324.4	0.2	18.5	13.7	103.
19.9	77.2	7947.6	375.0	-27.6	-44.8	269.2	32.7	32.5	2.7	325.1	325.8	0.2	17.5	16.0	101.
21.3	80.7	8440.7	350.0	-31.3	-46.9	268.9	35.3	34.6	6.8	326.6	327.2	0.2	19.5	18.3	98.
22.4	84.4	8962.2	325.0	-35.0	-48.8	266.1	36.5	35.3	9.4	328.5	329.0	0.1	22.7	21.2	96.
23.7	88.3	9515.3	300.0	-39.0	-46.1	245.8	34.7	31.6	14.2	330.4	331.1	0.2	46.5	23.8	93.
25.3	92.4	10105.5	275.0	-43.9	99.9	244.4	33.6	30.3	14.5	331.6	999.9	99.9	999.9	26.6	89.
27.1	96.9	10739.5	250.0	-48.1	99.9	248.1	34.6	32.1	12.9	334.6	999.9	99.9	999.9	30.1	87.
29.2	101.3	11427.5	225.0	-51.9	99.9	249.7	38.5	36.1	13.3	338.9	999.9	99.9	999.9	34.6	84.
31.5	106.2	12197.8	200.0	-52.6	99.9	257.5	32.3	31.5	7.0	349.4	999.9	99.9	999.9	39.5	83.
34.3	111.5	13052.5	175.0	-52.6	99.9	999.9	99.9	99.9	99.9	363.1	999.9	99.9	999.9	45.7	82.
37.6	117.2	14010.1	150.0	-52.7	99.9	999.9	99.9	99.9	99.9	379.4	999.9	99.9	999.9	999.9	999.
41.4	123.7	15119.6	125.0	-55.5	99.9	999.9	99.9	99.9	99.9	394.4	999.9	99.9	999.9	999.9	999.
45.5	131.0	16435.2	100.0	-59.7	99.9	999.9	99.9	99.9	99.9	412.4	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 5
POWDERVILLE, MONTANA

25 JULY 1981
249 GMT

122 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.2	866.0	919.9	21.1	13.0	360.0	6.0	0.0	-6.0	301.4	329.3	10.3	60.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	17.3	1356.6	900.0	20.3	11.4	41.4	6.6	-4.4	-5.0	302.4	328.3	9.5	56.5	0.2	197.
1.2	20.1	1598.1	875.0	18.4	10.6	37.6	8.4	-5.1	-6.7	302.9	328.3	9.3	60.5	0.6	208.
1.9	22.8	1546.0	850.0	16.3	10.1	35.6	8.1	-4.7	-6.6	303.2	328.5	9.2	66.8	1.0	212.
2.7	25.6	1799.7	825.0	14.2	9.7	28.6	5.3	-2.5	-4.6	303.6	329.0	9.2	74.5	1.3	212.
3.4	28.3	2059.1	800.0	12.2	7.6	5.4	2.9	-0.3	-2.9	304.2	327.0	8.2	73.1	1.4	211.
4.1	31.1	2324.9	775.0	10.5	6.2	324.3	3.2	1.9	-2.6	305.1	326.6	7.7	74.5	1.5	209.
4.9	33.9	2597.5	750.0	8.7	4.8	317.1	5.0	3.4	-3.7	306.0	326.3	7.2	76.5	1.6	201.
5.5	36.7	2877.5	725.0	6.3	4.5	303.4	5.5	4.6	-3.0	306.3	327.0	7.3	88.8	1.7	194.
6.3	39.6	3164.9	700.0	4.3	2.6	271.0	8.4	8.4	-0.1	307.3	326.1	6.6	88.5	1.7	185.
7.1	42.4	3461.3	675.0	3.1	1.0	267.5	11.1	11.1	0.5	309.2	326.8	6.1	85.9	1.7	167.
7.9	45.3	3767.4	650.0	0.7	-1.4	267.1	11.7	11.7	0.6	309.8	325.3	5.3	85.4	1.8	150.
8.7	48.3	4083.9	625.0	-1.3	-4.1	271.7	11.9	11.9	-0.3	310.9	324.3	4.5	81.3	2.2	137.
9.6	51.3	4405.0	600.0	-3.9	-11.4	278.1	11.6	11.4	-1.6	311.6	320.2	2.9	59.5	2.7	126.
10.4	54.3	4730.5	575.0	-6.0	-19.5	283.7	12.1	11.8	-2.9	312.9	317.5	1.4	33.5	3.2	123.
11.3	57.4	5060.1	550.0	-8.0	-22.6	287.2	14.1	13.5	-4.2	314.6	318.2	1.1	29.6	3.6	120.
12.3	60.5	5445.7	525.0	-10.8	-25.0	286.5	17.2	16.5	-4.9	315.5	318.6	1.0	29.8	4.2	117.
13.3	63.4	5818.8	500.0	-13.3	-24.8	286.2	18.8	18.0	-5.2	316.8	320.2	1.0	37.2	5.5	115.
14.3	66.7	6207.2	475.0	-16.0	-32.3	287.2	19.7	17.8	-8.5	318.1	319.9	0.5	23.0	7.0	114.
15.3	70.0	6612.3	450.0	-18.7	-31.7	284.8	21.4	20.7	-5.5	319.8	321.8	0.6	30.4	8.1	113.
16.3	73.4	7036.5	425.0	-21.5	-28.4	279.8	24.4	24.1	-4.2	321.4	324.3	0.9	53.9	9.5	112.
17.4	76.9	7480.3	400.0	-24.9	-30.5	272.9	24.2	24.1	-1.2	322.6	325.2	0.7	59.3	11.0	109.
18.3	80.5	7946.3	375.0	-27.8	-35.5	268.5	28.2	28.2	0.7	324.8	326.5	0.5	48.0	12.4	107.
19.5	84.1	8439.9	350.0	-30.8	-48.8	262.3	37.0	36.7	5.0	327.3	327.8	0.1	15.0	14.5	104.
20.8	88.0	8961.6	325.0	-34.8	-41.0	254.6	41.1	39.6	10.9	328.7	329.9	0.3	52.9	17.5	99.
22.1	92.0	9516.1	300.0	-39.2	-44.4	247.7	42.9	39.7	16.3	330.1	331.0	0.2	57.7	20.3	95.
23.4	96.0	10105.5	275.0	-44.7	99.9	245.7	45.1	41.1	18.6	330.5	999.9	99.9	999.9	23.4	91.
24.8	100.4	10736.8	250.0	-49.8	99.9	245.5	46.1	42.0	19.2	332.0	999.9	99.9	999.9	26.6	87.
26.2	105.0	11418.7	225.0	-53.1	99.9	250.6	48.6	45.9	16.2	337.1	999.9	99.9	999.9	30.6	85.
27.8	109.6	12181.0	200.0	-50.6	99.9	255.8	47.5	46.1	11.7	352.7	999.9	99.9	999.9	35.4	83.
30.1	114.8	13053.7	175.0	-52.7	99.9	259.9	40.3	39.7	7.1	363.0	999.9	99.9	999.9	41.6	83.
32.6	120.5	14042.3	150.0	-55.2	99.9	254.7	33.5	32.4	8.8	375.0	999.9	99.9	999.9	46.6	82.
35.6	126.7	15201.0	125.0	-55.5	99.9	261.6	24.1	23.9	3.5	394.6	999.9	99.9	999.9	51.9	82.
39.4	133.7	16612.6	100.0	-59.7	99.9	999.9	99.9	99.9	99.9	412.5	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

30 JULY 1981
1754 GMT

126 87. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.8	800.0	918.9	27.5	8.9	310.0	11.0	8.4	-7.1	308.2	330.3	7.8	31.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	15.3	963.8	900.0	24.5	10.3	333.2	13.7	6.2	-12.2	306.8	331.4	8.8	40.6	0.3	143.
0.8	17.7	1209.9	875.0	22.5	9.4	334.3	12.6	5.5	-11.3	307.2	331.1	8.5	43.3	0.6	146.
1.3	20.2	1460.7	850.0	19.3	7.7	335.8	11.3	4.6	-10.3	306.4	328.2	7.8	47.0	0.9	149.
1.8	22.7	1715.5	825.0	16.8	6.8	337.1	10.1	3.9	-9.3	306.4	327.7	7.6	51.7	1.2	152.
2.5	25.3	1978.1	800.0	15.1	5.9	325.1	7.1	4.1	-5.9	307.2	327.8	7.3	54.0	1.6	153.
3.2	27.9	2246.7	775.0	13.8	5.2	285.1	6.4	6.1	-1.7	308.6	329.2	7.2	56.4	1.8	150.
3.9	30.4	2523.4	750.0	13.7	4.9	264.0	8.6	8.6	0.9	311.5	332.4	7.3	55.1	1.9	143.
4.5	33.1	2808.9	725.0	13.6	-2.0	262.4	12.8	12.7	1.7	314.4	328.0	4.6	33.9	2.2	133.
5.1	35.8	3103.3	700.0	11.6	-3.3	259.2	14.9	14.6	2.8	315.3	328.2	4.3	35.1	2.6	123.
5.9	38.6	3406.0	675.0	9.1	-5.0	255.9	14.7	14.2	3.6	315.8	327.7	3.9	36.5	3.1	114.
6.7	41.3	3717.1	650.0	6.2	-6.8	249.7	15.3	14.4	5.3	316.0	326.9	3.6	38.7	3.7	106.
7.4	44.1	4037.1	625.0	3.3	-6.9	241.7	16.0	14.1	7.6	316.3	327.5	3.7	47.0	4.2	100.
8.3	47.0	4366.5	600.0	0.5	-7.9	233.8	16.8	13.6	9.9	316.7	327.5	3.5	53.4	4.9	93.
9.2	50.0	4706.3	575.0	-2.4	-10.4	233.8	18.1	14.6	10.7	317.2	326.5	3.0	53.9	5.6	87.
10.0	53.0	5057.3	550.0	-5.5	-13.8	239.6	19.1	16.5	9.7	317.6	325.1	2.4	51.9	6.4	83.
10.9	56.1	5421.2	525.0	-8.2	-28.6	248.0	22.3	20.7	8.4	318.5	320.9	0.7	17.5	7.5	80.
11.8	59.4	5797.8	500.0	-10.1	-31.8	249.3	26.2	24.5	9.3	320.8	322.6	0.5	14.8	8.7	79.
12.8	62.6	6191.5	475.0	-12.5	-33.7	242.2	25.6	22.6	11.9	322.5	324.1	0.5	15.0	10.2	77.
13.7	66.0	6602.1	450.0	-15.2	-36.0	235.7	26.6	22.0	15.0	324.2	325.6	0.4	14.8	11.6	75.
14.7	69.4	7030.8	425.0	-19.1	-37.1	233.1	26.9	21.5	16.2	324.5	325.8	0.4	14.5	13.1	72.
15.7	73.0	7478.7	400.0	-22.2	-40.3	235.4	27.4	22.5	15.5	326.1	327.1	0.3	17.4	14.7	70.
16.8	76.7	7949.3	375.0	-26.4	-43.9	235.8	25.5	21.1	14.4	326.7	327.4	0.2	17.3	16.4	69.
17.9	80.5	8444.2	350.0	-30.1	-44.3	236.3	25.2	21.0	14.0	328.2	329.0	0.2	23.5	18.0	67.
19.1	84.5	8967.6	325.0	-33.8	-46.9	235.6	25.6	21.1	14.4	330.1	330.8	0.2	24.8	19.9	66.
20.4	88.6	9524.4	300.0	-37.7	-50.4	238.6	25.4	21.7	13.3	332.3	332.7	0.1	24.8	21.7	66.
21.7	93.0	10118.6	275.0	-42.6	99.9	243.2	26.1	23.3	11.8	333.5	999.9	99.9	999.9	23.8	65.
23.2	97.6	10755.8	250.0	-47.2	99.9	251.7	24.6	23.3	7.7	335.9	999.9	99.9	999.9	26.0	65.
24.7	102.6	11445.8	225.0	-51.5	99.9	253.6	25.5	24.5	7.2	339.6	999.9	99.9	999.9	28.2	66.
26.9	107.8	12209.0	200.0	-51.7	99.9	248.0	29.3	27.2	11.0	350.9	999.9	99.9	999.9	31.9	67.
29.5	113.4	13076.2	175.0	-51.7	99.9	240.9	26.4	23.0	12.8	364.6	999.9	99.9	999.9	36.3	66.
32.3	119.5	14069.4	150.0	-54.3	99.9	242.3	23.0	20.4	10.7	376.5	999.9	99.9	999.9	40.3	66.
35.2	126.3	15221.8	125.0	-58.9	99.9	251.6	19.1	18.1	6.0	388.4	999.9	99.9	999.9	43.9	66.
38.6	133.7	16629.2	100.0	-58.1	99.9	999.9	99.9	99.9	99.9	415.5	999.9	99.9	999.9	47.2	66.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

30 JULY 1981
2045 GMT

91 219. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.9	800.0	918.0	29.5	4.9	350.0	8.0	1.4	-7.9	310.2	327.3	5.9	21.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.6	15.5	974.6	900.0	25.7	2.8	349.8	5.7	1.0	-5.6	308.0	323.0	5.2	22.7	0.2	166.
1.4	18.0	1220.8	875.0	23.2	1.8	1.8	6.7	-0.2	-6.7	307.9	322.4	5.0	24.5	0.4	174.
2.1	20.4	1472.4	850.0	20.9	1.3	1.5	8.3	-0.2	-8.3	308.1	322.4	5.0	27.1	0.8	177.
2.8	22.9	1729.1	825.0	18.4	0.7	357.5	7.7	0.3	-7.7	308.1	322.3	4.9	30.4	1.1	179.
3.4	25.4	1991.5	800.0	15.9	-0.3	340.2	7.9	2.7	-7.4	308.1	321.8	4.7	33.1	1.4	177.
4.2	27.9	2259.9	775.0	13.2	-0.2	322.8	7.4	4.5	-5.9	308.0	322.2	4.9	39.7	1.7	171.
4.8	30.5	2534.7	750.0	10.8	-0.6	302.9	7.5	6.3	-4.1	308.3	322.5	4.9	45.0	1.9	167.
5.5	33.1	2816.4	725.0	9.3	-3.6	283.5	12.4	12.1	-2.9	309.6	321.5	4.7	40.0	2.2	159.
6.2	35.8	3107.2	700.0	9.4	-5.7	269.5	17.6	17.6	0.1	312.9	323.7	3.6	33.8	2.5	146.
6.9	38.4	3408.3	675.0	8.0	-7.2	255.4	19.9	19.2	5.0	314.6	324.7	3.3	33.3	3.0	131.
7.8	41.2	3719.2	650.0	5.5	-8.7	247.9	20.8	19.3	7.8	315.2	324.6	3.0	34.9	3.6	117.
8.7	44.1	4037.3	625.0	2.4	-10.5	247.1	21.2	19.6	8.2	315.2	323.7	2.7	37.7	4.5	105.
9.5	46.9	4365.7	600.0	-0.2	-13.6	249.3	21.7	20.3	7.7	315.9	322.9	2.2	35.4	5.3	99.
10.4	49.8	4704.4	575.0	-3.4	-16.0	249.7	20.6	19.3	7.2	316.1	322.1	1.9	36.7	6.4	93.
11.5	52.9	5053.9	550.0	-6.1	-26.0	251.0	22.5	21.3	7.3	316.8	319.6	0.8	18.9	7.6	89.
12.4	55.9	5417.0	525.0	-7.6	-27.1	252.4	26.0	24.8	7.8	319.3	322.0	0.8	19.1	8.9	87.
13.2	59.0	5794.8	500.0	-10.3	-32.4	253.6	27.1	26.0	7.7	320.5	322.2	0.5	14.3	10.2	85.
14.0	62.3	6187.9	475.0	-12.9	-29.9	253.3	28.5	27.3	8.2	322.1	324.4	0.7	22.4	11.6	84.
15.0	65.6	6598.6	450.0	-14.8	-34.4	248.3	27.5	25.5	10.2	324.6	326.2	0.5	16.9	13.1	82.
16.0	69.0	7028.5	425.0	-18.4	-35.6	243.2	27.4	24.4	12.4	325.4	326.9	0.4	20.2	14.7	80.
17.0	72.4	7479.4	400.0	-21.7	-37.5	239.1	26.8	23.0	13.7	326.7	328.1	0.4	22.4	16.2	78.
18.2	76.1	7953.5	375.0	-25.3	-42.1	239.8	26.3	22.8	13.2	328.1	329.0	0.2	18.9	18.0	76.
19.4	80.0	8447.6	350.0	-29.4	-44.9	240.4	26.9	23.4	13.3	329.1	329.9	0.2	20.6	19.9	75.
20.5	83.8	8972.7	325.0	-33.0	-47.6	242.9	25.8	23.0	11.8	331.2	331.8	0.2	21.4	21.6	74.
21.6	88.0	9530.5	300.0	-37.3	-51.9	245.0	23.7	21.5	10.0	332.8	333.2	0.1	20.3	23.2	73.
22.8	92.3	10124.6	275.0	-43.0	99.9	246.0	26.3	24.1	10.7	333.0	999.9	99.9	999.9	24.9	72.
23.9	96.8	10761.2	250.0	-47.1	99.9	999.9	99.9	99.9	99.9	336.1	999.9	99.9	999.9	999.9	999.
25.4	101.7	11452.9	225.0	-49.8	99.9	999.9	99.9	99.9	99.9	342.2	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	200.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

30 JULY 1981
2340 GMT

129 87. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	13.8	800.0	918.2	29.4	2.6	290.0	6.0	5.6	-2.1	310.0	324.8	5.0	18.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	15.6	977.5	900.0	27.1	2.0	327.5	4.2	2.3	-3.6	309.4	323.8	4.9	19.7	0.1	113.
1.0	18.1	1224.8	875.0	24.2	1.0	318.1	4.5	3.0	-3.4	308.9	322.7	4.7	21.7	0.2	132.
1.8	20.6	1477.0	850.0	21.9	0.0	311.2	5.0	3.8	-3.3	309.1	322.3	4.5	23.3	0.5	130.
2.4	23.2	1734.7	825.0	19.6	-0.8	307.1	4.8	3.9	-2.9	309.3	322.1	4.4	25.2	0.6	131.
3.0	25.8	1998.0	800.0	16.7	-1.9	302.1	5.6	4.7	-3.0	309.0	321.2	4.2	27.9	0.6	128.
3.7	28.3	2267.2	775.0	14.5	-2.3	309.6	6.5	5.0	-4.1	309.4	321.7	4.2	31.1	1.1	128.
4.3	31.0	2542.9	750.0	11.9	-2.6	307.2	6.2	5.0	-3.8	309.5	322.0	4.2	36.3	1.3	129.
5.0	33.7	2825.4	725.0	9.2	-2.9	295.9	7.8	7.0	-3.4	309.6	322.1	4.3	42.2	1.6	127.
5.7	36.4	3115.1	700.0	6.8	-4.9	287.2	10.9	10.4	-3.2	310.0	321.3	3.8	43.1	2.0	124.
6.6	39.3	3413.3	675.0	6.0	-7.3	273.1	13.8	13.7	-0.7	312.4	322.3	3.3	37.8	2.6	119.
7.5	42.1	3721.9	650.0	4.7	-4.6	258.9	16.9	16.6	3.3	314.3	326.8	4.2	50.9	3.3	111.
8.4	45.0	4043.5	625.0	2.6	-6.1	251.0	18.6	17.5	6.0	315.4	327.1	3.9	52.6	4.1	103.
9.3	47.9	4380.3	600.0	0.0	-8.0	248.4	20.1	18.7	7.4	316.2	326.8	3.5	54.7	5.0	96.
10.2	51.0	4730.9	575.0	-2.9	-11.2	246.5	22.7	21.3	8.0	316.6	325.4	2.8	52.6	6.1	91.
11.1	54.3	5099.4	550.0	-5.6	-13.5	252.8	25.4	24.3	7.5	317.4	325.1	2.5	53.7	7.3	87.
11.9	57.1	5422.1	525.0	-9.0	-18.0	255.9	26.9	26.1	6.6	317.6	323.3	1.8	48.3	8.6	85.
12.8	60.4	5793.1	500.0	-11.1	-33.0	257.6	26.8	26.2	5.8	319.5	321.2	0.5	15.1	10.0	84.
13.7	63.9	6190.6	475.0	-13.0	-38.0	255.5	26.6	25.7	6.6	321.9	323.0	0.3	10.1	11.6	83.
15.0	67.1	6600.6	450.0	-15.6	-35.0	252.0	26.7	25.4	8.2	323.6	325.1	0.4	17.1	13.5	82.
16.1	70.7	7029.3	425.0	-18.7	-37.5	247.2	26.1	24.1	10.1	325.0	326.3	0.4	17.2	15.2	81.
17.3	74.3	7478.6	400.0	-22.3	-38.4	245.7	25.5	23.3	10.5	326.4	327.6	0.3	20.9	17.0	79.
18.4	78.1	7950.2	375.0	-25.5	-41.6	245.8	26.1	23.8	10.7	327.9	328.8	0.3	20.3	18.7	78.
19.5	82.0	8446.6	350.0	-29.6	-45.6	244.1	26.4	23.7	11.5	328.9	329.5	0.2	19.3	20.3	77.
20.6	86.0	8970.7	325.0	-33.7	-48.4	243.5	25.7	23.0	11.4	330.2	330.8	0.1	20.9	22.0	76.
21.8	90.3	9526.9	300.0	-38.7	99.9	244.9	25.5	23.1	10.8	330.9	999.9	99.9	999.9	23.8	75.
23.0	94.8	10118.4	275.0	-43.1	99.9	244.8	27.1	24.6	11.5	332.7	999.9	99.9	999.9	25.6	74.
24.2	99.4	10754.5	250.0	-47.1	99.9	245.7	28.9	26.3	11.9	336.1	999.9	99.9	999.9	27.7	73.
25.7	104.5	11446.6	225.0	-51.8	99.9	247.7	32.1	29.7	12.2	340.7	999.9	99.9	999.9	30.3	73.
27.4	109.9	12204.9	200.0	-53.8	99.9	249.6	32.9	30.8	11.5	347.6	999.9	99.9	999.9	33.7	72.
29.4	115.7	13032.3	175.0	-51.5	99.9	253.7	31.1	29.9	8.7	364.9	999.9	99.9	999.9	38.4	72.
32.8	122.0	14037.1	150.0	-53.7	99.9	253.8	24.4	23.4	6.8	377.5	999.9	99.9	999.9	43.3	73.
35.8	129.0	15227.0	125.0	-69.1	99.9	250.7	19.0	18.0	6.3	386.2	999.9	99.9	999.9	47.1	72.
39.8	136.7	16637.1	100.0	-55.8	99.9	999.9	99.9	99.9	99.9	420.0	999.9	99.9	999.9	51.0	72.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 1
MILES CITY, MONTANA

31 JULY 1981
240 GMT

123 108. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.3	10.7	930.0	919.5	24.9	3.5	360.0	8.0	0.0	-8.0	305.3	320.6	5.4	25.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	12.6	988.1	900.0	24.8	6.7	0.8	11.2	-0.2	-11.2	307.1	326.6	6.9	31.3	0.3	171.
1.3	15.2	1743.9	875.0	22.3	5.1	359.9	10.3	0.0	-10.3	307.0	324.9	6.3	32.5	0.7	177.
2.3	17.7	1988.9	850.0	20.5	4.1	348.1	8.0	1.7	-7.8	307.6	324.9	6.0	33.9	1.2	177.
2.8	20.3	1741.9	825.0	18.8	3.1	330.9	5.1	2.5	-4.5	308.5	325.2	5.8	35.1	1.5	173.
3.6	23.1	2234.9	800.0	16.5	1.9	312.2	4.8	3.5	-3.2	308.8	324.7	5.5	37.3	1.6	170.
4.4	25.7	2274.3	775.0	14.3	1.1	290.4	4.6	4.3	-1.6	309.1	324.7	5.4	40.7	1.8	164.
5.2	28.3	2550.2	750.0	11.9	0.7	265.4	5.1	5.1	0.4	309.6	325.1	5.4	45.9	1.9	158.
6.2	31.1	2832.9	725.0	9.6	0.1	257.1	7.1	6.9	1.6	310.1	325.5	5.3	51.2	2.0	150.
7.0	33.9	3102.9	700.0	6.8	-1.2	267.8	9.0	9.0	0.3	310.0	324.6	5.0	56.4	2.2	139.
7.9	36.7	3371.1	675.1	5.3	-4.8	274.5	13.0	13.0	-1.0	311.6	323.5	4.0	48.2	2.6	129.
8.8	39.6	3728.8	650.0	3.7	-7.5	272.2	17.3	17.3	-0.7	313.2	323.3	3.4	43.8	3.3	122.
9.5	42.5	4046.4	625.0	1.7	-5.6	262.5	20.3	20.1	2.7	314.4	326.6	4.1	58.8	4.1	115.
10.4	45.5	4374.9	600.0	0.2	-10.0	254.5	23.4	22.5	6.2	316.4	325.6	3.0	46.1	5.1	107.
11.4	48.6	4714.5	575.0	-2.5	-12.7	250.0	24.4	22.9	8.3	317.0	324.9	2.5	45.6	6.2	100.
12.3	51.7	5065.1	550.0	-5.7	-16.0	247.8	23.5	21.7	8.9	317.3	323.6	2.0	44.2	7.4	94.
13.2	54.9	5427.5	525.0	-9.2	-18.5	250.8	24.1	22.8	7.9	317.3	322.7	1.7	46.5	8.5	91.
14.1	58.1	5802.5	500.0	-12.5	-21.9	251.6	22.9	21.7	7.2	317.8	322.1	1.3	44.9	9.9	88.
15.2	61.6	6193.6	475.0	-14.0	-19.1	250.7	23.6	22.2	7.8	320.7	326.4	1.8	65.9	11.2	86.
16.2	64.9	6604.6	450.0	-16.3	-22.6	252.4	26.5	25.3	8.0	322.8	327.4	1.4	58.2	12.6	84.
17.1	68.5	7031.3	425.0	-19.4	-32.1	253.3	26.3	25.2	7.6	324.2	326.3	0.6	31.1	14.4	83.
18.4	72.1	7478.7	400.0	-23.1	-36.4	252.0	26.9	25.6	8.3	326.2	327.7	0.4	25.9	16.2	82.
19.5	75.9	7949.9	375.0	-26.3	-40.2	253.0	27.2	26.0	7.9	326.7	327.8	0.3	25.4	17.9	81.
20.6	79.8	8443.2	350.0	-30.9	-42.8	253.3	26.1	25.0	7.5	327.0	328.0	0.2	29.9	19.7	80.
21.9	84.1	8964.1	325.0	-35.1	-45.8	253.2	29.6	28.3	8.6	328.3	329.0	0.2	32.1	21.6	80.
22.7	88.2	9517.7	300.0	-39.0	99.9	252.7	29.5	28.1	8.8	330.5	999.9	99.9	999.9	23.3	79.
24.3	92.5	10110.2	275.0	-42.7	99.9	249.1	28.6	26.7	10.2	333.4	999.9	99.9	999.9	25.5	78.
25.5	97.2	10747.9	250.0	-46.6	99.9	247.2	30.0	27.6	11.6	336.8	999.9	99.9	999.9	28.0	77.
27.4	102.4	11442.2	225.0	-49.4	99.9	247.7	28.7	26.6	10.9	342.8	999.9	99.9	999.9	31.3	76.
29.4	107.8	12219.2	200.0	-52.3	99.9	248.0	29.3	27.2	11.0	350.0	999.9	99.9	999.9	34.7	75.
31.7	113.6	13075.2	175.0	-52.3	99.9	251.1	28.9	27.3	9.3	363.6	999.9	99.9	999.9	38.8	75.
34.8	119.7	14067.2	150.0	-54.4	99.9	254.8	22.7	21.9	6.0	376.4	999.9	99.9	999.9	43.6	75.
38.5	127.0	15221.9	125.0	-58.7	99.9	999.9	99.9	99.9	99.9	388.7	999.9	99.9	999.9	48.2	75.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

30 JULY 1981
1740 GMT

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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 MIX GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.2	803.0	913.9	28.5	14.7	330.0	8.0	4.0	-6.9	309.5	341.9	11.6	43.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.5	938.4	900.0	24.9	12.5	999.9	99.9	99.9	99.9	307.2	335.5	10.2	45.9	999.9	999.
1.1	18.9	1198.5	875.0	22.0	11.3	999.9	99.9	99.9	99.9	306.7	333.6	9.7	50.8	999.9	999.
1.8	21.4	1435.7	850.0	19.5	10.3	999.9	99.9	99.9	99.9	306.6	332.6	9.3	55.1	999.9	999.
2.5	24.0	1691.9	825.0	17.2	9.3	999.9	99.9	99.9	99.9	306.7	331.7	8.9	59.7	1.7	146.
3.3	26.5	1954.3	800.0	15.4	8.6	313.6	11.8	8.5	-8.1	307.5	332.3	8.8	64.1	2.2	143.
4.1	29.2	2223.1	775.0	14.9	8.4	318.8	12.6	8.3	-9.5	309.9	330.7	7.3	52.8	2.8	141.
4.7	31.8	2500.8	750.0	13.6	5.9	310.4	11.1	8.5	-7.2	311.4	332.7	7.8	59.5	3.2	141.
5.4	34.4	2786.2	725.0	12.3	5.1	273.5	8.6	8.6	-0.5	313.0	335.1	7.7	61.4	3.7	139.
6.3	37.2	3080.2	700.0	11.3	-0.7	247.4	11.6	10.7	4.5	315.0	330.4	5.2	43.5	3.9	132.
7.0	40.0	3382.9	675.0	9.2	-5.9	251.6	15.6	14.8	4.9	315.9	327.1	3.7	33.9	4.2	125.
7.7	42.7	3694.7	650.0	7.1	-9.9	247.5	18.3	16.9	7.0	317.0	325.7	2.8	28.6	4.6	118.
8.5	45.6	4015.6	625.0	4.5	-11.5	244.3	20.7	18.6	9.0	317.7	325.6	2.5	30.0	5.3	110.
9.3	48.4	4347.1	600.0	1.3	-12.0	239.4	21.4	18.4	10.9	317.6	325.6	2.5	36.3	6.0	103.
10.1	51.4	4688.9	575.0	-1.8	-15.5	232.3	21.9	17.3	13.4	317.9	324.2	2.0	34.3	6.8	96.
11.0	54.4	5038.6	550.0	-5.1	-17.9	228.3	22.0	16.5	14.7	318.1	323.6	1.7	35.6	7.6	90.
11.8	57.5	5400.1	525.0	-7.8	-25.3	232.8	22.7	18.1	13.7	319.1	322.2	1.0	23.5	8.5	85.
12.8	60.5	5774.7	500.0	-10.4	-32.1	239.5	22.6	19.5	11.5	320.4	322.2	0.5	14.7	9.6	81.
13.7	63.8	6172.5	475.0	-13.1	-36.5	244.1	25.2	22.7	11.0	321.8	323.1	0.3	11.9	10.9	79.
14.7	67.0	6592.4	450.0	-15.7	-38.5	242.8	28.5	25.4	13.0	323.5	324.6	0.3	12.9	12.4	77.
15.6	70.4	7031.2	425.0	-18.8	-40.7	235.7	27.9	23.0	15.7	324.9	325.8	0.3	12.3	14.0	75.
16.3	73.9	7490.7	400.0	-22.4	-43.0	228.6	27.7	20.8	18.4	326.0	326.7	0.2	13.2	15.7	72.
16.9	77.4	7971.4	375.0	-25.3	-44.8	233.7	30.4	24.5	18.0	328.1	328.8	0.2	14.2	17.7	70.
17.2	81.1	8474.4	350.0	-28.8	-44.9	235.8	31.0	25.6	17.4	329.9	330.6	0.2	19.5	19.9	68.
20.4	85.0	8954.1	325.0	-33.3	-47.8	232.4	28.1	22.3	17.2	330.8	331.4	0.2	21.5	21.9	67.
21.8	88.9	9512.7	300.0	-37.0	-51.5	232.9	25.3	20.2	15.3	333.3	333.7	0.1	20.3	23.8	66.
23.0	93.0	10118.3	275.0	-41.8	99.9	238.8	22.2	19.0	11.5	334.7	999.9	99.9	999.9	25.6	65.
24.4	97.3	10743.9	250.0	-46.1	99.9	245.7	27.5	25.0	11.3	337.5	999.9	99.9	999.9	27.8	65.
25.7	101.7	11443.0	225.0	-50.6	99.9	246.9	25.9	23.8	10.2	341.0	999.9	99.9	999.9	30.0	65.
27.3	106.6	12232.8	200.0	-54.6	99.9	240.0	23.2	20.1	11.6	346.4	999.9	99.9	999.9	32.3	65.
29.2	111.8	13059.1	175.0	-54.3	99.9	242.2	20.7	18.3	9.6	360.4	999.9	99.9	999.9	34.7	64.
31.6	117.5	14048.3	150.0	-54.8	99.9	245.2	25.4	23.1	10.6	375.7	999.9	99.9	999.9	37.7	65.
34.5	123.5	15210.1	125.0	-56.2	99.9	242.9	32.0	28.5	14.6	393.3	999.9	99.9	999.9	43.9	65.
38.3	130.5	16622.2	100.0	-56.2	99.9	999.9	99.9	99.9	99.9	419.3	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 2
GLENDIVE, MONTANA

30 JULY 1981
2040 GMT

119 9C. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.1	803.0	916.1	28.5	11.6	330.0	9.0	4.5	-7.8	309.3	335.8	9.4	35.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	16.6	959.6	900.0	25.7	7.3	333.6	10.1	4.5	-9.1	308.0	328.2	7.1	30.9	0.3	131.
1.0	19.0	1206.2	875.0	23.3	6.6	328.4	10.3	5.4	-8.8	308.0	328.0	7.0	34.1	0.6	143.
1.5	21.5	1458.1	850.0	20.9	6.4	320.2	11.4	7.3	-8.7	308.0	328.3	7.1	39.1	0.9	143.
2.0	24.0	1715.3	825.0	18.8	6.6	322.7	7.9	4.8	-6.3	309.5	329.6	7.4	44.9	1.3	140.
2.6	26.5	1978.4	800.0	16.0	5.3	322.3	6.0	3.7	-4.7	308.2	328.1	7.0	49.0	1.4	143.
3.3	29.0	2247.4	775.0	14.4	4.2	290.8	9.4	8.7	-3.3	309.4	328.5	6.7	50.0	1.7	140.
4.0	31.6	2524.3	750.0	13.0	2.9	270.7	13.5	13.5	-0.2	310.7	328.9	6.3	50.1	2.1	131.
4.8	34.2	2808.3	725.0	10.9	-0.3	275.1	16.7	16.7	-1.5	311.4	326.7	5.2	46.1	2.7	121.
5.5	36.9	3099.7	700.0	8.3	-9.5	271.0	18.8	18.8	-0.3	311.7	319.9	2.7	27.1	3.4	116.
6.2	39.6	3399.7	675.0	7.4	-7.7	258.6	21.2	20.8	4.2	314.0	322.6	3.2	33.1	4.1	110.
6.4	42.3	3709.5	650.0	5.6	-7.0	248.9	22.2	20.7	8.0	315.3	325.9	3.5	39.8	4.8	104.
7.6	45.1	4028.5	625.0	2.5	-9.5	244.0	22.7	20.4	10.0	315.3	324.4	3.0	40.5	5.7	97.
9.4	47.9	4357.0	600.0	-0.1	-14.5	240.0	22.8	19.7	11.4	316.1	322.6	2.1	32.6	6.6	92.
9.2	50.4	4696.1	575.0	-2.9	-19.0	235.7	22.7	18.7	12.8	316.6	321.4	1.5	27.6	7.5	87.
10.0	51.8	5041.2	550.0	-5.9	-23.0	238.1	23.1	19.6	12.2	317.1	320.7	1.1	24.5	8.5	83.
10.8	56.8	5403.2	525.0	-7.7	-36.2	242.8	24.2	21.5	11.1	319.2	320.4	0.3	7.9	9.5	81.
11.7	59.9	5786.7	500.0	-10.1	-37.1	244.1	26.0	23.4	11.4	320.8	321.9	0.3	8.7	10.8	79.
12.6	63.0	6189.2	475.0	-12.4	-34.5	243.8	28.4	25.5	12.5	322.6	324.1	0.4	13.7	12.3	77.
13.6	66.3	6591.5	450.0	-14.9	-37.5	240.3	28.4	24.6	14.1	324.5	325.7	0.3	12.6	14.0	75.
14.8	69.6	7021.7	425.0	-17.7	-37.4	236.9	28.0	23.4	15.3	326.2	327.5	0.4	15.9	15.9	73.
15.8	72.9	7472.2	400.0	-21.2	-40.2	237.4	33.7	25.8	16.5	327.5	328.5	0.3	16.1	17.6	71.
16.8	76.5	7945.5	375.0	-25.1	-42.5	233.3	29.6	23.7	17.7	328.4	329.3	0.2	17.8	19.2	70.
17.7	80.1	8442.6	350.0	-28.7	-44.9	235.1	29.5	24.2	16.8	330.1	330.9	0.2	19.0	20.9	69.
18.8	84.0	8969.1	325.0	-32.3	-47.7	239.0	29.6	25.4	15.2	332.1	332.7	0.2	19.7	22.8	68.
20.0	87.9	9529.7	300.0	-36.1	-50.6	241.4	28.1	24.7	13.5	334.5	335.0	0.1	20.5	24.8	67.
21.3	92.0	10127.3	275.0	-41.0	99.9	242.0	28.2	24.8	13.2	335.9	999.9	99.9	999.9	27.1	67.
22.6	96.4	10769.6	250.0	-45.7	99.9	238.9	24.5	21.0	12.7	338.2	999.9	99.9	999.9	29.2	66.
24.0	101.0	11462.5	225.0	-50.5	99.9	240.5	23.0	20.0	11.4	341.1	999.9	99.9	999.9	31.1	66.
25.7	106.0	12226.2	200.0	-52.1	99.9	243.6	29.3	26.2	13.0	350.4	999.9	99.9	999.9	33.5	66.
27.5	111.2	13059.4	175.0	-52.7	99.9	242.6	29.9	26.6	13.8	362.9	999.9	99.9	999.9	36.9	65.
29.2	117.0	14082.9	150.0	-54.6	99.9	238.5	26.6	22.7	13.9	376.0	999.9	99.9	999.9	39.8	65.
31.3	123.0	15244.7	125.0	-52.4	99.9	241.2	19.2	16.8	9.3	400.2	999.9	99.9	999.9	42.8	65.
34.4	130.0	16669.5	100.0	-55.9	99.9	242.0	10.9	9.6	5.1	419.7	999.9	99.9	999.9	45.2	64.
99.9	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.
99.9	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.
99.9	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.

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* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 2
GLENDIVE, MONTANA

30 JULY 1981
2341 GMT

120 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.3	803.0	917.1	28.0	6.2	300.0	8.0	6.9	-4.0	308.7	327.3	6.5	25.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	17.0	969.1	900.0	26.2	5.0	312.2	7.4	5.5	-5.0	308.5	326.0	6.1	25.6	0.4	121.
1.0	19.4	1216.1	875.0	23.7	3.7	313.5	7.5	5.4	-5.2	308.4	324.9	5.7	27.1	0.6	125.
1.5	22.0	1467.9	850.0	21.6	2.7	314.9	7.6	5.4	-5.4	308.8	324.6	5.5	28.8	0.8	128.
2.0	24.6	1725.3	825.0	18.8	1.8	309.3	7.1	5.5	-4.5	308.5	323.8	5.3	31.9	1.1	133.
2.7	27.2	1988.0	800.0	16.1	0.9	297.6	7.3	6.4	-3.4	308.3	323.0	5.1	35.3	1.3	128.
3.3	29.9	2256.5	775.0	13.5	-0.3	284.0	8.9	8.7	-2.2	308.3	322.4	4.9	38.8	1.6	125.
4.1	32.5	2531.4	750.0	11.0	-1.6	273.4	11.0	11.0	-0.7	308.5	321.7	4.5	41.3	2.1	119.
4.9	35.2	2813.2	725.0	8.9	-4.3	270.0	14.5	14.5	-0.0	309.2	320.6	3.9	39.1	2.6	113.
5.6	38.0	3102.9	700.0	7.6	-10.5	264.2	19.3	19.2	1.9	310.9	318.4	2.4	26.2	3.2	108.
6.3	40.9	3402.5	675.0	7.8	-18.3	258.7	23.5	23.1	4.6	314.4	318.7	1.4	13.8	4.1	102.
7.2	43.6	3712.2	650.0	5.1	-11.1	253.2	26.0	24.9	7.5	314.8	322.7	2.6	30.6	5.2	96.
8.0	46.5	4030.4	625.0	2.4	-10.1	251.5	26.9	25.5	8.6	315.2	323.9	2.8	39.0	6.5	91.
8.7	49.4	4359.2	600.0	-0.5	-10.7	251.4	28.0	26.6	8.9	315.6	324.3	2.8	45.7	7.7	88.
9.6	52.4	4697.6	575.0	-3.6	-15.1	251.5	27.8	26.4	8.8	315.8	322.3	2.1	40.2	9.1	85.
10.5	55.4	5047.3	550.0	-5.9	-28.6	254.3	27.9	26.8	7.6	317.1	319.3	0.7	14.7	10.6	83.
11.5	58.5	5410.4	525.0	-7.9	-29.5	256.8	28.3	27.5	6.5	319.0	321.1	0.6	15.5	12.3	82.
12.6	61.6	5784.0	500.0	-10.3	-29.9	255.1	26.8	25.9	6.9	320.5	322.7	0.6	18.0	14.1	82.
13.7	64.8	6181.6	475.0	-12.2	-33.5	251.4	27.1	25.7	8.7	322.8	324.5	0.5	15.0	15.7	81.
14.6	68.1	6593.0	450.0	-15.0	-31.8	248.0	28.0	26.0	10.5	324.3	326.4	0.6	22.3	17.3	80.
15.8	71.5	7022.6	425.0	-18.5	-32.3	244.3	27.3	24.6	11.8	325.2	327.3	0.6	28.6	19.0	79.
16.9	75.0	7471.7	400.0	-22.0	-33.7	241.5	28.7	25.2	13.7	326.4	328.4	0.5	33.4	20.9	77.
18.0	78.7	7943.0	375.0	-26.2	-35.9	239.9	30.6	26.5	15.3	327.0	328.6	0.5	39.3	22.8	76.
19.1	82.3	8439.1	350.0	-29.1	-40.8	240.0	29.6	25.6	14.8	329.5	330.6	0.3	30.9	24.7	74.
20.2	86.2	8964.8	325.0	-32.9	-45.2	238.3	28.3	24.1	14.9	331.3	332.1	0.2	27.8	26.7	73.
21.4	90.2	9523.2	300.0	-38.0	-48.3	238.1	26.6	22.5	14.0	331.9	332.5	0.2	32.6	28.6	72.
22.7	94.3	10116.4	275.0	-42.4	99.9	239.8	24.4	21.1	12.3	333.9	999.9	99.9	999.9	30.5	71.
24.3	98.7	10754.1	250.0	-46.8	99.9	244.1	29.5	26.5	12.9	336.5	999.9	99.9	999.9	32.7	71.
26.1	103.2	11449.8	225.0	-48.2	99.9	248.2	37.9	35.2	14.1	344.7	999.9	99.9	999.9	36.6	70.
27.7	108.2	12220.4	200.0	-51.0	99.9	246.4	29.6	27.2	11.9	352.1	999.9	99.9	999.9	39.5	70.
30.0	113.3	13089.0	175.0	-50.7	99.9	247.0	25.3	23.3	9.9	366.3	999.9	99.9	999.9	43.8	70.
32.8	119.0	14085.8	150.0	-54.8	99.9	243.4	23.4	20.9	10.5	375.6	999.9	99.9	999.9	47.5	69.
35.6	125.0	15241.8	125.0	-55.7	99.9	244.9	23.5	21.3	9.9	394.2	999.9	99.9	999.9	51.5	69.
39.4	132.0	16656.8	100.0	-57.8	99.9	999.9	99.9	99.9	99.9	416.0	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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STATION NO. 2
GLENDIVE, MONTANA

31 JULY 1981
240 GMT

120 91. 0

TIME MIN	CNTCT	HEIGHT GPM	PRES ME	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	14.8	803.0	918.2	18.5	6.4	360.0	0.0	0.0	0.0	298.9	316.9	6.6	45.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.5	16.6	978.4	900.0	23.7	1.6	324.2	11.8	6.9	-9.6	306.0	319.7	4.8	23.3	0.2	136.
1.1	19.0	1223.4	875.0	21.8	0.2	321.4	11.4	7.1	-8.9	306.5	319.3	4.4	23.7	0.7	141.
1.7	21.4	1473.7	850.0	19.5	-1.2	314.7	10.5	7.5	-7.4	306.6	318.6	4.1	24.6	1.1	143.
2.3	23.8	1729.3	825.0	17.5	-1.5	308.7	10.4	8.1	-6.5	307.1	319.2	4.2	27.5	1.5	137.
3.0	26.4	1990.7	800.0	14.8	-2.1	300.9	9.8	8.4	-5.0	306.9	318.9	4.1	31.0	1.9	135.
3.7	29.0	2258.1	775.0	12.8	-0.9	280.6	8.8	8.6	-1.6	307.6	321.0	4.6	38.5	2.2	131.
4.3	31.4	2532.5	750.0	10.6	-1.5	265.9	9.5	9.5	0.7	308.1	321.5	4.6	42.9	2.5	126.
5.1	34.0	2813.7	725.0	8.3	-1.5	261.8	13.3	13.2	1.9	309.6	322.4	4.7	49.9	2.8	119.
5.8	36.7	3103.8	700.0	7.5	-6.3	265.9	18.1	18.0	1.3	310.9	321.1	3.4	36.8	3.4	112.
6.5	39.3	3402.2	675.0	5.7	-11.7	270.6	22.0	22.0	-0.2	312.0	319.2	2.3	27.3	4.2	108.
7.3	42.1	3709.7	650.0	4.1	-24.8	269.4	25.8	25.8	0.3	313.6	316.2	0.8	9.9	5.4	104.
8.0	44.9	4027.6	625.0	2.3	-11.7	264.8	26.9	26.8	2.4	315.0	322.8	2.5	34.7	6.4	102.
8.8	47.8	4355.7	600.0	-1.1	-9.4	255.8	24.7	23.9	6.0	314.9	324.5	3.1	53.4	7.6	98.
9.6	50.7	4694.2	575.0	-3.3	-10.0	252.1	27.1	25.8	8.3	316.1	325.7	3.1	59.7	8.7	95.
10.4	53.6	5044.0	550.0	-6.3	-12.2	252.2	29.3	27.9	8.9	316.6	325.1	2.7	63.0	10.0	92.
11.2	56.7	5406.0	525.0	-9.3	-15.6	253.6	29.5	28.3	8.3	317.3	324.1	2.2	60.0	11.3	89.
11.9	59.8	5781.8	500.0	-11.6	-34.3	254.5	28.3	27.3	7.6	318.9	320.4	0.4	13.1	12.5	88.
12.8	63.0	6173.4	475.0	-13.2	-37.0	253.5	27.4	26.2	7.8	321.6	322.8	0.3	11.4	14.0	86.
13.7	66.4	6581.5	450.0	-15.6	-32.0	251.7	27.9	26.4	8.8	323.6	325.6	0.6	22.9	15.3	85.
14.7	69.7	7010.2	425.0	-18.5	-33.6	250.0	30.9	29.1	10.6	325.3	327.1	0.5	24.9	17.1	84.
15.8	73.3	7461.6	400.0	-22.0	-35.3	249.1	30.9	28.9	11.0	326.4	328.0	0.5	28.6	19.0	82.
16.9	76.9	7933.9	375.0	-24.7	-38.9	249.3	30.6	28.6	10.8	329.0	330.2	0.3	25.1	21.0	81.
17.9	80.6	8431.9	350.0	-29.1	-43.1	245.8	27.0	24.6	11.1	329.6	330.5	0.2	24.2	22.7	80.
19.0	84.5	8957.3	325.0	-33.1	-48.2	243.1	25.8	23.0	11.7	331.1	331.6	0.1	20.2	24.5	79.
20.2	88.7	9513.7	300.0	-38.4	-51.0	242.8	27.2	24.2	12.5	331.3	331.7	0.1	24.7	26.2	78.
21.3	93.0	10107.1	275.0	-42.4	99.9	242.1	28.3	25.0	13.2	333.8	999.9	99.9	999.9	28.0	77.
22.6	97.2	10746.3	250.0	-46.0	99.9	243.5	29.2	26.1	13.0	337.7	999.9	99.9	999.9	30.1	76.
24.0	102.0	11442.8	225.0	-48.6	99.9	245.0	31.1	28.2	13.1	344.0	999.9	99.9	999.9	32.6	75.
25.4	106.8	12212.6	200.0	-51.1	99.9	244.7	31.5	28.5	13.4	351.9	999.9	99.9	999.9	35.4	74.
27.1	111.2	13079.3	175.0	-52.0	99.9	249.0	29.3	27.4	10.5	364.1	999.9	99.9	999.9	38.7	73.
29.3	117.7	14075.0	150.0	-53.5	99.9	249.0	24.9	23.2	8.9	378.0	999.9	99.9	999.9	42.0	73.
31.5	123.7	15238.1	125.0	-55.6	99.9	246.7	18.4	16.9	7.3	394.3	999.9	99.9	999.9	45.2	73.
34.7	130.5	16659.0	100.0	-57.1	99.9	999.9	99.9	99.9	99.9	417.5	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

30 JULY 1981
1751 GMT

122 93. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	17.5	903.0	904.1	25.7	16.5	290.0	3.0	2.8	-1.0	307.6	344.0	13.3	57.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	17.9	943.7	900.0	24.5	16.1	296.7	7.8	7.0	-3.5	306.8	342.2	12.9	59.4	0.2	102.
0.6	20.6	1189.3	875.0	22.0	13.8	297.7	9.1	8.0	-4.2	306.7	338.2	11.5	59.5	0.3	125.
1.2	23.2	1441.1	850.0	20.5	13.6	296.1	9.3	8.3	-4.1	307.7	339.8	11.6	64.4	0.6	120.
1.9	25.9	1699.1	825.0	18.4	12.9	292.0	9.7	9.0	-3.6	308.0	339.7	11.5	70.5	1.0	119.
2.5	28.6	1963.1	800.0	14.3	7.4	279.9	12.0	11.8	-2.0	310.6	334.0	8.2	50.3	1.4	115.
3.2	31.3	2235.8	775.0	19.5	-1.6	269.3	14.4	14.4	0.2	314.8	327.9	4.4	24.9	1.9	109.
3.8	34.1	2517.2	750.0	18.3	-4.3	261.0	15.3	15.1	2.4	316.5	327.8	3.7	21.1	2.4	103.
4.5	36.9	2806.9	725.0	15.2	-4.8	248.1	15.1	14.0	5.6	316.1	327.4	3.7	24.8	3.0	98.
5.3	39.9	3101.9	700.0	12.8	-6.6	242.4	17.8	15.8	8.2	316.6	326.9	3.3	25.4	3.6	91.
6.0	42.8	3406.6	675.0	10.9	-7.6	239.7	20.7	17.9	10.5	317.8	327.7	3.2	26.6	4.4	86.
6.7	45.8	3719.3	650.0	7.9	-13.2	235.5	21.2	17.4	12.0	317.9	324.7	2.1	20.9	5.2	81.
7.4	48.9	4041.2	625.0	4.8	-11.5	235.0	22.2	18.2	12.7	318.0	326.0	2.5	29.4	6.0	77.
8.1	51.8	4372.5	600.0	2.1	-14.6	238.0	23.3	19.7	12.3	318.6	325.1	2.0	27.6	6.9	74.
8.8	54.9	4714.4	575.0	-0.6	-15.8	240.5	23.6	20.6	11.6	319.2	325.5	1.9	30.7	7.8	73.
9.4	58.1	5067.3	550.0	-4.2	-16.8	241.6	23.6	20.7	11.2	319.1	325.1	1.9	36.8	8.8	71.
10.1	61.3	5431.7	525.0	-7.7	-17.0	242.0	23.6	20.8	11.1	319.2	325.4	1.9	46.8	9.9	70.
11.1	64.6	5809.9	500.0	-11.1	-17.7	239.9	21.7	18.6	11.2	319.5	325.6	1.9	58.3	11.1	69.
12.1	68.0	6201.1	475.0	-13.3	-17.3	230.5	19.6	15.1	12.4	321.6	328.2	2.1	71.3	12.2	68.
13.1	71.6	6611.2	450.0	-16.1	-19.1	229.3	20.3	15.3	13.2	323.0	329.1	1.9	77.8	13.3	66.
13.9	75.1	7039.6	425.0	-19.8	-22.7	232.3	22.0	17.4	13.5	323.6	328.4	1.4	77.8	14.4	65.
14.8	78.7	7487.1	400.0	-23.2	-26.0	234.1	23.9	19.3	14.0	324.9	328.8	1.1	77.1	15.5	64.
15.8	82.5	7955.9	375.0	-26.6	-28.9	234.4	25.0	20.3	14.5	326.4	329.5	0.9	80.7	17.1	63.
17.0	86.3	8450.9	350.0	-30.3	-40.7	236.2	24.8	20.6	13.8	327.9	329.1	0.3	35.1	18.8	63.
18.3	90.5	8973.3	325.0	-34.8	-50.3	240.7	25.3	22.0	12.4	328.7	329.1	0.1	18.8	20.6	62.
19.3	94.5	9527.9	300.0	-38.6	-54.3	244.5	26.1	23.6	11.3	331.0	331.3	0.1	17.0	22.4	62.
20.6	98.8	10120.4	275.0	-42.2	99.9	248.0	26.6	24.7	10.0	334.1	999.9	99.9	999.9	24.4	63.
22.1	103.3	10750.7	250.0	-46.6	99.9	247.7	24.7	22.9	9.4	336.8	999.9	99.9	999.9	26.6	63.
23.5	108.0	11453.1	225.0	-49.4	99.9	246.1	24.4	22.3	9.9	342.8	999.9	99.9	999.9	28.8	63.
25.2	113.0	12218.4	200.0	-52.5	99.9	244.0	27.1	24.3	11.8	349.7	999.9	99.9	999.9	31.2	63.
27.6	118.4	13079.3	175.0	-53.8	99.9	245.1	27.0	24.5	11.4	361.1	999.9	99.9	999.9	35.2	64.
30.2	124.2	14061.1	150.0	-57.3	99.9	248.7	24.3	22.6	8.8	371.3	999.9	99.9	999.9	39.2	64.
33.3	130.9	15211.2	125.0	-58.5	99.9	245.4	17.6	16.0	7.3	389.1	999.9	99.9	999.9	43.4	65.
36.9	136.2	16608.8	100.0	-58.8	99.9	999.9	99.9	99.9	99.9	414.1	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

30 JULY 1981
2040 GMT

124 89. 9

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	16.0	903.0	905.4	29.2	13.0	340.0	8.0	2.7	-7.5	311.1	340.6	10.5	37.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	17.2	956.0	900.0	26.5	12.2	325.8	12.6	7.1	-10.4	308.8	336.7	10.0	41.0	0.3	157.
0.7	19.9	1203.3	875.0	23.9	11.1	325.7	12.7	7.2	-10.5	308.6	335.3	9.6	44.6	0.5	154.
1.3	22.7	1450.7	850.0	21.1	10.0	325.8	13.6	7.6	-11.3	308.3	333.9	9.2	49.3	1.0	149.
2.0	25.4	1713.5	825.0	18.7	9.7	322.6	14.9	9.1	-11.9	308.3	334.3	9.3	56.2	1.5	148.
2.5	28.1	1977.1	800.0	17.0	9.3	317.5	12.4	8.4	-9.1	309.3	335.3	9.2	60.5	2.0	146.
3.3	30.9	2247.6	775.0	15.1	7.6	306.8	7.5	6.0	-4.5	310.1	334.2	8.5	61.0	2.4	144.
3.9	33.7	2525.1	750.0	13.5	5.0	278.0	7.9	7.8	-1.1	311.2	332.2	7.3	56.4	2.6	142.
4.8	36.6	2809.6	725.0	11.3	-4.4	257.0	13.4	13.1	3.0	311.8	323.2	3.8	32.9	2.9	132.
5.5	39.4	3101.9	700.0	9.8	-6.2	257.9	14.3	13.9	3.0	313.4	323.8	3.4	31.7	3.3	122.
6.4	42.4	3403.9	675.0	7.5	-6.5	258.8	15.7	15.4	3.1	314.1	324.6	3.5	36.1	3.9	115.
7.1	45.3	3712.7	650.0	5.5	-8.8	249.8	17.1	16.1	5.9	315.3	324.6	3.0	34.7	4.5	110.
7.9	48.3	4030.1	625.0	3.5	-15.8	241.7	19.3	17.0	9.1	316.5	322.2	1.8	22.8	5.2	103.
8.8	51.4	4362.1	600.0	1.4	-19.3	238.1	20.6	17.5	10.9	317.8	322.3	1.4	19.6	6.0	95.
9.7	54.6	4709.5	575.0	-2.0	-21.6	236.5	19.6	16.7	10.2	317.7	321.6	1.2	20.5	6.9	90.
10.7	57.9	5074.5	550.0	-4.0	-36.0	243.3	20.6	18.4	9.3	319.4	320.5	0.3	6.3	7.9	86.
11.6	61.0	5419.9	525.0	-6.2	-32.0	242.6	24.7	21.9	11.4	321.0	322.7	0.5	10.8	8.9	83.
12.4	64.4	5799.2	500.0	-9.6	-24.4	236.7	27.9	23.4	15.4	321.4	324.9	1.1	28.6	10.3	80.
13.4	67.8	6192.5	475.0	-13.4	-23.8	236.1	28.4	23.6	15.8	321.4	325.3	1.2	41.1	11.9	76.
14.5	71.4	6602.1	450.0	-16.1	-36.1	241.8	25.5	22.5	12.1	323.0	324.4	0.4	15.9	13.6	74.
15.6	75.0	7029.7	425.0	-19.2	-42.3	238.3	23.7	20.2	12.5	324.3	325.1	0.2	10.8	15.1	73.
16.7	78.6	7478.1	400.0	-22.2	-44.4	237.6	26.1	22.0	14.0	326.1	326.8	0.2	11.1	16.7	71.
17.9	82.3	7948.7	375.0	-25.8	-47.7	240.5	26.8	23.3	13.2	327.4	327.9	0.1	10.7	18.6	70.
19.3	86.3	8443.5	350.0	-29.7	-49.2	243.0	25.9	23.1	11.7	328.7	329.1	0.1	13.0	20.8	69.
20.5	90.3	8967.8	325.0	-33.9	-53.2	241.0	25.4	22.2	12.3	329.9	330.3	0.1	12.1	22.6	69.
21.8	94.5	9524.7	300.0	-37.6	-55.8	243.1	24.2	21.6	11.0	332.4	332.7	0.1	12.8	24.5	68.
23.1	98.8	10119.9	275.0	-41.6	99.9	241.1	21.1	18.5	10.2	335.0	999.9	99.9	999.9	26.2	68.
24.5	103.3	10759.9	250.0	-46.1	99.9	244.0	24.0	21.5	10.5	337.6	999.9	99.9	999.9	28.1	67.
25.9	108.0	11453.7	225.0	-49.8	99.9	244.3	25.4	22.9	11.0	342.1	999.9	99.9	999.9	30.2	67.
27.5	113.0	12217.6	200.0	-53.4	99.9	244.2	26.6	24.0	11.6	348.3	999.9	99.9	999.9	32.7	67.
29.5	118.2	13076.1	175.0	-53.5	99.9	249.5	27.7	26.0	9.7	361.5	999.9	99.9	999.9	35.9	67.
31.9	123.8	14066.4	150.0	-55.1	99.9	245.3	28.0	25.4	11.7	375.2	999.9	99.9	999.9	39.8	67.
35.0	129.7	15219.2	125.0	-57.8	99.9	240.2	22.2	19.3	11.0	390.4	999.9	99.9	999.9	44.6	67.
38.9	136.2	16623.0	100.0	-54.5	99.9	999.9	99.9	99.9	99.9	422.5	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 3
BAKER, MONTANA

31 JULY 1981
240 G4T

117 106. 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 PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.5	903.0	907.6	23.0	5.4	360.0	1.0	0.0	-1.0	304.5	322.0	6.2	32.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.2	17.3	976.5	900.0	24.1	4.2	353.8	8.3	0.9	-8.3	306.3	322.7	5.7	27.4	0.2	186.
0.8	19.9	1222.2	875.0	22.9	2.6	350.9	7.9	1.3	-7.8	307.5	322.8	5.3	26.5	0.4	182.
1.4	22.4	1473.5	850.0	20.8	2.3	338.8	6.7	2.4	-6.2	308.0	323.3	5.3	29.4	0.7	176.
2.0	25.0	1730.2	825.0	18.6	0.9	321.6	5.7	3.5	-4.5	308.3	322.7	5.0	30.4	0.9	170.
2.6	27.7	1993.0	800.0	16.1	0.1	302.6	6.3	5.3	-3.4	308.3	322.4	4.8	33.6	1.1	163.
3.4	30.3	2261.9	775.0	14.0	-0.3	295.3	9.0	8.2	-3.9	308.9	323.0	4.8	37.4	1.3	153.
4.0	33.0	2537.2	750.0	11.6	-1.8	291.6	11.9	11.1	-4.4	309.2	322.3	4.5	39.2	1.6	144.
4.7	35.8	2820.5	725.0	11.4	-4.3	279.3	13.1	13.0	-2.1	312.0	323.5	3.9	33.0	2.1	135.
5.4	38.5	3113.2	700.0	9.9	-3.4	262.5	14.4	14.3	1.9	313.5	326.3	4.3	39.0	2.6	126.
6.2	41.4	3414.7	675.0	8.5	-7.4	255.5	17.1	16.6	4.3	315.2	325.1	3.2	31.4	3.1	116.
7.0	44.2	3725.5	650.0	6.0	-10.8	256.1	19.4	18.9	4.7	315.7	323.8	2.6	28.7	3.8	107.
7.7	47.1	4045.2	625.0	3.7	-14.1	257.2	22.3	21.8	4.9	316.6	323.1	2.0	25.8	4.6	101.
8.5	50.1	4375.0	600.0	1.0	-14.3	257.4	26.2	25.6	5.7	317.3	323.9	2.1	30.7	5.7	97.
9.3	53.1	4715.2	575.0	-2.1	-18.4	255.2	27.1	26.2	6.9	317.5	322.5	1.6	27.5	6.9	93.
10.2	56.1	5067.0	550.0	-4.5	-23.6	252.8	27.2	25.9	8.0	318.8	322.2	1.0	20.8	8.3	90.
11.2	59.1	5431.1	525.0	-7.5	-25.9	251.1	28.0	26.5	9.1	319.4	322.4	0.9	21.3	9.9	87.
12.1	62.4	5808.7	500.0	-10.6	-29.9	251.9	28.2	26.8	8.8	320.1	322.3	0.6	18.6	11.2	85.
13.9	65.6	6201.1	475.0	-13.7	-33.0	252.2	26.0	24.8	8.0	321.1	322.8	0.5	17.6	12.7	83.
13.9	69.0	6609.1	450.0	-16.9	-35.8	251.0	25.6	24.2	8.3	322.0	323.4	0.4	17.4	14.1	82.
14.8	72.3	7036.7	425.0	-19.1	-38.7	251.0	27.2	25.7	8.9	324.5	325.6	0.3	15.7	15.5	81.
15.9	75.9	7484.8	400.0	-22.5	-40.3	249.5	27.4	25.7	9.6	325.8	326.8	0.3	17.8	17.2	80.
16.8	79.5	7955.4	375.0	-26.2	-40.3	248.1	27.0	25.1	10.1	326.9	328.0	0.3	25.0	18.8	79.
18.0	83.3	8450.7	350.0	-30.3	-43.6	248.2	27.3	25.4	10.1	328.0	328.8	0.2	25.7	20.6	78.
19.2	87.2	8973.4	325.0	-34.2	-48.5	245.6	28.6	26.0	11.8	329.5	330.0	0.1	21.9	22.6	77.
20.4	91.2	9528.8	300.0	-38.3	-52.3	243.8	31.9	28.6	14.0	331.4	331.8	0.1	20.9	24.7	76.
21.7	95.3	10121.9	275.0	-42.6	99.9	243.1	34.4	30.7	15.6	333.5	999.9	99.9	999.9	27.2	75.
23.0	99.8	10758.8	250.0	-47.0	99.9	241.7	34.9	30.0	16.1	336.2	999.9	99.9	999.9	29.9	74.
24.6	104.4	11451.2	225.0	-50.2	99.9	244.4	33.2	29.9	14.4	341.7	999.9	99.9	999.9	32.9	73.
26.4	109.4	12219.5	200.0	-50.4	99.9	245.6	32.0	29.1	13.2	353.0	999.9	99.9	999.9	36.6	72.
28.5	114.7	13089.2	175.0	-52.5	99.9	251.5	29.2	27.6	9.3	363.2	999.9	99.9	999.9	40.4	72.
30.8	120.5	14078.9	150.0	-55.6	99.9	253.1	21.8	20.8	6.3	374.3	999.9	99.9	999.9	44.1	72.
34.1	126.7	15229.0	125.0	-60.1	99.9	999.9	99.9	99.9	99.9	386.1	999.9	99.9	999.9	47.9	71.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

30 JULY 1981
1745 GMT

123 87. 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 PCT T DG K	MX RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	18.6	954.0	899.5	28.3	13.0	345.0	4.0	1.0	-3.9	310.7	340.5	10.6	39.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	900.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	21.1	1196.9	875.0	22.6	9.8	221.3	5.2	3.4	3.9	307.2	331.7	8.8	44.4	0.4	147.
1.3	23.8	1448.4	850.0	20.3	10.3	290.6	5.3	4.9	-1.9	307.5	333.4	9.3	52.4	0.5	127.
2.0	26.4	1705.2	825.0	17.8	9.2	306.7	7.7	6.2	-4.6	307.4	332.2	8.9	57.1	0.8	128.
3.1	29.2	1967.7	800.0	16.1	7.1	298.5	9.6	8.4	-4.6	308.3	330.8	8.0	55.3	1.3	126.
4.0	31.9	2233.1	775.0	15.7	6.2	283.7	9.7	9.5	-2.3	310.7	332.8	7.7	53.1	1.9	122.
4.9	34.6	2516.2	750.0	14.9	1.2	265.7	12.7	12.6	0.9	312.8	329.1	5.6	39.4	2.4	116.
5.7	37.4	2803.1	725.0	14.6	-5.6	256.6	14.8	14.4	3.4	315.5	326.1	3.5	24.3	3.0	108.
6.6	40.3	3098.1	700.0	12.1	-6.6	246.0	16.0	14.6	6.5	315.8	326.1	3.3	26.5	3.7	99.
7.5	43.2	3401.2	675.0	9.6	-7.4	243.5	15.5	13.9	6.9	316.4	326.4	3.3	29.3	4.4	94.
8.3	46.1	3713.8	650.0	6.7	-7.8	233.2	15.8	12.7	9.5	316.6	326.6	3.3	34.6	5.0	89.
9.1	49.1	4035.4	625.0	4.0	-8.4	224.7	17.7	12.4	12.6	317.0	327.0	3.3	40.1	5.6	83.
9.9	52.1	4367.9	600.0	1.3	-11.8	223.6	19.0	13.1	13.8	317.6	325.7	2.6	36.9	6.4	78.
10.8	55.3	4709.8	575.0	-1.0	-19.0	228.0	21.7	16.1	14.5	318.9	323.7	1.5	23.9	7.3	73.
11.6	58.4	5057.7	550.0	-4.3	-19.4	232.1	22.2	17.5	13.6	319.0	323.9	1.5	29.4	8.3	70.
12.5	61.6	5412.3	525.0	-7.7	-22.8	236.9	22.9	19.2	12.5	319.2	323.0	1.2	28.4	9.4	69.
13.6	64.9	5799.6	500.0	-10.2	-28.1	238.1	26.5	22.5	14.0	320.7	323.2	0.7	21.3	11.0	67.
14.7	68.3	6193.3	475.0	-13.1	-22.9	235.0	27.4	22.4	15.7	321.8	326.0	1.3	43.6	12.8	66.
15.9	71.7	6603.5	450.0	-15.5	-22.6	231.2	28.8	22.5	18.1	323.7	328.3	1.4	54.7	14.7	64.
17.3	75.3	7032.9	425.0	-18.3	-25.4	230.3	29.5	22.7	18.9	325.5	329.3	1.1	53.7	16.6	62.
18.8	78.9	7482.5	400.0	-22.2	-27.1	228.7	28.5	21.4	18.9	326.2	329.7	1.0	63.8	18.4	61.
19.1	82.7	7953.3	375.0	-26.2	-30.4	227.8	26.9	19.9	18.1	327.0	329.8	0.8	67.0	20.1	60.
20.1	86.5	8449.3	350.0	-29.9	-34.2	228.9	26.6	20.0	17.5	328.5	330.6	0.6	66.1	21.9	59.
21.4	90.5	8973.3	325.0	-33.3	-48.4	230.5	25.4	19.6	16.1	330.8	331.3	0.2	21.4	23.7	58.
22.9	94.7	9531.0	300.0	-37.4	-55.3	237.9	25.6	21.7	13.6	332.7	332.9	0.1	13.4	25.6	58.
24.3	99.3	10127.2	275.0	-41.5	99.9	242.7	23.7	21.0	10.9	335.1	999.9	99.9	999.9	27.9	58.
25.4	103.4	10767.5	250.0	-46.4	99.9	242.2	23.0	20.4	10.7	337.0	999.9	99.9	999.9	29.6	58.
26.9	108.2	11460.7	225.0	-51.3	99.9	239.2	25.0	21.5	12.8	341.5	999.9	99.9	999.9	31.6	59.
28.4	113.2	12225.9	200.0	-52.6	99.9	240.1	27.0	23.4	13.5	349.6	999.9	99.9	999.9	34.1	59.
30.6	118.6	13096.7	175.0	-53.2	99.9	240.4	29.9	26.0	14.8	362.1	999.9	99.9	999.9	37.6	59.
33.4	124.2	14072.9	150.0	-55.8	99.9	247.0	28.4	26.1	11.1	374.0	999.9	99.9	999.9	42.9	59.
36.5	130.2	15227.8	125.0	-56.2	99.9	235.2	20.0	16.5	11.4	393.3	999.9	99.9	999.9	47.5	60.
40.0	136.5	16634.9	100.0	-59.1	99.9	999.9	99.9	99.9	99.9	413.6	999.9	99.9	999.9	50.5	59.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

30 JULY 1981
2040 GMT

114 102. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	17.3	954.0	901.4	29.0	8.1	330.0	4.0	2.0	-3.5	311.3	333.0	7.6	27.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	17.4	967.8	900.0	28.7	8.3	315.3	3.8	2.7	-2.7	311.1	333.0	7.7	27.8	0.1	31.
0.5	19.8	1216.7	875.0	25.7	8.1	260.0	3.3	3.3	0.6	310.5	332.7	7.8	32.6	0.5	161.
0.9	22.4	1470.4	850.0	22.9	6.9	291.8	4.8	4.4	-1.8	310.1	331.1	7.4	35.7	0.5	153.
1.3	24.9	1729.3	825.0	20.4	6.1	312.5	7.8	5.7	-5.3	310.2	330.8	7.2	39.3	0.6	147.
1.8	27.5	1993.6	800.0	17.3	5.0	321.9	9.6	5.9	-7.6	309.6	329.3	6.9	44.1	0.9	145.
2.4	30.1	2263.4	775.0	14.3	3.7	316.2	8.6	6.0	-6.2	309.1	327.7	6.5	49.1	1.2	144.
3.2	32.7	2539.4	750.0	11.9	2.4	290.8	8.8	8.3	-3.1	309.5	327.0	6.1	52.3	1.7	141.
4.0	35.4	2823.4	725.0	11.8	0.4	273.0	10.9	10.9	-0.6	312.4	328.4	5.4	45.2	2.0	133.
4.8	38.2	3117.0	700.0	11.3	-4.8	262.0	14.0	13.9	2.0	315.0	326.6	3.8	32.0	2.5	122.
5.5	40.9	3419.5	675.0	8.8	-6.5	254.5	16.0	15.4	4.3	315.5	326.1	3.5	33.1	3.0	114.
6.1	43.7	3730.6	650.0	6.3	-7.5	242.7	16.6	14.8	7.6	316.1	326.3	3.3	36.5	3.5	106.
6.9	46.5	4050.4	625.0	3.4	-9.0	237.0	17.8	14.9	9.7	316.3	325.9	3.1	39.7	4.0	98.
7.7	49.4	4380.1	600.0	0.7	-11.0	239.5	19.4	16.7	9.8	316.9	325.5	2.8	41.2	4.8	90.
8.6	52.3	4719.9	575.0	-2.2	-20.0	242.7	20.2	18.0	9.3	317.4	322.0	1.4	24.8	5.7	85.
9.5	55.3	5071.9	550.0	-4.0	-25.6	243.5	22.9	20.5	10.2	319.3	322.2	0.9	16.6	6.8	82.
10.4	58.4	5436.3	525.0	-6.9	-27.7	244.2	25.8	23.2	11.2	320.2	322.7	0.7	17.1	8.1	79.
11.3	61.5	5815.3	500.0	-9.5	-30.6	243.4	24.9	22.2	11.1	321.4	323.5	0.6	15.9	9.5	77.
12.2	64.8	6210.0	475.0	-11.8	-32.4	241.7	24.4	21.4	11.6	323.3	325.2	0.5	16.1	10.7	75.
13.2	68.0	6621.2	450.0	-15.2	-35.6	244.6	25.1	22.6	10.8	324.2	325.6	0.4	15.4	12.1	73.
14.1	71.4	7050.3	425.0	-18.5	-37.9	243.3	26.6	23.8	11.9	325.2	326.5	0.3	16.2	13.5	73.
15.1	74.9	7498.7	400.0	-22.4	-40.8	226.5	27.8	20.1	19.1	325.9	326.9	0.3	16.9	15.0	71.
16.2	78.4	7970.2	375.0	-25.4	-42.6	236.7	26.9	22.5	14.8	328.0	328.8	0.2	18.1	16.8	68.
17.2	82.0	8466.9	350.0	-29.1	-43.5	237.9	25.4	21.6	13.5	329.5	330.3	0.2	23.1	18.3	67.
18.3	85.9	8993.3	325.0	-32.3	-47.5	239.9	25.6	22.1	12.9	332.2	332.8	0.2	20.0	19.9	67.
19.4	89.8	9553.3	300.0	-36.9	-51.4	244.5	25.4	22.9	10.9	333.3	333.8	0.1	20.4	21.7	66.
20.7	93.8	10149.1	275.0	-41.4	99.9	243.6	23.6	21.1	10.5	335.2	999.9	99.9	999.9	23.6	66.
22.1	97.8	10788.9	250.0	-46.0	99.9	239.0	27.7	23.7	14.3	337.7	999.9	99.9	999.9	25.5	66.
23.6	102.4	11484.7	225.0	-49.1	99.9	240.2	28.4	24.6	14.1	343.3	999.9	99.9	999.9	28.1	65.
25.6	107.2	12254.6	200.0	-51.3	99.9	235.5	28.2	23.2	16.0	351.6	999.9	99.9	999.9	31.4	64.
27.8	112.4	13117.2	175.0	-53.3	99.9	240.5	29.6	25.7	14.5	361.9	999.9	99.9	999.9	35.2	64.
30.5	118.0	14105.7	150.0	-54.8	99.9	240.1	27.1	23.5	13.5	375.6	999.9	99.9	999.9	40.0	63.
33.8	124.0	15263.8	125.0	-56.0	99.9	999.9	99.9	99.9	99.9	393.6	999.9	99.9	999.9	44.6	63.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

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* BY TEMP MEANS TEMPERATURE OR TIME HAVE BEEN INTERPOLATED
** BY SPEED MEANS ELEVATION ANGLE LESS THAN 6 DEG

STATION NO. 4
KNOWLTON, MONTANA

30 JULY 1981
2340 GMT

25 673. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	16.6	954.0	901.8	28.2	4.5	340.0	3.0	1.0	-2.8	310.4	327.4	5.9	22.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.0	16.8	971.7	900.0	27.5	3.3	325.1	5.5	3.1	-4.5	309.8	325.6	5.4	21.2	0.1	77.
0.7	19.3	1218.9	875.0	24.0	0.8	312.1	8.3	6.1	-5.5	308.7	322.3	4.6	21.7	0.2	151.
1.3	21.7	1471.0	850.0	21.9	0.5	314.8	8.1	5.8	-5.7	309.1	322.7	4.7	24.0	0.6	142.
2.1	24.2	1728.5	825.0	19.2	-0.8	307.6	7.8	6.2	-4.8	308.9	321.8	4.4	25.9	0.9	138.
2.9	26.7	1991.6	800.0	16.7	-1.5	307.0	7.8	6.2	-4.7	309.0	321.5	4.3	29.7	1.3	135.
3.7	29.2	2260.7	775.0	14.2	-2.3	307.7	7.8	6.2	-4.8	309.0	321.3	4.2	32.0	1.6	133.
4.4	31.8	2536.2	750.0	11.9	-2.5	306.4	8.4	6.7	-5.0	309.5	322.0	4.2	36.4	2.0	132.
5.2	34.4	2819.1	725.0	10.6	-4.1	999.9	99.9	99.9	99.9	311.1	322.7	3.9	35.3	2.4	130.
6.1	37.1	3111.5	700.0	10.4	-5.4	999.9	99.9	99.9	99.9	314.1	325.2	3.7	32.4	999.9	999.
6.9	39.8	3413.2	675.0	8.3	-6.8	999.9	99.9	99.9	99.9	315.0	325.3	3.4	33.4	999.9	999.
99.9	99.9	99.9	650.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	625.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	600.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	575.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	550.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	525.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	500.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	475.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	450.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	425.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	400.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	375.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	350.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	325.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	300.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	275.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	250.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	225.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	200.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	175.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	150.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	125.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 4
KNOWLTON, MONTANA

31 JULY 1981
240 CNT

127 88. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	17.5	954.0	902.8	23.4	3.4	360.0	0.0	0.0	0.0	305.4	320.8	5.4	27.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.1	17.8	981.1	900.0	23.5	2.9	342.4	3.9	1.2	-3.7	305.8	320.8	5.3	25.9	0.1	268.
0.8	20.3	1226.5	875.0	22.1	2.2	336.7	6.8	2.7	-6.2	306.7	321.5	5.1	26.9	0.3	195.
1.5	22.8	1476.6	850.0	19.4	0.8	344.9	7.0	1.8	-6.8	306.4	320.2	4.8	28.8	0.5	175.
2.1	25.4	1730.1	825.0	16.9	-1.5	336.8	6.4	2.5	-5.9	306.5	318.6	4.2	28.3	0.8	170.
2.8	28.1	1988.2	800.0	14.8	-4.3	316.5	5.1	3.3	-3.9	306.9	317.2	3.5	26.5	1.0	165.
3.5	30.7	2250.2	775.0	12.2	-3.2	307.5	5.6	4.4	-3.4	307.0	318.3	3.9	33.8	1.2	160.
4.2	33.4	2516.8	750.0	9.6	-3.7	299.6	5.5	5.2	-1.9	307.0	318.4	3.9	38.8	1.4	154.
5.0	36.3	2788.0	725.0	7.2	-3.7	278.7	6.2	6.1	-0.9	307.4	319.1	4.0	45.5	1.6	146.
5.7	39.1	3063.5	700.0	4.3	-4.7	283.4	9.1	8.8	-2.1	307.3	318.6	3.9	51.8	1.8	139.
6.4	42.0	3344.6	675.0	2.4	-6.2	272.8	13.8	13.8	-0.7	308.3	318.8	3.6	53.1	2.2	132.
7.2	44.9	3631.7	650.0	1.6	-6.3	261.8	18.1	17.9	2.6	310.6	321.8	3.7	55.7	2.6	121.
8.1	48.0	4017.2	625.0	0.7	-10.9	256.0	22.7	22.0	5.5	313.3	321.4	2.7	41.3	3.7	109.
9.3	51.1	4344.3	600.0	-0.8	-16.6	250.8	26.3	24.9	8.6	315.2	320.7	1.7	28.9	5.3	97.
10.3	54.3	4682.6	575.0	-3.3	-19.6	248.5	27.2	25.3	10.0	316.2	320.7	1.4	26.9	6.7	91.
11.2	57.5	5032.2	550.0	-6.5	-25.0	245.1	28.1	25.5	11.8	316.4	319.4	0.9	21.3	8.1	87.
12.2	60.9	5393.3	525.0	-9.7	-27.5	246.8	27.7	25.4	10.9	316.8	319.3	0.8	21.5	9.6	83.
13.3	64.3	5769.2	500.0	-12.3	-34.2	251.6	26.5	25.1	8.3	318.1	319.5	0.4	14.1	11.0	81.
14.9	67.9	6159.4	475.0	-14.8	-35.2	252.5	24.8	23.6	7.4	319.7	321.1	0.4	15.5	12.4	80.
14.9	71.4	6565.2	450.0	-17.6	-33.3	251.2	26.6	25.2	8.6	321.1	322.8	0.5	24.0	13.9	79.
16.0	75.1	6987.9	425.0	-20.2	-35.6	251.3	25.4	24.1	8.1	323.1	324.6	0.4	23.7	15.6	78.
17.1	79.0	7428.7	400.0	-24.0	-40.1	247.2	25.6	23.6	10.0	323.9	324.9	0.3	20.7	17.2	78.
18.3	83.0	7888.1	375.0	-27.8	-42.0	240.0	27.7	24.0	13.9	324.8	325.7	0.2	24.2	19.0	76.
19.4	87.0	8365.8	350.0	-31.9	-44.3	243.0	28.5	25.4	13.0	325.8	326.6	0.2	27.6	20.8	75.
20.6	91.3	8864.5	325.0	-36.5	-47.6	245.4	27.7	25.2	11.6	326.4	326.9	0.2	30.5	22.8	74.
21.7	95.6	9385.0	300.0	-39.8	99.9	240.7	28.6	24.9	14.0	329.2	999.9	99.9	999.9	24.7	73.
22.9	100.2	10054.3	275.0	-44.0	99.9	232.6	31.7	25.2	19.3	331.5	999.9	99.9	999.9	26.6	72.
24.2	105.2	10687.7	250.0	-48.2	99.9	238.1	32.2	27.3	17.0	334.5	999.9	99.9	999.9	29.2	70.
25.7	110.2	11376.5	225.0	-51.3	99.9	243.9	32.3	29.0	14.2	339.9	999.9	99.9	999.9	31.9	69.
27.1	115.4	12139.5	200.0	-52.9	99.9	246.2	32.8	30.0	13.2	349.0	999.9	99.9	999.9	34.8	69.
29.2	121.0	13001.7	175.0	-53.3	99.9	245.9	30.2	27.6	12.4	361.9	999.9	99.9	999.9	38.6	69.
31.8	127.0	13991.5	150.0	-55.3	99.9	248.7	23.2	21.6	8.4	374.9	999.9	99.9	999.9	42.8	69.
34.8	133.2	15140.7	125.0	-60.9	99.9	246.0	18.6	17.0	7.5	384.7	999.9	99.9	999.9	46.4	69.
38.3	139.7	16529.9	100.0	-61.8	99.9	999.9	99.9	99.9	99.9	408.4	999.9	99.9	999.9	49.5	68.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

30 JULY 1981
1757 GMT

118 87. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.5	968.0	909.3	25.8	14.3	270.0	5.0	5.0	0.0	307.2	338.6	11.4	49.0	0.0	*.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.4	956.7	900.0	25.6	13.7	308.6	7.0	5.5	-4.4	307.9	338.5	11.1	47.9	0.2	92.
0.9	18.7	1204.2	875.0	23.9	13.0	307.1	7.4	5.9	-4.4	308.6	338.8	10.8	50.3	0.4	108.
1.4	21.1	1456.7	850.0	20.8	11.6	304.6	6.9	5.7	-3.9	308.0	336.4	10.2	55.6	0.6	116.
2.0	23.6	1714.2	825.0	18.5	10.6	302.7	6.3	5.3	-3.4	308.2	335.5	9.8	59.8	0.8	118.
2.7	26.1	1977.7	800.0	17.1	9.4	296.4	8.1	7.2	-3.6	309.4	335.6	9.3	60.4	1.1	119.
3.5	28.7	2248.9	775.0	17.1	4.6	279.7	10.6	10.4	-1.8	312.2	332.2	6.9	43.4	1.5	116.
4.3	31.2	2529.6	750.0	16.7	2.0	261.5	15.1	15.0	2.2	314.7	332.2	5.9	37.2	2.0	109.
5.0	33.8	2817.1	725.0	16.2	-1.4	252.2	16.1	15.4	4.9	317.2	331.6	4.8	29.9	2.7	100.
5.8	36.4	3114.3	700.0	13.9	-3.2	243.5	16.9	15.1	7.5	317.9	331.1	4.3	30.3	3.4	93.
6.5	39.0	3419.4	675.0	11.8	-6.7	241.2	17.1	15.0	8.2	318.9	329.5	3.4	26.7	4.0	88.
7.3	41.8	3733.6	650.0	9.1	-8.6	238.6	17.5	14.9	9.1	319.3	328.9	3.1	27.7	4.7	83.
8.2	44.6	4056.9	625.0	6.5	-11.0	238.2	19.3	16.4	10.2	319.9	328.2	2.6	27.3	5.6	79.
9.0	47.4	4390.2	600.0	3.5	-12.3	239.4	20.7	17.8	10.5	320.2	328.1	2.5	30.3	6.6	76.
9.9	50.3	4733.7	575.0	0.7	-13.3	240.3	21.6	17.9	10.2	320.8	328.5	2.4	34.2	7.5	74.
10.6	53.2	5083.5	550.0	-2.5	-16.9	243.3	20.2	18.0	9.1	321.2	327.2	1.8	31.9	8.5	72.
11.4	56.2	5455.3	525.0	-6.1	-18.9	246.3	19.6	17.9	7.9	321.1	326.5	1.7	35.9	9.5	72.
12.1	59.3	5834.9	500.0	-9.7	-18.8	246.5	20.3	18.6	8.1	321.3	326.9	1.7	47.4	10.5	71.
13.2	62.4	6228.5	475.0	-13.2	-18.5	244.4	21.2	19.1	9.2	321.6	327.7	1.9	64.3	11.6	71.
14.3	65.6	6638.1	450.0	-15.9	-17.6	237.0	21.7	18.2	11.8	323.3	330.2	2.1	87.1	13.0	70.
15.3	68.9	7066.9	425.0	-18.5	-19.2	227.7	21.1	15.6	14.2	325.2	331.7	2.0	94.5	14.2	68.
16.4	72.3	7517.0	400.0	-21.4	-26.2	227.2	20.9	15.3	14.2	327.1	331.0	1.1	65.3	15.5	66.
17.5	75.9	7989.5	375.0	-25.1	-29.2	232.9	22.0	17.6	13.3	328.4	331.6	0.9	68.2	16.8	65.
18.5	79.4	8486.7	350.0	-29.3	-38.5	239.0	23.6	20.2	12.1	329.3	330.7	0.4	45.1	18.3	64.
19.7	83.1	9010.8	325.0	-33.9	-45.6	241.0	25.0	22.3	11.3	330.0	330.7	0.2	29.2	19.9	64.
20.9	87.0	9566.2	300.0	-37.2	-48.6	244.5	25.9	23.3	11.1	332.9	333.5	0.1	29.3	21.9	64.
22.2	91.0	10154.8	275.0	-40.8	99.9	240.1	21.5	18.6	10.7	336.1	999.9	99.9	999.9	23.7	64.
23.6	95.3	10778.2	250.0	-45.1	99.9	241.2	19.5	17.1	9.4	339.0	999.9	99.9	999.9	25.8	64.
25.4	99.8	11437.8	225.0	-49.9	99.9	244.9	22.1	20.0	9.4	342.0	999.9	99.9	999.9	27.7	64.
27.7	104.6	12269.7	200.0	-52.1	99.9	244.1	23.7	21.4	10.4	350.2	999.9	99.9	999.9	30.7	64.
30.2	109.9	13130.6	175.0	-53.4	99.9	245.1	23.2	21.0	9.8	361.8	999.9	99.9	999.9	34.4	64.
33.1	115.2	14116.3	150.0	-56.9	99.9	247.3	22.4	20.6	8.6	372.1	999.9	99.9	999.9	38.1	64.
36.2	121.4	15265.6	125.0	-57.0	99.9	249.9	21.9	20.6	7.5	391.8	999.9	99.9	999.9	42.3	65.
39.9	128.2	16666.6	100.0	-59.5	99.9	999.9	99.9	99.9	99.9	412.7	999.9	99.9	999.9	46.6	64.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

30 JULY 1981
2043 GMT

119 90. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.4	866.0	909.6	29.2	10.8	325.0	10.0	5.7	-8.2	310.7	336.2	9.0	32.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.3	901.3	900.0	27.9	8.8	322.4	11.1	6.8	-8.8	310.2	332.8	7.9	30.1	0.3	145.
0.9	19.7	1209.9	875.0	25.8	8.4	326.4	10.3	5.7	-8.5	310.6	333.2	7.9	33.2	0.5	144.
1.5	21.2	1462.9	850.0	23.0	7.6	337.4	9.3	3.6	-8.6	310.3	332.4	7.7	37.1	0.9	147.
2.1	23.7	1722.2	825.0	20.9	7.4	345.1	9.4	2.4	-9.1	310.7	333.2	7.9	41.8	1.2	152.
2.7	26.2	1987.3	800.0	18.4	7.0	345.2	7.9	2.0	-7.7	310.8	333.4	7.9	47.4	1.6	155.
3.4	28.7	2258.7	775.0	16.6	4.7	318.3	7.2	4.8	-5.4	311.7	331.8	7.0	45.1	1.9	156.
4.2	31.3	2537.6	750.0	16.0	1.0	287.5	10.1	9.7	-3.0	314.0	330.3	5.5	36.3	2.2	150.
4.9	34.0	2825.1	725.0	14.7	-3.9	274.5	12.3	12.3	-1.0	315.6	327.6	4.0	27.3	2.5	141.
5.7	36.7	3121.2	700.0	12.7	-4.8	268.7	14.4	14.1	2.8	316.6	328.2	3.8	29.1	3.0	131.
6.4	39.3	3424.8	675.0	10.1	-6.2	266.5	15.8	14.5	6.3	317.0	327.9	3.6	31.0	3.4	121.
7.3	42.1	3737.3	650.0	8.0	-7.0	270.1	17.4	14.9	8.9	318.1	328.8	3.5	33.7	3.9	109.
8.2	44.9	4059.2	625.0	5.1	-9.9	269.1	18.5	15.9	9.5	318.3	327.3	2.9	32.8	4.5	100.
9.1	47.8	4390.7	600.0	2.1	-13.0	242.2	19.3	17.1	9.0	318.5	325.9	2.3	31.8	5.3	93.
9.9	51.7	4732.4	575.0	-1.0	-16.3	247.8	21.7	20.1	8.2	318.8	324.8	1.9	30.3	6.2	89.
10.8	53.6	5085.0	550.0	-4.1	-24.3	251.5	22.3	21.1	7.1	319.2	322.6	1.0	20.0	7.4	86.
11.9	56.6	5450.4	525.0	-6.3	-28.8	253.3	20.9	20.0	6.0	320.9	323.2	0.7	14.7	8.6	84.
12.7	59.8	5829.6	500.0	-9.5	-30.9	252.1	21.3	20.3	6.6	321.4	323.4	0.6	15.5	9.8	83.
13.8	62.9	6223.4	475.0	-12.4	-33.5	247.9	23.9	22.1	9.0	322.6	324.2	0.5	15.2	11.2	81.
15.0	66.1	6633.5	450.0	-15.7	-35.6	243.3	23.4	20.9	10.5	323.6	325.0	0.4	16.0	12.5	79.
16.1	69.5	7063.2	425.0	-17.9	-37.8	243.4	24.8	22.2	11.1	326.0	327.2	0.3	15.5	14.4	77.
17.3	72.9	7513.3	400.0	-21.2	-39.9	246.5	26.4	24.2	10.5	327.5	328.6	0.3	16.5	16.2	76.
18.5	76.4	7986.4	375.0	-24.8	-42.4	243.5	24.4	21.8	10.9	328.7	329.6	0.2	17.5	18.0	75.
19.7	80.1	8484.3	350.0	-28.7	-45.7	241.1	22.9	20.1	11.1	330.0	330.7	0.2	17.6	19.6	74.
21.1	84.0	9010.3	325.0	-33.1	-49.2	241.0	25.2	22.0	12.2	331.1	331.6	0.1	18.0	21.6	73.
22.7	88.2	9568.1	300.0	-37.4	-52.3	240.9	25.1	21.9	12.2	332.7	333.1	0.1	19.2	24.0	71.
24.7	92.2	10163.7	275.0	-42.0	99.9	243.6	23.9	20.5	10.2	334.3	999.9	99.9	999.9	26.8	70.
26.9	96.5	10800.3	250.0	-45.6	99.9	247.0	27.3	25.1	10.7	338.2	999.9	99.9	999.9	30.1	70.
29.2	101.3	11500.6	225.0	-49.1	99.9	248.0	24.7	22.9	9.3	343.3	999.9	99.9	999.9	33.9	70.
32.0	106.3	12269.6	200.0	-51.8	99.9	249.4	24.0	22.5	8.4	350.7	999.9	99.9	999.9	37.7	69.
34.9	111.2	13131.5	175.0	-53.3	99.9	249.5	26.7	25.0	9.4	361.9	999.9	99.9	999.9	42.2	69.
37.9	116.9	14117.9	150.0	-55.8	99.9	244.0	22.0	19.8	9.6	374.0	999.9	99.9	999.9	46.4	69.
41.2	123.0	15267.4	125.0	-59.8	99.9	234.6	23.5	19.2	13.6	386.8	999.9	99.9	999.9	51.4	68.
45.5	130.0	16668.2	100.0	-55.3	99.9	244.4	20.2	18.2	8.7	420.8	999.9	99.9	999.9	56.3	67.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

30 JULY 1981
2344 GMT

119 87. 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 RTO GM/KG	RH PCT	RANGE KM	AZ DG
0.0	15.5	966.0	910.3	29.2	6.6	320.0	5.0	3.2	-3.8	310.6	330.0	6.7	24.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.3	16.6	967.3	900.0	28.0	2.1	329.2	8.3	4.2	-7.1	310.4	324.9	5.0	18.8	0.2	147.
0.9	19.1	1315.4	875.0	26.3	1.3	332.6	8.5	3.9	-7.6	311.1	325.3	4.8	19.6	0.4	148.
1.5	21.5	1669.2	850.0	23.4	1.2	341.6	8.3	2.6	-7.9	310.7	325.2	4.9	23.2	0.7	151.
2.2	24.1	1729.0	825.0	20.8	0.9	348.8	7.8	1.5	-7.6	310.6	325.1	5.0	26.5	1.0	157.
2.8	26.6	1992.9	800.0	19.6	1.4	351.8	6.8	1.0	-6.7	311.0	326.5	5.3	31.4	1.3	160.
3.4	29.2	2264.0	775.0	15.9	1.0	350.5	5.8	1.0	-5.7	310.9	326.5	5.3	36.5	1.5	162.
4.0	31.8	2541.5	750.0	13.8	0.2	332.1	4.6	2.2	-4.1	311.5	326.8	5.2	39.5	1.7	162.
4.7	34.3	2826.1	725.0	11.5	-1.4	279.2	6.2	6.2	-1.0	312.1	326.2	4.8	40.5	1.8	160.
5.5	37.0	3119.3	700.0	11.7	-3.2	248.6	12.4	11.5	4.5	315.4	328.4	4.3	35.2	1.9	147.
6.2	39.7	3423.2	675.0	10.4	-4.9	241.7	15.4	13.6	7.3	317.3	329.4	4.0	33.7	2.1	128.
7.0	42.3	3736.3	650.0	8.2	-6.8	242.1	16.2	14.3	7.6	318.2	329.1	3.5	33.8	2.5	113.
7.8	45.1	4058.8	625.0	5.4	-9.3	246.5	18.4	16.9	7.3	318.6	328.0	3.0	33.7	3.1	101.
8.7	48.0	4391.1	600.0	1.9	-12.2	247.9	22.0	20.4	8.3	318.4	326.3	2.5	34.2	4.0	93.
9.6	50.9	4732.0	575.0	-0.8	-12.1	246.5	22.4	20.6	8.9	319.1	327.4	2.6	42.0	5.2	87.
10.6	53.8	5085.1	550.0	-3.8	-18.4	248.4	22.1	20.5	8.1	319.6	324.9	1.7	31.5	6.4	83.
11.4	56.7	5450.5	525.0	-6.5	-28.1	252.0	25.7	24.4	8.0	320.6	323.1	0.7	16.0	7.6	81.
12.3	59.8	5829.9	500.0	-8.8	-31.0	252.3	27.1	25.9	8.2	322.3	324.3	0.6	14.5	9.0	79.
13.1	62.8	6225.3	475.0	-11.5	-33.0	252.7	26.7	25.5	7.9	323.8	325.5	0.5	14.7	10.2	79.
14.1	65.9	6637.0	450.0	-14.6	-35.5	251.7	24.3	23.1	7.6	324.9	326.3	0.4	14.8	11.7	78.
15.0	69.1	7067.8	425.0	-17.3	-37.6	249.5	23.4	21.9	8.2	326.8	328.0	0.3	15.0	13.1	77.
16.0	72.5	7519.1	400.0	-20.9	-40.4	247.7	25.6	23.7	9.7	327.8	328.9	0.3	15.3	14.5	76.
17.1	76.0	7992.9	375.0	-24.8	-43.3	246.1	25.6	23.4	10.4	328.7	329.6	0.2	15.9	16.2	75.
18.3	79.6	8492.5	350.0	-28.7	-46.8	243.0	26.6	23.7	12.1	330.0	330.6	0.2	15.6	18.0	74.
19.6	83.3	9016.3	325.0	-33.0	-50.2	242.0	27.8	24.6	13.1	331.2	331.7	0.1	15.8	20.2	73.
21.0	87.2	9575.4	300.0	-36.5	-52.9	245.3	27.8	25.3	11.6	333.9	334.3	0.1	16.4	22.4	72.
22.5	91.3	10173.4	275.0	-40.5	99.9	245.6	30.1	27.4	12.5	336.5	999.9	99.9	999.9	24.9	71.
24.0	95.4	10817.6	250.0	-44.2	99.9	248.2	33.6	31.1	12.5	340.4	999.9	99.9	999.9	27.6	71.
25.6	99.8	11517.3	225.0	-48.4	99.9	248.9	35.6	33.2	12.8	344.4	999.9	99.9	999.9	31.5	71.
27.5	104.8	12287.5	200.0	-50.6	99.9	244.4	21.0	18.9	9.1	352.7	999.9	99.9	999.9	34.4	70.
29.8	109.9	13152.4	175.0	-52.9	99.9	249.6	21.3	19.9	7.4	362.6	999.9	99.9	999.9	37.1	70.
32.5	115.5	14141.2	150.0	-56.6	99.9	253.0	26.9	25.7	7.9	372.6	999.9	99.9	999.9	41.2	70.
35.6	121.7	15288.9	125.0	-59.5	99.9	251.0	23.1	21.8	7.5	389.2	999.9	99.9	999.9	45.4	70.
39.4	129.0	16694.1	100.0	-57.9	99.9	999.9	99.9	99.9	99.9	415.9	999.9	99.9	999.9	50.7	71.
99.9	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.
99.9	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.
99.9	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.

* 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

STATION NO. 5
POWDERVILLE, MONTANA

31 JULY 1981
302 GMT

120 89. 9

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	15.8	866.0	912.0	22.8	7.0	10.0	2.0	-0.3	-2.0	303.9	323.1	6.9	36.0	0.0	0.
99.9	99.9	99.9	1000.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	99.9	99.9	950.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
99.9	99.9	99.9	925.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	999.9	99.9	999.9	999.9	999.
0.4	17.0	942.0	900.0	26.7	7.5	7.1	4.3	-0.5	-4.3	309.0	329.6	7.2	29.5	0.1	189.
1.1	19.6	1230.3	875.0	25.3	6.9	359.3	4.9	0.1	-4.9	310.0	330.6	7.2	31.0	0.3	187.
1.8	22.0	1493.6	850.0	22.7	5.5	351.7	5.2	0.8	-5.1	310.0	329.2	6.7	32.7	0.5	181.
2.4	24.4	1742.5	825.0	20.4	4.2	342.2	5.1	1.6	-4.9	310.1	328.3	6.3	34.4	0.7	178.
3.1	26.9	2006.9	800.0	17.9	3.3	336.2	5.5	2.2	-5.0	310.2	327.7	6.1	37.8	0.9	172.
3.7	29.6	2277.4	775.0	15.3	1.9	329.6	5.9	3.0	-5.1	310.3	326.8	5.7	40.1	1.1	169.
4.5	32.2	2554.0	750.0	12.6	0.3	310.9	7.7	5.8	-5.0	310.3	325.6	5.2	42.9	1.3	164.
5.2	34.9	2837.0	725.0	10.8	-0.6	298.6	9.0	7.9	-4.3	311.3	326.1	5.1	45.4	1.7	155.
5.9	37.6	3129.9	700.0	9.4	-0.5	276.3	10.3	10.3	-1.1	312.9	328.4	5.3	49.8	1.9	147.
6.5	40.3	3431.4	675.0	9.0	-4.4	261.9	14.1	14.0	2.0	315.7	328.1	4.1	38.6	2.2	135.
7.4	43.1	3743.2	650.0	7.5	-7.9	257.9	17.2	16.8	3.6	317.5	327.5	3.2	32.4	2.6	121.
8.2	46.0	4064.6	625.0	4.7	-6.9	252.0	19.2	18.2	5.9	317.8	329.0	3.7	42.9	3.4	111.
9.0	48.9	4396.3	600.0	1.9	-7.9	244.8	20.5	18.5	8.7	318.3	329.2	3.5	48.3	4.2	102.
9.9	51.9	4739.1	575.0	-0.7	-10.3	243.6	21.9	19.6	9.8	319.2	328.7	3.0	48.2	5.1	96.
10.7	54.8	5091.4	550.0	-3.9	-12.5	241.8	23.6	20.8	11.2	319.4	327.8	2.7	51.3	6.1	89.
11.6	57.8	5456.7	525.0	-7.2	-11.4	237.5	22.9	19.3	12.3	319.8	329.3	3.0	71.6	7.3	84.
12.7	60.9	5835.2	500.0	-10.5	-14.6	238.8	17.7	15.1	9.2	320.2	328.0	2.5	72.1	8.4	80.
13.6	64.1	6227.6	475.0	-13.5	-30.7	243.8	21.9	19.7	9.7	321.2	323.4	0.6	21.9	9.4	78.
14.7	67.4	6637.3	450.0	-15.9	-35.3	250.4	26.9	25.3	9.0	323.2	324.7	0.4	16.9	11.1	76.
15.8	70.7	7065.7	425.0	-18.7	-37.1	999.9	99.9	99.9	99.9	325.0	326.4	0.4	17.8	12.7	76.
17.1	74.1	7514.4	400.0	-22.4	-39.8	999.9	99.9	99.9	99.9	325.9	327.0	0.3	18.5	999.9	999.
18.4	77.7	7985.4	375.0	-25.9	-41.1	999.9	99.9	99.9	99.9	327.4	328.4	0.3	22.2	999.9	999.
19.6	81.4	8481.1	350.0	-30.2	-44.0	999.9	99.9	99.9	99.9	328.0	328.8	0.2	24.5	999.9	999.
20.9	85.2	9004.7	325.0	-33.6	-48.0	999.9	99.9	99.9	99.9	330.4	331.0	0.1	21.5	999.9	999.
22.1	89.0	9561.7	300.0	-37.4	-51.3	999.9	99.9	99.9	99.9	332.7	333.1	0.1	21.7	999.9	999.
23.6	93.2	10157.7	275.0	-41.5	99.9	999.9	99.9	99.9	99.9	335.2	999.9	99.9	999.9	999.9	999.
25.1	97.5	10799.4	250.0	-44.9	99.9	999.9	99.9	99.9	99.9	339.4	999.9	99.9	999.9	999.9	999.
27.2	102.2	11497.2	225.0	-49.3	99.9	999.9	99.9	99.9	99.9	343.0	999.9	99.9	999.9	999.9	999.
29.4	107.0	12260.0	200.0	-52.6	99.9	999.9	99.9	99.9	99.9	349.5	999.9	99.9	999.9	999.9	999.
32.1	112.2	13124.1	175.0	-53.8	99.9	999.9	99.9	99.9	99.9	361.1	999.9	99.9	999.9	999.9	999.
35.3	117.7	14111.0	150.0	-54.6	99.9	999.9	99.9	99.9	99.9	376.1	999.9	99.9	999.9	999.9	999.
39.7	124.0	15266.8	125.0	-59.2	99.9	999.9	99.9	99.9	99.9	387.8	999.9	99.9	999.9	999.9	999.
42.8	131.0	16650.6	100.0	-60.5	99.9	999.9	99.9	99.9	99.9	410.9	999.9	99.9	999.9	999.9	999.
99.9	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.
99.9	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.
99.9	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.

* 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

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Final Report

16. ABSTRACT

During the Cooperative Convective Precipitation Experiment (CCOPE) in July 1981, eight times were selected as VISSR Atmospheric Sounder (VAS) observation periods. This report has a synoptic analysis of the surface and the 850-, 700-, 500-, 300-, and 200-mb maps for those eight periods. Also, the satellite and radar data for those periods are included with the analyses. There were five rawinsonde stations in eastern Montana which made extra soundings for the VAS periods. Their data are in this report.

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