

19990916H1-FDIR

Hurricane 1999
Hurricane Floyd - Landfall

Flight #10: 990916H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	2
Dew Point Probe	1
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2991.CON

Notes:

The radar altimeter (RA159) had a spike at takeoff and was replaced by RA232 from 0312:01-0319:07. A spike also occurred at landing and RA159 was replaced by RA232 (1125:26-1137:00).

Dewpoint (DW1) exceeded ambient temperature (AT2) several times due to heavy precipitation.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1006.8	1009.1
Corrected tower pressure	1007.8	1009.1

The 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 speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.
It is recommended that these values be used for vertical wind analysis.

Flight Meteorologist: Stan Czyzyk, (813) 828-3310 ext. 3086

990915H

Time	Lat	Lon	TK	HD	TD	TO	WD	WS	PA	GA	PS	SP	REMARKS
04137													15PA
0420	3136	8008	53	37	10.0	10.2	343	76.5	2463	2407	750.1	996.4	RESERVE
044109	3231	7907	49	39	14.8	13.0	317	48.3	2536	2413	743.4	980.8	CUEL 8K
045328	3307	7904	71	58	13.9	13.0	353	57.5	2576	2414	739.0	976.3	DROP #1
050230	3317	7825											BT1 No 600
0505	3326	7810											BT2 + DROP #2
0514	3352	7739	42	67	13.8	14.6	146	97.1	2648	2422	733.1	969.7	5 DROP #3
0514													
0514													
0514													DROP #4
052210	3414	7715	44	62	14.6	13.8	151	76.0	2566	2466	741.7	980.6	BT3
052331	3439	7656	227	211	14.3	12.6	144	73.1	2535	2459	743.5	985.7	BT 4
053952	3425	7720	235	218	14.1	14.3	145	73.7	2538	2415	743.3	980.6	DROP #5
054546	3410	7738	210	192	14.3	14.8	133	85.2	2518	2316	744.9	972.1	DROP #6
055244	3350	7752	244	237	16.6	16.6	16.3						DROP #7
055													DROP #8
0556	3342	7806											6
060619	3353	7815	253	228									
061117	3343	7841	230	240	14.3	13.4	13	60.1					DROP #9
061210	3340	7845											DROP #10
061443	3332	7856											DETECT NO LAUNCH DROP #11
0630	3351	7759											DROP #12
063806	3329	7735											DROP #13
064050	3320	7727											DROP #14
064446	3318	7707	100	122	18.0	10.1	225	97.3				967.9	BT 5 1
065230	3317	7632	4	356	13.9	13.2	205	94.3	2604	2452	737.2	980.9	DROP #15
070042	3402	7631	0	0	13.7	13.5	183	88.4	2557	2438	741.4	981.5	BT 6 NO 600
071007	3437	7633	260	243	14.3	13.6	161	73.9	2521	2416	744.9	987.2	DROP #17
072214	3426	7729	230	207	13.5	13.7	143	94.6					DROP #18
072235	3424	7732	220	202	14.1	13.9	139	75.0					DROP #19
0729	3411	7748											
073955	3326	7729											NO WIND
075129	3315	7633											DROP #20
081445	3316	7333	1	351	13.8	13.1	216	82.7	2525	2422	744.5	983.7	DROP #21
080842	3437	7631	269	250	14.2	12.5	172	87.2	2665	2421	740.9	979.1	BT 8
081909	3429	7719	252	238	17.2	12.1	155	55.4					DROP #22
082711	3426	7727	240	233	16.6	16.4	166	32.3					DROP #23
0823	3420	7737											DROP #24
083722	3327	7732	105	115	14.5	12.5	248	68.2	2598	2468	737.8	979.0	5 DROP #25
084851	3317	7633	354	344	13.5	13.2	227	76.3	2516	2424	745.4	985.2	BT 9
090447	3437	7639	258	236	14.9	12.7	183	98.0	2588	2365	741.3	973.2	DROP #26
090903	3435	7658	269	249	15.1	11.9	176	82.3	2675	2418	730.5	982.9	DROP #27
091200	3436	7712											DROP #28
0916	3427	7728											
092213	3411	7745	221	232	16.5	9.7	294	69.7	2746	2547	724.0	968.0	5 DROP #29
092750	3406	7749	211	227	15.6	10.1	295	65.1	2749	2572	723.9	970.4	DROP #30
0940	3441	7726											
0950	3230	7907											6 BODY + CLIMB

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO. 1 OAO WF1 FILE

FLT ID: 990915H	FM: KTAQ	TO: KACF
FLT NO: 99-023	BLK IN: 1143Z	ATA: 1133Z
ETD: 0300Z	DLK OUT: 0310Z	RTD: 0317Z
ETE: 1200Z	DLK TIME: 8:33 8.6	FLT TIME: 8.16 8.3
SPONSOR ORG: NOAA	PROGRAM: HRO. WINDS @ LANDFAL	PURPOSE: HURR FLOYD

OAO PERSONNEL

AC TAGGART, D	SYS ENG PRADASI, C
CP TENNESEN, D / OMARA T ✓	DATA SYS McMILLAN, S ✓
NAV NEWMAN, C ✓	RADAR
FE BOST. 6 ✓ / TORREY, R ✓	BT/ODW ROLES, J ✓
RADIO ROGERS, M ✓	CLD PHYS
FD CZYZYK, S ✓	DOPPLER YOUNG, D ✓

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
HOUSTON, S ✓	P.I.	AND
LEIGHTON, P ✓	SCIENTIST	"
DODGE, P ✓	"	"
CROXFORD, M ✓	"	U OF HAWAII
CARSWELL, J ✓	CSCAT/KUSCAT	UMASS
CAPELLA, C ✓	MEDIA	USOTODD

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

7 PENETRATIONS

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO. 2 OAOWF2

FLT ID: 990915H

TIME OFF: 0317Z

TIME ON: 1137Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1006.8	29.76	1009.1	29.80

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		1
AXBT	9	
AXCP		
ODW		
GPS	30	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

MISSION PREFLIGHT LOG						NAVIGATOR	AIRCRAFT COMMANDER		FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z		DATE OF TAKEOFF					
DESTINATION		MISSION				DR +R=>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMA
KMYE		LANDFALL FLYING																
WP	LAT / LON	RTE	MH	VAR +E=>	TH													
φ																		
LP	32 12 N 079 30 W																	
CRE	33 49 N 079 41 W																	
CAPE BEAR	33 51 N 77 57 W																	
HAND BEAR	33 55 N 78 15 W																	
TOP SAIL	34 26 N 77 33 W																	
MR HD	34 43 N 76 35 W																	
MYRTLE BEAR	33 40 N 78 55 W																	
4100 4	32 30 N 79 06 W																	
FLYING CRAN	33 29 N 77 35 W																	
CAPE LOOKEE	34 37 N 76 32 W																	
WILKINSON	34 10 N 77 48 W																	
END OF STORM	33 40 N 078 2 W																	
0515	33 26 N 78 10 W																	
0615	33 59 N 77 58 W																	