

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

Fit ID: 040909N	From: kmcf	To: kmcf
Fit. No: 04-103	Blk In: 0147 z	Time On: 0137 z
ETD: 1730 z	Blk Out: 1718 z	Time Off: 1729 z
ETE: 8+15	Blk Time: 8+29 (8.5) Hrs	Fit Time: 8+08 (8.1) Hrs
Sponsoring Org: NHC	Program: Surveillance	Purpose: Ivan

AOC Flight Crew

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

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
✓ Odell, W	AOC/OBS	AOC
✓ Dunion, J	HRD/HAPS	HRD
✓ Jim Wilson	OBS	NYT Photographer
✓ Jeff Hawkins	OBS	WRL
✓ Larry Lohue	OBS	Valutin County Em Photographer

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

Storm Name: NOAA 1209A IVAN Recco Times Fix # Fix Time

Mission ID: Teal63 1730-0000Z 10000ft 20122 1453 7213

Penetration number and time: NOAA43 8000 ft Recover Jacksonville 921ms

Teal63-1453-7213 @ 110 KB 921ms

TTZ SPIKES-1843Z - went out on descent last flight 040908N

1844Z 1446 7159
 NOAA43 921ms 250/144Z

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Flight ID: 040909N Time Off: 1729 Z Time On: 0137 Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	<u>1017.2</u> mb	<u>3004 (1017.3)</u> mb	<u>1016.8</u> mb	<u>3002 (1016.6)</u> mb

ATIS	Time	Observation
Takeoff	<u>1555Z</u>	<u>170031KT 7sm Sct030 Sct100 ^{BKN150 BKN250} 27/25 A3004</u>
Land	<u>0055Z</u>	<u>080111KT 7sm TS -RA Sct010 CB over080 24/22</u>

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Drosondes	<u>21</u>	Good: <u>19</u> Bad: <u>2</u>
AXBT		
AXCP		
AXCTD		

Remarks:

DP spikes from Balancing at 1834 + 1839Z DPL acting erratic until 1909Z.
 DP spikes 2047Z 2032Z on both OPS → Due to water kicking in after precip
 DBPI #2 split at 2155Z → Clogged port, Heater ~~issue~~ issue
 FT2 out until - 1731Z and erratic until 1911Z

NOAA G-IV N49RF Hurricane Ivan Mission 2 Surveillance Flight

Flight ID: N040909

<u>Sensor or System</u>	<u>Number or Name</u>
INE (for wind derivation)	VEW VNS
Attack Angle	AKRD2
Slip Angle	SSRD2
Accelerometer	ACINS
Temperature Probe	AT3
Dew Point Probe	DPRC
Altitude (for vertical wind derivation)	PALT
Static Pressure	PS2C
Dynamic Pressure	QC2C
True Air Speed	TAS2
Constants File	49cal041
Project Directory	406

Notes:

There were no time/data glitches during this flight.

Total Temperature 2 was inoperative from the beginning of the flight through 1731Z. Data from this sensor was erratic through 1911Z.

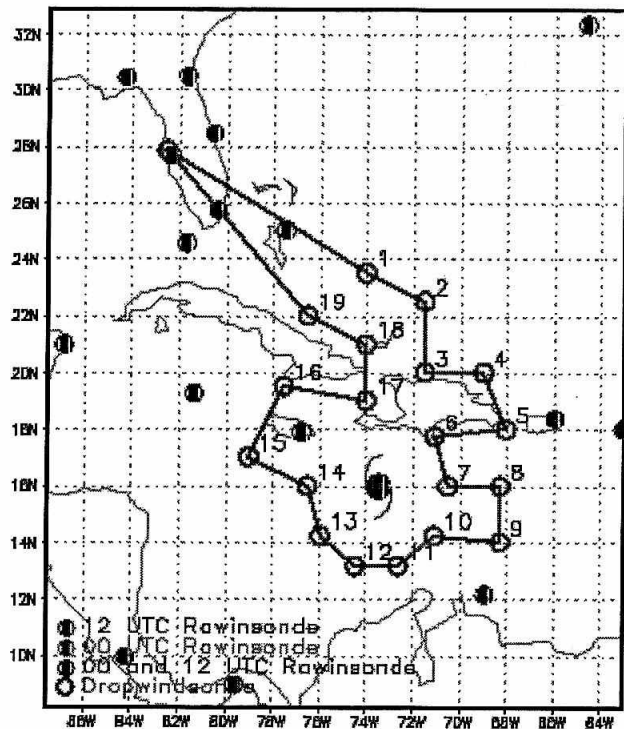
Large spikes in the dewpoint values from 1834Z-1839Z are the result of dewpoint balancing. Following the balancing, data from DPL was irractic until 1909Z.

After flying into precipitation, at 2032Z, 2047Z, and 2125Z, spikes occurred in the dewpoint data as the heaters kicked on to melt ice on the mirrors. This will cause unrepresentative relative humidity values over 100%.

DBP1 seperated from DBP2 at 2155Z. This occurred following a precipitation event and increasing altitude. It is likely that one of the ports became clogged with ice. Once the aircraft started descending, the port unclogged and the data recovered.

Otherwise, all instruments performed optimally during this mission.

Flight Director: Martin Mayeaux (813) 828-3310 x 3086



DATA COLLECTED

2004-08-08-11:30

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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: 09/1730Z

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DROP LOCATIONS

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#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	23 30	74 00		1:22
2	22 30	71 30		1:42
3	20 00	71 30		2:03
4	20 00	69 00		2:22
5	18 00	68 00		2:40
6	17 46	71 04		3:04
7	16 00	70 30		3:19
8	16 00	68 15		3:37
9	14 00	68 15		3:53
10	14 14	71 04		4:15
11	13 09	72 34		4:30
12	13 09	74 26		4:45
13	14 14	75 56		5:00
14	16 00	76 30		5:15
15	17 00	79 00		5:36
16	19 30	77 30		6:00
17	19 00	74 00		6:27
18	21 00	74 00		6:43
19	22 00	76 30		7:04

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 Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 09/1730Z
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TRACK DISTANCE TABLE

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#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	23 30	74 00		530.	530.	1:22
2	22 30	71 30		151.	681.	1:42
3	20 00	71 30		150.	831.	2:03
4	20 00	69 00		141.	973.	2:22
5	18 00	68 00		133.	1106.	2:40
6	17 46	71 04		176.	1282.	3:04
7	16 00	70 30		111.	1393.	3:19
8	16 00	68 15		130.	1523.	3:37
9	14 00	68 15		120.	1643.	3:53
10	14 14	71 04		165.	1808.	4:15
11	13 09	72 34		109.	1918.	4:30
12	13 09	74 26		109.	2026.	4:45
13	14 14	75 56		109.	2136.	5:00
14	16 00	76 30		111.	2247.	5:15
15	17 00	79 00		156.	2403.	5:36
16	19 30	77 30		173.	2576.	6:00
17	19 00	74 00		201.	2777.	6:27
18	21 00	74 00		120.	2897.	6:43
19	22 00	76 30		152.	3049.	7:04
20	MACDILL			481.	3530.	8:19
