

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

Flt ID: <i>I040810</i>	From: <i>Kmcf</i>	To: <i>Kmcf</i>
Flt. No: <i>04-080</i>	Blk In: <i>0206 z</i>	Time On: <i>0154 z</i>
ETD: <i>1700 z</i>	Blk Out: <i>1715 z</i>	Time Off: <i>1734 z</i>
ETE: <i>8+30</i>	Blk Time: <i>8+51 (8.9) Hrs</i>	Flt Time: <i>8+20 (8.3) Hrs</i>
Sponsoring Org: FAA <i>NAC</i>	Program: <i>Hurricane Surveillance</i>	Purpose: <i>Bonnie</i>

AOC Flight Crew

Aircraft Commander: <i>McCann, R</i>	Data System: <i>Hornbrook, C</i>
Co-Pilot: <i>Finn, m</i> , <i>Hagen, J</i>	AVAPS: <i>Bigan, D</i>
Navigator: <i>/</i>	System Eng: <i>/</i>
Flight Eng: <i>/</i>	A A: <i>/</i>
Flight Director: <i>Mayeaux, m</i> , <i>Parish, J</i>	A A: <i>/</i>
Avionics: <i>Carpenter, D</i>	Crew Chief: <i>/</i>

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
<i>Goldenberg, S</i>	<i>PI</i>	<i>HRD</i>
<i>Odell, W</i>	<i>Obs</i>	<i>AOC</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>

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

Storm Name: *Bonnie* *PS, m out* Recco Times *2751* Fix # *8331735*
8230 *123.05 304.8 T* *0vganrw*

Mission ID: *040810I* *3052294474*

Penetration number and time

(See reverse for additional remarks)

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Flight ID: **040710I** Time Off: **1734** Z Time On: **0154** Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1018.0 mb	3007 1018-3 mb	1015.2 mb	3000 1015.9 mb

ATIS	Time	Observation
Takeoff	1859Z	20004KT P6sm 30/23 A3007
Land	2355Z	32006KT P6sm 29/24 A3000

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	27	Good: 26 Bad: 1
AXBT		
AXCP		
AXCTD		

Remarks:

N49RF AVAPS DropSonde Log

N49RF Project: HURRICANE Flight ID 0488102
 Mission: T.S. Flight #: RF 2 Launcher S/N: 02 Status: Sys 1 OK Sys 2 OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD <input checked="" type="checkbox"/>
1	023 535 082	1	1806	0	25	DWE	OK	✓
2	020 215 285	1	1827	-1.3	28			✓
3	022 928 034	1	1847	0	42			✓
4	031 018 148	1	1906	0	23			✓
5	021 735 151	2	1924	0	28			✓
6	022 625 150	1	1939	-2.3	53			✓
7	035 345 119	1	2001	-.8	17			✓
8	024 125 203	2	2018	0	16			✓
9	024 415 182	1	2035	0	23			✓
10	025 045 102	1	2100	0	26			✓
11	012 025 034	2	2118	-0	12		↓	✓
12	013 635 246	1	2133	-.8	66		Late winds	✓
13	023 535 084	2	2150	0	47		OK	✓
14	023 535 083	1	2206	0	22			✓
15	025 045 076	2	2219	0	19			✓
16	024 415 163	1	2236	0	10		↓	✓
17	011 378 119	2	2251	0	25		Altitude, Temp. & Hum. in op	✓
18	025 018 086	3	2253	0	30		blu for drop 17	✓
19	024 415 397	1	2306	0	17		OK	✓
20	003 815 259	2	2322	0	40			✓
21	025 018 085	1	2341	.5	28			✓
22	022 245 046	1	0000	.4	27			✓
23	025 018 089	2	0014	.4	33			✓
24	003 825 141	1	0028	0	15			✓
25	025 045 079	1	0049	0	22		↓	✓
26	003 815 270	2	0104	0	70		Late winds	✓
27	023 318 066	1	0118	0	54		OK	✓
28								
29								
30								
31								
32								
33								

Charge to NHC

**NOAA G-IV N49RF
TROPICAL STORM BONNIE/CHARLIE
Surveillance Flight**

Flight ID: N040810

<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	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.

Static Pressure 1 (PS1M) and dynamic pressure 1 (QC1C) were inoperative throughout the entire flight. All values derived from these measurements are also erroneous.

Otherwise, all instruments performed optimally during this mission.

Flight Director:

Martin Mayeaux (813) 828-3310 x 3086

G-IV Post Processing

NOV 08 10

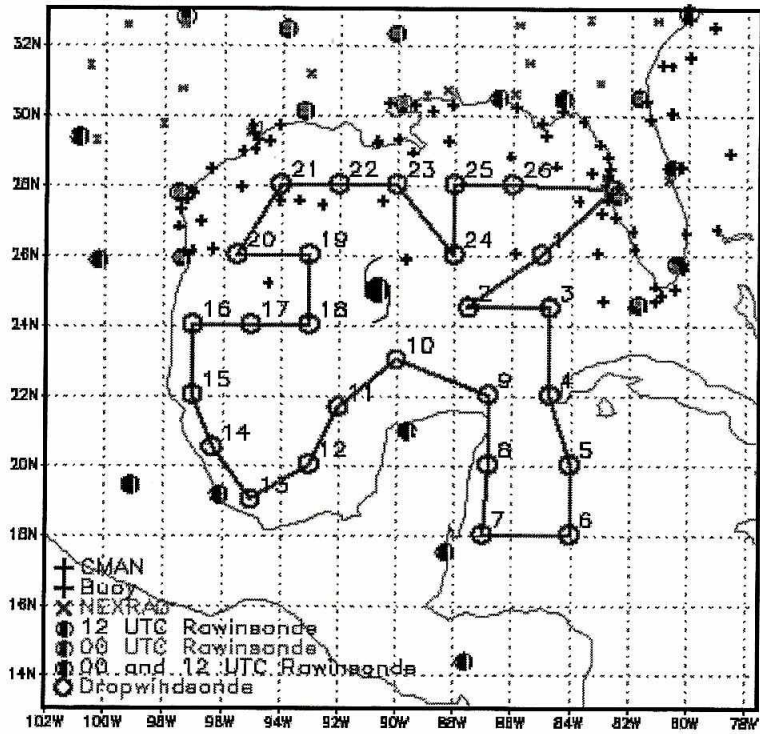
171041Z-260604

Sensors

INE	VQW-PETR
ATTACK	AKRDZ
SLP	SSRDZ
ACC	ACINS
T	ATB
TD	DPRC
AIT	RA PAET
SP	PSZC
DP	QCZC
TAS	TBZ
Com	49CATHI
PD	406
TT	TTB

1935-1937, DAPI & Z Separated. and AKRDZ Difference 1/4mb
PSIM was way off/out/ through entire flight

040810N Bonnie



GRADE: COLA/16ES

2004-08-10-07:32

600 10 minutes
300 5 minutes
120 2 minutes

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 HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: BONNIE

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	26 00	85 00		0:34
2	24 30	87 30		0:56
3	24 30	84 42		1:16
4	22 00	84 42		1:37
5	20 00	84 00		1:54
6	18 00	84 00		2:10
7	18 00	87 00		2:34
8	20 00	86 48		2:50
9	22 00	86 48		3:06
10	23 00	90 00		3:32
11	21 39	92 00		3:50
12	20 00	93 00		4:06
13	19 00	95 00		4:23
14	20 30	96 20		4:39
15	22 00	97 00		4:53
16	24 00	97 00		5:09
17	24 00	95 00		5:24
18	24 00	93 00		5:39
19	26 00	93 00		5:55
20	26 00	95 30		6:13
21	28 00	94 00		6:33
22	28 00	92 00		6:47
23	28 00	90 00		7:02
24	26 00	88 00		7:24
25	28 00	88 00		7:40
26	28 00	86 00		7:54

600 = 10 minutes

300 = 5

120 = 2

WPS1-mcdill

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: BONNIE

Prepared by the Hurricane Research Division File: current1.ftk

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

TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	26 00	85 00		173.	173.	0:34
2	24 30	87 30		163.	336.	0:56
3	24 30	84 42		153.	490.	1:16
4	22 00	84 42		150.	640.	1:37
5	20 00	84 00		126.	766.	1:54
6	18 00	84 00		120.	886.	2:10
7	18 00	87 00		171.	1058.	2:34
8	20 00	86 48		121.	1179.	2:50
9	22 00	86 48		120.	1299.	3:06
10	23 00	90 00		188.	1487.	3:32
11	21 39	92 00		138.	1624.	3:50
12	20 00	93 00		114.	1738.	4:06
13	19 00	95 00		128.	1866.	4:23
14	20 30	96 20		117.	1984.	4:39
15	22 00	97 00		98.	2082.	4:53
16	24 00	97 00		120.	2202.	5:09
17	24 00	93 00		220.	2421.	5:39
18	26 00	93 00		120.	2542.	5:55
19	26 00	95 30		135.	2677.	6:13
20	28 00	94 00		145.	2821.	6:33
21	28 00	90 00		212.	3034.	7:02
22	26 00	88 00		161.	3195.	7:24
23	28 00	88 00		120.	3315.	7:40
24	28 00	86 00		106.	3421.	7:54
25	MACDILL			185.	3606.	8:30