

Hurricane 1998

Tropical Storm Bonnie

Flight #2 980820H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	2
Dew Point Probe	1
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2988.CON

Notes:

Radar altimeter (RA159) had a spike at takeoff (1743:00-1746:34) and was replaced by RA232. There were several spikes in RA159 during the flight, all of these spikes were removed and patched (1923:00-1924:00, 1958:00-1959:00, 2020:30-2031:30, 2035:00-2036:00, 0046:00-0047:00, 0127:00-0128:00, 0247:00-0248:00, and 0254:00-0255:00). RA159 had a spike that was replaced by RA232 + 65.0 from 2205:00-2206:00. RA159 had a spike and was replaced by RAGPS from 2004:10-2007:02. RA159 had a spike at landing and was set to zero 0302:12-0303:00. RA159 had dips due to overflying land 0253:00-0255:00.

Dewpointer (DW1) had a spike that was removed and patched 2057:00-2100:00. Dewpoint exceeded ambient temperature several times due to heavy precipitation.

J&W Liquid Water (LW) had a spike patched and removed 1854:00-1855:00.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1010.8	1005.3
Corrected tower pressure	1012.5	1011.2

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.
It is recommended that these values be used for vertical wind analysis.

Flight Meteorologist: Stan Czyzyk, (813) 828-3310 ext. 3086

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 980820H	FM: TISK	TO: TBPR
FLT NO: 98-067	BLK IN: 0305Z	ATA: 0302Z
ETD: 1730Z	BLK OUT: 1738Z	RTD: 1746Z
ETE: 0300Z	BLK TIME: 9.27 9.5	FLT TIME: 9.16 9.3
SPONSOR ORG: HRD	PROGRAM: HURR. RES.	PURPOSE: SYNOPSIS FLOW #2

OAO PERSONNEL

AC PHILIPSBORN, R ✓	SYS ENG MCMILLAN, J ✓
CP TAGGART, B ✓ / OMARA, T	DATA SYS
NAV OMARA, T RATHBUN, D ✓	RADAR BARR, J ✓
FE TORREY, R ✓	DT/ODW DELGADO, J ✓
RADIO ROGERS, M ✓	CLD PHYS
FD CZYZYK, S ✓	DOPPLER CURRY, J ✓

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BLACK, D ✓	PI	HRD
BLACK, M ✓	SCIENTIST	"
MARKS, F ✓	"	"
LEIGHTON, P ✓	"	"
BRACKEN, E ✓	"	"
CLONE, J ✓	"	"

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
 1 AXBT MISSING AFTER TAKEOFF

CLIPPED SOUNDS IN CONVECTION (INNER CORE)

2:20 TO ETA

JAN LW NOT WORKING

U.S. DEPT. COMM./NOAA/OAD - DATA SECTION WORK FORM NO.2 OADWF2

FLT ID: 980820H

TIME OFF: 1746Z

TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1010.8	29.90	1005.3	29.86

NO

DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
DDW CASSETTES		
HARD COPIES	1	
AXBT	7	
AXCP		
ODW		
GPS	21	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

TD.#2

[illegible]

PAGE _____ **OF** _____

FIX TYPES

(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

[illegible]

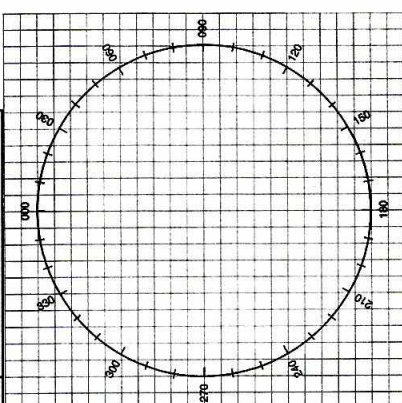
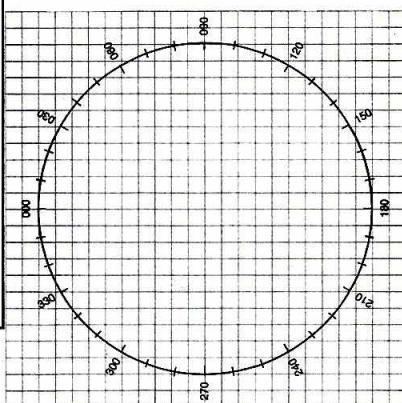
16W
2023 60W

CLEARANCES

FREQ	ALT	HDG	OTHER
			202°
			1756N 6039W
			58
1830			1755N 6040W
6036			
			1828 61
1811N			
6033W	1004M		1300'

MISSION LOG

PAGE **OF**



POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA _____, NOAA _____

- POSITION _____ N/S _____
 _____ E/W AT _____ Z _____- HEADING _____ TRUE/MAG _____
- AT _____ KTS TRUE/INDICATED _____

- FLIGHT LEVEL OR ALTITUDE _____
- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED
- PILOT INTENTIONS

TIME	FIX TYPE	POSITION	INS 1 POSITION	KERR	INS 2 POSITION	KERR	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1733																				
1738																				
1746																				
1821	FM11	16 19.9 65 11.8	16 19.7 65 11.6	+1.2 +1.2	16 20.0 65 11.8	-1.1 0		246	112	247	295	072	506	FL180	243					ENG START BLACK OUT THICK C
1831		15 57.7 65 57.6	15 57.5 65 57.2	+1.2 +1.4	15 57.8 65 57.4	-1.1 +1.2		185	312	188	279	019	48	FL180	232					No DROP DROP #1
1840		15 42.7 65 58.6	15 42.7 65 58.2	0 +1.4	15 43.0 65 58.4	-1.3 +1.2		180	212	182	280	015	47	FL180	235					PROP #1
1902		13 59.5 65 55.1	13 59.7 65 54.9	+1.2 +1.2	13 59.9 65 54.6	-1.4 +1.5		085	12	084	275	257	34	FL180	241					No DROP DROP #2
1957		15 00.3 61 51.9	15 00.9 61 50.8	+1.4 +1.1	15 00.8 61 51.5	-1.5 +1.4		062	0	062	261	243	33	FL180	228					PROP #4
2037		17 14.7 60 42.3	17 15.2 60 40.4	-1.5 +1.9	17 15.3 60 40.8	-1.6 +1.5		000	112	001	264	192	31	FL160	233					PROP #5
2114		18 24.1 61 08.9	18 23.6 61 08.1	+1.5 +1.8	18 23.9 61 09.3	+1.2 -1.4			012	12	267									
2124		18 24.8 61 03.0	18 24.3 61 02.3	+1.5 +1.7	18 24.1 61 03.9	+1.7 -1.9		082	212	084	274	267	42	FL160	234					DROP
2200		18 51.3 58 20.2	18 51.6 58 17.2	-1.3 +1.0	18 50.6 58 18.6	+1.7 +1.6		045	62	089	289	232	41	FL210	259					
2242		19 00.9 54 49.2	19 00.7 54 47.6	+1.2 +1.6	18 59.9 54 49.7	+1.0 -1.5		042	32	089	266	221	16	FL210	254					
2329		21 59.2 54 01.3	21 59.8 53 57.3	-1.6 +1.4	21 57.5 53 59.4	+1.7 +1.9		086	12	085	272	257	18	FL220	255					DROP
0006		21 54.3 51 02.5	21 54.5 51 00.1	-1.2 +2.4	21 52.3 51 03.1	+2.0 -1.6		175	412	179	308	023	52	FL220	260					
0043		18 47.2 51 11.8	18 47.4 51 08.0	-1.2 +1.8	18 43.9 51 11.6	+3.3 +1.2		209	312	212	310	051	49	FL230	264					
0128		15 21.3 53 13.9	15 22.0 53 10.9	-1.7 +3.0	15 18.3 53 14.7	+3.0 -1.8		210	0	210	288	024	40	FL230	247					
0048		13 58.1 54 12.2	13 58.7 54 09.4	-1.6 +2.8	13 54.6 54 14.0	+1.3 -1.8		289	12	258	309	072	38	FL240	272					

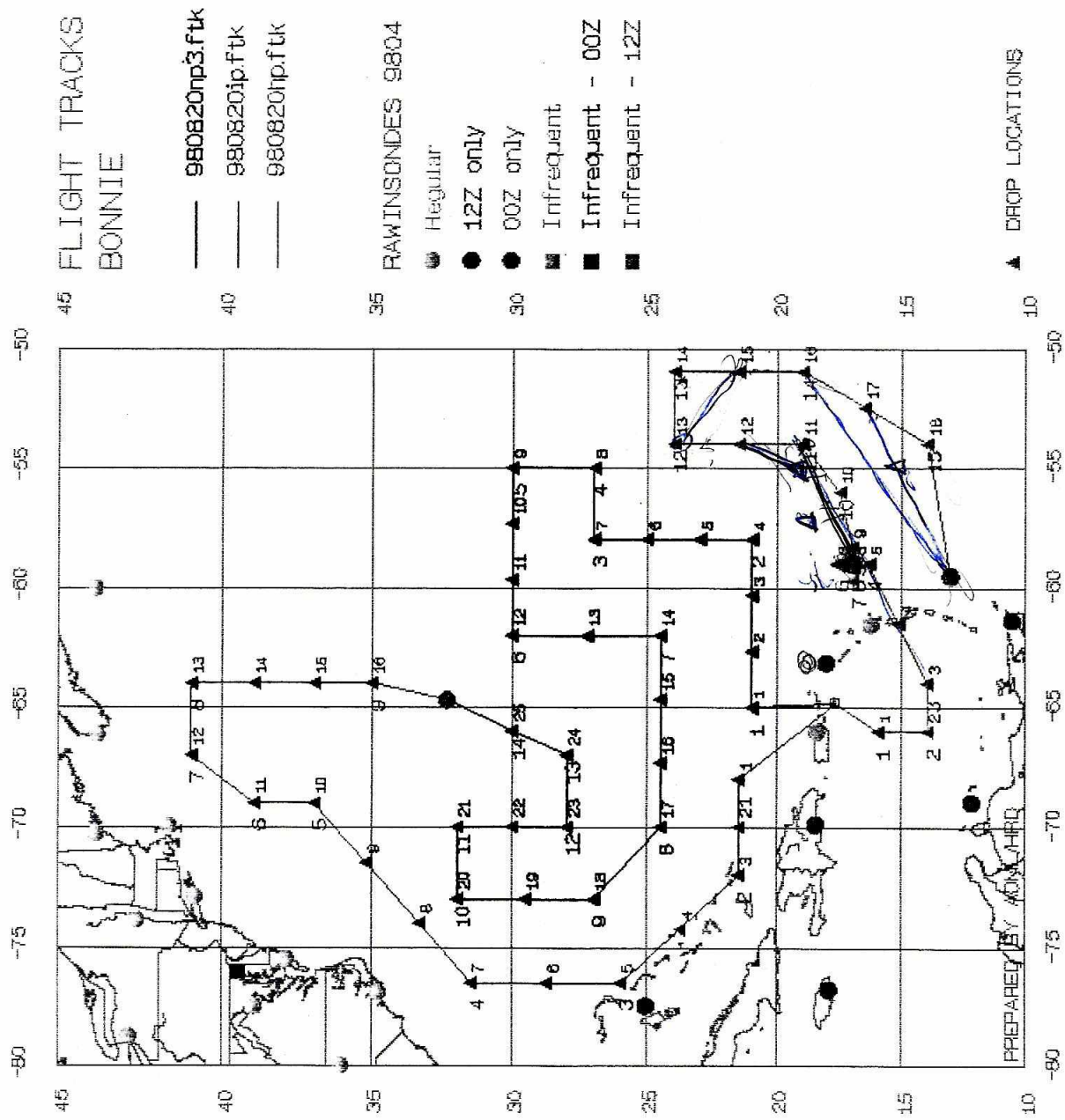
N43RF AVAPS DROP LOG

Flight ID : 990820I

Landing : _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments
1	984 715 310	1	0	2042	21	DUC	OK
2	984 715 156	2	0	2046	30		
3	985 035 286	3	0	2050	30		
4	984 715 232	4	0	2106	36		
5	985 035 078	1	0	2115	40		
6	985 035 278	2	0	2128	21		
7	984 715 134	3	0	2131	22		lost telemetry
8	985 035 284	4	0	2146	28		OK
9	984 715 314	1	0	2157	32		
10	984 715 229	2	0	2210	28		
11	985 035 282	3	0	2212	26		
12	985 035 015	4	0	2217	30		
13	985 035 313	1	0	2231	24		
14	985 035 120	2	-0.8	2245	70		telemetry in tout
15	985 035 017	3	0	2250	29		OK
16	985 035 072	4	0	2256	28		
17	985 035 073	1	0	2311	30		
18	985 035 279	2	0	2318	18		
19	985 035 283	3	0	0000	32		

- denotes BT drop also BT^{#3} 2100



18.7 60 7.17