

Hurricane Danielle

XCDX

Flight #8 H980830

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
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	CO2989.CON

Notes:

The radar altimeter (RA159) had a spike at takeoff and was replaced by RA232 from 1855:01-1858:33. Several spikes in RA159 were removed and patched throughout the flight (0138:30-0139:00, 0442:00-0443:00 (2), and 0454:30-0455:00). A spike also occurred at landing and RA159 was set to zero (0502:48-0506:00).

Dynamic attack pressure (DAP) and dynamic slip pressure (DBP) had over-exaggerated readings due to possible leak in line during and shortly after times of precipitation. During these times frames, both DAP and DBP were replaced by PQF1 (dynamic pressure) with the appropriate offset. DAP replacements: 2022:30-2110:41 offset (-1.3), 0009:10-0110:12 offset (-1.3) and 0253:01-0400:05 offset (-1.2). DBP replacements: 2027:00-2048:05 offset (+4.9), 2053:15-2124:00 offset (+4.9), 0000:00-0109:30 offset (+5.0) and 0253:30-0346:25 offset (+4.7).

Dewpoint (DW1) may be erroneous due to possible sensor freezing 2042:30-2055:00 and 0001:00-0006:00. Dewpoint (DW1) exceeded ambient temperature (AT2) several times due to heavy precipitation.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1013.2	1014.1
Corrected tower pressure	1015.2	1015.2

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 OAO WF 1 FILE

FLT ID: 980830H	FM: KOPF	TO: KOPF
FLT NO: 98-073	BLK IN: 0506Z	ATA: 0503Z
ETD: 1900Z	DLK OUT: 1850Z	ATD: 1858Z
ETE: 0400Z	BLK TIME: 10:16 10:3	FLT TIME: 10:05 10:1
SPONSOR ORG: HRO	PROGRAM:	PURPOSE: XCOX Hura David

OAO PERSONNEL

AC PHILIPSBORN, R ✓	SYS ENG McMILLAN, S ✓
CP KENUL, P / OMARA, T ✓	DATA SYS
NAV RATHBUN, D ✓	RADAR SMITH, J ✓
FE TORREY, R ✓	BT/ODW BARR, J ✓
RADIO ROGERS, M ✓	CLD PHYS
FD CZYZYK, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
WILLOUGHBY, TH ✓	PI	HRO
FEVER, S ✓	SCIENTIST	"
DODGE, P ✓	"	"
ABERSON, S ✓	"	"
MATOMOR, S ✓	"	"
LAWRENCE, J ✓	"	PSU
MONTES DE OCA, F ✓	"	U of Houston
		CARCAH

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

FUSE BLOWN IN THE PRE-AMP. FIXED 2015Z (DRAPSONOE)
 2047Z
 2944N 7401W 0031Z TT3 COOL AGAIN
 2756N 0319
 7414W 2810.6
 7419W

3 PENETRATIONS

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2

FLT ID: 980830H TIME OFF: 1858Z TIME ON: 0503Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1013.2	29.98	1014.1	29.98

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2		
FAST FLT LVL TAPES			
RADAR TAPES			
DOPPLER TAPES			
ODW CASSETTES			
HARD COPIES		1	
AXBT	15		
AXCP			
ODW			
GPS	24		

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS
1 BT LOST ON TAKEOFF

2756 7412 W. 0000Z

0056 2759 0741Z

03 2811 7420

148/150

JOE GRIFFITH

2100 2741

2810N 7421W

2335 2752N 6941W

2744 2107 2740 000Z

CLEARANCES		
FREQ	ALT	HDG
		OTHER
		ANADIA → 28N 74W 07
		32N 74W 07 32N 74W
		07 28N 74W → 2330N 74W
		07 2730N 6830W → 28N 74W
		07 2730N 7440W MRLIN.
		MARLIN

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:

URFVOICE 2430.0 VHFVOICE 121.5 MFF/CW 2182 KHZ HF/CW 8364 KHZ MF/CW 500 KHZ

MAYDAY, MAYDAY, MAYDAY
 THIS IS NOAA, 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 _____

- WE HAVE _____ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR	TH	DR	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1846																					
1852																					
1857																					
1930	FM1	2438.5	2438.3	+2	2438.3	+2			143	42	139	281	269	17	17K	270					
2025		2522.6	2522.3	+3	2522.3	+3			028	372	031	270	295	19	15K	267					
2102		2741.6	2740.7	+9	2740.8	+8															
		7358.7	7357.8	+9	7358.8	+1															
2105		2747.8	2746.8	+10	2746.9	+9															
		7403.9	7403.0	+9	7404.1	+12															
		3040.9	3039.0	+19	3039.1	+18															
		7202.8	7200.8	+20	7202.6	+12															
2230		3208.6	3205.8	+28	3206.6	+12															
		7227.1	7225.6	+15	7227.7	+16															
2316		3212.2	3209.7	+25	3209.5	+27															
		7639.7	7637.4	+23	7639.5	+12															
2354		3014.5	3010.7	+38	3011.6	+29															
		7556.3	7555.3	+10	7557.1	+18															
		2756.6	2752.3	+43	2753.0	+36															
		7415.1	7414.5	+6	7415.9	+18															
0111		2523.4	2517.7	+57	2519.3	+41															
		7233.2	7233.3	-1	7234.5	-13															
0143		2513.1	2506.9	+62	2508.6	+45															
		7112.7	7113.8	-11	7114.6	-19															
0215		2732.0	2725.0	+70	2727.1	+49															
		6949.8	6949.8	0	6951.1	-13															
0248		2813.4	2807.7	+57	2808.1	+53															
		7140.5	7141.8	-13	7143.2	-27															
0319		2810.6	2803.3	+73	2805.0	+56															
		7419.3	7420.5	-12	7421.4	-21															
0350		2811.7	2804.1	+76	2805.9	+58															
		7652.1	7653.1	-10	7654.7	-26															

2744 2107 2740 000Z

2744 2107 2740 000Z

2744 2107 2740 000Z

N42RF AVAPS DropSonde Log

N42RF Project: HU98

Flight ID: 980830H

Mission: DANIELLE

Flight #: _____

System Status: _____

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	BAD <input type="checkbox"/>	GOOD <input type="checkbox"/>	
1	981 830 033	1954Z	1	.8		JMB	PREAMP FUSE blown	<input checked="" type="checkbox"/>		0
2	981 830 036	1956Z	2	.2		JMB	↓	<input checked="" type="checkbox"/>		14
3	981 810 032	2007	3	.9		JMB	↓	<input checked="" type="checkbox"/>		0
4	981 950 054	2017Z	1	.3	135secs	JMB	Flight O.K.		<input checked="" type="checkbox"/>	2B
5	981 040 044	2039Z	1	.6	25secs	JMB	Flight O.K.		<input checked="" type="checkbox"/>	3B
6	981 950 078	2102Z	1	0	28secs	JMB	Flight O.K.		<input checked="" type="checkbox"/>	0
7	981 950 075	2104Z	2	0	25secs	JMB	Flight O.K.		<input checked="" type="checkbox"/>	0
8	982430 077	2131Z	1	.3	30secs	JMB	Flight O.K.		<input checked="" type="checkbox"/>	1A
9	974510 021	2153Z	1	.2	25secs	JMB	Flight O.K.			1B
10	981 810 022	2215Z	1	.5	23secs	JMB	Flight O.K.			1C
11	982010 057	2324Z	1	.3	30secs	JMB	Flight O.K. (ST FAIL)			2C
12	981 810 019	2354Z	2	.9	25sec	JMB	Flight O.K.			3C
13	981 830 040	0009Z	1	.5	46secs	JMB	Flight O.K.			1D
	982430 173	0054Z	1	.3	40secs	JMB	Flight O.K.			3D
15	981 950 053	0116Z	2	.2	30secs	JMB	Flight O.K.			0
16	981 950 040	0129Z	1	.7	45secs	JMB	Flight O.K.			1E
17	982010 071	0224Z	1	.6	43secs	JMB	Flight O.K.			2E
18	981 810 021	0235Z	1	.8	35secs	JMB	Flight O.K.			0
19	982430 002	0257Z	1	.3	30secs	JMB	Flight O.K.			0
20	982430 168	0319Z	1	.5	46secs	JMB	Flight O.K.			0
21	981 810 024	0319Z	2	1.1	39secs	JMB	Flight O.K.			0
22	981 950 056	0342Z	1	.6	40secs	JMB	Flight O.K.			0
23	982010 068	0404Z	1	.4	66secs	JMB	Flight O.K.			0
24	981 810 023	0422Z	1	1.5			NO WINDS	<input checked="" type="checkbox"/>		3F
25										
26										
27										
28										
29										
30										
31										
33										

3E 16 @ 0248Z
 2F 14 @ 0353Z
 3F 16