

ENVIRONMENTAL INFORMATION SUMMARIES C-6

HOURLY OBSERVATIONS AND SUMMARY OF DAY DATA (SURFACE - LAND)



SAMPLE FORMS
OF
RECORDS AVAILABLE

AT
NATIONAL CLIMATIC CENTER
FEDERAL BUILDING
ASHEVILLE, NORTH CAROLINA 28801

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

/ ENVIRONMENTAL
DATA SERVICE

/ NATIONAL CLIMATIC CENTER
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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

STATION Greenville - Spartanburg Airport, Greer, S. C.

SURFACE WEATHER OBSERVATIONS

DATE SEP 29 1978 TO CONVERT LST TO GMT
ADD 5 hrs. SUBTRACT hrs.

TYPE	TIME (LST) (Z)	SKY AND CEILING (Thousands of Feet) (3)	VISIBILITY (Miles) (4)	WEATHER AND OBSTRUCTIONS TO VISION (5)	SEA LEVEL PRESS. (in.) (6)	TEMP. DEW PT. (°F.) (7)	DIREC. SPEED. CHAR. (8)	WIND DIR. (9)	ALTIM. STER. SET. TIME (10)	REMARKS AND SUPPLEMENTAL CODED DATA (11)	RECORDED TIME (12)
R	0055	E300 OVC	12		132 67 65 00 00	993	705	1001 81		X	
	72312	80000 69021	13221	00901	18205	6	9792	481650		X	
L	0555	10 SCT E300 OVC	7		132 67 63 36 04	995				✓	
R	0255	10 SCT E300 OVC	7		128 67 64 00 00	994				X	
S	13216	10 SCT M25BKN 300 OVC	7		01 04	994				X	
R	0255	10 SCT M25OVC	7		128 68 65 05 04	994	603 15//			✓	
A	0455	10 SCT M20OVC	5	R-F	132 67 65 09 03	995	1005 R-OCNL R			X	
R	0555	10 SCT M15 OVC	5	R-F	132 67 65 00 00	995				✓	
S	0616	45CT M12 OVC	5	R-F	34 07	997				X	
S	0621	45CT M08BKN 120VC	5	R-F	34 05	997				✓	
S	0628	M5 OVC	1	R+F	33 09	994	103VIR 53 V60+			X	
S	0633	E5 OVC	3/4	3M R+F	04 07	992	103VIR 22 V6+			X	
S	0641	E5 BKN 10 OVC	2	TM4F	03 06	997	T840 OVRD M08 E			X	
							OCNL LTGCCCC (F11)			✓	
S	0648	E5BKN 10 OVC	4	4 T+F	03 08	996	T840 OVRD M08 E			X	
R	0655	E.CBKN 10 OVC	4	4 T+F	136 67 64 04 03	996	T840 OVRD M08 E			✓	
							OCNL LTGCCCC 20763			X	
							13// 20063 66 P0PN 55			✓	
							72312 80408 56959 13619 832// 18207 69795 76330 20063 481660			X	
S	0732	8 SCT M15 BKN 40 OVC	4	RN-F	08 05	996	TE32 MOVO E			✓	
R	0755	9 SCT E20 BKN 40 OVC	6	F	136 67 64 05 03	996	TE32 MOVO E RE45			✓	
S	0835	20 SCT E40 BKN 100 OVC	7		04 05	996				✓	
S	0943	5 SCT 20 SGT E40BKN 100 OVC	7		03 06	996				✓	
RS	0955	M5 BKN 20 OVC	7	RW-	136 67 65 03 06	996	R845			✓	
R	0957	M5 BKN 20 OVC	7	RW-	136 69 67 06 04	996	40003 1711			✓	
R	1055	M6 BKN 20 OVC	8		129 70 67 03 05	994	RE05			✓	
R	1155	9 SCT M11 OVC	10		122 72 68 03 05	997				✓	
R	1255	M10 OVC	10		118 71 67 04 04	991	161703 15// 66 P0PN			✓	
							72312 80404 66029 11822 854// 19617 69778 70330 20066 471660			X	
S	1325	M7 BKN 11 OVC	6	R-	10 04	990				✓	
R	1355	M5 BKN 10 OVC	5	R-F	114 70 67 08 04	987	RB20			✓	
L	1432	M5 BKN 10 BKN 40 OVC	3	F	07 06	987				✓	
R	1455	M6 BKN 10 BKN 40 OVC	3	R-F	107 71 68 07 05	987	RE20 645			✓	
RS	1515	M40 OVC	3	R-F	101 70 68 06 04	986	Few STRA 71704 17//			✓	
S	1644	M8 BKN 400VC	3	F	09 03	981				✓	
L	1655	M8 BKN 400VC	4	F	098 71 68 09 03	985	RE40			✓	
RS	1732	M7 BKN 25OVC	2	R-F	101 70 68 14 05	986	SFC USBF 2-C16R60 RB20			✓	
R	1855	M9 OVC	4	F	099 69 67 09 03	985	RE10 70309 17// 72			✓	
							72312 80903 56216 09921 873// 19703 69758 70910 20075 472660			X	
RS	1951	M4 BKN 70VC	4	F	094 69 67 08 04	984	SFC VS BY 2			✓	
R	2057	M4 OVC	4	F	093 69 67 15 05	984				✓	
RS	2155	M3 OVC	2	F	087 69 67 14 05	982	710 17//			✓	
R	2255	M2 BKN 40 OVC	2	F	076 69 67 17 04	979				X	
R	2355	M2 OVC	2	F	072 69 67 14 03	978				X	
							Actual Form Size is 10 1/4" x 12"				

G U. S. Government Printing Office: 1972-445-447-1093 Revision No. 6 A synoptic observation in WMO code format F110 is entered on line following related aviation observation.

MF1-10A: This form is used to record surface weather observations taken at airport stations. Records of this type, but not necessarily as detailed as the sample shown, are available at the National Climatic Center (NCC) for several hundred stations operated by U.S. Weather Services beginning in the mid-1930's. There have been numerous changes in observing practices, definitions and coding procedures, especially during the period prior to mid-1948. Although there are differences in reporting practices from station to station, each does enter observational data at least once each hour during its hours of operation; these observations, called Record (R) observations, include information about sky condition, visibility, weather and obstructions to vision, atmospheric pressure, temperature, dew point and wind speed and direction. Precise information about the data available for a particular airport station usually will require an examination of the data sheets submitted by the station. Information concerning the techniques, elements, codes, exceptions or variations in the observational programs through the years or among the different agencies or stations, will be furnished upon request.

Observations recorded on MF1-10 A&B Forms have long been described as "hourly" but this is not always the case. They are taken at least at hourly intervals, but only during the hours of station operation. During periods of rapidly changing weather conditions, a station scheduled to make 24 Record (R) observations per day could report two or three times that many observations. The additional observations are called: Local (L), Check (✓) or Special (S), and document the weather conditions which occur between the scheduled times of Record (R) observations. Some stations enter Synoptic Observations (SM) on the MF1-10A Form in the World Meteorological Organization Code on the line immediately below the related aviation observation. The symbolic form of this coded information is shown at the bottom of the sample MF1-10A Form. This code has also undergone numerous changes over the years.

MF1-10B: This form accompanies MF1-10A at many stations. It contains supplementary hourly data as well as additional information about some elements for specific time intervals. Entries may be omitted in columns 18, 19, 20 at stations equipped with a hygrothermometer or a dew cell, which provides direct readings of the dew point. Prior to the early 1960's, entries in columns 18-20 were routine at most stations using these forms.

RECORDS SERVICES AVAILABLE AT THE NATIONAL CLIMATIC CENTER

Full size paper copies or film images (35 mm roll film or microfiche) of these forms can be provided for the cost of duplication. Observations at 3-hour intervals for selected stations are published in an abbreviated form as part of the Local Climatological Data; sample copy of a current issue is shown on page 4. Many of the observations subsequent to July 1948 have been reduced to digital form. Reference manuals which describe the various digitized data formats and document significant changes in them are available and can be provided upon request. Cost and time estimates for providing data products and/or services will also be supplied upon request.

OBSERVATIONS AT 3-HOUR INTERVALS

This data array contains information taken from the original observation forms for that month and year. This is one way in which basic observational data are made available to users.

USCOMM-NOAA-ASHEVILLE N.C.