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.	11	MAY	2002	WPAFB, OH

SYNOPTIC DATA

TIME (UTC) (41) MID (LST)	TIME (LST) (42) MID TO:	NO (43)	PRECIP (water equiv.) (44)	SNOW FALL (45)	SNOW DEPTH (46)
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
1150	05

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

TIME CHECK: 0600, 1245, 1805
WND DATA ESTMD AS PER AF/XOW

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	0555	VRB	03				7SM			SCT200 BKN250	09	07	3040	29.515	5	SA
(13) RMK WND DATA ESTMD SLP298 8/006 9/005 51008																
SA	0655	040	05				7SM			FEW180 SCT250	07	04	3039		4	SA
(13) RMK WND DATA ESTMD SLP296 8/008 9/004																
SA	0755	030	04				7SM			FEW180 SCT250	07	04	3040		4	SA
(13) RMK WND DATA ESTMD SLP298 8/008 9/004																
SA	0855	VRB	02				7SM			FEW140 SCT200 BKN250	06	04	3042	29.530	5	SA
(13) RMK WND DATA ESTMD SLP303 8/076 9/015 53005																
SA	0957	VRB	01				7 SM			FEW140 SCT200 BKN250	05	04	3042		5	SA
(13) RMK WND DATA ESTMD SLP304 8/076 9/																
SA	1058	050	06				7 SM			FEW140 FEW200	06	01	3039		1	SA
(13) RMK WND DATA ESTMD SLP296 8/078 9/011																
SA	1159	070	07				7 SM			FEW140 FEW200	11	01	3040	29.515	2	SA
(13) RMK WND DATA ESTMD SLP298 8/075 9/012 55005																
SA	1257	070	11				7 SM			FEW140 SCT200	13	01	3039		3	SA
(13) RMK WND DATA ESTMD SLP296 8/076 9/013																
SA	1359	090	13	17			7 SM			BKN140 BKN200	14	01	3038		7	SA
(13) RMK WND DATA ESTMD SLP292 8/078 9/053																
SA	1457	090	09				7 SM			BKN140 OVC200	15	01	3035	29.470	8	SA
(13) RMK WND DATA ESTMD SLP282 8/077 9/058																
SA	1557	090	09				7 SM			BKN140 OVC200	17	03	3033		8	SA
(13) RMK WND DATA ESTMD SLP275 8/077 9/058																
SA	1656	100	09				7 SM			FEW140 OVC200	18	04	3030		8	SA
(13) RMK WND DATA ESTMD SLP263 8/077 9/028																

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	1757	110	09				7SM			SCT140 OVC200	19	05	3028	29.395	8	[illegible]
(13) RMK WND DATA ESTMD SLP255 8/077 9/038 57025																
9A	1859	080	02				7SM			SCT060 BKN140 OVC200	19	04	3029		8	KC
(13) RMK WND DATA ESTMD SLP261 8/577 9/368																
SA	1955	080	09				7SM			SCT060 BKN100 OVC200	19	04	3024		8	KC
(13) RMK WND DATA ESTMD SLP242 8/577 9/368																
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AF FORM 3803, 20000801 *(REVERSE) (EF-V1)*

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: Area B WPAFB Date (Day/Month/Year): 11 May 02
Coordinates of Measurement Location: Latitude: 39°48.93'N Longitude: 84°03.62'W Ground Elevation: +800

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
1400			1029.8	14		40	08	12G19			
1415			1029.8	15		39	09	11G18			
1430			1029.8	15		40	08	15G19			
1445			1028.8	14		38	09	16G22			
1500			1028.8	15		40	09	12G18			
1515			1028.8	15		41	10	14G19			
1530			1027.8	16		40	09	11G18			
1545			1027.8	16		42	11	10G15			
1600			1027.8	16		41	10	12G17			
1615			1027.8	16		36	12	15G21			
1630			1027.4	18		37	09	09G14			
1645			1027.4	18		39	09	12G18			
1700			1027.4	19		38	09	08G14			
1715			1027.4	18		39	09	09G13			
1730			1027.4	18		41	09	11G15			
1745			1026.4	18		35	12	12G17			
1800			1026.4	18		38	11	11G18			
1815			1026.4	18		39	12	08G12			
1830			1025.1	18		40	11	08G12			
1845			1026.4	18		39	10	05			
1900			1026.4	18		39	08	05			
1915			1025.1	18		45	10	05			
1930			1025.1	18		45	09	08G11			
1945			1024.0	19		42	10	12G15			