

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

Flt ID: 040908 N	From: KMCF	To: KMCF
Flt. No: 04-102	Blk In: 0122 Z	Time On: 0112 ³¹ Z
ETD: 1730 Z	Blk Out: 1720 Z	Time Off: 1729 Z
ETE: 8+00	Blk Time: 7+58 (80) Hrs	Flt Time: 7+43 (77) Hrs
Sponsoring Org: National Hurricane Center	Program: Surveillance	Purpose: IVan

AOC Flight Crew

Aircraft Commander: Finke, M	Data System: Goldstein, A
Co-Pilot: Hagen, J; Poston, R	AVAPS: Rolles, J ✓
Navigator: /	System Eng: /
Flight Eng: /	A A: /
Flight Director: Mayeaux, M; Parish, J	A A: /
Avionics: Carpenter, D ✓	Crew Chief: /

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Dunbar, J	Haps	HRO
Odell, W	Obs	Aoc

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: Tropical 1800Z-0000Z 10,000ft

Mission ID: 1316 06743 285/15kt

Penetration number and time

NOAA 90909A IVAN

Venezuela - Tops above our flight level.

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Flight ID: 040908N		Time Off: 1729 Z		Time On: 0112 Z	
A/C - Takeoff		Wx Station - Takeoff		A/C - Land	
A/C - Land		Wx Station - Land			
Pressure	1014.1 mb	2995 (1014.2) mb	1012.5 mb	(1012.5) 2990 mb	
ATIS	Time	Observation			
Takeoff	NA Z	A2996 1500ZKT			
Land	2055Z	16011KT 75m Fw1030 Sct100 Bkn250 29kt4 A2991			
	Number	Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes		18 Good: 7 Bad: 1			
AXBT					
AXCP					
AXCTD					

Remarks:

0 Tilt 1.75°

Something happened at 2116Z Shows up in A1132 (AT1,2,4) (R0112), BPS,

DBPI went Bad at 2150Z w/ change of altitude

Both TDS balanced from 1820Z - 1831Z. Both TDS showed spikes when changing altitude @ 2021 and 2300Z. Big spike due to something at 2116Z

DPRC out to lunch. Use DPRC

0047, huge spike in SSR01

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane 04 Flight ID 040908N

Mission: IVAN Flight #: 16 Launcher S/N: 02 Status: Sys 1 ☒ Sys 2 ☐

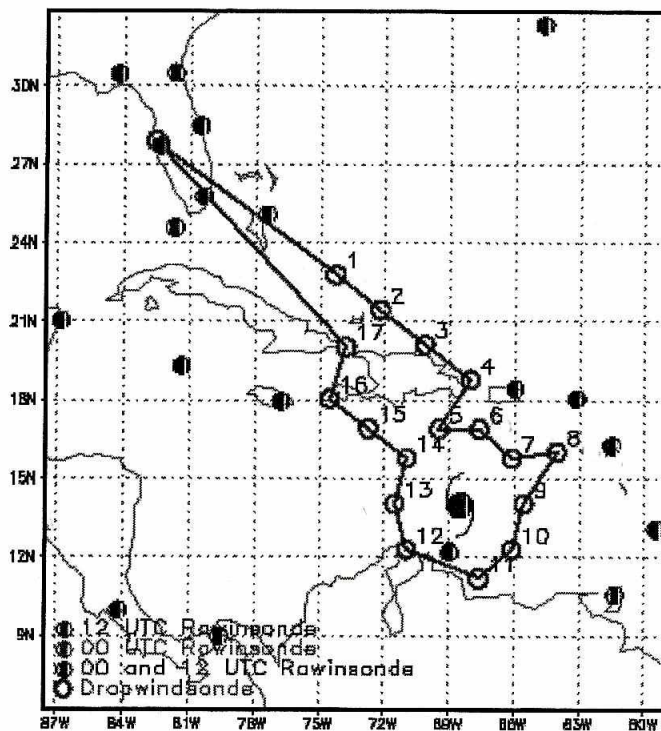
Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	033048061	1	1844	0.0	22	Jrdes	405.7	☒
2	03348052	2	1904	.6	21	Jrdes	400.7	☒
3	033415087	1	1926	0.0	29	Jrdes	405.7	☒
4	033415320	2	1945	.5	34	Jrdes	400.7	☒
5	033415093	1	2002	-.9	25	Jrdes	405.7	☒
6	033415391	1	2027	0.0	28	Jrdes	405.7	☒
7	033415089	2	2043	0.0	25	Jrdes	400.7	☒
8	033415095	1	2100	-2.8	115	Jrdes	405.7 Node winds East Fall	☒
9	033415099	2	2101	-4.2	79	Jrdes	402.7 late winds	☒
10	033845019	1	2110	-1.1	41	Jrdes		☒
11	033048062	1	2139	-1.0	12	Jrdes		☒
12	033415096	2	2154	-.8	31	Jrdes		☒
13	033845022	1	2209	-.8	25	Jrdes		☒
14	033845075	2	2229	?	19	Jrdes		☒
15	033845029	1	2237	0.0	31	Jrdes		☒
16	033845028	2	2256	-1.5	22	Jrdes	405.7	☒
17	033845077	1	2319	-1.4	24	Jrdes		☒
18	033845024	1	2347	-1.2	45	Jrdes	402.7	☒
19	033845058	2	0003	0.0		Jrdes		☒
20	033048089	1	0025	.3	58	Jrdes	403.7 Intermittent winds	☒
21	033845013	2	0028	-1.4	28	Jrdes	402.7	☒
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N49RF AVAPS DropSonde Log

N49RF Project: Hurricane 104 Flight ID 640908n

Mission: Tran Flight #: 15 Launcher S/N: 02 Status: Sys 1 OK Sys 2 OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	033 048 068	1	1847	.6	19	DWC	OK	✓
2	033 048 059	1	1908	0	24			✓
3	033 048 072	1	1929	-2.1	17			✓
4	033 048 058	1	1949	-1.5	48			✓
5	032 815 028	1	2008	0	18			✓
6	033 415 090	2	2020	0	55			✓
7	032 815 147	1	2040	0	19			✓
8	032 815 069	2	2055	0	60			✓
9	032 335 155	1	2114	0	180		Very late winds	✓
10	004 255 308	2	2116	0	18		B/O for drop #9	✓
11	004 255 180	1	2133	.6	33		OK	✓
12	033 415 245	2	2148	0	79		Late winds	✓
13	033 048 073	1	2217	.7	21		OK	✓
14	033 048 109	2	2232	.5	24			✓
15	033 415 066	1	2247	0	24			✓
16	033 415 234	2	2302	0	17			✓
17	033 048 030	1	2318	0	23			✓
18	033 048 016	2	2335	0	35		Intermittent winds	✓
19	033 048 016							
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GRADE COL/16ES

2004-08-07-11:10

AC

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: FRANCES

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 08/1730Z

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DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	22 45	74 15		1:24
2	21 25	72 10		1:43
3	20 05	70 05		2:02
4	18 45	68 00		2:22
5	16 51	69 26		2:41
6	16 51	67 34		2:55
7	15 46	66 04		3:10
8	16 00	64 00		3:26
9	14 00	65 30		3:46
10	12 14	66 04		4:01
11	11 09	67 34		4:16
12	12 14	70 56		4:45
13	14 00	71 30		5:00
14	15 46	70 56		5:15
15	16 53	72 43		5:32
16	18 00	74 30		5:48
17	20 00	73 45		6:05

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: FRANCES

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Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 08/1730Z

TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	22 45	74 15		544.	544.	1:24
2	18 45	68 00		426.	969.	2:22
3	16 51	69 26		140.	1110.	2:41
4	16 51	67 34		107.	1216.	2:55
5	15 46	66 04		109.	1325.	3:10
6	16 00	64 00		121.	1445.	3:26
7	14 00	65 30		148.	1594.	3:46
8	12 14	66 04		111.	1705.	4:01
9	11 09	67 34		110.	1815.	4:16
10	12 14	70 56		208.	2023.	4:45
11	14 00	71 30		111.	2134.	5:00
12	15 46	70 56		111.	2245.	5:15
13	18 00	74 30		246.	2491.	5:48
14	20 00	73 45		128.	2618.	6:05
15	MACDILL			674.	3292.	7:47
