

19991014II-FPIA

Hurricane Irene Cuba Recco
N43RF

I991014

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:

Patched bad values of APN-159 radar altimeter before take-off and after landing.

Renavigated this flight's INE1 positions using 13 valid GPS positions.

This Recco flight included five center fixes through a disorganized center as Irene was making its way off the north coast of Cuba. Extrapolated surface pressure, D-value, and downward radiometer values at each of the fix positions should be closely scrutinized in case the fix was slightly over land.

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	1010.8 mb	1010.0 mb
Corrected tower pressure	1012.5 mb	1012.0 mb

Flight Director: Jack Parrish, (813) 828-3310 ext. 3077

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

FLT ID: 991014E	FM: MCF	TO: MCF
FLT NO: 00100	BLK IN: 0354	ATA: 0345
ETD: 19Z	DLK OUT: 1843	RTD: 1856
ETE: 9	DLK TIME: 9:11(9.2)	FLT TIME: 8:49(8.8)
SPONSOR ORG: DHC	PROGRAM: RECCO	PURPOSE: 4.1 REWE

OAO PERSONNEL

AC: <i>Tennison</i>	SYS ENG: <i>McMillan</i> ✓
CP: <i>Kennel</i>	DATA SYS: <i>Delgado</i> ✓
NAV: <i>Newman</i> ✓	RADAR:
FE: <i>Bust</i>	BT/ODW:
RADIO: <i>Sans. Dues</i> ✓	CLD PHYS:
FD: <i>Parrish</i> ✓	DOPPLER: <i>Floyd</i>

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<i>Cron</i> ✓	<i>RF</i>	<i>HRP</i>
<i>Dodge</i> ✓	<i>RF</i>	
<i>Black</i> ✓	<i>Relat</i>	
<i>Walsh</i> ✓	<i>Rel. Alt</i>	
<i>PAO KAN</i> ✓	<i>Visitor</i>	<i>WFLA ADD</i>
<i>Jeff Peterson</i> ✓		<i>WFLA TV</i>
<i>Craig Davis</i> ✓		<i>Ray Dues 9</i>

PROPOSED/ACTUAL	MISSION	REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)	
29/21	21Z, 00Z, 02Z	Fixes 0513A 1REWE	0155
29-90	5 FIX 2054Z	23 020, 82 35W 988mb	25/22
080/14	5 FIX 2210Z	23 09N, 82 42W 988mb	050/19
133	5 FIX 2338Z	23 07N, 82 45W 989 mb	29-21
1017.3	5 FIX 0107Z	23 01N, 82 39W 988 mb	1012
1010.7	5 FIX 0220Z	23 04N, 82 31W - overland	SP1009-3 Fm 24
3810.6			SP 10 10.2
5410.8			Fm 11K
5410.4			90/8
			1010

Five Eye Penetrations

991014 I H. IREWE BECCO

Time	LAT	LONG	TR	WD	WS	PA	GA	TA	TD	SP	PS	ED	
1843	BLOCK		OUT										
18545	2750	8221.2	185	82	23.4	1295	1333	16.4	14.6	1010.7	845		↑
19346	2809	8311	175	84	16.1	3978	4156	3.8	1.0	1000.7	618		
19550	2440	8247	138	88	23	3788	4137	3.6	2.0	1003.7	617.4		Drop 16 Sand
20005	2422	8232	134	104	18.7	3987	4128	4.0	1.4	1001	617.4		Drop 12
200709	2402	8214	112	122	19.4	3987	4121	3.9	3.8	1000.4	617		Drop 3 Sand
201150	2347	8202	141										BT
201552	2335	8152	141	160	39	3976	4096	5.6	2.3	996	618		Drop Sand
2054	2302	8235				1555		22	17	988			
212715	2350	8407	186	52	37	1506	1505	17.0	15.8	1004	845		
214545	2244	8412	73	18	31	1499	1485	17.8	14.9	1002.5	845		WD of center
215030	2251	8354	65	20	30	1497	1474	17.7	13.5	1001.8	845.6		
2210	2309	8242								787			
221415	2313	8226	71	162	50	1498	1413	18.1	17.5	995	846		E of center
222630	2321	8139	92	150	41	1554	1522	16.7	17.0	1001	838		Drop
223903	2321	8052	90	163	56	1559	1554	17.1	15.7	1003.7	839		Drop
230445	2339	8105											
232211	2335	8205	231	115	50	1552	1521	17.3	16.8	1002.7	842		130
2332	2328	8239	Drop										
2338	2307	8245											
234445	2325	8248	357	96	36	1601	1546	18.1	17.4	989			
2353	2356	8254								996	835		Drop sand
000645	2447	8253	359	80	44	1517	1532	17.0	15.0	1006	843.7		Drop
004315	2357	8339	120	50	36.6	1483	1486	17.7	15.9	1004.5	847.7		
0107	2301	8239								988			
0123	2338	8142	68	163	32	1553	1516	17.8	16.8	1001	842		
013520	2405	8110	48	122	49	1524	1512	17.1	17.0	1005	845		Drop NE of center
0157	2341	8146	271	128	48	1545	1552	17.4	16.6	1003.3	847		
0201	2342	8128		148	47								Drop
0220	2304	8231								991			Drop
0242	2344.7	8404.8	298	16	27	3683	3820	7.4	1.8	1001	642		Drop land
02480	2357	8418	21	28	31	3687	3832	6.7	4.3	1002.8	642		Drop PS
025250	2427	8406	20	34	30	3685	3832	6.5	2.4	1003	642		BT 12
025810	2449	8357	20	38	26	3682	3834	6.1	3.6	1004	642		BT 12
030453	2516.6	8344.8	25	50	34	3664	3821	6.3	1.4	1005	643.4		BT 16
032915	2708	8255	12	72	24	3390	3549	6.7	2.3	1009.5	669		WD LAND
0554	2751.1	8229.8				15		24.4	20.6		1011.5		BLK