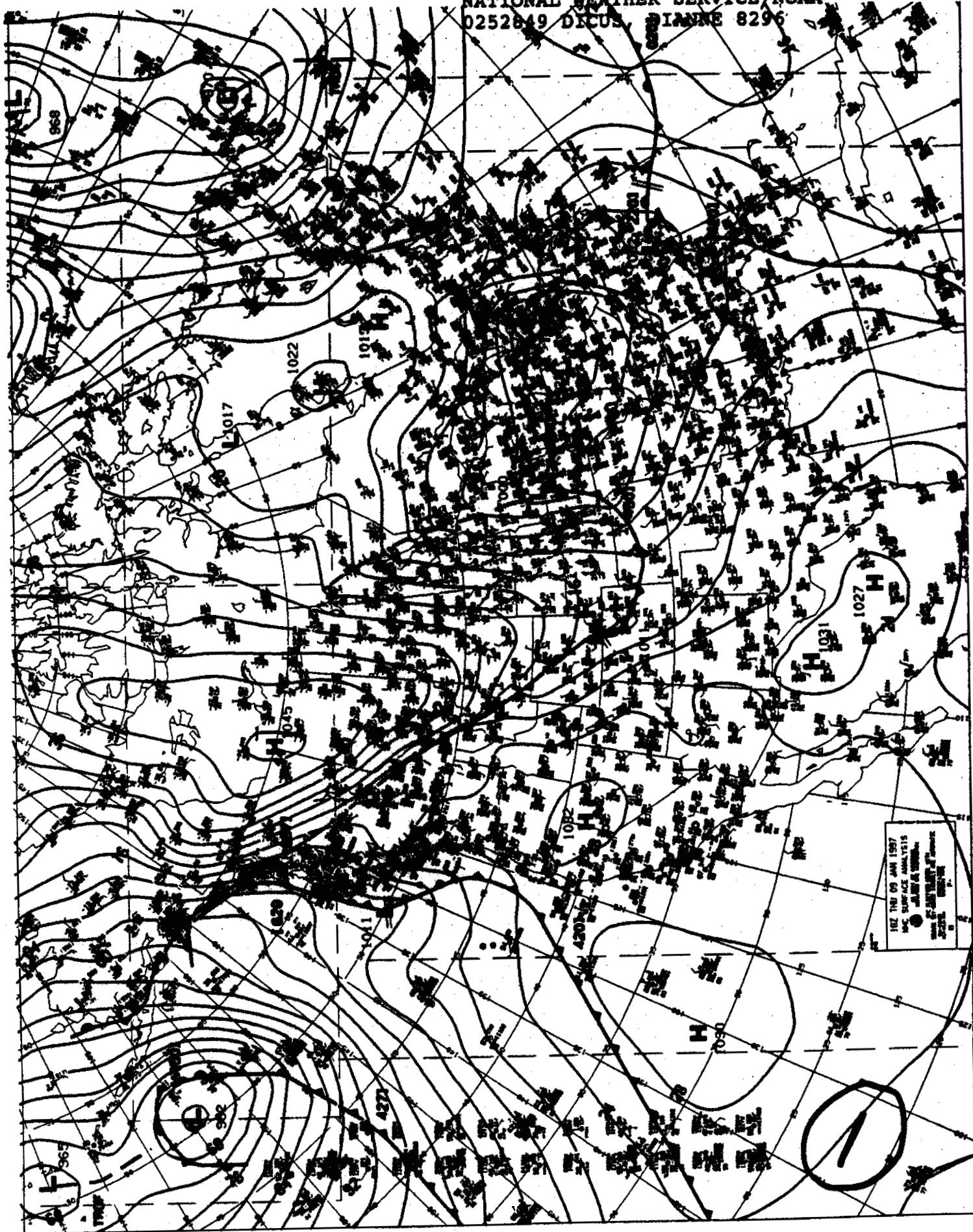
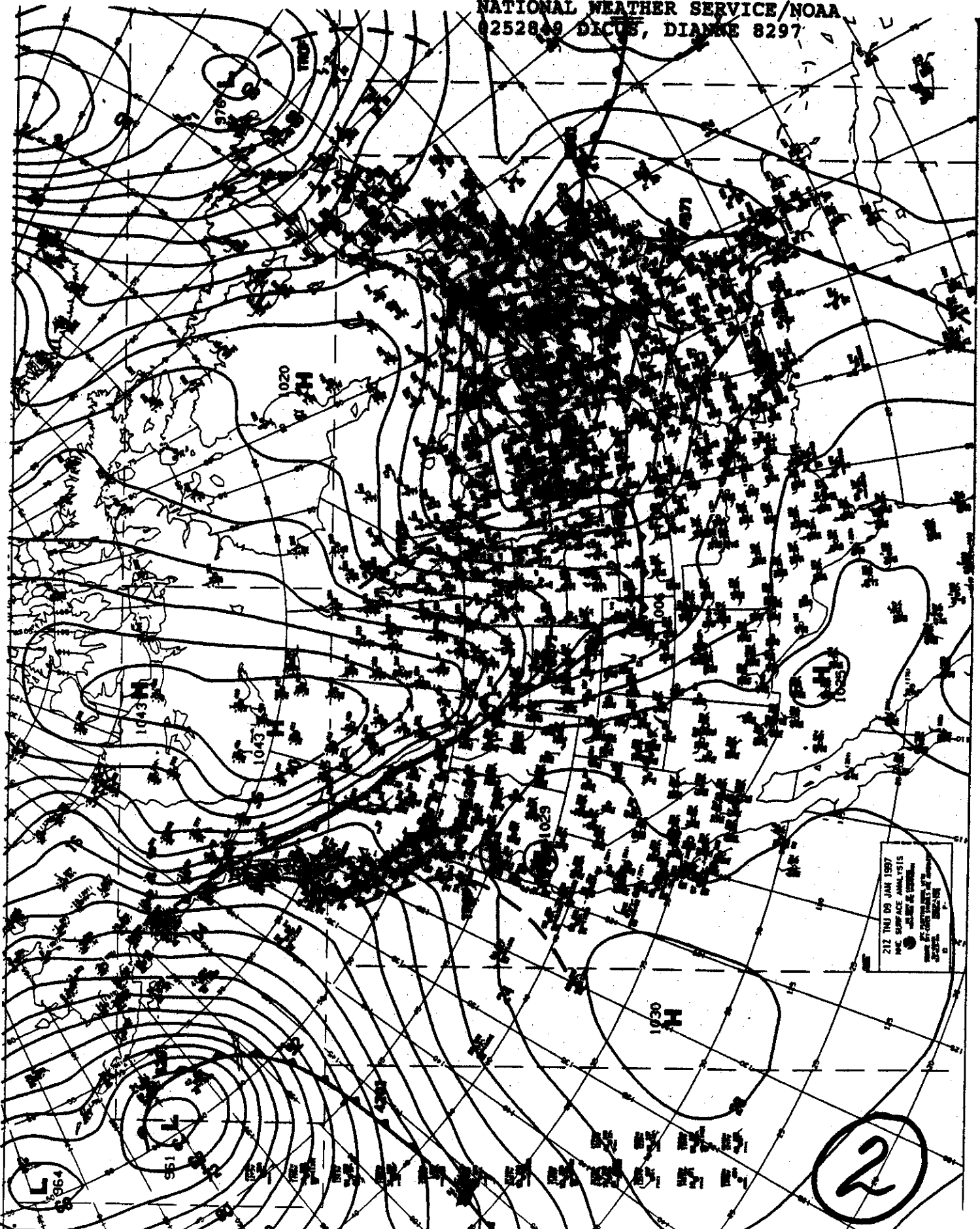


DCA97MA017

ATTACHMENTS_A
(1 - 22)



NATIONAL WEATHER SERVICE/NOAA
0252849 DICS, DIANKE 8297



212 THU 09 JAN 1997
THE SURFACE ANALYSIS
WAS MADE BY
WAS AT THE NATIONAL WEATHER SERVICE
AT THE UNIVERSITY OF
AT THE UNIVERSITY OF

2



U.S. Department
of Transportation
Federal Aviation
Administration

Grand Rapids FSDO Facsimile Cover Sheet

To: LARRY MCCARTNEY
Company: DTW FSDO
Phone:
Fax: 313-487-7221

(A)

From: WESLEY H. KRAFT
Company: FAA GRR FSDO
Phone: 616-954-6657
Fax: 616-940-3140

Date: 01/10/97
Pages including this
cover page: 3

Comments:

PER OUR TELEPHONE CONVERSATION:

MONROE CUSTER AIRPORT AWOS REPORT.

FURNISHED BY GARY ROSS, STATE OF MI. DOT, BUREAU OF AERONAUTICS;
TELEPHONE NUMBER 517-335-8862.

MR. ROSS NOTED ON HIS FAX COVER SHEET THAT THIS AWOS IS NOT EQUIPPED
WITH PRESENT WEATHER OR PRECIP. ACCUMULATION.

(3)

AWOS Operation/Maintenance Manual

2.3.12.3 Archive Data Format

The archive data is stored in fixed format with data fields defined as follows:

```
aaaa bbbbbbbbbb cccccccccccccccccc dddd ee fff gg hh ij kkkk llll mmmn
oooooooooooo ppppppppppppppppppppppppppppppppppppppppppppppppppp qqqq
```

Where:

- a field = Record counter (0000 to 1532) 21 day capacity logged every 20 minutes
- b field = Year, Month, Day, Hour & Minute (2 characters each)
- c field = Ceiling report (SCT, BKN, OVC etc.) in hundreds of feet
- d field = Visibility in miles
- e field = Temperature in degrees fahrenheit
- f field = Dewpoint in degrees fahrenheit
- g field = Magnetic Wind Direction in ten degree increments
- h field = Wind Speed in Knots
- i field = Peak Gusts in Knots if present
- j field = Altimeter Setting in inches of mercury
- k field = Density Altitude in feet when 1000 feet greater than field elevation
- l field = Variable Wind Direction if present
- m field = Tipping bucket count for archive interval (20 minutes) 01 = 0.01 inches rain
- n field = Day/Night sensor status (D = Day & N = Night)
- o field = Variable visibility in miles if present will appear on a second line
- p field = Thunderstorm remarks (LTG DSNT NE AND SE)
- q field = Thunderstorm and Precipitation Identification (TR+F)

Fields which are not always generated such as peak gusts, density altitude, variable wind and visibility, will be blank.

2.3.12.4 RESUME: Resums system archiving

The RESUME command is used to reactivate system archiving after a FREEZE command had been executed.

EXAMPLE: RESUME <cr>



1

5

DATA 47 15
 0047 9701092301 18 SCT 38 OVC 7
 0048 9721092241 18 SCT 38 OVC 7
 0049 9701092221 18 SCT 40 OVC 7
 0050 9701092201 9 SCT 14 BKN 44 OVC 7
 0051 9701092141 9 SCT 14 BKN 48 OVC 7
 0052 9701092121 17 SCT 32 SCT 48 OVC 4
 0053 9701092101 7 SCT 17 BKN 50 OVC 3 1/2 028 027 18 05 2918
 0054 9701092041 X 7 SCT 13 OVC 1 1/4 028 027 17 05 2920
 0055 9701092021 X 7 SCT 13 BKN 17 OVC2 1/2 028 027 16 00 2921
 0056 9701092001 X 7 BKN 12 BKN 18 OVC3/4 027 027 12 06 2922
 0057 9701091941 X 7 BKN 11 BKN 27 OVC1 027 027 10 07 2922
 0058 9701091921 X 7 OVC 1 027 027 08 07 2923
 0059 9701091901 X 7 OVC 3/4 027 028 09 07 2925
 0060 9701091841 X 7 OVC 1/2 027 026 09 09 2927
 0061 9701091821 X 7 OVC 1/2 027 026 10 09 2930

TTF RWOS 1355 - X M17 OVC 2 22/20/261622/925/ NOSPL

PRSNL MFR
 SL PRES
 PCPN
 TEMP/DWPT: 22 / 20
 WIND: 260 / 20
 ALTM: 29.26
 DNS ALT
 RWYKS

VSBY: 1 1/4

UTC: 1454
 DATE: 97/01/10
 CIG: - X M17 OVC

TTF ELEV: 616

MONROE CUSTER AIRPORT MICHIGAN

A-2

UNEDITED WEATHER OBSERVATIONS (METAR/SPEC)						LATITUDE	LONGITUDE	STATION (ELEVATION FT (M))	TIME CONVERSION	DAY	MONTH	YEAR	SID	STATION (TYPE, NAME, STATE)
						42°14'N	83°20'N	633	+5	08	01	1997	DTW	ASOS DETROIT, MI
TYPE	TIME (LST)	WIND				VISIBILITY		PRESENT WEATHER	SKY CONDITION	TEMP °C	DEW POINT °C	ALTI-METER INS.	REMARKS AND SUPPLEMENTAL CODED DATA	
		DIR TRUE	SPD KTS	GUST KTS	VARIABILITY TRUE	SURFACE STATUTE MILES	RUNWAY VISUAL RANGE (FEET)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
M	0054	080	7			10			SCT120	-04	-09	A3009	SLP196 T10441089 11044 21056 58036 (MKE)	
M	0154	090	8			10			OVC100	-04	-08	A3007	SLP190 T10391063 (MKE)	
M	0254	070	8			10			BKN020 OVC080	-04	-08	A3003	SLP177 T10391078 (MKE)	
M	0354	090	9			10			BKN020 OVC090	-03	-08	A2995	PRESFR SLP151 T10331078 58044 (MKE)	
M	0454	080	8			10			FEW014 BKN020 OVC080	-04	-07	A2992	PRESFR SLP139 T10391072 (MKE)	
S	0512	080	8			10			BKN012 OVC020	-04	-07	A2992	(MKE)	
M	0554	070	15	18		10			OVC010	-04	-07	A2987	PRESFR SLP122 T10391067 (MKE)	
S	0630	070	12	17		1 1/2M		-SN BR	BKN008 OVC013	-04	-07	A2983	SFC VIS 2 SNB02 PRESFR P0000 (MKE)	
M	0654	070	13	18		1 1/4M		-SN BR	OVC006	-04	-06	A2982	TWR VIS 1 1/2 SNB02 PRESFR SLP107 P0000 600 00 T10441061 11033 21044 58043 (MKE)	
S	0717	080	14	20		1 1/2M		-SN BR	OVC010	-04	-06	A2975	PRESFR P0000 (MKE)	
M	0754	070	15	19		1 1/2M		-SN BR	BKN010 OVC029	-04	-06	A2972	PRESFR SLP073 P0000 T10441058 (EJB)	
S	0819	040	12	18		2		-SN BR	OVC012	-04	-06	A2969	PRESFR P0000 (EJB)	
S	0838	050	12			3		-SN BR	OVC010	-04	-06	A2966	TWR VIS 4 UPB31E34SNE31B34 PRESFR P0000 (EJB)	
M	0854	070	11			3		-SN BR	OVC010	-04	-06	A2967	TWR VIS 4 UPB31E34SNE31B34 PRESRR SLP057 P0000 T10441061 (EJB)	
S	0833	070	12	21		2		-SN BR	OVC012	-03	-04	A2964	PRESFR P0000 (EJB)	
M	0954	080	18	24		2		-SN BR	OVC014	-03	-04	A2958	PRESFR SLP024 P0000 60000 T10261044 58076 (EJB)	
S	0959	080	16	24		2		-FZRASN	OVC014	-03	-04	A2956	FZRAB57 PRESFR P0000 (EJB)	
M	1054	070	13	21		2		-FZRASN	OVC012	-03	-05	A2962	FZRAB1457 PRESFR SLP005 P0000 T10331050 (EJB)	
S	1100	080	11	19		3/4		-FZRASN	OVC012	-03	-05	A2953	SFC VIS 1 P0000 (EJB)	
S	1110	080	14	23		1/2		-FZRASN	FEW005 BKN012 OVC017	-03	-04	A2951	TWR VIS 3/4 P0000 (EJB)	
S	1118	070	11	19		3/4		-SN	FEW005 BKN012 OVC017	-03	-04	A2951	FZRAE12 P0000 (EJB)	
S	1144	070	13			3/4		-SN BR	BKN005 BKN012 OVC017	-03	-05	A2946	FZRAE12 PRESFR P0000 (EJB)	
M	1154	070	18	25		3/4		-SN BR	BKN005 OVC014	-04	-05	A2944	FZRAE12 PRESFR SLP977 P0000 T10391050 (EJB)	
S	1231	070	9			3/4		-SN BR	FEW005 OVC011	-04	-05	A2938	PK WND 07026/1699 PRESFR P0000 (EJB)	
M	1254	070	11	17		3/4		-SN BR	SCT005 BKN011 OVC014	-04	-05	A2935	PK WND 07026/1699 PRESFR SLP946 4/002 P0000 60000 T10391050 11026 21044 58085 (EJB)	
S	1344	070	11			1/2		SN	BKN004 BKN009 OVC013	-04	-05	A2928	PRESFR P0000 (EJB)	
M	1354	080	9			1/2		SN	BKN006 OVC013	-04	-05	A2927	PRESFR SLP919 P0000 T10391050 (EJB)	
S	1405	080	12			1/2		SN	BKN004 OVC006	-04	-04	A2926	PRESFR P0000 (EJB)	
S	1433	040	7			1/2		-SN	FEW004 BKN008 OVC015	-03	-04	A2923	SFC VIS 3/4 PRESFR P0000 (EJB)	
M	1454	040	7			1/2		SN	BKN006 OVC011	-03	-04	A2922	PRESFR SLP900 P0000 T10331044 (EJB)	
S	1524	070	7			1/2		-SN	SCT006 BKN016 OVC023	-03	-04	A2921	SFC VIS 1 P0000 (EJB)	
S	1528	070	6			1		-SN	SCT006 BKN014 OVC021	-03	-04	A2921	TWR VIS 1 1/2 P0000 (EJB)	
S	1529	070	6			1 1/4M		-SN	SCT006 BKN016 OVC021	-03	-04	A2920	TWR VIS 1 1/2 P0000CNCL (EJB)	
S	1540	070	5			1 1/2M		-SN BR	BKN006 BKN011 OVC021	-03	-04	A2919	SFC VIS 2 1/2 P0000 (TBA)	
S	1541	080	6			1 1/2M		-SN BR	SCT006 BKN011 OVC019	-03	-05	A2919	SFC VIS 2 1/2 P0000CNCL (TBA)	
M	1554	070	5			3/4		-SN BR	BKN006 BKN012 OVC017	-02	-03	A2919	TWR VIS 1 CIG 004V009 SLP891 P0000 60000 T1 0221033 58055 (TBA)	
S	1603	080	3			1		-SN BR	SCT006 SCT009 OVC014	-02	-03	A2918	P0000 (TBA)	
S	1606	080	3			1		-SN BR	FEW006 BKN009 OVC016	-02	-03	A2918	P0000CNCL (TBA)	
S	1619	000	0			1		-SN BR	SCT006 BKN009 OVC014	-02	-03	A2917	SFC VIS 1 3/4 CIG 006V011 P0000 (TBA)	
M	1654	150	3			1		BR	BKN007 OVC012	-02	-03	A2916	SFC VIS 3 SNE49 CIG 005V009 SLP880 P0000 T1 0221026 (TBA)	
S	1704	160	3			1		-SN BR	FEW007 OVC012	-02	-03	A2915	SFC VIS 2 1/2 SNB01 P0000 (TBA)	
S	1739	200	15			4		-SN BR	SCT010 OVC015	-02	-03	A2915	SNB01 P0000 (TBA)	
M	1754	210	16			7		-SN	OVC014	-02	-03	A2916	SNB01 SLP880 P0000 T10171033 (TBA)	

*** Cont. on Next Page ***

UNEDITED SURFACE WEATHER OBSERVATIONS (METAR/SPEC)						LATITUDE	LONGITUDE	STATION ELEVATION FT (MSL)	TIME CORRECTION	DAY	MONTH	YEAR	SD	STATION (TYPE, NAME, STATE)
						42°14'N	83°20'N	633	+5	09	01	1997	DTW	ASOS DETROIT, MI
TYPE MS	TIME (LST)	WIND				VISIBILITY		PRESENT WEATHER	SKY CONDITION	TEMP °C	DEW POINT °C	ALTI-METER INS.	REMARKS AND SUPPLEMENTAL CODED DATA	
		DIR TRUE	SPD KTS	GUST KTS	VARIABILITY TRUE	SURFACE STATUTE MILES	RUNWAY VISUAL RANGE (FEET)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
M	1854	220	21	27		1 3/4M		-SN BLSN	BKN017 OVC021	-02	-04	A2916	PK WND 22027/2333 TWR VIS 3 PEB32E47 SLP661 4/004 P0000 60000 T10221044 11017 21039 550	
S	1904	220	17			3		-SN BLSN	BKN017 OVC023	-03	-04	A2916	SFC VIS 4 P0000 (TBA)	
S	1918	220	22			2		-SN	BKN017 OVC022	-03	-05	A2916	TWR VIS 3 P0000 (TBA)	
S	1925	210	18	29		1 1/2M		-SN	BKN017 OVC024	-03	-05	A2916	PK WND 21029/0019 TWR VIS 2 1/2 P0000 (TBA)	
M	1954	220	18			1		-SN BR	SCT010 OVC018	-03	-04	A2916	PK WND 21029/0019 TWR VIS 2 1/2 SLP661 P000 0 T10331044 (TBA)	
S	1958	220	18			1		-SN BR	SCT007 BKN014 OVC018	-03	-04	A2916	P0000 (TBA)	
S	2044	220	19	25		3		-SN BR	OVC015	-03	-05	A2916	TWR VIS 4 P0000 (TBA)	
M	2054	220	21			7		-SN	BKN015 OVC024	-03	-06	A2916	SLP663 P0000 T10331056 (TBA)	
S	2104	220	20			2 1/2M		-SN BR	BKN017 OVC022	-03	-06	A2916	TWR VIS 4 P0000 (TBA)	
M	2154	230	18	26		3		-SN BR	BKN017 BKN025 OVC030	-04	-06	A2917	PK WND 22026/0250 TWR VIS 4 SLP664 P0000 60 000 T10391061 53002 (TBA)	
M	2254	240	18	25		10			BKN022 BKN028 OVC065	-04	-06	A2918	PK WND 24031/0259 SLP667 SNE41 P0000 T10441 078 (TBA)	
M	2354	240	18			10			OVC022	-04	-06	A2919	PK WND 23027/0405 SLP662 P0000 T10441063 41 0171050 (TBA)	
*** End of File ***														

7

UNEDITED SURFACE WEATHER OBSERVATIONS (METAR/SPEC)							LATITUDE		LONGITUDE		STATION ELEVATION (FT. MSL)	TIME CONVERSION	DAY	MONTH	YEAR	SID	STATION (TYPE, NAME, STATE)						
							42°14'N		83°20'N		633	+5	08	01	1997	DTW	ASOS DETROIT, MI						
TIME LST	TOTAL SKY COVER (0-8)	TEMP. DRY-BULB	DEW POINT	TEMP. WET BULB	RELATIVE HUMIDITY (%)	STATION PRESSURE (INS)	PRES. TENDENCY	MT. 3-181 CHANGE	HOURLY PRECIPITATION (INS)	SYNOPTIC DATA													
										TIME	NO	LOW CLOUD TYPE	MID CLOUD TYPE	HIGH CLOUD TYPE	MAX TEMP (.1 C)	MIN TEMP (.1 C)	PRECIP (INS)	SNOW FALL (INS)	SNOW DEPTH (INS)	STATION PRESSURE (INS)	BAROGRAPH	BAR. CORR.	LOCAL USE
18	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
0054		-4.4	-8.9	-58	71	29.41	6	036	0.00	00-01													
0154		-3.9	-8.3	-53	72	29.39			0.00	01-02													
0254		-3.9	-7.8	-51	75	29.35			0.00	02-03													
0354		-3.3	-7.8	-47	71	29.27	8	044	0.00	03-04													
0454		-3.9	-7.2	-50	78	29.24			0.00	04-05													
0554		-3.9	-6.7	-48	81	29.19			0.00	05-06													
0654		-4.4	-6.1	-50	88	29.14	8	043		06-07													
0754		-4.4	-5.6	-48	91	29.05				07-08													
0854		-4.4	-6.1	-50	88	29.00				08-09													
0954		-2.8	-4.4	-34	89	28.91	6	078		09-10													
1054		-3.3	-5.0	-39	88	28.85				10-11	-FZRA	1050	1115	-SN	1750	1755							
1154		-3.9	-5.0	-43	92	28.77				11-12	-SN	1115	1255	-SN	1805	1835							
1254		-3.9	-5.0	-43	92	28.68	8	085		12-13	BR	1130	1155	BR	1835	1850							
1354		-3.9	-5.0	-43	92	28.60				13-14	FZFG	1155	1200	BLSN	1850	1915							
1454		-3.3	-4.4	-37	92	28.55				14-15	BR	1200	1255	-SN	1850	2050							
1554		-2.2	-3.3	-26	92	28.52	6	055		15-16	FZFG	1255	1300	UP	2050	2055							
1654		-2.2	-2.8	-24	96	28.50				16-17	-SN	1300	1340	-SN	2055	2245							
1754		-1.7	-3.3	-23	89	28.50				17-18	BR	1300	1340	BR	2100	2155							
1854		-2.2	-4.4	-30	85	28.50	5	008		18-19	FZFG	1340	1345	-RA	2305	2310							
1954		-3.3	-4.4	-37	92	28.50				19-20	SN	1340	1355										
2054		-3.3	-4.4	-37	92	28.50				20-21	-SN	1400	1425										
2154		-3.3	-5.6	-41	84	28.50				21-22	-SN	1425	1455										
2254		-3.9	-6.1	-46	85	28.51	3	002		22-23	SN	1455	1505										
2354		-4.4	-7.8	-55	77	28.52				23-24	BR	1505	1650										
		-4.4	-8.3	-56	75	28.52					-SN	1535	1560										
		-4.4	-8.3	-56	75	28.52					-SN	1600	1755										
		-4.4	-8.3	-56	75	28.52					-SN	1705	1745										
SUMMARY OF THE DAY (MIDNIGHT TO MIDNIGHT)																							
PEAK WINDS			FASTEST 2--MIN WIND			SUNRISE TIME (LST)	SUNSET TIME (LST)	TOTAL SUNSHINE (MIN)	PERCENT PSBL SUNSHINE	CHARACTER SUNRISE	CHARACTER SUNSET	SKY COVER		24-HR MAX TEMP. (0.1 C)	24-HR MIN TEMP. (0.1 C)	24-HR PRECIP. WATER EQUIV (INS)	24-HR SNOW-FALL UNMLTD	1200 UTC SNOW DEPTH (INS)	WATER EQUIV (INS)	STATION PRESSURE	SEA LEVEL PRESSURE		
SPEED (KTS)	DIRECTION	TIME (LST)	SPEED (KTS)	DIRECTION	TIME (LST)							SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT										
43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		
36	240	2210	30	230	2211			M	M					-1.7	-5.0	T							
REMARKS, NOTES AND MISCELLANEOUS PHENOMENA 65 :															TIME CHECK--CLOCK CORRECT TO THE NEAREST MINUTE AT: / / /								

01

FORM NO. 1-62 (REV. 11-60) PREPARED BY FORM

U. S. DEPARTMENT OF COMMERCE, NOAA NATIONAL WEATHER SERVICE

INSTRUCTIONS - CHECK CORRECT TO NEAREST SQUARE AND

FD-1030-108-10-68

TIME		DATE			STATION		OBSERVER			MOUNTAIN			REMARKS			WIND			TEMP			PRES			HUMIDITY			VISIB			CLOUDS			REMARKS			
MO	DA	HR	MI	SEC	NO	NA	NO	FL	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO			

SURFACE WEATHER OBSERVATIONS
(METERSPEC)

LOCATION: 42° 13' N, 83° 45' W

STATION NO: 839
 TIME CONVENTION
 (SEE INSTRUCTIONS)

DATE: 10 01 97
 TIME: 01
 NAME: KARB
 TITLE: ACT'G. AIR ARBOR, MI

10 01 97

L A 57

0800	-SN- OVC030	29.20	104
0815	-SN- OVC030	29.21	104
0830	-SN- OVC030	29.22	104
0845	TKNOIS	29.25	104
0900	TKNOIS	29.26	104
0915	TKNOIS	29.28	104
0930	TKNOIS	29.29	104
0945	TKNOIS	29.30	104
1000	BLSN	29.30	104
1015	BLSN	29.30	104
1030	BLSN	29.30	104
1045	BLSN	29.30	104
1100	BLSN	29.30	104
1115	BLSN	29.30	104
1130	BLSN	29.30	104
1145	BLSN	29.30	104
1200	BLSN	29.30	104
1215	BLSN	29.30	104
1230	BLSN	29.30	104
1245	BLSN	29.30	104
1300	BLSN	29.30	104
1315	BLSN	29.30	104
1330	BLSN	29.30	104
1345	BLSN	29.30	104
1400	BLSN	29.30	104
1415	BLSN	29.30	104
1430	BLSN	29.30	104
1445	BLSN	29.30	104
1500	BLSN	29.30	104
1515	BLSN	29.30	104
1530	BLSN	29.30	104
1545	BLSN	29.30	104
1600	BLSN	29.30	104
1615	BLSN	29.30	104
1630	BLSN	29.30	104
1645	BLSN	29.30	104
1700	BLSN	29.30	104
1715	BLSN	29.30	104
1730	BLSN	29.30	104
1745	BLSN	29.30	104
1800	BLSN	29.30	104
1815	BLSN	29.30	104
1830	BLSN	29.30	104
1845	BLSN	29.30	104
1900	BLSN	29.30	104
1915	BLSN	29.30	104
1930	BLSN	29.30	104
1945	BLSN	29.30	104
2000	BLSN	29.30	104
2015	BLSN	29.30	104
2030	BLSN	29.30	104
2045	BLSN	29.30	104

UNEDITED SURFACE WEATHER OBSERVATIONS (METAR/SPEC)						LATITUDE 41°36'N	LONGITUDE 83°48'N	STATION ELEVATION FT (MRL) 669	TIME CONVERSION +5	DAY 09	MONTH 01	YEAR 1997	SID TOL	STATION (TYPE, NAME, STATE) ASOS TOLEDO, OH
TYPE M/S	TIME (LST)	WIND				VISIBILITY		PRESENT WEATHER	SKY CONDITION	TEMP °C	DEW POINT °C	ALT- METER INS.	REMARKS AND SUPPLEMENTAL CODED DATA	
		DIR TRUE	SPD KTS	GUST KTS	VARIABILITY TRUE	SURFACE STATUTE MILES	RUNWAY VISUAL RANGE (FEET)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
M	0051	080	12			10			BKN110	-04	-08	A3004	SLP183 T10441083 11044 21081 58040 (MR)	
M	0151	090	10			10			OVC110	-04	-08	A3002	SLP174 T10441078 (MR)	
M	0251	080	13			10			FEW015 BKN100 OVC120	-04	-07	A2996	PRESFR SLP154 T10391067 (MR)	
M	0351	080	13			10			BKN085 OVC110	-04	-07	A2990	PRESFR SLP133 T10391067 58045 (MR)	
M	0451	080	15	19		10			OVC055	-03	-07	A2988	SLP127 T10331072 (MR)	
S	0518	080	16	22		5		-SN	OVC024	-03	-06	A2985	SNB09 PRESFR P0000 (MR)	
S	0524	090	14			1 3/4M		-SN BR	OVC017	-04	-06	A2984	SNB09 PRESFR P0000 (MR)	
S	0528	090	12			1 1/4M		-SN BR	OVC013	-04	-06	A2985	SNB09 PRESFR P0000 (MR)	
S	0543	080	13	21		1 1/4M		-SN BR	OVC009	-04	-06	A2982	SNB09 PRESFR P0000 (MR)	
M	0551	070	18	21		3/4		-SN BR	VV006	-04	-04	A2979	SNB09 PRESFR SLP086 P0000 T10391044 (MR)	
S	0636	080	14			1 1/4M		-SN BR	OVC007	-04	-04	A2974	PRESFR P0002 (MR)	
M	0651	070	17	21		1 1/2M		-SN BR	OVC012	-04	-04	A2971	PRESFR SLP071 P0002 60002 70002 T10391044 1 1033 21044 58062 (ON)	
S	0657	080	18	23		3		-SN BR	BKN010 OVC014	-04	-04	A2969	PRESFR P0000 (ON)	
M	0751	080	19	30		2 1/2M		-SN BR	BKN014 OVC110	-03	-04	A2961	PK WND 09030/1245 RAB08E10UPB33E35SNE33B35 PRESFR SLP035 P0000 T10331044 (ON)	
S	0834	070	20	27		6		-SN BR	BKN016 BKN022 OVC055	-03	-05	A2962	PK WND 07030/1300 PRESFR P0000 (P)	
M	0851	080	21	24		9		-RA	BKN018 OVC022	-03	-06	A2960	PK WND 07030/1300 UPB44E49RAB49SNE44 PRESFR SLP032 P0000 T10331056 (P)	
S	0902	080	20	28		1 3/4M		+RA BR	BKN018 OVC022	-03	-06	A2959	PK WND 08028/1400 PRESFR P0001 (DP)	
S	0913	080	16	23		2		PE BR	OVC018	-03	-06	A2959	PK WND 08028/1400 RAE11PEB11 PRESFR P0002 (DP)	
S	0919	080	18	22		1 1/4M		PE BR	OVC018	-04	-06	A2968	PK WND 08028/1400 TWR VIS 1 1/2 RAE11PEB11 PRESFR P0002 (DP)	
S	0925	080	18	23		3/4		PE BR	VV013	-04	-06	A2957	PK WND 08028/1400 TWR VIS 1 1/4 RAE11PEB11 PRESFR P0003 (DP)	
S	0940	080	15			1/4		SNPE FZFG	BKN007 OVC012	-04	-04	A2952	PK WND 08028/1400 RAE11PEB11SNB27 PRESFR P0003 (DP)	
M	0951	080	13			1/4		SNPE FZFG	BKN005 OVC012	-04	-04	A2950	PK WND 08028/1400 RAE11PEB11SNB27 PRESFR SLP086 P0004 60004 T10391044 58070 (TH)	
S	0958	080	13			1/4		SNPE FZFG	OVC012	-04	-04	A2949	PRESFR P0000 (TH)	
S	1018	080	12			1/2		SNPE FZFG	OVC012	-03	-04	A2950	PRESFR P0001 (TH)	
S	1037	080	16	21		1/4		SNPE FZFG	OVC012	-03	-04	A2948	PRESFR P0001 (TH)	
M	1051	080	10			1/4		SNPE FZFG	OVC012	-03	-04	A2948	PRESFR SLP091 P0002 T10331039 (TH)	
S	1058	080	13			1/4		SNPE FZFG	VV006	-03	-04	A2947	P0000 (TH)	
S	1124	070	12			1/2		-SN FZFG	VV004	-03	-04	A2943	PEE24 PRESFR P0002 (TH)	
S	1141	110	7		070V130	1/2		-SN FZFG	OVC005	-03	-04	A2941	PEE24 PRESFR P0003 (TH)	
S	1143	100	7			1/2		-SN FZFG	OVC005	-03	-04	A2941	PEE24 PRESFR P0003 (TH)	
M	1151	080	10	17		1/2		SN FZFG	OVC005	-03	-04	A2938	PEE24 PRESFR SLP089 P0003 T10331039 (TH)	
S	1204	080	10			1/4		SN FZFG	OVC005	-03	-04	A2937	PRESFR P0001 (TH)	
S	1231	080	12			1/4		SN FZFG	BKN004 BKN009 OVC019	-03	-04	A2934	PRESFR P0004 (RLG)	
S	1244	110	7			1/4		-SN BR	BKN006 BKN011 OVC018	-03	-04	A2932	SFC VIS 1 PRESFR P0004 (RLG)	
M	1251	110	10			1/4		SN FZFG	SCT004 BKN009 OVC018	-03	-04	A2930	SFC VIS 1/2 PRESFR SLP931 P0005 60014 T1033 1044 11028 21039 58066 (RLG)	
S	1300	100	9			1/4		SN FZFG	BKN004 BKN009 OVC018	-03	-04	A2929	PRESFR P0001 (RLG)	
S	1319	080	8			1/4		SN FZFG	VV005	-03	-04	A2928	SFC VIS 1/2 PRESFR P0003 (RLG)	
S	1341	090	8			1 1/2M		-SN BR	SCT005 OVC020	-03	-04	A2924	PRESFR P0004 (RLG)	
M	1351	100	8			2 1/2M		-SN BR	FEW005 OVC018	-03	-04	A2924	PRESFR SLP086 P0004 T10331044 (RLG)	
S	1400	VFR	4			1 3/4M		-SN BR	FEW007 OVC018	-03	-04	A2923	P0000 (RLG)	
S	1420	100	3			1 3/4M		-SN BR	BKN007 OVC014	-03	-04	A2922	SFC VIS 2 1/2 CIG 006V012 P0000 (RLG)	
S	1431	110	3			1		-SN BR	FEW007 OVC014	-03	-04	A2922	TWR VIS 1 3/4 P0001 (RLG)	
M	1451	160	4			1 3/4M		-SN BR	OVC014	-03	-04	A2922	SLP002 P0001 T10331039 (RLG)	

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UNEDITED SURFACE WEATHER OBSERVATIONS (METAR/SPEC)						LATITUDE	LONGITUDE	STATION ELEVATION (FT) (MSL)	TIME CORRECTION	DAY	MONTH	YEAR	SID	STATION (TYPE, NAME, STATE)
						41°36'N	83°48'N	669	+5	09	01	1997	TOL	ASOS TOLEDO, OH
TYPE M/S	TIME (LST)	WIND				VISIBILITY		PRESENT WEATHER	SKY CONDITION	TEMP °C	DEW POINT °C	ALTI-METER IN.	REMARKS AND SUPPLEMENTAL CODED DATA	
		DIR TRUE	SPD KTS	GUST KTS	VARIABILITY TRUE	SURFACE STATUTE MILES	RUNWAY VISUAL RANGE (FEET)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
S	1533	160	4			1 1/4M		-SN BR	SCT014 BKN019 OVC024	-03	-03	A2919	TWR VIS 1 3/4 P0001 (RLG)	
M	1551	190	5			1 3/4M		-SN BR	FEW008 BKN022 OVC045	-03	-03	A2918	SFC VIS 2 1/2 SLP889 P0002 60007 T10281033 58044 (RLG)	
S	1605	200	7			2 1/2M		-SN BR	BKN008 BKN030 OVC045	-02	-03	A2918	SFC VIS 3 CIG 008V011 P0000 (RLG)	
S	1631	220	11	17		2 1/2M		-SN BR	SCT008 SCT014 OVC039	-02	-03	A2917	SFC VIS 5 P0000 (RLG)	
M	1651	230	15	21		2 1/2M			FEW014 OVC037	-02	-04	A2917	SFC VIS 9 UPB42E50SNE42 SLP885 P0000 T10171 039 (RLG)	
S	1720	240	18	25		2 1/2M		-SN BR	BKN018 OVC035	-02	-04	A2918	SFC VIS 3 UPB03E05SNB05 P0000 (RLG)	
M	1751	240	12			2 1/2M		-SN BR	BKN014 BKN019 OVC027	-03	-04	A2919	SFC VIS 3 UPB03E05SNB05 SLP882 P0000 T10281 044 (MD)	
M	1851	230	18	25		2 1/2M		-SN	BKN014 BKN020 OVC027	-03	-06	A2920	PK WND 23027/2313 SFC VIS 6 SLP897 P0000 60 007 T10331081 11017 21033 53005 (MD)	
S	1858	230	20	26		2 1/2M		-SN	SCT018 BKN023 OVC027	-03	-06	A2921	PK WND 25028/2352 SFC VIS 7 P0000 (MD)	
S	1918	230	18	26		6		-SN	BKN016 OVC023	-04	-07	A2921	PK WND 25028/2352 P0000 (MD)	
M	1951	230	21	27		7		SN	BKN018 BKN034 OVC060	-04	-07	A2922	PK WND 23030/0025 UPB42E49SNE42B49 SLP902 P0000 T10391067 (MD)	
S	2022	220	15	21		9		-SN	FEW016 OVC030	-04	-07	A2922	PK WND 23026/0054 SNE02B18 P0000 (MD)	
S	2025	220	18	21		9		-SN	FEW016 BKN027 OVC032	-04	-07	A2922	PK WND 23026/0054 SNE02B18 P0000CNCL (MD)	
M	2051	230	16	24		8			BKN019 OVC027	-04	-07	A2922	PK WND 23026/0054 SNE02B18E47 SLP904 P0000 T10391067 (MD)	
M	2151	230	15	26		10			OVC015	-04	-06	A2922	PK WND 24028/0245 SLP904 60000 T10391081 51 008 (MD)	
M	2251	230	15	21		10			BKN016 OVC027	-04	-07	A2922	SNB0257E23 SLP904 P0000 T10391072 (MR)	
M	2351	240	16	21		8		-SN	BKN016 BKN021 OVC027	-04	-07	A2923	SNB36 SLP905 P0000 T10391067 410171050 (MR)	
									*** End of File ***					

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UNEDITED SURFACE WEATHER OBSERVATIONS (METAR/SPEC)							LATITUDE	LONGITUDE	STATION ELEVATION (1 (M))	TIME CONVERSION	DAY	MONTH	YEAR	SD	STATION (TYPE, NAME, STATE)								
							41°36'N	83°48'N	669	+5	09	01	1997	TOL	ASOS TOLEDO, OH								
TIME LST	TOTAL SKY COVER (0-8)	TEMP. DRY-BULB	DEW POINT	TEMP. WET BULB	RELATIVE HUMIDITY (%)	STATION PRESSURE (IN)	PRESSURE TENDENCY	FT. 3-HR CHANGE	HOURLY PRECIPITATION (IN)		SYNOPTIC DATA												
										HR	TIME	NO	LOW CLOUD TYPE	MID CLOUD TYPE	HIGH CLOUD TYPE	MAX TEMP (1 C)	MIN TEMP (1 C)	PRECIP (INS)	SNOW FALL (INS)	SNOW DEPTH (INS)	STATION PRESSURE (INS)	BAROGRAPH	BARR CORR
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
0051		-4.4	-8.3	-56	75	29.32	8	040	0.00	00-01													
0151		-4.4	-7.8	-55	77	29.30			0.00	01-02													
0251		-3.9	-6.7	-48	81	29.24			0.00	02-03													
0351		-3.9	-6.7	-48	81	29.18	8	045	0.00	03-04													
0451		-3.3	-7.2	-46	75	29.16			0.00	04-05													
0551		-3.9	-4.4	-41	96	29.06			T	05-06													
0651		-3.9	-4.4	-41	96	29.00	8	062	0.02	06-07													
0751		-3.3	-4.4	-37	92	28.90			T	07-08													
0851		-3.3	-5.6	-41	84	28.89			T	08-09													
0951		-3.9	-4.4	-41	96	28.79	6	070	0.04	09-10													
1051		-3.3	-3.9	-35	96	28.77			0.02	10-11	-SN	0510	0645	FZFG	1255	1335							
1151		-3.3	-3.9	-35	96	28.67			0.03	11-12	BR	0525	0705	SN	1300	1325							
1251		-3.3	-4.4	-37	92	28.60	8	066	0.05	12-13	BR	0715	0730	+SN	1325	1330							
1351		-3.3	-4.4	-37	92	28.54			0.04	13-14	UP	0645	0650	-SN	1330	1628							
1451		-3.3	-3.9	-35	96	28.52			0.01	14-15	-RA	0650	0655	BR	1335	1645							
1551		-2.8	-3.3	-30	96	28.48	6	044	0.02	15-16	RA	0655	0900	-SN	1630	1645							
1651		-1.7	-3.9	-25	85	28.47			T	16-17	BR	0655	0930	UP	1645	1650							
1751		-2.8	-4.4	-34	89	28.49			T	17-18	+RA	0900	0905	-SN	1705	1945							
1851		-3.3	-6.1	-42	81	28.50	3	005	T	18-19	RA	0905	0915	BR	1710	1730							
1951		-3.9	-6.7	-48	81	28.52			T	19-20	PE	0915	0930	BR	1735	1815							
2051		-3.9	-6.7	-48	81	28.52			T	20-21	FZFG	0930	1240	BR	1820	1825							
2151		-3.9	-6.1	-46	85	28.52	1	006	0.00	21-22	-SN	1125	1155	UP	1945	1950							
2251		-3.9	-7.2	-50	78	28.52			T	22-23	SN	1155	1215	SN	1950	2005							
2351		-3.9	-6.7	-48	81	28.53			T	23-24	-SN	1215	1225	-SN	2020	2050							
											BR	1235	1255	-SN	2200	2225							
											+SN	1240	1255		2340	0000							
												1255	1300										

SUMMARY OF THE DAY (MIDNIGHT TO MIDNIGHT)

PEAK WINDS			FASTEST 2-MIN WIND			SUNRISE TIME (LST)	SUNSET TIME (LST)	TOTAL SUNSHINE (MIN)	PERCENT PSBL SUNSHINE	CHARACTER SUNRISE	CHARACTER SUNSET	SKY COVER		24-HR MAX TEMP (0.1 C)	24-HR MIN TEMP (0.1 C)	24-HR PRECIP. WATER EQUIV (INS)	24-HR SNOW-FALL UNMLTD	1200 UTC SNOW DEPTH (INS)	WATER EQUIV. (INS)	STATION PRESSURE	SEA LEVEL PRESSURE
SPEED (KTS)	DIRECTION	TIME (LST)	SPEED (KTS)	DIRECTION	TIME (LST)							SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT								
43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
34	230	1925	26	230	1819			M	M					-1.7	-5.0	0.23					

REMARKS, NOTES AND MISCELLANEOUS PHENOMENA 05:

TIME CHECK-CLOCK CORRECT TO THE NEAREST MINUTE AT: / /

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STATION IDENTIFICATION (LAT & LONG)	LATITUDE	LONGITUDE	TIME ZONE	STATION ELEVATION (FT OR M)	SURFACE WEATHER OBSERVATIONS (PRELIMINARY)		WIND		TEMPERATURE		PRESSURE		VISIBILITY		CLOUDS		MOON		SEA	
					TEMP (F)	TEMP (C)	DIR	SPD (KT)	DIR	SPD (KT)	SEA	HT (FT)	DIR	HT (FT)	DIR	HT (FT)	DIR	HT (FT)	DIR	HT (FT)
29135																				
29165																				
29060																				
28980																				
28910																				
28835																				
28710																				
28630																				
28570																				
28500																				
28435																				
28380																				
28320																				
28250																				
28190																				
28135																				

SN RH BR PE

SURFACE WEATHER OBSERVATIONS (METAR/SPEC)			LONGITUDE			LATITUDE			STATION (TYPE, NAME, STATE)				
TIME (LST)	DIR TRUE	SPD KTS	WIND		VISIBILITY	PRESENT WEATHER	SKY CONDITION	TEMP °C	DEW POINT °C	ALT-METER INS.	REMARKS AND SUPPLEMENTAL CODED DATA		
			TRUE	VARIABILITY								TIME CORRECTION	DAY
1	2	3	4	5	6	7	8	9	10	11	12	13	14
M	0054	070	8		7	-SN	SCT026 OVC080	-03	-07	A2990	SNB0459 CIG 043 36R PRESRR SLP136 P0000 600 00 T10331067 11022 21033 50033 (WT)		
S	0113	070	11		7	-SN	BKN028 OVC041	-03	-07	A2986	PRESFR P0000 (WT)		
S	0139	070	16		5	-SN BR	FEW024 BKN041 OVC055	-04	-06	A2981	PRESFR P0000 (WT)		
M	0154	070	14		8	-SN	FEW041 OVC050	-03	-06	A2980	PRESFR SLP103 P0000 T10331061 (WT)		
M	0254	060	11		2 1/2M	-SN	BKN022 BKN029 OVC037	-03	-06	A2976	PRESFR SLP097 P0004 T10331061 (WT)		
S	0304	070	13		1	-SN BR	BKN020 OVC027	-04	-06	A2975	P0001 (WT)		
S	0323	070	14		2 1/2M	-SN BR	OVC020	-04	-06	A2972	PRESFR P0003 (WT)		
S	0330	060	15		3	-SN BR	OVC020	-04	-05	A2973	PRESFR P0003 (WT)		
S	0344	070	13		3	-SN BR	FEW009 OVC020	-04	-06	A2971	PRESFR P0004 (WT)		
M	0354	070	13		1 3/4M	-SN BR	FEW009 OVC020	-04	-05	A2971	PRESFR SLP070 P0005 60009 T10361050 56066 (WT)		
S	0403	060	12		3	-SN BR	SCT009 BKN017 OVC022	-04	-05	A2969	P0000 (WT)		
S	0416	060	13		2 1/2M	-SN BR	SCT009 OVC020	-03	-04	A2968	RAB07E15FZTAB15E16 PRESFR P0001 (WT)		
S	0438	070	11		4	-SN BR	FEW009 OVC018	-03	-04	A2968	RAB07E15FZTAB15E16 CIG 013 36R PRESFR P0001 (WT)		
M	0454	060	9		3	-SN BR	FEW007 BKN013 OVC018	-03	-04	A2966	RAB07E15LP851FZTAB15E16SNE51 PRESFR SLP083 P0001 T10331044 (WT)		
M	0554	060	9		2 1/2M	-FZASN BR	OVC005	-03	-04	A2961	LP8506FZTAB15E16SNE066 SLP087 P0003 T10331039 (WT)		
S	0607	060	16		1 3/4M	-SN BR	OVC005	-03	-04	A2967	FZRAE07 PRESFR P0000 (WT)		
S	0620	060	13		3	-SN BR	OVC005	-03	-04	A2965	FZRAE07 CIG 004V009 PRESFR P0001 (WT)		
M	0654	100	12		7	-SN BR	OVC005	-03	-04	A2962	FZRAE07 PRESFR SLP004 931022 4001 P0001 60 014 70014 T10331039 11033 21039 56056 (WT)		
M	0754	130	6		6	FZDZ BR	OVC005	-03	-03	A2963	SNE04 PRESFR SLP009 P0000 T10261026 (WT)		
S	0818	130	6		3	-SNFZDZ BR	OVC005	-02	-02	A2946	FZDZB17 PRESFR P0000 (JF)		
S	0828	120	7		2	FZDZ BR	OVC005	-02	-02	A2946	FZDZB17SNB27E41 PRESFR SLP982 PCPN VRY LG P0000 T10171017 (JF)		
M	0854	150	7		2	-SNPE BR	OVC003	-01	-01	A2946	FZDZE17SNB17PEB17 P0000 (JF)		
S	0917	160	6		2	-SN BR	OVC003	-01	-01	A2947	FZDZE17SNB17PEB17E30 P0000 (JF)		
S	0930	170	9		2	-SN BR	OVC003	-01	-01	A2945	FZDZE17SNB17PEB17E30 SLP979 VIS N11/2 P0000 60000 T10061006 56031 (JF)		
M	0954	170	11		2	-SN BR	OVC003	-01	-01	A2945	P0000 (JF)		
S	1010	160	9		1 1/2M	-SN BR	OVC003	00	-01	A2946	PRESFR P0000 (JF)		
S	1036	200	8		3	-SN BR	OVC003	00	00	A2943	PRESFR SLP965 INTMT -SG P0000 T00060000 (JF)		
M	1054	190	10		2 1/2M	-SN BR	OVC003	01	00	A2940	SNE12 PRESFR P0000 (JF)		
S	1112	160	7		3	BR	OVC003	01	00	A2939	PRESFR P0000 (JF)		
S	1112	160	7		3	-SN BR	OVC003	01	00	A2939	PRESFR P0000 (JF)		
M	1154	210	10	14	7	-SN	OVC003	01	00	A2967	CIG 005V007 PRESFR SLP982 P0000 T00060000 (JF)		
S	1206	210	9	16	7	-SN BR	OVC005	01	00	A2966	SNE08 P0000 (JF)		
M	1254	220	9	16	13/4	-SN BR	OVC005	01	00	A2964	SNE06S4 CIG 005V009 SLP943 60012 P0003 4/0 01 933002 T00060000 10011 21033 56035 (JF)		
S	1322	230	8	17	2	-SN BR	BKN007 OVC012	01	00	A2963	CIG 005V010 P0000 (JF)		
S	1334	230	11	16	3	-SN BR	BKN007 OVC012	01	00	A2964	CIG 005V009 P0000 (JF)		
M	1354	230	11	16	5	-SN BR	SCT007 BKN013 OVC019	01	-01	A2964	CIG 006 36R SLP941 INTMT -SG P0000 T00061000 6 (JF)		
S	1409	230	11	23	200V260	-SN BR	SCT009 OVC016	01	-01	A2963	CIG 010 36R P0000 (JF)		
S	1423	230	11	22	6		FEW010 BKN017 OVC027	01	-01	A2962	SNE23 P0000 (JF)		
M	1454	240	16	26	6		BKN018 OVC025	01	-03	A2962	PK WND 24028/1952 SNE23 SLP937 CIG RGD P000 0 T00061026 (JF)		

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UNEDITED SURFACE WEATHER OBSERVATIONS (METAR/SPEC)						LATITUDE 39° 03'N	LONGITUDE 84° 40'N	STATION ELEVATION (MSL) 869	TIME CORRECTION (MSL) +5	DAY 09	MONTH 01	YEAR 1997	SD CVG	STATION (TYPE, NAME, STATE) ASOS CINCINNATI, OH
TYPE MS	TIME (LST)	WIND				VISIBILITY		PRESENT WEATHER	SKY CONDITION	TEMP °C	DEW POINT °C	ALTI- METER INS.	REMARKS AND SUPPLEMENTAL CODED DATA	
		DIR TRUE	SPD KTS	GUST KTS	VARIABILITY TRUE	SURFACE STATUTE MILES	RUNWAY VISUAL RANGE (FEET)							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
S	1513	250	12	23		6		-SN BR	OVC014	00	-02	A2933	SNB03 P0000 (JF)	
M	1554	250	17	26		6		-SN	BKN014 OVC020	-01	-04	A2935	PK WND 25026/2053 SLP946 SNB03 P0000 60000 T10081039 53002 (JF)	
S	1601	240	17	26		9			OVC016	-01	-04	A2935	UPB2057E2059SNE2057 P0000CNCL (JF)	
S	1611	260	15	24		8		-SN	OVC018	-01	-04	A2936	P0000 (JS)	
S	1625	260	14	21		2 1/2M		-SN	OVC017	-02	-04	A2937	P0000 (JS)	
S	1643	260	16	22		4		-SN	BKN014 OVC021	-02	-06	A2938	PK WND 27027/2126 VIS 2 1/2 36R P0000 (JS)	
M	1654	240	16	21		6		-SN	SCT016 BKN022 OVC028	-02	-07	A2938	PK WND 27027/2126 SLP956 P0000 T10171067 (J S)	
M	1754	250	16	24		10		-SN	SCT022 BKN029 OVC035	-02	-06	A2941	PK WND 22031/2156 SNE01SNB54 SLP969 P0000 T 10221081 (JS)	
M	1854	240	8	16		9		-SN	BKN024 OVC032	-03	-06	A2943	SLP974 P0000 60000 T10261081 10006 21026 51 027 (JS)	
M	1954	250	16	28		9		-SN	OVC019	-03	-07	A2944	PK WND 26028/0048 SLP977 P0000 T10261067 (J S)	
M	2054	240	10	18		6		-SN	OVC021	-03	-06	A2944	SLP977 P0000 T10331081 (JS)	
M	2154	250	10	15		3		-SN	BKN022 OVC026	-03	-06	A2945	SLP979 60001 P0001 T10331081 51006 (JS)	
S	2247	240	10	17		2		-SN	FEW019 BKN025 OVC030	-04	-06	A2945	P0000 (JS)	
M	2254	250	10	17		2		-SN	SCT019 BKN024 OVC038	-04	-07	A2945	CIG 019 36R SLP979 P0001 T10391072 (JS)	
S	2331	240	7	17	200V270	4		-SN	SCT015 BKN023 OVC050	-04	-07	A2944	P0000 (JS)	
M	2354	230	11	16		2 1/2M		-SN	FEW015 BKN020 OVC055	-04	-07	A2944	SLP977 4/001 P0000 T10391072 400111039 (JS)	
*** End of File ***														

16

UNEDITED SURFACE WEATHER OBSERVATIONS (METAR/SPEC)										LATITUDE		LONGITUDE		STATION FLIGHT NO.	TIME CORRECTION	DAY	MONTH	YEAR	SD	STATION (TYPE, NAME, STATE)									
										39° 03' N		84° 40' N		869	+5	09	01	1997	CVG	ASOS CINCINNATI, OH									
TIME LST	TOTAL SKY COVER (0-8)	TEMP. DRY-BULB	DEW POINT	TEMP. WET BULB	RELATIVE HUMIDITY (%)	STATION PRESSURE (IN)	PRESSURE TENDENCY	NET 3 HR CHANGE	HOURLY PRECIPITATION (IN)	SYNOPTIC DATA																			
										TIME	NO	LOW CLOUD TYPE	MID CLOUD TYPE	HIGH CLOUD TYPE	MAX TEMP (1 C)	MIN TEMP (1 C)	PRECIP (IN)	SNOW FALL (IN)	SNOW DEPTH (IN)	STATION PRESSURE (IN)	BAROGRAPH	SNEL CORR	LOCAL USE						
0054		-3.3	-6.7	-44	78	28.97	6	033	T	00-01																			
0154		-3.3	-6.1	-42	81	28.87			T	01-02																			
0254		-3.3	-6.1	-42	81	28.84			0.04	02-03																			
0354		-3.9	-5.0	-43	92	28.79	6	066	0.05	03-04																			
0454		-3.3	-4.4	-37	92	28.74			0.01	04-05																			
0554		-3.3	-3.9	-35	96	28.69			0.03	05-06																			
0654		-3.3	-3.9	-35	96	28.60	8	058	0.01	06-07																			
0754		-2.8	-2.8	-26	100	28.61			T	07-08																			
0854		-1.7	-1.7	-17	100	28.56			T	08-09																			
0954		-6	-6	-6	100	28.53	8	031	T	09-10																			
1054		.6	.0	4	96	28.48			T	10-11																			
1154		.6	.0	4	96	28.46			T	11-12																			
1254		.6	.0	4	96	28.43	8	035	0.03	12-13																			
1354		.6	-6	1	92	28.43			T	13-14																			
1454		.6	-2.8	-7	78	28.41			T	14-15																			
1554		-6	-3.9	-18	79	28.44	3	002	T	15-16																			
1654		-1.7	-6.7	-34	69	28.47			T	16-17																			
1754		-2.2	-6.1	-35	75	28.49			T	17-18																			
1854		-2.8	-6.1	-39	78	28.51	1	027	T	18-19																			
1954		-2.8	-6.7	-41	75	28.52			T	19-20																			
2054		-3.3	-6.1	-42	81	28.52			T	20-21																			
2154		-3.3	-6.1	-42	81	28.53	1	006	0.01	21-22																			
2254		-3.9	-7.2	-50	78	28.53			0.01	22-23																			
2354		-3.9	-7.2	-50	78	28.52			T	23-24																			
SUMMARY OF THE DAY (MIDNIGHT TO MIDNIGHT)																													
PEAK WINDS			FASTEST 2-MIN WIND			SUNRISE TIME (LST)	SUNSET TIME (LST)	TOTAL SUNSHINE (MIN)	PERCENT PSBL SUNSHINE	CHARACTER SUNRISE	CHARACTER SUNSET	SKY COVER		24-HR MAX TEMP (0.1 C)	24-HR MIN TEMP (0.1 C)	24-HR PRECIP WATER EQUIV (IN)	24-HR SNOW-FALL UNMLTD	1200 UTC SNOW DEPTH (IN)	WATER EQUIV (IN)	STATION PRESSURE	SEA LEVEL PRESSURE								
SPEED (KTS)	DIRECTION	TIME (LST)	SPEED (KTS)	DIRECTION	TIME (LST)							SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT																
36	220	1656	23	230	1719			M	M			55	56	1.1	-3.9	0.31	60	61	62	63	64								
REMARKS, NOTES AND MISCELLANEOUS PHENOMENA 65:																							TIME CHECK—CLOCK CORRECT TO THE NEAREST MINUTE AT: / / /						

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Meteorological Conditions for Maybee, MI
 Detroit Edison meteorological monitoring site
 for January 9, 1997. Data hour ending.

Year	Month	Day	Hour	Location	Peak Wind Speed (mph)	Average Wind Speed (mph)	Average Wind Direction (deg)	Average Wind Std Dev (deg)	Average (F) Temp.
970109	01	MAYBEE	12.5	6.7	72.	12.6	23.0		
970109	02	MAYBEE	12.2	6.8	76.	13.2	23.8		
970109	03	MAYBEE	13.4	8.0	73.	13.8	24.6		
970109	04	MAYBEE	17.2	9.5	68.	12.4	24.9		
970109	05	MAYBEE	15.3	9.2	71.	13.6	25.3		
970109	06	MAYBEE	17.7	10.1	69.	10.9	25.5		
970109	07	MAYBEE	21.3	10.5	69.	14.7	25.3		
970109	08	MAYBEE	26.9	14.0	66.	11.5	25.5		
970109	09	MAYBEE	27.1	12.4	67.	13.3	26.0		
970109	10	MAYBEE	29.1	15.4	68.	11.3	26.8		
970109	11	MAYBEE	29.9	15.0	71.	13.6	27.0		
970109	12	MAYBEE	24.2	11.3	84.	12.7	28.1		
970109	13	MAYBEE	24.1	11.3	81.	11.7	28.4		
970109	14	MAYBEE	14.4	7.6	60.	14.1	27.0		
970109	15	MAYBEE	12.3	6.9	57.	11.4	27.2		
970109	16	MAYBEE	7.8	3.1	87.	27.2	28.2		
970109	17	MAYBEE	13.8	6.2	181.	17.0	28.4		
970109	18	MAYBEE	29.2	18.3	221.	9.3	28.5		
970109	19	MAYBEE	31.7	21.8	227.	5.6	27.7		
970109	20	MAYBEE	32.7	21.3	226.	5.4	26.4		
970109	21	MAYBEE	33.0	24.0	229.	5.3	25.9		
970109	22	MAYBEE	33.5	23.8	237.	8.6	25.7		
970109	23	MAYBEE	33.1	21.7	248.	7.5	24.2		
970109	24	MAYBEE	31.0	20.3	251.	7.9	23.8		

Richard A. Foltman, CCM
 Detroit Edison Co.
 313.235.6185
 foltmanr@detroitedison.com

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Enrico Fermi Atomic Power Plant Unit 2 -- Meteorology

Hourly Archive Data

	WS10	WD10	AT10	DT	Uref	ST10	SP10	WS60	WD60	DP10	Pres
Primary	15.4	84.6-	1.6-	1.0	4.948	4.7	2.8	24.8	90.7-	3.8	0.031
Secondary	17.3	90.8-	2.3-	0.1	4.966	5.0	2.7	24.4	91.1		
Backup	999.0	999.0	999.0	999.0	999.0						
Chive	15.4	84.6-	1.6-	1.0	1.000	4.7	2.8	24.8	90.7-	3.8	0.031
Ability Class : A											
Estimated archived data recovery percentage	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	100.0
int critical parameter = 100 %											

1/05/97 14:00:17 EST

Detroit Edison Company

Enrico Fermi Atomic Power Plant Unit 2 -- Meteorology

Hourly Archive Data

	WS10	WD10	AT10	DT	Uref	ST10	SP10	WS60	WD60	DP10	Pres
Primary	11.7	88.8-	1.7-	0.9	4.948	5.4	3.2	18.9	95.6-	3.8	0.028
Secondary	12.8	94.2-	2.2-	0.1	4.966	5.6	2.9	18.4	96.0		
Backup	999.0	999.0	999.0	999.0	999.0						
Chive	11.7	88.8-	1.7-	0.9	2.250	5.4	3.2	18.9	95.6-	3.8	0.028
Ability Class : B											
Estimated archived data recovery percentage	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	100.0
int critical parameter = 100 %											

1/09/97 15:00:18 EST

Detroit Edison Company

Enrico Fermi Atomic Power Plant Unit 2 -- Meteorology

Hourly Archive Data

	WS10	WD10	AT10	DT	Uref	ST10	SP10	WS60	WD60	DP10	Pres
Primary	8.9	103.4-	1.4-	0.8	4.948	6.3	3.1	13.8	108.4-	3.5	0.010
Secondary	9.0	108.1-	1.9	0.1	4.966	6.3	3.1	13.5	108.9		
Backup	999.0	999.0	999.0	999.0	999.0						
Chive	8.9	103.4-	1.4-	0.8	2.750	6.3	3.1	13.8	108.4-	3.5	0.010
Ability Class : B											
Estimated archived data recovery percentage	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	100.0
int critical parameter = 100 %											

1/09/97 16:00:18 EST

Detroit Edison Company

Enrico Fermi Atomic Power Plant Unit 2 -- Meteorology

Hourly Archive Data

	WS10	WD10	AT10	DT	Uref	ST10	SP10	WS60	WD60	DP10	Pres
Primary	7.1	158.5-	0.9-	0.8	4.944	8.6	2.9	10.6	167.4-	3.0	0.080
Secondary	6.9	163.7-	1.5	0.1	4.966	9.1	2.5	9.7	166.7		
Backup	999.0	999.0	999.0	999.0	999.0						
Chive	7.1	158.5-	0.9-	0.8	3.250	8.6	2.9	10.6	167.5-	3.0	0.080
Ability Class : C											
Estimated archived data recovery percentage	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	100.0
int critical parameter = 100 %											

1/09/97 17:00:18 EST

Detroit Edison Company

Enrico Fermi Atomic Power Plant Unit 2 -- Meteorology

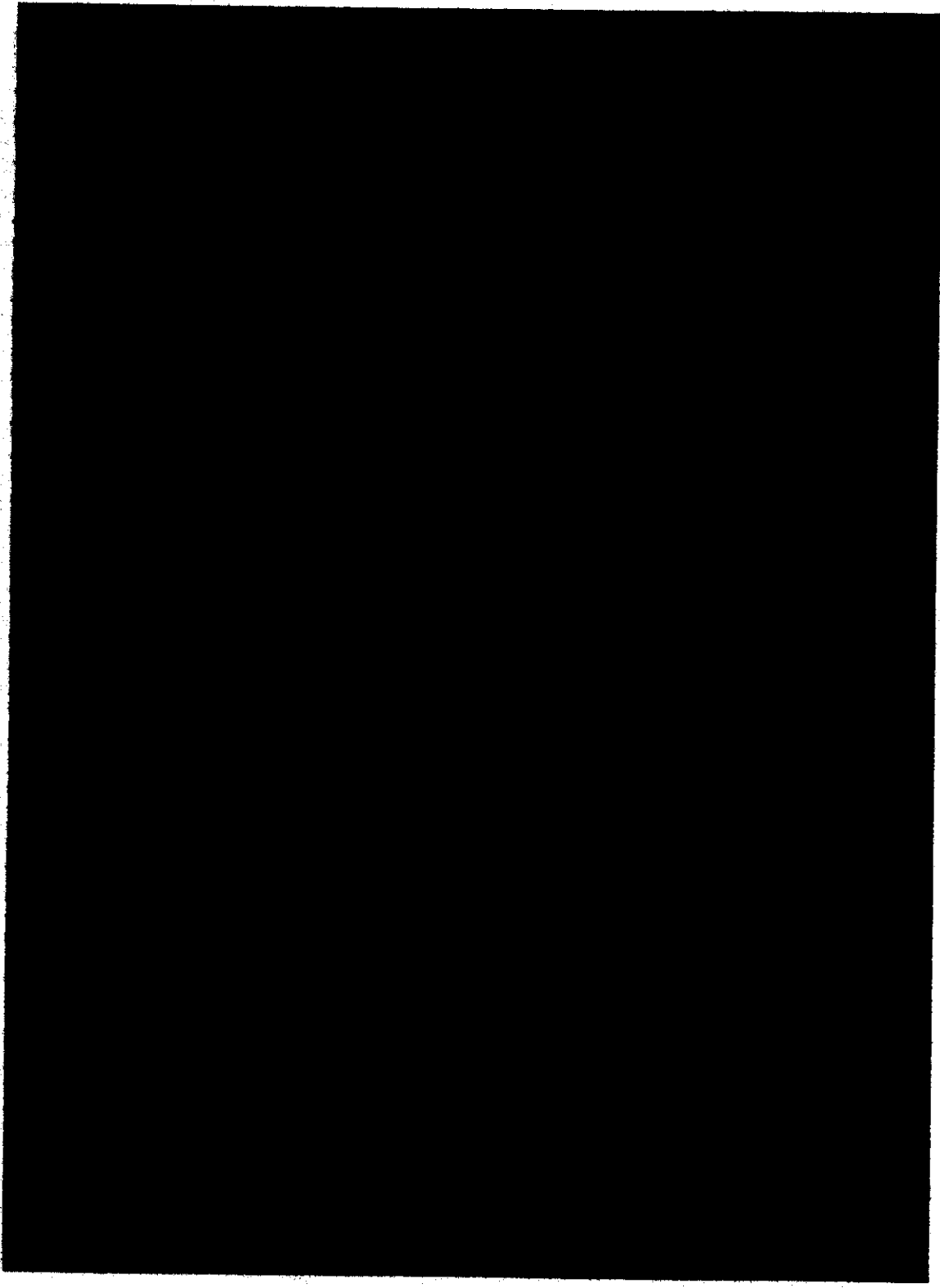
Hourly Archive Data

	WS10	WD10	AT10	DT	Uref	ST10	SP10	WS60	WD60	DP10	Pres
Primary	7.4	196.8-	1.1-	0.8	4.945	8.3	4.4	12.1	204.8-	3.2	0.080
Secondary	7.6	203.1-	1.6-	0.2	4.966	8.0	3.7	12.1	202.8		
Backup	999.0	999.0	999.0	999.0	999.0						
Chive	7.4	197.0-	1.1-	0.8	3.000	8.3	4.4	12.1	204.7-	3.2	0.080
Ability Class : C											
Estimated archived data recovery percentage	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	100.0
int critical parameter = 100 %											

*WS
m/s
WD
degrees
true*

*Voltage ref
std dev
WD
vert. comp
60 mm
DP10
meters
PAC*

19



1-10-94

MSL 72632

IDN ID

726320

MSL: DONE

STATION NAME

WHITE LAKE

DATA TYPES

RP

ST CO

MI US

LAT

LON

ELEV

42:42N 083:28W 329

UL LIST 72632 00 MDF=136 SIG=137 DAY=97010

STATION:72632 DAY/TIME:97010 000000 LAT/LONG:426833 834666

LEVEL	TEMP	DEW PT	DIR	SPEED	HEIGHT
948.0	-5.7	-6.7	230.0	2.0	329.0
944.0	-4.7	-7.6	224.8	2.3	362.2
925.0	-4.7	-5.1	200.0	3.6	522.4
914.8	-5.2	-5.6	185.0	4.1	609.0
879.8	-7.1	-7.4	155.0	6.1	914.0
850.0	-8.7	-9.0	150.0	7.7	1183.6
846.1	-8.8	-9.1	150.0	8.2	1219.0
781.6	-10.5	-10.9	160.0	10.2	1829.0
700.0	-12.9	-13.5	176.2	15.5	2678.0
649.0	-15.9	-18.0	187.2	19.1	3252.1
614.6	-19.0	-26.7	195.0	21.6	3658.0
583.0	-22.1	-35.1	195.0	21.2	4051.2
565.7	-24.0	-35.1	195.0	21.0	4268.0
519.9	-29.3	-35.2	195.0	20.5	4878.0
500.0	-31.7	-35.2	190.0	20.0	5159.6
485.0	-33.3	-35.7	190.0	19.3	5374.4
477.3	-33.9	-37.9	190.0	19.0	5487.0
475.0	-34.1	-38.6	190.3	18.9	5520.6
459.0	-34.1	-49.1	192.2	18.1	5760.7
437.3	-35.5	-51.4	195.0	16.9	6097.0
413.0	-37.1	-54.1	195.0	17.2	6495.7
400.0	-37.3	-54.3	195.0	17.4	6716.9
369.0	-37.1	-54.1	201.2	16.8	7274.6
350.8	-38.3	-55.0	205.0	16.4	7621.0
335.6	-39.4	-55.8	210.0	15.4	7926.0
316.0	-40.9	-56.9	213.4	20.7	8338.4
300.0	-40.7	-57.7	216.3	25.3	8692.2
256.4	-42.8	-58.9	225.0	39.0	9756.0
250.0	-43.1	-59.1	225.0	38.0	9927.6
223.8	-44.7	-60.7	225.0	40.1	10670.0
204.3	-46.0	-62.0	225.0	39.6	11280.0
200.0	-46.3	-62.3	225.0	40.6	11421.4
186.3	-47.1	-62.9	225.0	50.4	11890.0
185.0	-47.2	-63.0	225.0	50.4	11935.7
177.9	-47.7	-63.3	225.0	42.1	12195.0
154.9	-49.3	-64.4	230.0	48.8	13109.0
150.0	-49.7	-64.7	230.0	48.3	13319.3
139.0	-49.1	-64.1	230.0	46.6	13818.6
113.0	-55.3	-69.3	230.0	41.9	15159.3
111.5	-55.3	-69.3	230.0	41.6	15243.0
101.4	-55.3	-69.3	230.0	44.2	15853.0
100.0	-55.3	-69.3	230.0	44.2	15939.5
93.9	-56.7	-70.7			16339.9

White Lake, MI
0000Z

PARCEL: DEW PT.= 266.2 POT. TEMP= 275.3 EQUIV.POT.TEMP= 282.2 MIX= 2.7
PRECIP.WATER= 7.3 CONV.TEMP= -1.8 FCST MAX= 0.0 LIFTED INDEX= 10.5
TOTALS= 45.7 EQUIL.PRES.= 776.2 K-INDEX= 13.4 SWEAT INDEX= 68.8

UL: DONE

TFILE

TFILE did a CLOSE on window 0; text saved in file DCA7A017.UA

21

TFILE active on window 0
 UL LIST 72426 00 MDF=136 SIG=137 DAY=97010
 STATION:72426 DAY/TIME:97010 000000 LAT/LONG:394166 838165

LEVEL	TEMP	DEW PT	DIR	SPEED	HEIGHT
957.0	-1.5	-4.5	250.0	12.8	317.0
925.0	-4.3	-5.4	240.0	21.0	586.8
922.4	-4.5	-5.5	240.0	21.0	609.0
892.0	-6.7	-7.1	235.7	21.5	872.1
887.2	-6.9	-7.3	235.0	21.6	914.0
853.2	-8.4	-8.8	230.0	23.1	1219.0
850.0	-8.5	-8.9	230.0	23.1	1247.9
810.0	-11.1	-11.7	236.4	26.0	1620.4
794.0	-10.1	-10.7	239.1	27.3	1774.0
788.4	-10.4	-11.0	240.0	27.7	1829.0
776.0	-11.1	-11.8	242.0	27.5	1950.7
762.0	-9.5	-10.1	244.3	27.3	2091.1
757.8	-9.7	-10.4	245.0	27.2	2134.0
728.3	-11.1	-12.9	245.0	25.7	2439.0
700.1	-12.5	-15.3	240.0	24.1	2743.0
700.0	-12.5	-15.3	240.0	24.1	2743.7
690.0	-12.9	-15.9	239.4	24.8	2853.7
667.0	-14.9	-22.9	238.0	26.4	3111.4
637.0	-17.1	-23.1	236.1	28.6	3458.3
620.1	-18.3	-26.0	235.0	29.8	3658.0
571.3	-22.1	-35.1	240.0	33.9	4268.0
571.0	-22.1	-35.1	240.0	33.9	4271.3
525.5	-25.2	-36.5	240.0	42.1	4878.0
519.0	-25.7	-36.7	238.7	42.6	4968.8
500.0	-27.9	-40.9	235.0	44.2	5238.0
442.7	-35.1	-46.5	235.0	45.2	6097.0
431.0	-36.7	-47.7	235.0	50.9	6286.1
405.7	-35.9	-51.8	230.0	62.7	6707.0
400.0	-35.7	-52.7	230.0	63.7	6804.4
370.0	-33.5	-51.5	226.7	89.5	7349.4
355.8	-34.5	-52.3	225.0	102.3	7621.0
300.0	-38.9	-55.9			8805.5
282.0	-42.1	-58.1			9227.3
250.0	-42.5	-58.5			10042.1
200.0	-45.1	-61.1			11541.7
189.0	-44.5	-60.5			11920.2
150.0	-49.3	-64.3			13452.4
117.0	-59.3	-72.3			15045.6
100.0	-57.3	-70.3			16034.0
90.6	-60.1	-73.1			16654.3
79.2	-63.5	-75.5			17487.1
75.6	-61.5	-74.5			17774.3
70.0	-65.3	-77.3			18247.3
58.5	-61.5	-74.5			19350.3
51.2	-65.1	-77.1			20169.9
46.2	-62.1	-74.1			20800.8
34.5	-61.1	-74.1			22611.0
22.5	-64.1	-76.1			25248.0
19.4	-60.3	-73.3			26164.3

LEVEL Millibars
 TEMP °C
 DEW PT °C
 DIR Degrees True
 SPEED Meters/Sec
 Height Meters

PARCEL: DEW PT.= 266.8 POT. TEMP= 275.4 EQUIV.POT.TEMP= 282.6 MIX= 2.8
 PRECIP.WATER= 7.2 CONV.TEMP= -1.4 FCST MAX= 0.0 LIFTED INDEX= 13.9
 TOTALS= 38.4 EQUIL.PRES.= 772.2 K-INDEX= 7.7 SWEAT INDEX=211.6

UL: DONE

UL LIST 72637 00 MDF=136 SIG=137 DAY=97010
 STATION:72637 DAY/TIME:97010 000000 LAT/LONG:0 0
 NO SOUNDING AVAILABLE -1

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