

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

Flt ID: <b>N040902N1</b>	From: <b>MCF</b>	To: <b>MCF</b>
Flt. No: <b>04 - 094</b>	Blk In: <b>1429 Z</b>	Time On: <b>1421 Z</b>
ETD: <b>0530 Z</b>	Blk Out: <b>0521 Z</b>	Time Off: <b>0607 Z</b>
ETE: <b>8 + 30</b>	Blk Time: <b>9 + 08 (9.1) Hrs</b>	Flt Time: <b>8 + 14 (8.2) Hrs</b>
Sponsoring Org: <b>DHC</b>	Program: <b>Surveillance</b>	Purpose: <b>H. Frances nite</b>

**AOC Flight Crew**

Aircraft Commander: <b>McLain <del>JT</del></b>	Data System: <b>1411 ✓</b>
Co-Pilot: <b>Massoli Finu</b>	AVAPS: <b>Delgado</b>
Navigator:	System Eng: <b>Bart ✓</b>
Flight Eng: <b>Rosenel</b>	AA:
Flight Director: <b>Parrish ✓</b>	AA:
Avionics:	Crew Chief:

**Participating Scientists / Visitors**

Name (Last, First)	Activity on Aircraft	Affiliation
<b>Lawson, C. ✓</b>	<b>NAPS</b>	<b>NAD</b>
<b>Carlos Bonvier ✓</b>	<b>Visitor - Media</b>	<b>Jax C-4 CAN WJXT</b>
<b>John Caughan ✓</b>	<b>↓</b>	<b>↓</b>
<b>Christine Kille ✓</b>		<b>Fla. Today News/Spec (Brewer Co)</b>

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

Storm Name: **Frances**      Recco Times      Fix #      Fix Time

Mission ID: **1706A**      **T.O. Delayed - No clearance, had to call Miami ATIS, soude winds at SE pattern end Flakey. Rebooted AVPs.**

Penetration number and time

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Flight ID: \_\_\_\_\_ Time Off: \_\_\_\_\_ Z \_\_\_\_\_ Time On: \_\_\_\_\_ Z \_\_\_\_\_

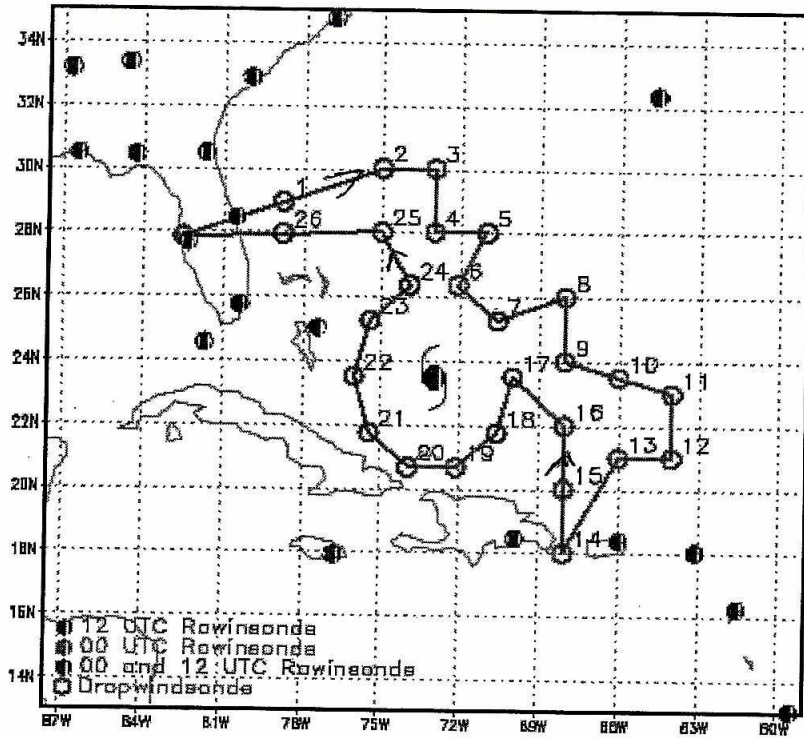
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
<b>Pressure</b>	mb	mb	mb	mb

ATIS	Time	Observation
Takeoff	Z	
Land	Z	

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes		Good: 27 Bad: 2
AXBT		
AXCP		
AXCTD		

**Remarks:**  
*29 Total Drops*

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T <sub>a</sub>	T <sub>d</sub>	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
0607	2752	82 29	73		101	9	24.8	20.6	955	875	69		67.5	
064247	2855	78 44	69	70	208	4.6	-55.5	-64.4	12484	13124	-	175.3		Drop 1 Int winds up high
070903	2959	74 58	~	~	275	27	-57	-67	12489	13135		175.4		Drop 2
072150	2954	73 01	~	~	235	28	-57.9	-66.3	12497	13141		175.5		Drop 3
073834	2801	72 52	~	~	235	15	-59	-62	12691	1337		170.9		Drop 4
075110	2754	71 06	~	~	233	16	-60.7	-63.4	13461	12772		166.8		Drop 5
080636	2621	71 58	~	~	197	10.5	-60.7	-61.4	13469	12776		166.8		Drop 6
082028	2518	70 30	~	~	240	1.1	-61.2	-63.5	13613	12916		163.1		Drop 7 Strong winds
083937	2552	68 01	~	~	283	10.9	-62.1	-62.2	12916	13608		163.1		Drop 8
085432	2401	67 56	~	~	15	6.2	-62.3	-62.4	13064	13749		159.1	81.5	Drop 9
090941	2330	66 00	105	101	5.9	11	-62.9	-62.9	73062	13739		159.3	80.7	Drop 10
092509	2255	64 01	~	~	356	18	-62.9	-64.1	13059	13725		159.4	81.1	Drop 11
094027	2100	64 10	~	~	346	18	-63.4	-63.3	13058	13718		159	79	Drop 12 Lost winds 100
095446	2056	66 01	~	~	357	10.3	-64.5	-65.6	13202	13883		155.6	79.7	Drop 13 100
095640	2045	66 10	212	212	7.0	9.5	-64.1	-65.2	13201	13881		155.7	79.5	Drop 13A
102148	1813	68 02	~	~	30	18	-63.2	-63.1	13209	13885		155.6	79.7	Drop 14 100 and 100
103736	2000	68 00	359	359	19	15	-63.1	-64.2	13214	13891		155.8		Drop 15 100 winds
104037	2021	68 00	359	359	15	15	-63	-64.5	13215	13894		155.9	79.9	Drop 15A
110315	2239	68 53	Dropped lake to re-boot system										ch. 1	Drop 16 - Lake
115222	2319	70 03			250	6	-65.4	-67.2	13637	14346		144.9	74.4	Drop 17
112908	2145	70 35	~	~	256	6	-66	-66	13644	14339		144.9	75	Drop 18
114401	2040	72 05	261	262	319	6	-65.9	-65.8	13638	14343		145	72.5	Drop 19
115853	2040	73 56	294	294	286	7	-66.7	-64.1	13641	14341		145	75	Drop 20
121344	2144	75 26	330	332	16	11	-61.3	-64.9	13650	14345		145		Drop 21
122927	2330	75 59	13	9	295	12	-63.5	-68	13646	14361		145	72	Drop 22
124438	2515	75 24	37	33	281	14	-65.6	-69.6	13654	14369		144.9		Drop 23
125809	2622	74 00	~	355	289	18	-65	-70	13648	14361		145.1		Drop 24
131404	2756	74 59	305	299	261	25	-65.8	-71.1	13654	14354		145.6	75	Drop 25
132953	2758	76 53	268	265	251	23	-65.7	-71.5	13655	14350		145	72	Drop 25'
134500	2755	78 48	269	265	244	20.8	-65.2							Drop 26
1429	2751	82 29					31	24				1015.6		Block 19



GRADE COLA/16ES

2004-08-31-15:14

NOAA G-IV Flight  
Track

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: FRANCES

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 02/0530Z

TRACK DISTANCE TABLE

*NOAA G-IV Turn Points*

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	30 00	75 00		416.	416.	1:07
2	30 00	73 00		104.	520.	1:21
3	28 00	73 00		120.	640.	1:37
4	28 00	71 00		106.	747.	1:51
5	26 21	72 04		114.	861.	2:07
6	25 16	70 34		104.	965.	2:21
7	26 00	68 00		146.	1112.	2:41
8	24 00	68 00		120.	1232.	2:57
9	23 00	64 00		229.	1460.	3:28
10	21 00	64 00		120.	1581.	3:45
11	21 00	66 00		112.	1693.	4:00
12	18 00	68 00		213.	1906.	4:29
13	20 00	68 00		120.	2026.	4:45
14	22 00	68 00		120.	2146.	5:01
15	23 30	70 00		143.	2289.	5:21
16	21 44	70 34		111.	2400.	5:36
17	20 39	72 04		107.	2506.	5:50
18	20 39	73 56		104.	2611.	6:04
19	21 44	75 26		107.	2717.	6:19
20	23 30	76 00		111.	2828.	6:34
21	25 16	75 26		110.	2938.	6:49
22	26 21	73 56		104.	3043.	7:03
23	28 00	75 00		114.	3157.	7:19
24	MACDILL			399.	3556.	8:23

*3475 better*

*0712 - 1404  
Local*

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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: 02/0530Z

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DROP LOCATIONS

*NOAA G-IV Drop Points*

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	28 55	78 46		0:38
2	30 00	75 00		1:07
3	30 00	73 00		1:21
4	28 00	73 00		1:37
5	28 00	71 00		1:51
6	26 21	72 04		2:07
7	25 16	70 34		2:21
8	26 00	68 00		2:41
9	24 00	68 00		2:57
10	23 30	66 00		3:13
11	23 00	64 00		3:28
12	21 00	64 00		3:45
13	21 00	66 00		4:00
14	18 00	68 00		4:29
15	20 00	68 00		4:45
16	22 00	68 00		5:01
17	23 30	70 00		5:21
18	21 44	70 34		5:36
19	20 39	72 04		5:50
20	20 39	73 56		6:04
21	21 44	75 26		6:19
22	23 30	76 00		6:34
23	25 16	75 26		6:49
24	26 21	73 56		7:03
25	28 00	75 00		7:19
26	27 55	78 46		7:46

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