

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

Flt ID: 040811N	From: KmCF	To: KmCF
Flt. No: 04-081	Blk In: 0232 z	Time On: 0222 z
ETD: 1730 z	Blk Out: 1753 z	Time Off: 1802 z
ETE: 8+30	Blk Time: 8.39 (8.7) Hrs	Flt Time: 8+20 (8.3) Hrs
Sponsoring Org: NAC	Program: Surveillance	Purpose: Bonnie/Charley

AOC Flight Crew

Aircraft Commander: Poston, R ✓	Data System: Hornbrook, C
Co-Pilot: Finke, M ✓, Hagen, J ✓	AVAPS: Brogen, D
Navigator: ,	System Eng:
Flight Eng: ,	A A:
Flight Director: Meyeaux, M ✓, Flaherty, P ✓	A A:
Avionics: Smith, J ✓	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Goldenberg, S ✓	HAPS	NRO
Nelson, B ✓	obs	senator
Sieverksan, T ✓	media	ABC Local
Perry, E ✓	media	ABC Local

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

Storm Name: Teal 69 until 00Z

Mission ID: *22Z-00Z is Teal 17, 5000 ft* } Bonnie

Penetration number and time
 Bonnie 58m 26.7N 89.3
 55 kts
 12/08 28.2 87.3 65
 12/18 30.8 84.7 50 kts

NOAA 0303A Charley
 Teal 64 5000ft leaving Togo to Charley at 00Z

(See reverse for additional remarks)

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

Flight ID: 040811N Time Off: 1802 Z Time On: Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	<u>1016.1</u> mb	<u>3000</u> <u>1015.9</u> mb	mb	<u>A2996</u> mb

ATIS	Time	Observation
------	------	-------------

Takeoff	1755Z	2300KT 75m SCT030 · SCT250 31/25 A2999
---------	-------	--

Land	2155Z	2200KT 75m few030 SCT100 (A2999) ^{ISRN 256} 31/25 HVC and 3 winds > 50kts
------	-------	---

	Number	Data Disposition / Date / Quality A2996 48 hours
--	--------	--

Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	<u>31</u>	Good: <u>28</u> Bad: <u>3</u>
AXBT		
AXCP		
AXCTD		

Remarks:

Center fia for Bonnie + Charlie

N49RF AVAPS DropSonde Log

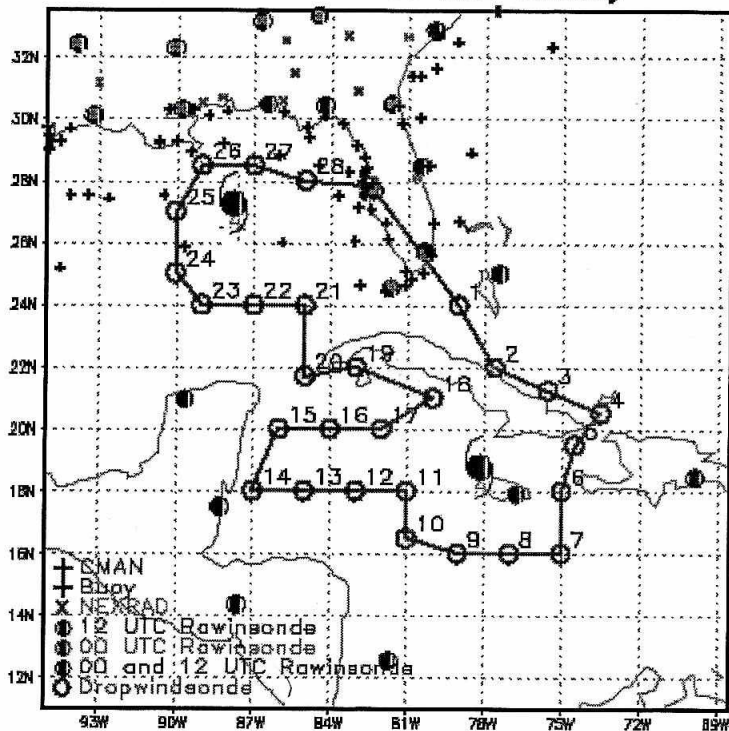
N49RF Project: HURRICANE Flight ID 040811N
 TS Bonnie
 Mission: Charlie Flight #: RF 3 Launcher S/N: 02 Status: Sys 1 OK Sys 2 OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD <input checked="" type="checkbox"/>
1	023 235 048	1	1849	0	57	DL		✓
2	032 335 217	1	1910	0.9	39	DL		✓
3	032 335 431	2	1926	0	86	DL	FAST FALL	✓
4	032 335 208	3	1928	0	72	DL	BU TO 3	✓
5	032 345 112	1	1942	0	58	DL		✓
6	032 318 004	2	1953	0	21	DL		✓
7	030 725 218	1	2007	0	37	DL		✓
8	032 335 214	2	2023	-0.5	33	DL		✓
9	032 335 430	1	2038	0	45	DL		✓
10	032 318 046	2	2054	-1.6	28	DL		✓
11	032 345 035	1	2110	0	23	DL		✓
12	032 335 434	2	2121	-0.9	53	DL		✓
13	032 345 113	1	2137	0	17	DL		✓
14	032 335 209	2	2153	0	30	DL		✓
15	035 345 100	1	2204	0	13	DL		✓
16	035 345 125	2	2227	0	25	DL		✓
17	035 345 123	1	2243	-0.6	40	DL		✓
18	032 345 099	2	2259	0	—	DL	FAST FALL	✓
19	032 335 433	3	2301	0	30	DL	BU TO 17	✓
20	040 925 104	1	2315	0	50	DL		✓
21	032 345 107	1	2336	-0.6	82	DL		✓
22	031 018 172	2	2352	0	30	DL		✓
23	032 345 098	1	0012	-0.6	54	DL		✓
24	032 335 006	2	0027	0	—	DL	FAST FALL	✓
25	035 345 102	3	0028	0	27	DL	BU TO 22	✓
26	035 345 126	1	0042	0	44	DL		✓
27	031 018 168	2	0053	0	14	DL		✓
28	032 345 034	1	0110	0	24	DL		✓
29	035 345 101	2	0124	0	32	DL		✓
30	035 345 121	1	0137	-0.7	57	DL		✓
31	035 345 118	2	0151	0	31	DL		✓
32				-7		DL		
33								

NHE

040811N Bonnie and Charley

15 5 2
10 5 2



305-229-0476

GRADE: COLLEGE

2004-08-10-10:15

26 53 25 KTS
 86 50 0029
 TRAC 17

25 KTS



HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: CHARLEY

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 11/1730Z

DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	24 00	79 00		0:51
2	22 00	77 36		1:10 1730
3	21 15	75 33		1:27
4	20 30	73 30		1:44 2000-
5	19 30	74 30		1:55
6	18 00	75 00		2:08
7	16 00	75 00		2:24
8	16 00	77 00		2:40 230
9	16 00	79 00		2:55-300
10	16 30	81 00		3:12
11	18 00	81 00		3:24
12	18 00	83 00		3:39
13	18 00	85 00		3:55 1730
14	18 00	87 00		4:10 655
15	20 00	86 00		4:28
16	20 00	84 00		4:44 @ 0025-0105
17	20 00	82 00		4:59
18	21 00	80 00		5:16
19	22 00	83 00		5:41
20	21 42	85 00		5:56
21	24 00	85 00		6:15
22	24 00	87 00		6:30
23	24 00	89 00		6:44
-24	25 00	90 00		6:55 655
25	27 00	90 00		7:12 40
26	28 30	89 00		7:26
-27	28 30	87 00		7:40 735
28	28 00	85 00		7:55

=====
 HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: CHARLEY

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 11/1730Z
=====

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	24 00	79 00		300.	300.	0:51
2	22 00	77 36		143.	443.	1:10
3	20 30	73 30		247.	689.	1:44
4	19 30	74 30		82.	772.	1:55
5	18 00	75 00		95.	866.	2:08
6	16 00	75 00		120.	987.	2:24
7	16 00	77 00		116.	1102.	2:40
8	16 00	79 00		116.	1218.	2:55
9	16 30	81 00		119.	1337.	3:12
10	18 00	81 00		90.	1427.	3:24
11	18 00	83 00		114.	1541.	3:39
12	18 00	85 00		114.	1656.	3:55
13	18 00	87 00		114.	1770.	4:10
14	20 00	86 00		133.	1903.	4:28
15	20 00	84 00		113.	2016.	4:44
16	20 00	82 00		113.	2129.	4:59
17	21 00	80 00		128.	2257.	5:16
18	22 00	83 00		178.	2435.	5:41
19	21 42	85 00		113.	2548.	5:56
20	24 00	85 00		138.	2686.	6:15
21	24 00	87 00		110.	2796.	6:30
22	24 00	89 00		110.	2906.	6:44
23	25 00	90 00		81.	2987.	6:55
24	27 00	90 00		120.	3107.	7:12
25	28 30	89 00		105.	3212.	7:26
26	28 30	87 00		106.	3318.	7:40
27	28 00	85 00		110.	3428.	7:55
28	MACDILL			132.	3560.	8:23

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

Flight ID: N040811

<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.

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

Due to a large spike in DPR and DPRC at 184800Z, DPL and DPLC will be used for DPX and DPXC.

Otherwise, all instruments performed optimally during this mission.

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

040811N

INE view_PITR TT3
AA AKRD2
SA SBRD2
ACC ACINS_PITR
T AT3
OP OPLC
AI PALT
SP PS2C
OP QC2C
TAS

Rerun for OPLC due to spike at 184800z
PS1 m not operative
QC2C also wd