

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

Flight ID: **N040829** Time Off: **1731** Z Time On: **0111** Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1012.1 mb	2997 1005.7 mb	1007.8 mb	1014.0 mb

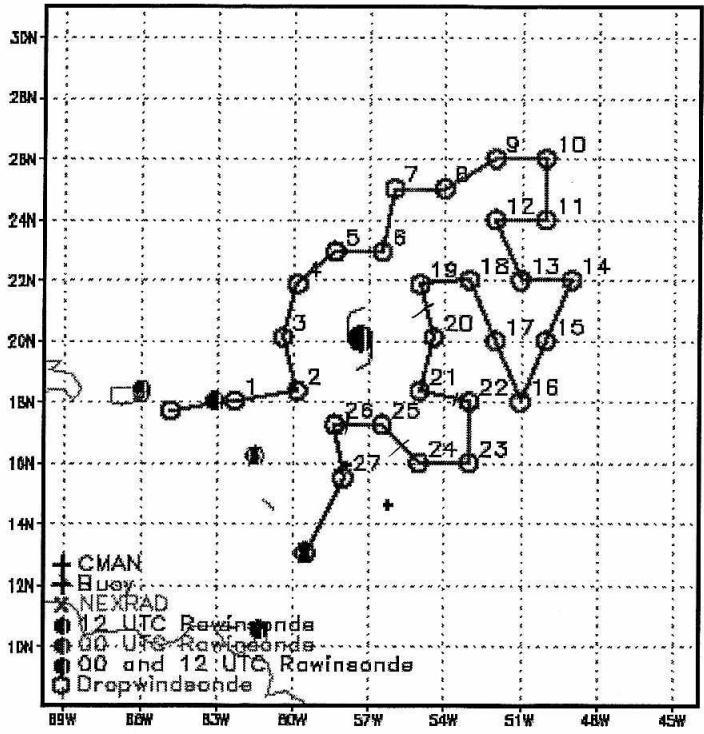
ATIS	Time	Observation
Takeoff	1653Z	12013kt P65m SKC 31/24 A2997
Land	2353Z	VFB03KT 105m Fawozo 26/24 QNH1014

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	29	Good: 27 Bad: 2
AXBT		
AXCP		
AXCTD		

Remarks:

TBPB
1305
59°30

040829N FRANCES



1820
05949

2006
062

GRADE: COLY/IBES

2004-08-28-12:11

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: FRANCES

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 29/1730Z

TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	ST CROIX			0.	0.	0:00
1	18 20	59 49		287.	287.	0:49
2	20 06	60 24		111.	398.	1:04
3	21 52	59 49		111.	508.	1:19
4	22 57	58 20		106.	614.	1:33
5	22 57	56 28		103.	717.	1:47
6	25 00	56 00		126.	843.	2:04
7	25 00	54 00		109.	952.	2:19
8	26 00	52 00		124.	1076.	2:36
9	26 00	50 00		108.	1184.	2:51
10	24 00	50 00		120.	1304.	3:07
11	24 00	52 00		110.	1414.	3:22
12	22 00	51 00		132.	1546.	3:40
13	22 00	49 00		111.	1658.	3:55
14	18 00	51 00		266.	1923.	4:31
15	22 00	53 00		266.	2189.	5:07
16	21 52	54 59		110.	2299.	5:22
17	20 06	54 24		111.	2410.	5:37
18	18 20	54 59		111.	2521.	5:52
19	18 00	53 00		115.	2635.	6:08
20	16 00	53 00		120.	2756.	6:24
21	16 00	55 00		116.	2871.	6:40
22	17 15	56 28		113.	2985.	6:55
23	17 15	58 20		106.	3091.	7:10
24	15 30	58 00		107.	3198.	7:24
25	BARBADOS			170.	3368.	7:57

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0306A

DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	18 01	62 19		0:30
2	18 20	59 49		0:49
3	20 06	60 24		1:04
4	21 52	59 49		1:19
5	22 57	58 20		1:33
6	22 57	56 28		1:47
7	25 00	56 00		2:04
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20	20 06	54 24		5:37
21	18 20	54 59		5:52
22	18 00	53 00		6:08
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24	16 00	55 00		6:40
25	17 15	56 28		6:55
26	17 15	58 20		7:10
27	15 30	58 00		7:24

11. 90
96
170
130
310

3
1730

530-
605
645
700

10 min
5 min
2 min
10 SEC (SMND BY)
54321 Drop

040829N

ING	VIEW
ATTACK	ALCRDZ
SIP	SSRDZ
ACC	ACINS
TEM	ATB
TD	DALC
AHT	PAT
STAT	PSZC
DYN	QCZC
TAS	TAS 2

Day Spike INEZ AHT at 1435Z

OPRC Dropped off unaturally at 2320Z

B/w 2255 and 2315 both OPLC & OPRC were significantly higher than ATB resulting in K/Hum > 200%

Ads file had bad font stamps. Striked at 0300Z then went to 1730Z - 0117Z. Can't be read properly by Nimbus

**NOAA G-IV N49RF
Hurricane Frances Mission 1
Surveillance Flight**

Flight ID: N040829

<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 data/time glitches during this flight.

DPRC had an unusual downward spike at 2320Z. It was determined that during this time, DPLC was recording more representative data. Because of this, DPL and DPLC will be used in place of DPX and DPXC.

Between 2255Z and 2315Z, both DPLC and DPRC were significantly higher than all of the ambient temperature measurements. This resulted in relative humidity values greater than 200%. Because all dewpoint and ambient temperature sensors trended together in their measurements, no substitutions could be made to lower the relative humidity value.

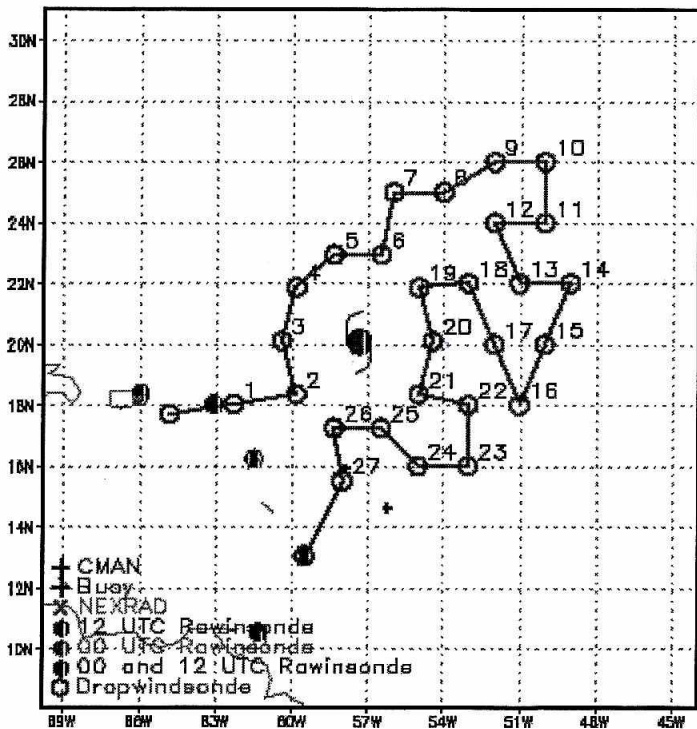
The ADS file for this flight has a time stamp problem that renders it useless for the nimbus program. Therefore, the data from this flight can only be obtained from the tape.

Otherwise, all instruments performed optimally during this mission.

Flight Director:

Martin Mayeaux (813) 828-3310 x 3086

040829N FRANCES



ORADS: COLY/LES

2004-08-28-12:11

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