

19910818H1. FDIR

Hurricane Bob

FLIGHT #2 H910818

TYPE OF DATA

SENSOR OR OPTION

INE	2
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	C02913.CON

Notes:

There were no time/data gaps.

Total temperature sensor 1, TT1, experienced some wet bulbing during the time frame 020401Z - 053300Z. Whenever the value of TT1 was lower than the value of total temperature sensor 2, TT2, then $TT1 = TT2$.

The aircraft positions were not renavigated.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

	Take off	Landing
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Aircraft static pressure	1015.9mb	1014.7mb
Corrected tower pressure	1015.5mb	1015.3mb

Flight Meteorologist: A. Barry Damiano

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: H910818	FM: MFA	TO: MFA
FLT NO: 91-044	BLK IN: 0738Z	ATA: 0727Z
ETD: 2230Z	BLK OUT: 2339Z	RTD: 0011Z
ETE:	BLK TIME: 7:59	FLT TIME: 7:16
SPONSOR ORG: HRD	PROGRAM: HURRICANE RESEARCH	PURPOSE: FLT INTO HRCN BOB

OAO PERSONNEL

AC TICKNOR	SYS ENG ROLES
CP TURNER	DATA SYS LYNCH
NAV NOKUTTS / KOZAK / STRONG	RADAR
FE WADE	BT/ODW WILLIAMS
RADIO	CLD PHYS
FD DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
McFADDEN	PM	AOC
MARKS	PI	HRD
GAMACHE	RADAR	{
CHRISTO		
GUINNEY		
DIPIETRO		NHC
WERNER		Guest
		Guest

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 14910818

TIME OFF: 0011Z

TIME ON: 0727Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1015.9 SP 1016.0	1015.5 1015.6	PS 1015.7 SP 1013.6	1015.83 CALL 1015.2

NO

DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

4

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

RXBT

RXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

35°24'
75°04'

36°02' 0440Z
74°41' 951MB

953MB

0251Z

SAW AF C-130
OVERHEAD

17910818

TIME	LAT	LONG	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS		PQ
002000	2559	8009	84	84	267	4	2850	3039	10.1	1.2	1014.6	706.0	CLR	72.6
003100	2622	7933	19	18	263	13	5173	5498	-2.6	-15.6	1011.3	524.9	CLR	58.0
003600	2642	7924	20	19	203	9	5799	6150	-7.2	-20.6	1011.7	485.1	CLR	72.8
004500	2724	7907	20	18	292	12	5796	6143	-6.6	-22.8	1009.4	485.2	CLR	74.6
005400	2804	7849	20	18	306	12	5794	6136	-6.5	-15.0	1008.6	485.3	CLR	73.7
011800	2951	7801	22	19	303	17	5789	6125	-5.5	-34.0	1005.9	485.6	CLR	74.6
012500	2022	7747	22	19	298	18	5788	6119	-5.6	-33.9	1006.6	485.7	CLR	75.0
013500	3107	7725	23	19	303	21	5786	6111	-5.9	-33.9	1006.5	485.8	CLR	76.5
014700	3200	7658	81	79	299	16	317	5904	-4.6	-32.8	1004.8	501.4	CLR	84.6
020100	3214	7537	75	75	252	41	1461	1516	17.9	15.5	1011.1	849.6	—	84.5
020500	3219	7517	83	85	248	37	1458	1516	17.8	15.5	1010.8	850.4	OVR BUOY	72.6
021100	3243	7509	0	352	242	44	1461	1504	17.3	16.5	1009.8	849.9	RW	82.5
022300	3332	7506	2	353	254	42	1468	1487	18.7	14.3	1006.3	849.0	RW	78.5
032800	3503	7222	101	117	188	64	1478	1522	18.1	13.9	1009.4	847.9	—	79.3
033500	3509	7203	314	301	188	65	1476	1527	18.3	13.3	1009.8	848.0	—	71.2
034900	3549	7302	331	323	175	73	1489	1484	18.8	13.4	1003.7	847.2	RW	75.2
035800	3621	7341	314	305	160	82	1538	1494	17.0	12.0	999.0	841.7	RW	77.5
041400	3718	7449	317	324	83	38	1537	1525	16.0	15.6	1003.5	841.9	—	78.1
043000	3636	7453	170	154	97	74	1625	1508	17.4	10.5	989.8	850.9	OVR BUOY	73.1
050510	3455	7550	244	250	288	39	1541	1536	17.9	12.9	1003.4	841.2	CLR	70.8
051400	3440	7622	245	252	295	34	1493	1509	19.0	11.6	1005.8	846.4	CLR	73.5
052000	3436	7643	240	246	299	29	1491	1519	18.2	11.4	1007.4	846.4	CITY BLW OVR BUOY	74.0
053100	3405	7719	195	201	286	24	2660	2784	10.3	8.0	1008.8	722.5	CLR	74.2
054800	2255	7746	198	201	264	18	6077	6405	-9.0	-26.8	1006.9	466.8	CLR	78.7
064800	2825	7924	199	201	288	13	6080	6433	-8.5	-19.3	1008.6	466.7	CLR	73.0
070100	2724	7947	193	193	220	7	5891	6012	-7.1	-10.5	1010.9	494.8	CLR	95.1