

HURRICANE DENNIS XCDX

Flight 2 I990827

DATA TYPE	SENSOR or OPTION
INE	2
Accelerometer	2
Temperature Probe	1
Altitude (for vertical wind)	RA159
Static Pressure	Fuselage
Dynamic Pressure	Fuselage
Dewpoint Probe	2

Notes:

There was one data/time gap:

210943Z - 210950

Several small spurious spikes in both the fuselage static pressure (PSF) and dynamic pressure (PQF1) data occurred during the following time frames:

1820Z - 1826Z
1829Z - 1831Z
1858Z - 1902Z
2126Z - 2129Z
2321Z - 2324Z
0023Z - 0027Z

These spikes were removed and patched over.

The vertical wind had erroneous values from 2130Z - 2137Z and from 0134Z - 0140Z due to flying over land (Bahamas).

Aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical wind speeds, respectively, derived from Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft static pressure	1017.5 mb	1009.5 mb
Corrected tower pressure	1019.5 mb	1009.7 mb

Flight Director: A. Barry Damiano, (813) 828-3310 ext. 3073

FLT ID: I990827	FM: TXKF	TO: KMDA/KMCF
FLT NO: 99-049	BLK IN: 0230Z/0344	ATA: 0222Z/0334Z
ETD: 1730Z	BLK OUT: 1730Z/0239Z	ATD: 1740Z/0244Z
ETE:	BLK TIME: 9:00/1:05	FLT TIME: 8:42/1:50
SPONSOR ORG: HED	PROGRAM: HURP SEARCH	PURPOSE: H. DENNIS XCDX

DAO PERSONNEL

AC: MCKIM	SYS ENG: LINO
CP: O'MARA	DATA SYS: LYNCH
NAV: RATHBUN	RADAR:
FE: WADE/MORE	BT/ODN: McNAMARA
RADIO: SANS SACT	CLD PHYS:
FD: DAMIANO	DOPPLER:

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
McFADDEN	??	ROC
FLOYD	MECH	ROC
BLACK, P.	PI	HED
BLACK, M.	PI HAPS	
GAMACHE, J.	RADAR	
DODGE, P.	RADAR	

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

Drop 2+3 in different locations due to military ops blocking out area

2031Z
 2555
 7559
 987ms
 FROM PROBAND

2204Z
 2600N
 7609W
 2340Z
 2606
 7607

0126Z
 2618
 7619

AF FIX
 2355Z
 2607 982
 7611
 AF FIX

STOPPED IN MDMT
 TO DROP OFF HED FOLKS
 + MCFADDEN

01562

29

U.S. DEPT. COMM./NOAA/ORA - DATA SECTION WORK FORM NO.2 OROWF2 FILE

FLT ID: I990827 TIME OFF: 17402/02442 TIME ON: 0222t / 03342

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1017.5	30.09	1009.5	29.83/29.90

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES	1	
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT	8	
AXCP		
GB 34	34	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

I 990827

TIME	LAT	LONG	TRK	HD	WD	WS	TA	TD	BA	GA	SP	PS			PO
175700	3206	6457	246	247	83	10	8.9	.9	3261	3493	1014.9	674.5	ARV	CLO	64.0
181600	3123	6659	245	245	97	10	.3	-11.9	4849	5152	1010.6	551.2	ARV	CLO	71.3
181853	3117	6713	246	245	104	11	.2	-11.5	4848	5153	1010.9	557.2	ARV	CLO	71.3
183200	3041	6803	203	203	98	9	.6	-13.9	4845	5146	1009.6	551.2	ARV	CLO	70.0
184700	2938	6838	203	203	79	8	.2	-15.2	4842	5137	1010.6	551.7	CUR		71.7
185900	2857	6914	254	254	83	11	.4	-18.6	4840	5132	1010.0	551.9	ARV	CLO	69.1
190459	2850	6945	270	271	101	15	-1.5	-23.1	4838	5125	1011.8	552.0	ARV	CLO	72.6
192000	2835	7104	257	256	117	15	-1.2	-13.8	4837	5119	1010.0	552.1	BTN	CLO	73.0
193354	2819	7217	257	254	128	21	-1.2	-4.2	4835	5114	1010.4	552.3	NO W	DEOP	73.8
193958	2812	7249	258	254	135	29	-1.5	-4.5	4835	5111	1010.8	552.3	NO W	DEOP	76.1
195728	2750	7420	244	237	132	43	-1.9	-3.1	4831	5085	1009.1	552.3	NO W	DEOP	69.9
200502	2727	7450	238	231	105	47	-1.7	-1.7	4866	5079	1004.1	553.6	NO W	DEOP	76.0
201243	2700	7515	220	212	120	45									
201258	2700	7516													
202415	2621	7550													
203045	2554	7559													
204848	2502	7657	224	234	303	41	6.5	1.0	4099	4268	998.8	608.5	NO W	DEOP	
205038	2456	7703	224	234	305	40	6.2	.5	4101	4274	999.3	608.3	NO W	DEOP	
210618	2409	7756	194	197	317	24	5.4	-1.9	4074	4279	1004.4	610.4	NO W	DEOP	68.3
212700	2332	7614	111	115	262	29	5.8	-4.7	4048	4252	1004.7	612.4	BTN	CLO	74.5
213005	2330	7601	5	358	269	27	6.2	-8.0	4050	4251	1005.1	612.1	BTN	CLO	62.7
214714	2445	7601	0	352	267	39	6.9	4.0	4066	4226	997.0	610.9	BAD	DEOP	57.0
215018	2458	7601	357	348	263	42	5.4	2.5	4100	4252	997.5	608.3	BT		73.4
220532	2607	7604	0	2	161	17	6.8	4.3	4184	4241	984.3	602.0	BT		75.7
220851	2622	7604													
220935	2626	7604													
222048	2715	7612	359	11	100	46	3.4	2.1	4117	4276	1002.0	607.0	BT		
222058	2715	7610													
223400	2812	7612	3	13	99	39	3.1	2.6	4063	4265	1008.5	611.0	BT		74.5
223902	2831	7615													
223914	2830	7617	244	240	100	43	3.9	-1.2	4044	4250	1008.6	612.9	NO W	DEOP	
224103	2826	7625	235	231	90	42	3.5	-1.9	4043	4249	1009.6	612.9	BT		74.1
230053	2748	7806													
230111	2749	7804													
231200	2712	7731	141	132	37	48	4.3	1.5	4055	4228	1003.6	612.0	BT		69.1
231654	2657	7714													
231705	2656	7713													
235311	2559	7641													
235334	2600	7641													
000532	2608	7657													
000555	2607	7656													
001125	2547	7601													
001500	2535	7557	36	149	231	56	5.1	4.5	4134	4250	995.0	605.7	BT		25.0
002447	2510	7516													
002629	2509	7402													
003852	2403	7410	23	25	192	36	5.3	-3.8	4071	4279	1005.7	610.9	BT		80.8
004800	2547	7353	20	244	180	43	5.0	-1.3	4040	4248	1006.7	613.2	BT		76.6
005350	2613	7318	292	284	180	46	4.6	-1.5	4035	4247	1007.2	613.2	BT		66.0
010720	2626	74													
010730	2626	7452													
012012	2619	7553													
014231	2612	7743	270	279	348	36	4.8	2.0	4108	4270	1000.8	607.7	BT		69.3
015300	2613	7833	270	279	359	40	5.1	-1.2	4109	4311	1004.3	607.7	BT		75.7
020022	2613	7909	270	279	359	35	4.2	-2.2	4108	4323	1007.9	607.8	BT		73.7

MISSION PREFLIGHT LOG

NOAA FORM 56-48 (2-95)		MISSION PREFLIGHT LOG				NAVIGATOR		AIRCRAFT COMMANDER		FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z		DATE OF TAKEOFF			
DESTINATION		MISSION															
TX KLF 4111A 270000		5 DENNIS				RATHBUN		MCKIM		DAMIANO		1730Z		1739Z			
WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
DDA	32 21.9						245	250				178	143	1822			
	64 41.4						250	270				2195	178				
	31 00.0											248	143				
	61 50.0											426	143	1900		1857	
	29 00.0						232	265				290	1406	2006	2006	1957	
	84 00.0											576	2112				
	27 50.0						225	255				298	1410				
	74 20.0											874	3122	2116	2105	2107	
	24 08.0						111	295				115	123				
	17 56.0						115	295				989	3145	2130	2130	2130	
	23 26.0						000	255				300	1410				
	17 59.76						000	255				1289	4155	2249	2240	2238	
	28 30.0						245	295				115	123				
	076 10											1404	518	2312	2302		
	2750						135	255				300	1410				
	7814						030	295				1704	6128	0000	0000		
	24 20.0											115	123				
	74 20.0											1819	6152	0046	0053		
	26 10.0						270	255				300	1410				
	74 42											2119	8102	0136			
	26 10.0						268	255				34	108	0204			
	79 13											2153	8110				
	25 51.1											36	110				
	79 37.9						270	220				2189	8120	0214			
	79 17.4												81				
	25 47.6																
	80 17.4																
	25 23.3																
	79 43.3																
DDA	25 48																
V4	80 20.9																
	26 25																
WINKO	80 55																
	26 49.7																
LABELLE	81 23.5																
	27 35																
LABELLE	82 16																
	27 51.7																
MCF	82 30.8																

INS PERFORMANCE	
BEGIN ALIGN TIME	INS 1
	15452 →
ALIGN STATUS (0-5)	INS 2
	0
END NAV TIME	INS 1
	03352 →
START NAV TIME	INS 2
	16302 →
DELTA T	INS 1
	11405 →

TERMINAL ERRORS	
DELTA LAT	INS 1
	-1.4
DELTA LON	INS 2
	+1.1
RGS	INS 1
	1
RADIAL ERROR	INS 2
	4.

REMARKS

FLIGHT TRACKS DENNIS/XCDX

990827i.ftk

RAWINSONDES 9809

- Regular
- 12Z only
- 00Z only
- Infrequent
- Infrequent - 00Z
- Infrequent - 12Z

▲ DROP LOCATIONS

75

