

FLT ID: N980830	FM: KOPF	TO: KOPF
FLT NO: 98-045	BLK IN: 0218Z	ATA: 0215Z
ETD: 1730Z	BLK OUT: 1722Z	ATD: 1729Z
ETE:	BLK TIME: 8:56	FLT TIME: 8:46
SPONSOR ORG: NHC	PROGRAM: SURVEILLANCE	PURPOSE: DANIELLE

OAD PERSONNEL

AC PLAYER	SYS ENG HILL
CP MAXSON, MCCANN, FINKE	DATA SYS PRADAS-BERGNES
NAV	RADAR
21	BT/ODW McNAMARA
FE <del>XXXXXXXXXX</del>	CLD PHYS
RADIO	DOPPLER
FD DAMIANO	

PARTICIPATING SCIENTIST/VISITORS/OAD

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BLACK, M.	MAPS	HRD
WINTER		AOC
WHITE	PM	AOC

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

1104A -5.50 down 25 display  
NM

21.44Z

FD  
Green

16502

U.S. DEPT. COMM./NOAA/ORA - DATA SECTION WORK FORM NO.2 OROWF2 FILE

FLT ID: N980830 TIME OFF: 1729z TIME ON: 0215z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1015.0	29.98	1015.6	29.98

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
<del>GPS</del> GPS	34	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS









N980830

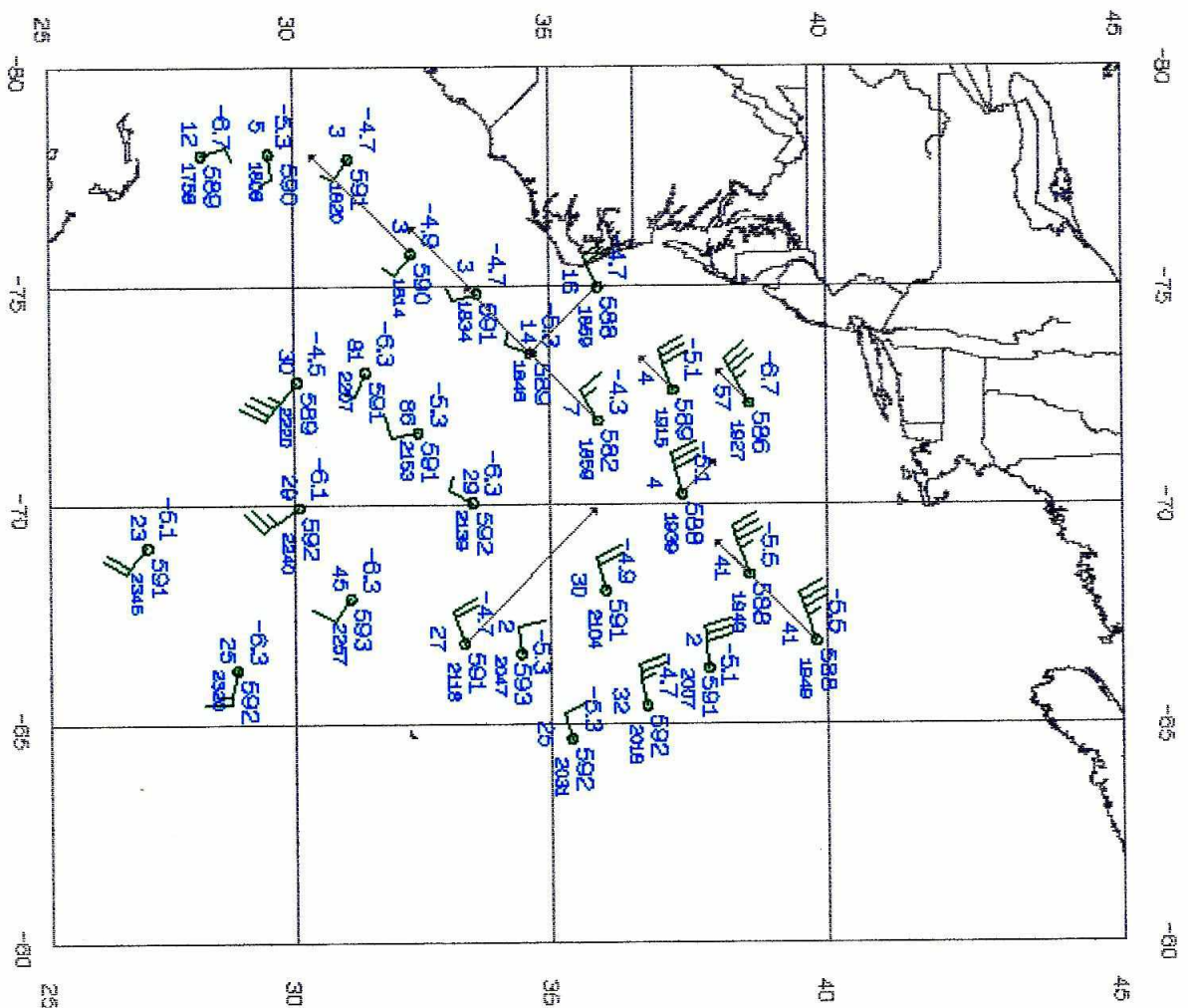
168/42

m/s

TIME	LAT	LONG	TRK	HD	WD	WS	TA	TD	PA	GA	PS		PO
175812	2811	7800	0	0	142	9	-40.5	-48	10550	11160	250		DROP 110.9
180820	2930	7800	0	0	145	14	-52.8	-56.6	11940	12550	194	FF	DROP 90.7
181446	3021	7800	0	359	169	13	-57.4	-66.6	12564	13165	175.7		DROP 87.3
182629	3105	7753	42	46	160	18	-57.6	-68.3	12562	13171	175.7		DROP 88.8
183253	3210	7630	47	47	201	11	-57.7	-65.5	12558	13178	175.8	NO W	DROP 87.3
183914	3217	7620	47	46	209	11	-57.3	-66.4	12558	13182	175.8		DROP 90.3
184000	3248	7542	47	48	189	10	-57.8	-68.6	12556	13178	175.9		CLR 88.6
184609	3320	7500	48	47	199	10	-58	-68.4	12555	13175	175.9		DROP 88.6
185958	3436	7330	8	2	233	16	-58	-67.4	12550	13168	176		DROP 88.4
191000	3554	7330	0	354	243	19	-57.4	-67.8	12553	13158	176		CLR 87.2
191319	3620	7330	0	353	245	24	-57.5	-69.1	12552	13146	176	FF	DROP 88.3
191532	3637	7330	0	353	246	24	-57.1	-69.5	12553	13139	176		DROP 89.1
192708	3800	7313	90	92	240	30	-56.8	-68.7	12548	13115	176.1		DROP 88.4
193300	3800	7212	90	92	239	26	-57	-68.7	12549	13120	176.1		CLR 88.1
193903	3800	7110	90	91	236	25	-57.1	-69.7	12544	13126	176.2		DROP 87.4
194950	3800	6919	91	93	225	23	-57.2	-70.3	12546	13140	176.2	EARLY	DROP 88.1
195810	ABEAM of C B passing S of cell												
200220	past cell												
200300	3800	6708	88	88	250	16	-57.4	-70.6	12553	13149	175.9	CLD	BLW 83.9
200742	3752	6624	145	150	246	18	-57.1	-69.7	12551	13165	176.0		DROP 87.7
201819	3645	6530	148	147	254	7	-58.3	-66.6	12552	13184	175.9		DROP 87.8
203123	3522	6443	233	233	263	11	-58	-67.6	12554	13197	176		DROP 87.8
204400	3427	6611	232	231	243	10	-58.2	-69.2	12550	13203	176.1		CLR 87.9
204746	3425	6639	326	324	285	8	-58.2	-69.6	12550	13205	176.1		DROP 87.3
210422	3600	6807	278	273	248	19	-57.9	-70	12548	13193	176.1		DROP 88.1
211400	3600	6927	270	265	242	23	-63.2	-72.2	13132	13774	159.7		CLR 79.8
211847	3549	7000	185	187	222	21	-63.3	-71.9	13134	13776	159.6		DROP 80
213500	3357	7000	181	181	217	12	-63.3	-69.4	13132	13795	159.8		CLR 80
213914	3328	7004	216	216	241	12	-63.2	-69.3	13132	13790	159.8		DROP 81.4
214400	ABEAM of C B												
214610	3258	7048	231	230	225	15	-63.3	-69.4	13128	13793	159.8	ABW	THW 79.1
215236	3230	7130	231	229	206	13	-63.3	-70.2	13131	13795	159.8	NO W	DROP 81.8
215356	3224	7138	232	229	208	15	-63.3	-69.9	13129	13796	159.8		DROP 80.1
220300	3146	7236	232	229	214	22	-62.3	-69.8	13131	13796	159.8	CLD	BLW 78.4
220736	3123	7300	187	187	212	23	-62.4	-69.7	13132	13788	159.8		DROP 78.8
222050	3000	7245	89	90	201	13	-62.2	-68	13128	13792	159.8		DROP —
223200	3000	7109	90	90	239	8	-62.4	-66.8	13129	13799	159.8	AT CLD	TOPS 80.3
224029	3003	6954	57	50	307	9	-62.4	-66.6	13128	13807	159.9		DROP 79.4
225752	3106	6751	140	140	90	3	-61.8	-69.7	13130	13800	159.9		DROP 79.1
230600	3019	6709	143	140	50	6	-62.6	-69.5	13132	13795	159.8	CLD	BLW 80.7
232026	2851	6613	234	234	8	8	-62.5	-67.9	13130	13768	159.8		DROP 80.1
233500	2746	6753	233	232	354	5	-62.6	-68.1	13131	13792	159.8		80.3
234516	2700	6903	258	258	325	8	-62.5	-70.2	13132	13784	159.8		DROP 80.8
000037	2648	7100	185	185	79	7	-67.3	-72.6	13712	14378	144.8		DROP 73.1
002000	2425	7100	181	175	83	16	-67.3	-72.8	13709	14367	144.8		72.7
002407	2400	7111	260	260	48	13	-67.7	-72.8	13708	14359	144.9		DROP 76.9
003500	2400	7239	270	269	45	1	-67.5	-72.2	13707	14368	144.8		71.3
004219	2412	7330	0	1	64	9	-68.1	-72.7	13709	14365	144.8		DROP 72.3
005849	2556	7346	252	251	279	2	-67	-73.2	13705	14364	144.9	(32)	DROP 72.3
005930	LGT N												
011641	2552	7605	210	208	180	21	-66.5	-74	13707	14364	144.9		DROP 71.2
012825	2442	7652	211	207	155	12	-67.5	-74.9	13702	14372	145.0		DROP 72.7
014700	2532	7849	326	324	304	5	-76.5	-79.6	7352	7732	391		156.2







DANIELLE

500 mb

Date: 980830  
 Time: 17-29 UTC

EARTH RELATIVE  
 NOAA/ERL/HURRICANE RESEARCH DIVISION





### N49RF Hurricane 98 AVAPS DropSonde Log

N49RF Project: Hurricane 98 Flight ID: 980830N

Mission: DANIELLE #3 Flight #: 11 System Status: OK

Drop #	Sonde Serial Number	Chn #	Time (Z)	Press. offset	Winds time	Operator	Comments / Drop Status	GOOD <input checked="" type="checkbox"/>
1	974 150 016	1	1758	-0.3	32	JCPB		✓
2	973 720 048	2	1808	0.2	28	JCPB		✓
3	974 510 046	1	1814	-0.3	46	JCPB		✓
4	974 510 079	3	1820	0.2	19	JCPB		✓
5	974 510 043	2	1833	0.2	250	JCPB	Very Late Winds	✓
6	972 440 112	1	1834	-0.2	28	JCPB		✓
7	974 510 032	3	1846	0	60	JCPB		✓
8	974 730 125	1	1900	-0.2	30	JCPB	Fast Fall	✓
9	974 740 048	2	1913	0	32	JCPB	Fast Fall	✓
10	974 730 091	3	1915	-0.9	40	JCPB		✓
11	974 730 105	1	1927	+0.4	26	JCPB		✓
12	974 530 070	2	1939	0	24	JWH		✓
13	972 630 029	3	1949	+0.2	29	JWH		✓
14	974 510 023	1	2007	-0.3	19	JWH		✓
15	974 740 052	3	2018	-0.1	24	JWH		✓
16	974 740 136	1	2032	0	40	JWH		✓
17	974 510 022	3	2048	-0.1	26	JWH		✓
18	974 530 039	4	2104	-0.4	32	JWH		✓
19	974 530 085	1	2119	-0.2	24	JWH		✓
20	974 510 049	1	2139	-0.2	22	JWH		✓
21	974 510 045	2	2152	0.1		JWH	NO SATELLITE FIX	✓
22	974 740 044	3	2153	0.2	19	JWH		✓
23	974 730 087	1	2207	-0.1	32	JWH		✓
24	974 740 055	2	2221	-0.1	33	JWH		✓
25	974 740 057	1	2240	0.0	13	JWH	BLACK CHUTE SLOW FALL ROUGH TRIM	✓
26	974 150 037	2	2258	-0.4	43	JWH		✓
27	982 720 280	3	2320	+0.4	32	JWH	SLOW FALL	✓
28	982 430 004	11	2345	0.0	37	JWH		✓
29	982 010 098	2	0000	0.0	18	JWH	SLOW FALL	✓
30	981 950 038	1	0024	+0.8	31	RJM		✓
31	982 010 064	2	0042	+0.5	47	RJM		✓
32	982 010 031	3	0058	+1.1	80	RJM		✓
33	982 010 016	4	0116	+0.5	28	RJM		✓



Drop #	Sonde Serial Number	Chn #	Time (Z)	Press. offset	Winds time	Operator Init.	Comments Drop Status	GOOD <input checked="" type="checkbox"/>
34	982 430 021	1	0128	+0.8	73	RJM		<input checked="" type="checkbox"/>
35								
36								
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39								
40								
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06/16/98

**AVAPS PRE-FLIGHT CHECK:**

- (1) Apply power to computer, VAPS fan and VAPS chassis
- (2) Verify no ER status lights on the four MWG cards
- (3) Set the computer time to GPS time
- (4) Start AVAPS and run the hardware checks via the Utility function
- (5) Start Soundings and set the Project Name and Flight ID (6) Perform a prelaunch check using all four channels simultaneously reading one sonde, look for reasonable data and no CRC error status lights, winds data is not expected. All AVAPS chassis status lights should be green.

**NORMAL LAUNCH NOTES:**

- When selecting a sonde frequency, select a frequency other than the default (if there is a default), and away from other sondes in use.
- Do not pull the Power Enable Pin during pre-launch setup until after the Umbilical is attached.
- If pre-launch is complete, and more than 5 minutes remain prior to launch, replace the power Enable pin until 5 minutes prior to launch.
- Don't put the sonde in the launch tube until you have removed the ribbon retaining tape.
- Don't put the sonde in the tube until you have selected **Begin Data Collection**, and verified good data (good winds data is not expected).

The Power Enable Pin must be removed for at least two minutes prior to launch to allow for the Sonde GPS Oscillator to warm up.



**NOAA/AOC/SED N49RF Flight Performance log - Hurricane 98**

N49RF Project: Hurricane 98 Project No 420 Flight No. 11 Flight ID: 980830N

SED Crew: Pradas, McNeimara, Hill Mission: Danielle

Pre-Flight: 1705 Z Take-Off: 1729 Z Landing: 0214 Z

SYSTEM		Pre-Flight Check		In-Flight	Post-Flight	
N A V	IRS #1	✓	GH			
	IRS #2	✓	GH			
	IRS #3					
	GPS Honeywell #1	✓	GH			
	GPS Honeywell #2	✓	GH			
	GPS Collins	✓	GH			Off? <input checked="" type="checkbox"/>
	Nose Radar -Collins					Off? <input checked="" type="checkbox"/>
	Time	Temp °C			Time	Temp °C
T E M P	Temp #1	1706	35.2	GH	0216	32.1
	Temp #2	↓	37.5	↓		32.8
	Temp #3	↓	35.1	↓		33.8
	Temp #4	↓	38.8	↓		31.4
	DP Left	↓	22.4	↓	Cal. Time:	22.7
	DP Right	↓	22.4	↓	Cal. Time:	22.6
P	Attack Angle (ADCAOA)	✓				
R	Slip Angle (BP/DBP)	✓				
E	Differential (PQ1/PQ2)	✓	↓			
S	Absolute (PS1/PS2)		1015.0/1015.4	GH		
S	Check Radome Press. Lines <input checked="" type="checkbox"/>		Date: 980827			
S	DOWN PRT-5 ⇨ Open? <input type="checkbox"/>		INOP	GH		Closed? <input type="checkbox"/>
Y	MADS (WINDS/DISCWIN)	✓	GH			# DATs: 1
S	MADS Printer ⇨ Paper? <input checked="" type="checkbox"/>		GH			Printer Power off? <input checked="" type="checkbox"/>
T	MADS Cal. Date: 08/18/98		QC time: 1709			QC time:
E	WINDS ⇨ NET BCAST <input checked="" type="checkbox"/>		GH			
M	HAPS System / Time set? <input checked="" type="checkbox"/>		JH			# Msg.: 33 # Fail: 1
S	AVAPS System / Time set? <input checked="" type="checkbox"/>		JCPB			
	AVAPS Printer ⇨ Paper? <input checked="" type="checkbox"/>					
	Exterior Walk Around <input checked="" type="checkbox"/>					
	Inspect DropSonde Chute Bolts		JCPB			
	Satcom (Flight Phone) <input checked="" type="checkbox"/>		GH			Off CB? <input checked="" type="checkbox"/>
	Call COMSAT? <input checked="" type="checkbox"/> (*292#)					
M	FCU/UPS/CB		CB's Checked? <input checked="" type="checkbox"/>			UPS off? <input checked="" type="checkbox"/>
I	AVAPS Sondes		# On Board: 100	# Dropped: 34		# Good: 32
S	AXBT		# On Board: 0	# Dropped:		# Good:
C	APN-232		GH			
	Modem Power On? <input checked="" type="checkbox"/>		GH			

1	DAT Tape #1	On: 1713	Type:	Off: 0219
2	DAT Tape #2	On: 1713	Type:	Off: 0219

**Comments:**