SURFACE WEATHER OBSERVATIONS
(METAR/SPECI)

LATITUDE	LONGITUDE	STATION ELEVATION	TIME CONVERSION (LST to UTC)	MAG TO TRUE	DAY (LST)	MONTH	YEAR	STATION (or grid coord) & STATE OR COUNTRY
39.50N	84.03W	+823 Feet (MSL)	+ 5 Hrs. / - Hrs.	+ Deg. / - 10 Deg.	10	MAY	2002	WPAFB, OH

SYNOPTIC DATA

TIME (UTC) (41)	TIME (LST) (42)	NO (43)	PRECIP (water equiv.) (44)	SNOW FALL (45)	SNOW DEPTH (46)
MID (LST)	MID TO:				
TO: 0550	0050		0	0	0
0550	0050	(1)	0	0	0
1150	0650	(2)	0	0	0
1750	1250	(3)	0	0	0
2350	1850	(4)			
MID (LST)	MID (LST)				

SUMMARY OF THE DAY

24-HR MAX TEMP (°C) (66)	PRECIP (water equiv.) (68)	SNOW FALL (69)	SNOW DEPTH (70)
			0

24-HR MIN TEMP (°C) (67)	SPEED (knots) (71)	DRCTN (true) (72)	TIME (UTC) (73)

ACTIVE RNWY AND EQUIP CHANGE

TIME (UTC)	RNWY NO.
CONT	23

(90) REMARKS, NOTES, AND MISCELLANEOUS PHENOMENA *(All times UTC)*

TIME CHECK: 0600, 1157, 1809
WND DATA ESTMD AS PER AF/XOW

TYPE (1)	TIME (UTC) (2)	WIND DRCTN (True) (9A)	WIND SPEED (Knots) (10)	MAX WIND (Knots) (11)	VARIABILITY (True) (9B)	VISIBILITY METERS (4A)	VISIBILITY MILES (4B)	RUNWAY VISUAL RANGE LOCAL (4C)	WEATHER AND OBSTRUCTIONS TO VISION (5)	SKY CONDITION (3)	TEMP (°C) (7)	DEW POINT (°C) (8)	ALSTG (Inches) (12)	STA PRESSURE (Inches) (17)	TOTAL SKY CVR (21)	OBS INIT (18)
SA	0555	260	04				>5M			SKC	11	07	3017	29.290	0	DD
(13) RMK WND DATA ESTMD SLP217 53020																
SA	0655	270	05				7SM			SKC	10	05	3017		0	DD
(13) RMK WND DATA ESTMD SLP217																
SA	0755	230	04				7SM			SKC	08	05	3019		0	DD
(13) RMK WND DATA ESTMD SLP226																
SA	0855	210	03				7SM			SKC	07	05	3021	29.325	0	DD
(13) RMK WND DATA ESTMD SLP226 53012																
SA	0959	190	03				7 sm			SKC	05	04	3023		0	[illegible]
(13) RMK WND DATA ESTMD SLP240																
SA	1059	VRB	01				7 sm			SKC	06	05	3026		0	[illegible]
(13) RMK WND DATA ESTMD SLP251																
SA	1156	250	04				7 sm			SKC	10	06	3028	29.400	0	[illegible]
(13) RMK WND DATA ESTMD SLP257 70009 51025																
SA	1259	290	06				7 sm			FEW250	12	01	3031		1	[illegible]
(13) RMK WND DATA ESTMD SLP266 8/001 9/001																
SA	1355	280	09				7 sm			FEW250	13	M01	3033		2	[illegible]
(13) RMK WND DATA ESTMD SLP272 8/001 9/002																
SA	1457	320	09				7 sm			SCT250	15	M02	3033	29.450	3	[illegible]
(13) RMK WND DATA ESTMD SLP274 8/001 9/003 51017																
SA	1555	310	07				7 sm			SCT250	15	M02	3035		4	[illegible]
(13) RMK WND DATA ESTMD SLP280 8/002 9/004																
SA	1656	270	09				7 sm			BKN250	16	M00	3036		6	[illegible]
(13) RMK WND DATA ESTMD SLP283 8/002 9/006																

PREVIOUS EDITION IS OBSOLETE.

TYPE (1)	TIME (UTC) (2)	WIND DRCTN (True) (9A)	WIND SPEED (Knots) (10)	WIND MAX WIND (Knots) (11)	WIND VARIABILITY (True) (9B)	VISIBILITY METERS (4A)	VISIBILITY MILES (4B)	VISIBILITY RUNWAY VISUAL RANGE LOCAL (4C)	WEATHER AND OBSTRUCTIONS TO VISION (5)	SKY CONDITION (3)	TEMP (°C) (7)	DEW POINT (°C) (8)	ALSTG (Inches) (12)	STA PRESSURE (Inches) (17)	TOTAL SKY CVR (21)	OBS INIT (18)
SA	1759	310	10				7 SM			OVC250	17	01	3035	29.465	8	[illegible]
(13) RMK WND DATA ESTMD SLP280 8/007 9/008 50005																
SA	1859	240	04				7SM			OVC250	17	00	3035		8	JR
(13) RMK WND DATA ESTMD SLP280 8/007 9/008																
SA	1955	300	06				7SM			BKN250	17	M01	3034		6	JR
(13) RMK WND DATA ESTMD SLP279 8/008 9/006																
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ANNEX W4 WORKSHEET FOR ATMOSPHERIC DATA MEASUREMENTS

REFERENCE: Section 3.6.1 Weather Definitions and Measurement Conditions

The following parameters required to define the atmosphere are to be measured: temperature at surface, pressure (mb), relative humidity (%) and visibility (km or nm), wind speed and direction, and altitude (of ground level) (m, km or ft.). These measurements should be made at least once per hour except in rapidly changing conditions when the measurements should be made every 15 minutes (Reference D14.SIII.p8 and D15.SIII.p5).

The generally accepted measurement conditions for these weather parameters is described in World Meteorological Organization (WMO) report #5 titled "Guide to Meteorological Instruments and Methods of Observation", 5th Edition, Geneva, Switzerland, 1983. Also see Annex R2 for standard weather abbreviations.

The accuracy of the atmospheric data is recommended by WMO #5, the General Section, Table 2 under Aeronautical Meteorology.

The attached table, W4.1, is a suggested form

Table W4.1 Worksheet for Recording Atmospheric Data Measurements

Measurement Location of Ground Data: AFEMS WPAFB Date (Day/Month/Year): 10/05/02
Coordinates of Measurement Location: Latitude: 39°48.93'N, Longitude: 84°03.62'W Ground Elevation: +890ft

Time (z)	Visibility (km/nm)	Baro. Pressure QNH (mb or HPa)	Air Temperature Ground at 2m	Relative Humidity (%)	Wind Speed Direction	Sky Conditions (Weather Abbreviation)	Remarks
1815		1028.8	17°C	30	300 07G11		
1830		1028.8	17°C	30	280 09G16		
1845		1028.8	17°C	27	250 08G11		
1900		1028.8	17°C	29	260 11G14		
1915		1028.8	18°C	30	290 09G12		
1930		1033.5	17°C	29	280 07G12		
1945		1028.8	18°C	30	320 04G09		
2000		1028.8	18°C	29	270 08G12		
2015							

~~0930Z~~
~~1000Z 15~~ Friday
Saturday too

ANNEX W4 WORKSHEET FOR ATMOSPHERIC DATA MEASUREMENTS

REFERENCE: Section 3.6.1 Weather Definitions and Measurement Conditions

The following parameters required to define the atmosphere are to be measured: temperature at surface, pressure (mb), relative humidity (%) and visibility (km or nm), wind speed and direction, and altitude (of ground level) (m, km or ft.). These measurements should be made at least once per hour except in rapidly changing conditions when the measurements should be made every 15 minutes (Reference D14.SIII.p8 and D15.SIII.p5).

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The accuracy of the atmospheric data is recommended by WMO #5, the General Section, Table 2 under Aeronautical Meteorology.

The attached table, W4.1, is a suggested form

Table W4.1 Worksheet for Recording Atmospheric Data Measurements

Measurement Location of Ground Data: AREA B WPAFB Date (Day/Month/Year): 10/05/02
Coordinates of Measurement Location: Latitude: 39°48.93'N, Longitude: 84°03.62'W Ground Elevation: +800 ft

Time (z)	Visibility (km/nm)	Baro. Pressure QNH (mb or HPa)	Air Temperature Ground at 2m	Relative Humidity (%)	Wind Speed	Wind Direction	Sky Conditions (Weather Abbreviation)	Remarks
1330		1027.8	13°C	36	30	08		
1345		1027.8	13°C	34	31	07		[redacted]
1400		1027.8	13°C	34	29	08G14		
1415		1028.8	14°C	34	31	07		
1430		1027.8	14°C	31	30	10G15		
1445		1027.8	14°C	34	30	07		
1500		1028.8	15°C	34	32	05		
1515		1028.8	15°C	32	30	06		
1530		1028.8	15°C	27	33	08G14		
1545		1028.8	15°C	30	27	10		
1600		1029.8	15°C	31	32	08		
1615		1030.1	15°C	28	30	09G15		
1630		1030.1	15°C	28	28	07G13		
1645		1029.8	16°C	30	30	07		
1700		1029.3	16°C	30	29	07		
1715		1028.8	16°C	29	31	09		
1730		1028.8	16°C	27	29	08		
1745		1028.8	17°C	29	30	09G14		
1800		1028.8	17°C	27	29	10G13		