

HURRICANE FLOYD SURVEILLANCE

Flight 1 I990911

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

Notes:

There were several data/time gaps due to data system problems:

182214Z - 182830Z
184222Z - 184300Z
185311Z - 190010Z
195246Z - 195550Z
202020Z - 202130Z
204101Z - 211520Z
231019Z - 231030Z
231152Z - 231200Z

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

1927Z - 1931Z
1931Z - 1935Z
1937Z - 1941Z

These spikes were removed and patched over.

The vertical wind had erroneous values at 182840Z and 202140Z due to the aforementioned data gaps.

During the penetration of the storm center, dewpoint temperature values were greater than ambient temperature values.

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	1012.2 mb	1013.0 mb
Corrected tower pressure	1013.0 mb	1012.4 mb

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

FLT ID: I990911	FM: KMCF	TO: KMIA
FLT NO: 99-052	BLK IN: 0236Z	ATA: 0228Z
ETD: 1730Z	BLK OUT: 1729Z	RTD: 1739Z
ETE:	BLK TIME: 9:07	FLT TIME: 8:49
SPONSOR ORG: NHC	PROGRAM: HURR. SURV.	PURPOSE: H-FLOYD

DAO PERSONNEL

AC	McKIM	SYS ENG	
CP	KENUL	DATA SYS	McNAMARA
NAV	RATHBUN	RADAR	DELGADO
FE	MOORE/WADE	BT/ODW	CARPENTER
RADIO	SANS SOULT	CLD PHYS	
FD	DAMIANO	DOPPLER	

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
FLOYD	MECH	AOC
WILLOUGHBY	HAPS	NRD
LANDSEA	PI	
DORST	PMS	
LEIGHTON	HAPS	
TURKOWSKI	MEDIA	ORLANDO CH-6
HONEY	MEDIA	ORLANDO CH-6

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

Teal 42 @ 1730Z (NE QUAD Bumpy hail + lgt from AF)
10KPA

ANALOG DATA NOT UPDATING 1850Z

WARNING on Ch. 11

C.B. for Drop chute not set

Data Sys lock up 1822Z (1853Z)

Back up 182830Z (1858Z up)

USING CAVB 2041Z
205030Z

6 2239Z
22039Z
63046

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

FLT ID: I990911

TIME OFF: 1739Z

TIME ON: 0228Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1012.8	29.93	1013.0	29.91

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

4

FAST FLT LVL TAPES

RADAR TAPES

1

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

GPS

17

15 good; 2 bad

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

I990911

(4)

TIME	LAT	LONG	TRK	HD	WD	WS	TA	TD	PA	GA	SP	PS			PO
175100	2735	8147	109	112	247	9	-7.5	-2.3	3294	3444	1008.1	672.5	ABV	CLD	68.8
180100	2723	8100	101	104	242	12	-6	-10.5	4582	4802	1006.0	571.1	ADU	CLD	74.1
183100	2652	7826	103	106	232	7	-4.2	-19.7	5366	5667	1008.1	514.1	BTN	CLD	70.3
190100	2628	7852	87	89	236	8.0	-5.4	-16.0	5584	5890	1006.9	499.3	BTN	CLD	73.2
191900	2631	7415	89	90	272	5	-5.6	-12.3	5664	5984	1007.6	494.0	BTN	CLD	68.1
193000	2632	7317	89	90	330	3	-6.5	-14.7	5741	6059	1006.5	488.8	CLR		72.0
193343	2630	7257	113	113	18	3	-6.3	-14.7	5742	6058	1006.5	488.8	DEOP		73.1
200000	2526	7057	121	119	31	13	-7.4	-23.4	5834	6154	1008.5	482.7	ADU	CLD	75.0
200341	2517	7040	123	121	39	15	-6.9	-23.1	5830	6152	1006.3	482.9	DEOP		72.7
203200	2405	6835	121	118	35	22	-7.7	-18.8	5846	6215	1006.0	478.5	CLR		76.9
203519	2357	6820	121	118	31	23	-7.5	-16.0	5909	6223	1006.1	477.4	DEOP		76.6
210612	2232	6557											DEOP		
212700	2155	6407	106	107	292	47	-6.3	-9.3	6122	6351	984.6	464.2	IN	CLD	67.5
213051	2149	6345	104	107	275	51	-5.4	-10.7	6121	6347			BAD	DEOP	
213132	2148	6341	108	112	277	51	-5.3	-11.2	6122	6345	983.6	464.0	DEOP		69.7
215500	2103	6137	111	117	224	29	-8.2	-25.9	6119	6417	1000.1	464.2	BTN	CLD	68.7
220237	2100	6109	310	305	224	29	-8.4	-19.0	6119	6425	1001.0	464.2	DEOP		66.1
221300	2131	6152	308	303	202	31	-8.4	-26.4	6119	6410	999.9	464.1	BTN	CLD	72.3
222207	2200	6230	310	303	215	46	-7.0	-16.5	6119	6378	991.8	464.1	DEOP		76.3
223136	2226	6310	290	286	205	58	-4.7	-8.6	6121	6286	973.7	464.3	DEOP		73.2
224555	2310	6857	349	2	64	67	-3.0	-7.1	6116	6273	971.1	464.2	DEOP		68.8
230253	2431	6419	305	313	71	55	-8.2	-9.2	6152	6443	997.9	462.0	DEOP		74.6
233309	2604	6641	305	311	64	31	-11.6	-26.2	6534	6844	1006.0	438.2	DEOP		74.5
235700	2716	6835	304	309	48	22	-15.4	-29.7	6971	7388	1011.4	411.7			68.8
000337	2735	6906	305	309	51	16	-16.0	-30.9	7053	7478	1011.9	407.5	DEOP		72.3
003330	2859	7132	250	252	314	8	-15.7	-22.6	7052	7481	1010.7	407.6	DEOP		71.8
004900	2841	7258	254	255	57	1	-16.9	-28.6	7356	7805	1008.2	390.4			70.7
005824	2827	7350	254	255	348	4	-16.7	-23.1	7368	7817	1007.2	389.8	DEOP		
011640	2803	7533	256	256	99	3	-17.2	-31.8	7368	7819	1010.1	389.8	DEOP		72.1
012400	2753	7614	256	256	106	5	-17.4	-30.8	7366	7822	1010.2	389.8			72.4
013210	2742	7700	251	252	235	4	-17.2	-31.9	7366	7817	1009.9	389.8	DEOP		73.2

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: FLOYD/SYNOPTIC

Prepared by the Hurricane Research Division at 05:35:27 PM on 09/10/99.
File: 990911i.ftk

Aircraft: N43RF Altitude: FL180-250 Proposed takeoff: 11/1730Z

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Revised

DROP LOCATIONS

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#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	26 30	73 00		1:57
2	25 10	70 40		2:28
3	23 50	68 20		2:59
4	22 30	66 00		3:30
5	21 45	63 45		3:58
6	21 00	61 30		4:25
7	22 00	62 30		4:42
8S	23 00	63 30	0/000	4:59
9	24 30	64 18		5:20
10	26 00	66 42		5:53
11	27 30	69 06		6:25
12	29 00	71 30		6:58
13	28 12	73 42		7:24
14	27 24	75 54		7:50
15	26 36	78 06		8:16

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Revised 043

