

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOCWE-1

Flt ID: 030915N	From: TISX	To: KMCF
Flt No.: 03-084	Blk In: 0136	ATA: 0127
ETD: 1730Z	Blk Out: 1716	ATD: 1726
ETE: 8.0	Blk Time: 8.20 (8.3)	Flt Time: 8:01 (8.0)
Sponsor Org: NITC	Program: Surveillance	Purpose: H. Isabel

AOC Personnel

AC: Finkel	Sys Eng: Hornbrook ✓
CP: Poston / Finn ✓	Data Sys: Brogan ✓
Nav:	Radar:
FE: Kitson	GPS/BT: Carpenter ✓
Avionics:	Cld Phys:
FD: Parrish ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
Dunham, J. ✓	NAB's	NAB
Uhorn, E. ✓	Visitor	↓
Michaelson, C. ✓	Press	Ch. 10, CBS
Wallace, M. ✓	↓	↓

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

MN NOAA 1313A ISABEL (H.D.)
 1653Z Cut pts 647 from the pattern. Added Jason sondes between 14-17.
 17010 2355Z 26 Obs sent out. 3 additional for Jason
 32/25 28/22 PT #11 could be processed.
 29.93 29.94
 30.8/25.1. -6 29 dropped ~~ten~~
 330/5
 1010.1 357/4 26 good (2 no launch detect, one segmentation fault).
 150/6 1014.4
 29/22

030915Z

H. ISABEL Surveillance #3

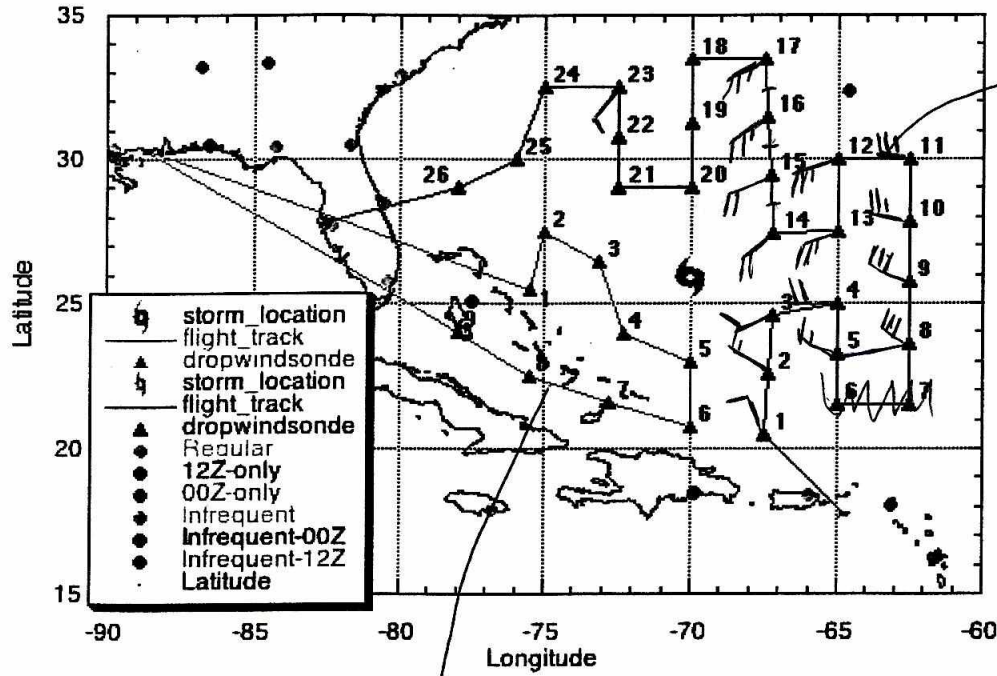
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Form 413-50

Time	CAV	LOD	TK	WD	WS	GA	PA	TA	TD	PS	Dog		
1716	174198	6447.9					7.6	33.5	24.7	1011.6			Shore Out
173015	1749	6443	315	186	5.7	3064	2890	10	3.9	695			↑
1744	1854	6551	316	0	5.1	9024	8585	-26.7	-41.1	321			↑
180234	2033	6729	350	340	12	13131	12487	-56.7	-57.3	1754	1		
181431	2231	6720	3	317	14	13142	12484	-57.5	-56.0	175.6	2		
183709	2437	6700	~	240	12	13159	12483	-55.5	-57.7	175.8	3		
185153	2448	6459	~	270	22.5	13136	12486	-57.2	-57.0	176.1	4		
190502	2317	6446	~	311	15	13131	12493	-58.1	-57.1	176.3	5		
192234	2347	6230	~	316	29.5	13416	12770	-58.5	-58.6	167.8	6 (8)		Dropped Pts 6 & 7 to shorten track.
193456	2545	6236	0.3	297	31.8	13419	12772	-58.4	-58.1	167.8	7 (9)		
195819	2751	6229.9	359.8	299	26	13426	12776	-59.6	-58.3	167.7	8 (10)		
201717	2959	6239	~	288	28	13424	12775	-58.6	-60.2	167.8	9 (11)		SEGMENTATION FAULT
203641	2951	6459	~								10 (12)		NO LAUNCH DETECT
203720	2945	6500	180	244	25.8	13441	12775	-59.2	-57.9	167.8	11 (12)		Backup
205756	2729	6511	~	250	27	13440	12773	-58.4	-57.2	167.9	12 (13)		
211438	2733	6713	~	240	21	13755	13062	-57.9	-58.6	159.8	13 (14)		
212131	2824	6715	358	257	19	13766	13079	-58.6	-57.6	159.6	14		Jason #1 - Late launch detect
212934	2926	6718	357	252	18.8	13769	13082	-60.4	-60.7	159.6	15 (15)		
213739	3028	6721	358	263	21	13999	13350	-62.7	-62.7	152	16		Jason #2
214555	3129	6724	357	246	24	14036	13364	-63.5	-64.9	151.9	17 (16)		
215413	3230	6727	357	268	26	14019	13362	-64.5	-65.9	152	18		Jason 3
220312	3329	6741	~	247	25	14011	13361	-64.1	-66.6	152	19 (17)		
222143	3318	7000	180	240	12.4	14003	13352	-63.1	-68	152	20 (18)		
223927	3115	7000	180	230	11	14312	13631	-64.1	-70.1	145	21 (19)		
225931	2900	7008	~	239	15	14325	13632	-63.1	-68.7	145.2	22 (20)		NO VERIFICATION, NO WINDS
230215	2906	7030	270	235	16	14331	13631	-63.2	-68.9	145	23 (20)		
231758	2908	7229	~	263	24	14316	13634	-62.5	-70.4	145.2	24 (21)		
233108	3045	7230	1	242	17.8	14305	13636	-63.5	-71.3	145.3	25 (22)		
234549	3230	7241	~	218	14	14272	13629	-63.4	-71.5	145.3	26 (23)		
000250	3225	7500	222	185	7.7	14273	13634	-62.8	-70.7	145.2	27 (24)		
002510	3000	7601	228	241	14	14285	13622	-63.6	-70.7	145.7	28 (25)		
004510	2854	7822	255	254	18	14300	13647	-62.6	-66.7	145.9	29 (26)		LATE LAUNCH, TUBE STUCK
005530	2836	7937	254	247	23	13555	12806	-59	-66	170.3			↓ to land
011245	2803	8148	253	16	5	5131	4874	-0.2	-28	547			
0136	2751	8229.6					-14	27.9	19.4	104.2			SLK

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030915 ISABEL



NOAA G-IV
Surveillance Track

Air Force WC-130 Track

1436
25 30
69 59
949
120

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: ISABEL/SYNOPTIC

NOAA/Hurricane Research Division Sunday, September 14, 2003 9:29:47 AM
Aircraft: N49RF Proposed takeoff: 15/1730Z

TRACK DISTANCES

NOAA G-IV Turn Points

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	ST CROIX			0.	0.	0:00
1	20 30	67 30		230.	230.	0:31
2	24 35	67 13	180/120	245.	476.	1:04
3	25 00	65 00		129.	605.	1:22
4	21 30	65 00		210.	815.	1:51
5	21 30	62 30		145.	960.	2:10
6	30 00	62 30		510.	1470.	3:20
7	30 00	65 00		140.	1609.	3:39
8	27 30	65 00		150.	1759.	3:59
9	27 25	67 13	180/60	125.	1884.	4:16
10	33 30	67 30		365.	2249.	5:06
11	33 30	70 00		137.	2386.	5:25
12	28 00	70 00	180/ 0	270.	2656.	6:02
13	29 00	72 30		140.	2796.	6:21
14	32 30	72 30		210.	3006.	6:49
15	32 30	75 00		138.	3144.	7:08
16	30 00	76 00		160.	3304.	7:30
17	29 00	78 00		127.	3431.	7:47
18	MACDILL			264.	3695.	8:23

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: ISABEL/SYNOPTIC

NOAA/Hurricane Research Division Sunday, September 14, 2003 9:29:47 AM
Aircraft: N49RF Proposed takeoff: 15/1730Z

DROP LOCATIONS

NOAA G-IV Instrument Drop Locations

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	20 30	67 30		0:31
2	22 32	67 21		0:48
3	24 34	67 13		1:04
4	25 00	65 00		1:22
5	23 15	65 00		1:36
6	21 30	65 00		1:51
7	21 30	62 30		2:10
8	23 37	62 30		2:28
9	25 45	62 30		2:45
10	27 52	62 30		3:03
11	30 00	62 30		3:20
12	30 00	65 00		3:39
13	27 30	65 00		3:59
14	27 25	67 12		4:16
15	^{28 25} 29 26	67 18	67 15	4:33
16	^{30 27} 31 28	67 24	67 21	4:50
17	^{32 29} 33 30	67 30	67 27	5:06
18	33 30	70 00		5:25
19	31 15	70 00		5:43
20	²⁹ 28 00	70 00		6:02
21	29 00	72 30		6:21
22	30 45	72 30		6:35
23	32 30	72 30		6:49
24	32 30	75 00		7:08
25	30 00	76 00		7:30
26	29 00	78 00		7:47

(60) 28 25 67 15
(61) 30 27 67 21
(62) 32 29 67 27

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane OS

Flight ID 030915N

Mission: Isabel

Flight #: 3

System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	OOD ☒
1	023 535 239	1	1802	0	41	DWC	OK	✓
2	024 125 316	1	1819	0	55			✓
3	023 555 204	2	1837	0	20			✓
4	023 535 421	1	1851	0	18			✓
5	023 535 186	2	1905	0	62			✓
6	022 625 180	1	1922	0	23			✓
7	023 535 354	1	1940	0	12			✓
8	023 535 196	1	1958	0	14			✓
9	022 625 178	1	2017	0	16			✓
10	023 535 357	1	2036	0			No launch detect	
11	023 555 201	2	2037	0	21		Backup to drop #10	✓
12	024 125 315	1	2057	0	62		OK	✓
13	023 618 021	2	2114	0	11		OK	✓
14	023 535 189	1	2121	0	30		Late launch detect	✓
15	023 535 350	3	2129	0	21		OK	✓
16	023 535 209	2	2137	0	29			✓
17	023 535 210	1	2145	0	52			✓
18	023 535 190	3	2154	0	60			✓
19	023 555 197	2	2203	0	30			✓
20	023 535 388	1	2221	0	23			✓
21	023 535 241	1	2239	0	60			✓
22	023 535 242	1	2259	0			Fast fall - No winds	
23	023 535 358	2	2302	0	60		Backup for drop #21	✓
24	023 535 356	1	2317	0	14		OK	✓
25	023 535 255	2	2331	0	32			✓
26	024 125 131	1	2345	0	23			✓
27	023 535 246	2	0002	0	22			✓
28	023 555 050	1	0025	0	23			✓
29	023 535 391	2	0045	0	42			✓
30								
31								
32								
33								