

17.3 -75.15 212.5 211.9

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

Flt ID: 040910N	From: Kmcf	To: Kmcf
Flt. No: 04705	Blk In: 0155 z	Time On: 0147 z
ETD: 1730 z	Blk Out: 1718 z	Time Off: 1727 z
ETE: 8+30	Blk Time: 8+37 (8.6) Hrs	Flt Time: 8+20 (8.3) Hrs
Sponsoring Org: NHC	Program: Surveillance	Purpose: IVAN

AOC Flight Crew

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

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Dunion, J ✓	Haps	HRD

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

Storm Name: Kingston Airspace
 Mission ID: NOAA 9
 Recco Times: 1709A Ivan
 Fix #: 1650 7552 1913
 937 Carcub

Penetration number and time
 Total Temps directed 2223Z
 TTZ bad 2319-2330Z

AC 1712 7626
 130kt 926 308/12
 Last Pass 00Z

AF 1705 7616 2222Z
 29112KT
 927mb

(See reverse for additional remarks)

J 17.10 76.4

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Flight ID: 040910N Time Off: 1727 Z Time On: 0147 Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	<u>1016.7</u> mb	<u>3009</u> mb	<u>1015.3</u> mb	<u>2998</u> mb

ATIS	Time	Observation
Takeoff	<u>1555Z</u>	<u>13006KT 75m SCT030 SCT120 BKN250 30/24 M3009</u>
Land	<u>02155Z</u>	<u>13006KT 75m FEW030 SCT120 BKN250 32/21 M2998</u>

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Drosondes	<u>31</u>	<u>Good: 29 Bad: 2</u>
AXBT		
AXCP		
AXCTD		

Remarks:
 Post Processing
 AT3 is best - At 2229Z - All ATs except #3 spike. At 2321Z At2 spikes } Precip Event
 TT3 is best - " " TT5 " " " " TT2 " }
 on descent - DBP1 + DBP2 spiked at 0113Z
 OPLC is better. At 2206-2308Z - Both DPS spike above ATs by about 6 to 8 degrees
 At 2117-2123Z - Both DP spike about 1 degree
 SSRD2 spike at 117Z upon descent. causes huge wind speed spike

NOAA G-IV N49RF Hurricane Ivan Mission 3 Surveillance Flight

Flight ID: N040910

<u>Sensor or System</u>	<u>Number or Name</u>
INE (for wind derivation)	VEW_PITR VNS_PITR
Attack Angle	AKRD2
Slip Angle	SSRD2
Accelerometer	ACINS_PITR
Temperature Probe	AT3
Dew Point Probe	DPLC
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.

At 2229Z, all temperatures, except for AT3 and TT3, spiked. During this same period, from 2206Z-2308Z, both dewpoint sensors spiked above the ambient temperatures by 6 to 8 degrees. These dewpoint errors may be the result of overcompensation by the sensor heaters. The result of these errors will be unrealistic relative humidity values.

Both dewpoint sensors spiked about 10 degrees from 21117Z-2123Z during a precipitation event. This results in unrealistic relative humidity values.

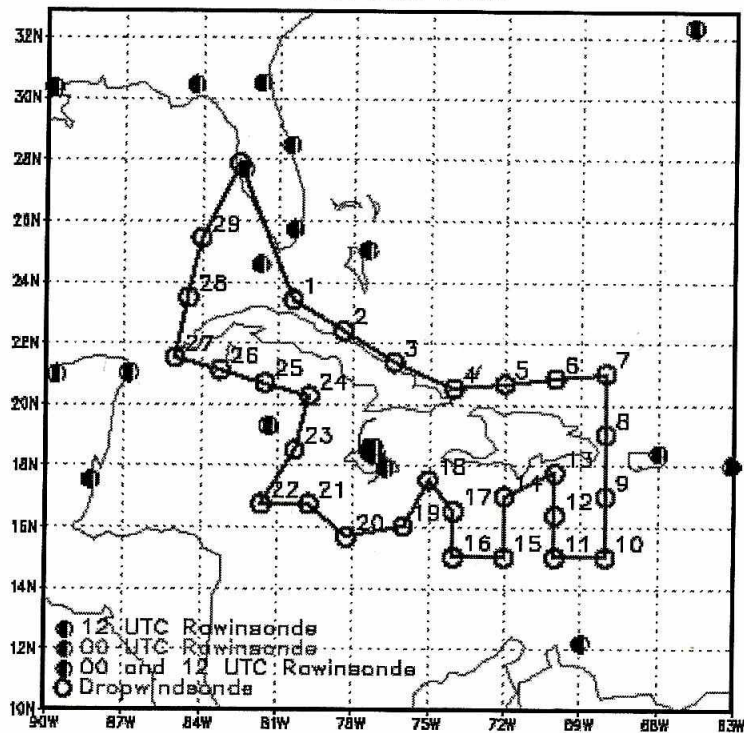
Also, AT2 and TT2 spiked at 2321ZZ during a period of heavy precipitation.

On descent, DBP1 and DBP2 along with SSRD1 and SSRD2 spiked at 0117Z. This results in error in the wind data.

Otherwise, all instruments performed optimally during this mission.

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

040910N IVAN



GRADE COLA/IGES

2004-08-08-12:13

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: IVAN

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 10/1730Z

DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	23 24	80 24		0:50
2	22 23	78 23		1:07
3	21 21	76 22		1:24
4	20 30	74 00		1:44
5	20 40	72 00		1:59
6	20 50	70 00		2:14
7	21 00	68 00		2:30
8	19 00	68 00		2:46
9	17 00	68 00		3:02
10	15 00	68 00		3:19
11	15 00	70 00		3:34
12	16 23	70 00		3:45
13	17 45	70 00		3:57
14	17 00	72 00		4:13
15	15 00	72 00		4:30
16	15 00	74 00		4:46
17	16 30	74 00		4:58
18	17 30	75 00		5:09
19	16 00	76 00		5:24
20	15 39	78 14		5:41
21	16 44	79 43		5:56
22	16 44	81 36		6:11
23	18 30	80 18		6:28
24	20 16	79 43		6:43
25	20 40	81 29		6:57
26	21 05	83 14		7:11
27	21 30	85 00		7:25
28	23 27	84 30		7:41
29	25 24	84 00		7:57

50 x 100 = 5000
x .25

22
.25

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 HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: IVAN

Prepared by the Hurricane Research Division File: current1.ftk

 Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 10/1730Z
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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 24	80 24		291.	291.	0:50
2	21 21	76 22		255.	547.	1:24
3	20 30	74 00		143.	689.	1:44
4	21 00	68 00		339.	1028.	2:30
5	15 00	68 00		361.	1388.	3:19
6	15 00	70 00		116.	1505.	3:34
7	17 45	70 00		165.	1670.	3:57
8	17 00	72 00		123.	1793.	4:13
9	15 00	72 00		120.	1913.	4:30
10	15 00	74 00		116.	2030.	4:46
11	16 30	74 00		90.	2120.	4:58
12	17 30	75 00		83.	2203.	5:09
13	16 00	76 00		107.	2310.	5:24
14	15 39	78 14		130.	2440.	5:41
15	16 44	79 43		108.	2549.	5:56
16	16 44	81 36		108.	2657.	6:11
17	18 30	80 18		130.	2786.	6:28
18	20 16	79 43		111.	2897.	6:43
19	21 30	85 00		305.	3202.	7:25
20	25 24	84 00		241.	3443.	7:57
21	MACDILL			167.	3611.	8:30

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