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

Flt ID: 050824N	From: KMCF	To: KMCF
Flt. No: 05 - 127	Blk In: 0221 Z	Time On: 0209 Z
ETD: 18 Z	Blk Out: 1747 Z	Time Off: 1802 Z
ETE: 8 + 30	Blk Time: 8 + 34 (8.6 Hrs)	Flt Time: 8 + 07 (8.1 Hrs)
Sponsoring Org: NOAA/NHC	Program: HURR 05	Purpose: Surv.

AOC Flight Crew

Aircraft Commander: FINN, M	Data System: BROWN, D
Co-Pilot: HAGAN, J ; ODELL, W	AVAPS:
Navigator:	System Eng: TONG, R
Flight Eng:	A A:
Flight Director: FLAHERTY, P	A A:
Avionics: ROGERS, M	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
VALDE, K		

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

Storm Name: TS KATRINA

Mission ID: 04124 KATRINA

Penetration number and time

TEAL 13 007

RI / HARS/ANAV/cam issues

(See reverse for additional remarks)

Recco Times *Fix # Fix Time*

002648025 17
224154 13

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center				
Flight ID: 050824N	Time Off: 1802 Z		Time On: 0209 Z	
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1013.1 mb	mb	1013.5 mb	mb

ATIS	Time	Observation
Takeoff	Z	
Land	Z	

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	28	Good: Bad:
AXBT		
AXCP		
AXCTD		

Remarks:

T/O ALT 1013.1

11007KTS 30125 A2997

NOAA G-IV
Hurricane 2005
NHC - TS Katrina
KMCF - KMCF

Flight ID: 050824n

Sensor or system	*Number or Name*
Inertial (for wind derivation)	*VEW_PITR/VNS_PITR*
Temperature /Dew Point	*AT3/DPRC*
Static and Dynamic Pressure	*PS2C/QC2C*
Directory / Constants File	*506/49cal032*

Notes:

There were no time/data glitches during this flight. However, there were several problems transmitting the dropsonde data off the aircraft. Initially, it was due to problems with R-5/Avaps. However, this caused a domino affect which caused problems for the R-2/HAPS operator. An attempt to use the back-up procedures at R-1 for transmitting sondes also failed. These issues were corrected as much as possible in-flight, with the back-up communication problems being solved the following day (the issue was at the gateway and not on the aircraft). However, some sondes were not able to be transmitted prior to the cut-off point for inputting data into the 00Z model run.

All instruments worked properly.

28 dropsondes were deployed. Only one sonde failed.

	Takeoff	Landing
Aircraft Static Pressure	1013.1mb	1013.5 mb

STATION INFORMATION
1655Z 11007KT 10SM 30/25 A2997
0155Z n/a

Flight Director: Contact Paul Flaherty
Phone #: (813) 828-3310 ext. 3094

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: TD12

NOAA/AOML/Hurricane Research Division: August 23, 2005 8:17:51 PM
Aircraft: N49RF Proposed takeoff: 24/1800Z

DROP LOCATIONS

#	LAT (d m)	LON (d m)	TIME (h:mm)
1	26 25	-83 46	0:15
2	25 00	-85 00	0:30
3	23 00	-84 00	0:48
5	21 42	-85 06	1:02
6	21 00	-83 00	1:20
7	21 18	-80 00	1:44
8	19 00	-79 00	2:04
9	19 40	-75 59	2:29
11	20 00	-74 00	2:45
12	22 00	-74 00	3:01
13	23 00	-72 00	3:19
14	25 00	-73 00	3:37
15	25 00	-71 00	3:53
16	27 00	-71 00	4:09
17	27 00	-73 00	4:24
~~18~~	~~30 00~~	~~-73 00~~	~~4:49~~
~~19~~	~~31 00~~	~~-74 30~~	~~5:03~~
~~20~~	~~32 00~~	~~-76 00~~	~~5:17~~
21	30 00	-77 00	5:35
22	30 00	-79 00	5:50
23	28 09	-79 02	6:05
24	28 09	-77 10	6:20
25	27 04	-75 40	6:34
26	25 18	-75 06	6:49
27	23 32	-75 40	7:04
28	22 27	-77 10	7:19
29	22 50	-78 50	7:33
30	23 32	-80 32	7:47

OR 13

1013.1 mb

1802z TD

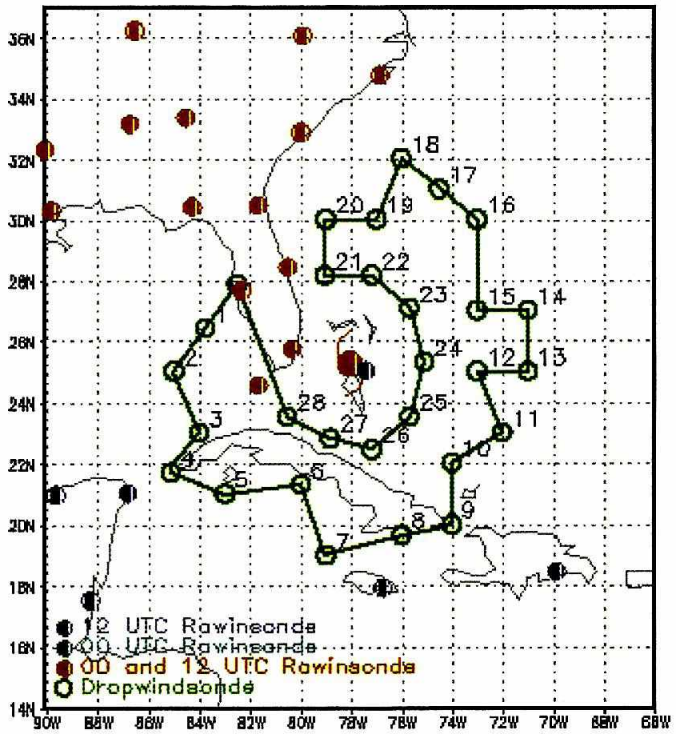
DROP 1 1830Z

2 183948

~~2~~ Back up 1842

3 1856

4 1908z



GrADS: COLA/IGES

2005-08-23-20:17

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: TD12

NOAA/AOML/Hurricane Research Division: August 23, 2005 8:17:51 PM
Aircraft: N49RF Proposed takeoff: 24/1800Z

DROP LOCATIONS

#	LAT (d m)	LON (d m)	TIME (h:mm)
1	26 25	-83 46	0:15
2	25 00	-85 00	0:30
3	23 00	-84 00	0:48
5	21 42	-85 06	1:02
6	21 00	-83 00	1:20
7	21 18	-80 00	1:44
8	19 00	-79 00	2:04
9	19 40	-75 59	2:29
11	20 00	-74 00	2:45
12	22 00	-74 00	3:01
13	23 00	-72 00	3:19
14	25 00	-73 00	3:37
15	25 00	-71 00	3:53
16	27 00	-71 00	4:09
17	27 00	-73 00	4:24
18	30 00	-73 00	4:49
19	31 00	-74 30	5:03
20	32 00	-76 00	5:17
21	30 00	-77 00	5:35
22	30 00	-79 00	5:50
23	28 09	-79 02	6:05
24	28 09	-77 10	6:20
25	27 04	-75 40	6:34
26	25 18	-75 06	6:49
27	23 32	-75 40	7:04
28	22 27	-77 10	7:19
29	22 50	-78 50	7:33
30	23 32	-80 32	7:47

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: TD12

NOAA/AOML/Hurricane Research Division: August 23, 2005 8:17:51 PM
Aircraft: N49RF Proposed takeoff: 24/1800Z

TURN LOCATIONS

#	LAT (d m)	LON (d m)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	27 51	-82 31	0.	0.	0:00
1	25 00	-85 00	221.	221.	0:30
2	23 00	-84 00	132.	354.	0:48
3	21 54	-85 06	91.	446.	1:01
4	21 42	-85 06	11.	458.	1:02
5	21 00	-83 00	128.	586.	1:20
6	21 18	-80 00	174.	761.	1:44
7	19 00	-79 00	149.	911.	2:04
8	19 40	-75 59	180.	1091.	2:29
9	19 48	-75 00	58.	1149.	2:37
10	20 00	-74 00	59.	1208.	2:45
11	22 00	-74 00	120.	1328.	3:01
12	23 00	-72 00	130.	1458.	3:19
13	25 00	-73 00	132.	1591.	3:37
14	25 00	-71 00	114.	1705.	3:53
15	27 00	-71 00	120.	1825.	4:09
16	27 00	-73 00	113.	1939.	4:24
17	30 00	-73 00	180.	2119.	4:49
18	32 00	-76 00	205.	2324.	5:17
19	30 00	-77 00	132.	2456.	5:35
20	30 00	-79 00	111.	2568.	5:50
21	28 09	-79 02	110.	2679.	6:05
22	28 09	-77 10	104.	2783.	6:20
23	27 04	-75 40	107.	2890.	6:34
24	25 18	-75 06	110.	3001.	6:49
25	23 32	-75 40	110.	3112.	7:04
26	22 27	-77 10	108.	3220.	7:19
27	22 50	-78 50	98.	3318.	7:33
28	23 32	-80 32	106.	3425.	7:47
29	27 51	-82 31	282.	3707.	8:26

PHS

N49RF AVAPS DropSonde Log

N49RF Project: HURR '05 Flight ID 050824n

Mission: KATRINA Flight #: 1 Launcher S/N: 002 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	011 245 347	12	1830	-1.2	42	RT		✓
2	011 245 288	1	1839	-.6			Late winds 210	✓
3	011 245 087	3	1842	-1.5	35		BACKUP	✓
4	011 245 377	4	1857	-1.3	90		Late winds	✓
5	011 245 343	2	1909	-.8	41			✓
6	011 245 366	3	1926	-.5	69		Late winds	✓
7	011 245 086	4	1950	-1.1	—		BAD TEMP / NO WINDS	—
8	002 648 022	1	1952	0	72		Late winds	✓
9	011 245 336	2	2010	-2.5	35		LOST SIGNAL	✓
10	003 135 212	3	2036	0	24			✓
11	011 245 345	4	2052	-.8	30			✓
12	011 245 179	1	2110	-3.5	12			✓
13	002 648 030	3	2128	0	64		Late winds	✓
14	010 715 170	4	2148	0	14			✓
15	003 135 218	1	2205	0	48		weak Telemetry	—
16	003 135 214	3	2231	0	46			✓
17	002 648 025	4	2244	+.4	30		NO TEMP PRESSURE WINDS	—
18	011 245 281	1	2258	-.3	—		NO TEMP	— RT
19	010 715 185	6	2259	-.5	28	DB	L5 BACK UP	✓
20	011 245 344	5	2316	-.7	41	DB	L5	✓
21	003 135 211	4	2329	+.6	45	RT		✓
22	003 135 210	1	2354	0	24			✓
23	003 135 215	2	2357	.6	38			✓
24	003 135 275	4	0011	1.3	32			✓
25	002 648 024	1	0027	0	46			✓
26	003 135 226	1	0053	.4	96	RT	TOTAL REBOOT	✓
27	002 648 031	2	0108	.5	32			✓
28	003 135 207	4	0127	.5	26			✓
29								
30								
31								
32	Charge 4 BAD To AOC							
33	24	To	NHC					

CH3 SOMETIMES NO GPS LOCK