

FLT ID: <i>N980824</i>	FM: <i>TXKF</i>	TO: <i>KOPF</i>
FLT NO: <i>98-040</i>	BLK IN: <i>0250Z</i>	ATA: <i>0246Z</i>
ETD: <i>1730Z</i>	BLK OUT: <i>1726Z</i>	ATD: <i>1733Z</i>
ETE:	BLK TIME: <i>9:24</i>	FLT TIME: <i>9:13</i>
SPONSOR ORG: <i>NHL</i>	PROGRAM: <i>AURR. SURVEILLANCE</i>	PURPOSE: <i>H. BONNIE</i>

DAO PERSONNEL

AC <i>PLAYER</i>	SYS ENG <i>HILL</i>
CP <i>MAXSON, McCANN, FINKE</i>	DATA SYS <i>PRADAS-BERGUES</i> ✓
NAV	RADAR
FE <i>KITSON</i>	BT/ODW <i>HORN BROOK</i>
RADIO	CLD PHYS
FD <i>DAMIANO</i> ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<i>FRANKLIN</i> ✓	<i>HAB</i>	<i>HRD</i>
<i>WHITE</i> ✓	<i>M</i>	<i>AOL</i>

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

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: *N980824* TIME OFF: *1733Z* TIME ON: *0246Z*

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	<i>1017.2</i>	<i>30.07</i>	<i>1009.4</i>	<i>29.80</i>

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

~~GPS~~ *GPS*

33

29 messages

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

11 AM day start

G4 Hurricane Surveillance

Flight #04 N980824 (H. Bonnie)

DATA TYPE

SENSOR or OPTION

INE

VEW_PITR, VNS_PITR

Accelerometer

ACINS_PITR

Temperature Probe

AT2

Altitude (for vertical wind)

PALT

Static Pressure

PS1M

Dynamic Pressure

QC1M

Dewpoint Probe

DPRC

Notes:

There were no time gaps.

No dynamic corrections were applied to the measured static and dynamic pressures. Thus wind direction and wind speed may not be representative of actual flight level conditions.

Dropsonde data and event switch information ARE NOT on the tape.

Downward spikes in radar altimeter data are a result of overflying land.

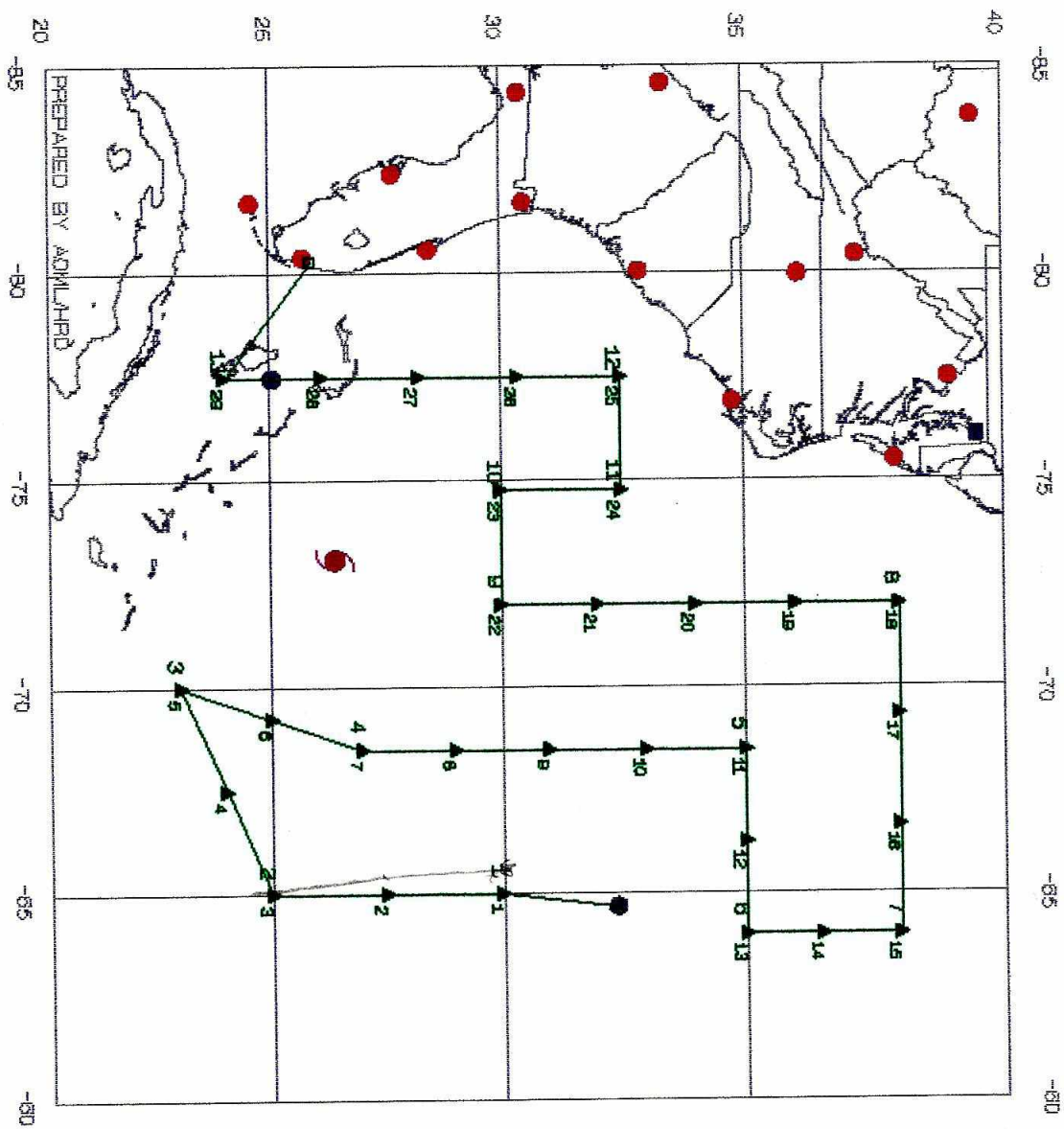
	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1017.2mb	1009.4mb
Corrected tower pressure	1017.2mb	1008.6mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073

N980824

m/s

TIME	LAT	LONG	TRK	H1	W1	WS	TA	TD	PA	GA	PS		PR
180148	2956	6500	180	181	289	10	-42.2	-49.2	10816	71389	233		104.9
181300	2916	6536	163	166	271	20	-58.6	-63.8	12567	13164	175.6	THN CLD	86.5
182729	2729	6500	175	183	277	20	-58.5	-62	12561	13159	175.7		89.5
184200	2537	6500	180	182	298	18	-57.7	-61.3	12561	13163	175.8	THN CLD	88.0
184748	2457	6509	243	249	310	24	-57.4	-62.6	12556	13174	175.9		89.6
185600	2434	6607	247	250	304	21	-57.1	-60.1	12555	13169	175.9	THN CLD	87.9
190747	2401	6732	247	248	289	14	-57.5	-58.4	12558	13178	175.9		87.4
191800	2331	6846	246	247	306	10	-55.9	-57.4	12558	13179	176.0	THN CLD	89.0
192835	2317	6854	19	17	350	6	-55.3	-58.8	12555	13184	176.0	NOFF	89.5
193008	2328	6850	19	17	6	7	-54.7	-57.6	12550	13191	176.0	NO W	87.2
193403	2354	6939	19	17	352	7	-54.5	-59.7	12551	13186	176.1	NO W	88.5
193806	2422	6929	19	16	336	10	-54.5	-59.7	12548	13187	176.1		87.8
195000	2544	6858	19	14	311	15	-55.7	-58.1	12549	13185	176.1	THN CLD	87.8
200122	2704	6830	0	356	281	12	-57.4	-59	12544	13184	176.0		88.4
201656	2700	6830	0	353	269	21	-57	-59.5	12547	13178	176.1		90.0
203000	3037	6830	0	354	271	19	-58.4	-62.5	12544	13160	176.2	BTN	87.3
203302	3100	6830	0	353	259	23	-58.6	-61.7	12542	13154	176.3		88.4
203700	out of cloud												
204909	3300	6830	0	353	269	22	-59.3	-68.9	12970	13562	163.6		82.2
210000	3419	6830	0	355	276	14	-61.3	-72.3	13128	13694	159.9		80.3
210631	3500	6814	90	90	243	9	-61.0	-72.8	13128	13682	159.9		80.5
211200	3500	6723	90	90	254	8	-61.5	-73.2	13125	13687	159.9	ATN	80.0
211847	3500	6620	90	89	261	9	-61.6	-73.4	13124	13687	159.9		80.3
212800	3500	6454	91	89	276	9	-62.0	-74.0	13128	13686	159.9		80.2
213450	3513	6400	0	354	290	19	-62.3	-73.7	13128	13689	159.8		79.4
214530	3630	6400	0	354	281	16	-61.9	-72.4	13128	13661	159.8		80.1
215908	3800	6417	271	269	264	24	-61.4	-72.3	13120	13638	160.1	NO W	79.9
220045	3800	6430	271	269	264	25	-61.1	-72.6	13124	13636	160.0		79.5
221618	3800	6640	270	267	253	24	-60.9	-72.8	13119	13636	160.1		80.4
223502	3800	6922	268	266	262	21	-60.0	-72.5	13124	13638	160.0		80.9
223638	3800	6949	269	267	265	26	-60.2	-72.6	13123	13628	159.9		79.3
225830	38	7191	186	190	253	26	-60.1	-73.1	13123	13648	159.9		79.1
231100	35.7	7200	180	182	241	18	-62.6	-74.8	13616	14272	145.1		73.1
232800	3358	7159	180	182	230	18	-64.1	-76.1	13695	14259	145.1		72.4
234500	3159	7155	180	183	238	22	-63.1	-76.6	13698	14333	145.0		72.9
000400	3000	7212	270	264	230	24	-65.0	-71.4	13694	14354	145.1		72.4
002420	3015	7441	000	354	252	17.5	-61.8	-72.8	13698	14333	145.1		73.0
004321	3230	7441	826	223	248	14.4	-62.0	-74.5	13656	14118	145.1		74.4
010200	3224	7230	179	179	231	6.1	-62.0	-75.0	13691	14313	145.2		73.2
011100	3118	7730	180	181	248	7	-62.4	-75.4	13688	14322	145.3		71.7
011830	3023	7730	180	180	223	6	-61.8	-74.9	13689	14325	145.3		72.9
013632	2815	7730	180	181	240	13	-62.9	-75.5	13686	14352	145.3		73.0
015425	2608	7730	180	183	250	20	-64.8	-76.3	13686	14370	145.4		72.0
020200	2514	7730	180	181	250	12	-65	-76.5	13686	14387	145.3		71.6
021003	2415	7730	180	181	257	7	-64.8	-76	13690	14392	145.2		71.9
022100	2443	7834	316	314	283	16	-63.4	-75.5	13282	13900	159.0		86.7



FLIGHT TRACKS BONNIE

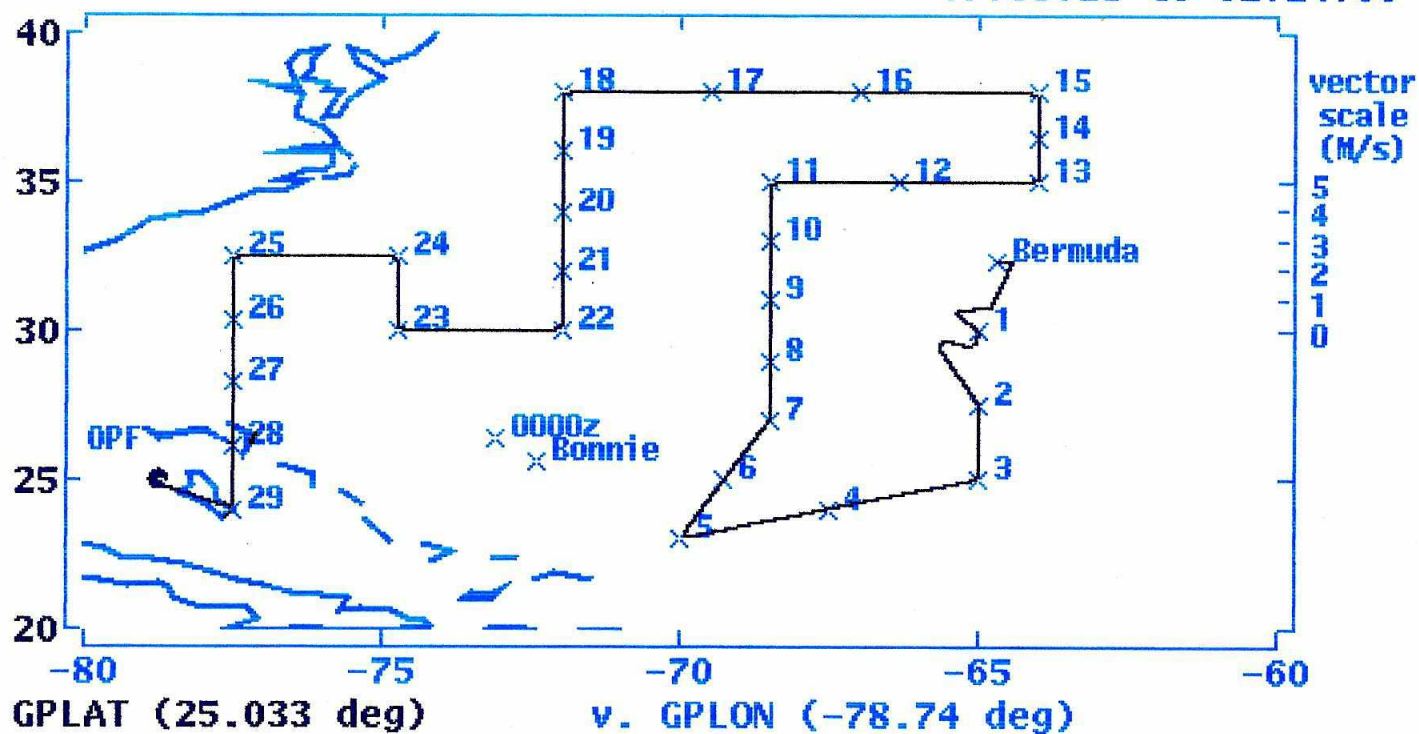
930824rp.fik

- RAWINSONDES 9304
- Regular
 - 12Z only
 - 00Z only
 - Infrequent
 - Infrequent - 00Z
 - Infrequent - 12Z

▲ DROP LOCATIONS

PREPARED BY ADMILHQB

'Std-Flight-Track' (winds@k2) Proj. 420 Flt 8 Aug-25-98 02:24:1
17:09:23 to 02:24:06



N49RF Hurricane 98 AVAPS DropSonde Log

N49RF Project: Hurricane 98 Flight ID: 980824N

Mission: 420 Bonnie Flight #: 8 System Status: O.K.

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	GOOD ☒
1	973840051	1801	1	-0.4	30	JCPB		✓
2	973840036	1827	2	-0.5	38	JCPB		✓
3	973840117	1847	3	-0.5	30	MSF	FINKE	✓
4	974540054	1907	4	+0.1	45	MSF		✓
5	973840071	1928	3	+0.4	—	MSF	NO WINDS! (FF)	
6	973840834	1930	4	+0.4	—	MSF	(PIN PULLED EARLY) SEE LOG NO WINDS! (UP TO 7 SATS)	
7	974510101	1934	1	+0.4	—	MSF	NO WINDS! TRACKING BUT (NO WINDS)	
8	974530087	1938	2	+0.1	55	MSF		✓
9	974540050	2001	3	+0.1	26	JCPB		✓
10	974530049	2017	1	-0.2	82	JCPB		✓
11	974510107	2033	2	+0.2	30	JCPB		✓
12	973730044	2049	3	±0.0	22	JCPB		✓
13	973840029	2106	1	-0.2	15	JCPB		✓
14	974740026	—	—	-0.2	—	—	? Battery - Not Dropped	
15	974530089	2118	4	-0.1	19	JCPB		✓
16	974530067	2134	1	±0.0	29	CH		✓
17	974510039	2145	2	+0.4	24	CH		✓
18	974530050	2159	1	+0.1	—	CH	No Winds / Fast Fall	
19	974510118	2200	3	+0.1	19	CH		✓
20	974530012	2216	1	+0.1	32	CH		✓
21	974530025	2235	1	-0.4	—	CH	No Winds / Fast Fall	
22	974530055	2236	2	+0.1	22	CH		
23	974510076	—	—	—	—	—	Bad Battery	
24	974530113	2255	1	+0.4	28	CH		✓
25	973720099	2311	2	±0.0	34	CH		✓
26	974510026	2328	1	-0.2	55	CH		✓
27	974510025	2345	2	0.0	45	CH		✓
28	974530038	0004	1	0.0	29	CH		✓
29	974730052	0024	1	-0.1	27	CH		✓
30	974730047	0043	1	+0.1	18	CH		✓
31	974530105	0103	2	+0.2	27	CH	Fluffed by JCPB	✓
32	973840018	0118	1	-0.3	27	CH		✓
33	974510030	0136	2	0.0	75	CH	Slow?	✓

F09/22/97

33 Sondes dropped (28 good - 5 bad) (3 dead batteries)

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	GOOD ☒
34	974 530 097	---					Dead B=Hery	
35	974 510 033	0154	1	+3	17	CH		✓
36	973 840 044	0210	2	-0.2	35	CH		✓
37								
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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. 8 Flight ID: 980824N
 SED Crew: ABD, JWH, JCPB, CFH Mission: Bonnie Surveillance
 Pre-Flight: 1630 Z Take-Off: 1733 Z Landing: 0246 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight		
N A V	IRS #1		✓ JCPB				
	IRS #2		✓				
	IRS #3		✓				
	GPS Honeywell #1		✓				
	GPS Honeywell #2		✓				
	GPS Collins	FM1	✓				
Nose Radar -Collins			↓		Off? ☒		
T E M P	Time	Temp °C			Time	Temp °C	
	Temp #1	1659	42.9	✓ JCPB		0248	29.09
	Temp #2		37.6	↓		↓	30.4
	Temp #3		39.06	↓		↓	29.7
	Temp #4		37.3	↓		↓	30.13
	DP Left		26.5		Cal. Time: —	↓	23.39
	DP Right		25.8	↓	Cal. Time: —	↓	23.010
P R E S S	Attack Angle (ADCAOA)		✓ JCPB				
	Slip Angle (BP/DBP)		✓				
	Differential (PQ1/PQ2)		✓ ↓				
	Absolute (PS1/PS2)		1017.6/1017.7 JCPB				
	Check Radome Press. Lines ☒		JCPB @ 980818				
S Y S T E M	DOWN PRT-5 ⇒ Open? ☐		N/D		Closed? ☐		
	MADS (WINDS/DISCWIN)		✓ JCPB		# DATs: 1		
	MADS Printer ⇒ Paper? ☒		✓ JCPB		Printer Pwr off? ☒		
	MADS Cal. Date: 980818		QC time: 1702 Z		QC time: 0246		
	WINDS ⇒ NET BCAST ☒		✓ JCPD				
	HAPS System / Time set? ☒		JWH		# Msg.: 28 # Attempts: 40		
S Y S T E M	AVAPS System / Time set? ☒		✓ JWH				
	AVAPS Printer ⇒ Paper? ☒		✓ CFH				
	Exterior Walk Around		✓ CFH				
	Inspect DropSonde Chute Bolts		✓ CFH				
M I S C	Satcom (Flight Phone)		✓ CFH		Off CB? ☒		
	Call COMSAT? ☐ (*292#)		✓ CFH				
	FCU/UPS/CB		CB's Checked? ☒		UPS off? ☒		
	AVAPS Sondes		# On Board: 120	# Dropped: 33	# Good: 28		
	AXBT		# On Board: —	# Dropped: —	# Good: —		
	APN-232		✓ JCPB				
	Modem Power On? ☒		JCPB				

1	DAT Tape #1		On: 1658 Z	Off: 0251
2	DAT Tape #2		On:	Off:
Comments: <u>James Franklin would like a winds display in ICARUS</u>				

NOAA/AOC/SED N49RF Flight Performance log – Hurricane 98

N49RF Project: Hurricane 98 Project No 420 Flight No. 8a Flight ID: 980825H

SED Crew: JCPB, JWH, CFH Mission: Ferry → SAVANNAH

Pre-Flight: 1700 Z Take-Off: 1703 Z Landing: 1807 Z

SYSTEM			Pre-Flight Check		In-Flight		Post-Flight	
		IRS #1		JCPB				
N		IRS #2						
A		IRS #3						
V		GPS Honeywell #1						
		GPS Honeywell #2						
		GPS Collins						
		Nose Radar -Collins		↓			Off? ☒	
			Time	Temp °C			Time	Temp °C
		Temp #1	1639	36.99	JCPB			
T		Temp #2		37.78				
E		Temp #3		35.54				
M		Temp #4		40.704				
P		DP Left		22.047		Cal. Time:		
		DP Right	↓	24.132	↓	Cal. Time:		
P		Attack Angle (ADCAOA)		✓ JCPB				
R		Slip Angle (BP/DBP)		✓ JCPB				
E		Differential (PQ1/PQ2)		✓ JCPB				
S		Absolute (PS1/PS2)		1008.2/1008.8				
S		Check Radome Press. Lines ☒		JCPB @ 980818				
S		DOWN PRT-5 ⇒ Open? ☒		N/A			Closed? ☒	
Y		MADS (WINDS/DISCWIN)		✓			# DATs: 1	
S		MADS Printer ⇒ Paper? ☒		✓			Printer Pwr off? ☒	
T		MADS Cal. Date: 980818		QC time: 1636			QC time: 1809	
E		WINDS ⇒ NET BCAST ☒		✓				
M		HAPS System / Time set? ☒		JF			# Msg.: — # Attempts: —	
S		AVAPS System / Time set? ☒		CFH				
		AVAPS Printer ⇒ Paper? ☒		CFH				
		Exterior Walk Around		✓				
		Inspect DropSonde Chute Bolts		CFH				
		Satcom (Flight Phone)		—			Off CB? ☒	
		Call COMSAT? ☐ (*292#)		—				
M		FCU/UPS/CB		CB's Checked? ☒ JCPB			UPS off? ☒	
I		AVAPS Sondes		# On Board: 83	# Dropped: —		# Good: —	
S		AXB T		# On Board: —	# Dropped: —		# Good: —	
C		APN-232		✓ JCPB				
		Modem Power On? ☒		✓ JCPB				

1	DAT Tape #1		On: 1635	Off: 1811
2	DAT Tape #2		On:	Off:
Comments:				

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

N49RF Project: Hurricane 98 Project No 420 Flight No. 8B Flight ID: 98 0826 NSED Crew: Hill, Hornbush, Pradas Mission: Ferry to TampaPre-Flight: 1600 Z Take-Off: 1624 Z Landing: 1711 Z

SYSTEM			Pre-Flight Check		In-Flight		Post-Flight	
N A V	IRS #1		✓	<i>CP</i>				
	IRS #2		✓	<i>CP</i>				
	IRS #3		✓	<i>CP</i>				
	GPS Honeywell #1		✓	<i>CP</i>				
	GPS Honeywell #2		✓	<i>CP</i>				
	GPS Collins		✓	<i>CP</i>				
Nose Radar -Collins							Off? ☐	
		Time	Temp °C				Time	Temp °C
T E M P	Temp #1	<u>1607</u>	<u>32.1</u>	<i>CP</i>				
	Temp #2		<u>35.1</u>	<i>CP</i>				
	Temp #3		<u>32.5</u>	<i>CP</i>				
	Temp #4		<u>36.5</u>	<i>CP</i>				
	DP Left	↓	<u>21.6</u>	<i>CP</i>	Cal. Time: <u>---</u>			
	DP Right	↓	<u>21.8</u>	<i>CP</i>	Cal. Time: <u>---</u>			
P	Attack Angle (ADCAOA)	✓		<i>CP</i>				
R	Slip Angle (BP/DBP)	✓		<i>CP</i>				
E	Differential (PQ1/PQ2)	✓		<i>CP</i>				
S	Absolute (PS1/PS2)			<i>CP</i>				
S	Check Radome Press. Lines ☒		<u>980818</u>	<i>CP</i>				
S	DOWN PRT-5 ⇨ Open? ☐		<u>N/A</u>	<i>CP</i>			Closed? ☒	
Y	MADS (WINDS/DISCWIN)	✓		<i>CP</i>			# DATs: <u>1</u>	
S	MADS Printer ⇨ Paper? ☒			<i>CP</i>			Printer Pwr off? ☒	
T	MADS Cal. Date: <u>8/18/98</u>			<i>CP</i>	QC time: <u>1610</u>	<u>1645 QC</u>	QC time: <u>1712</u>	
E	WINDS ⇨ NET BCAST ☒		<u>N/A</u>	<i>CP</i>				
M	HAPS System / Time set? ☐		<u>N/A</u>	<i>CP</i>			# Msg.: <u>0</u> # Attempts: <u>0</u>	
S	AVAPS System / Time set? ☐		<u>N/A</u>	<i>CP</i>				
	AVAPS Printer ⇨ Paper? ☒			<i>CP</i>				
	Exterior Walk Around			<i>CP JCPB</i>				
	Inspect DropSonde Chute Bolts			<i>JCPB</i>				
	Satcom (Flight Phone)		<u>N/A</u>				Off CB? ☒	
	Call COMSAT? ☐ (*292#)		<u>N/A</u>					
M	FCU/UPS/CB			CB's Checked? ☐ <u>N/A</u>			UPS off? ☒	
I	AVAPS Sondes			# On Board: <u>85</u>	# Dropped: <u>05</u>		# Good: <u>---</u>	
S	AXBT			# On Board:	# Dropped:		# Good: <u>---</u>	
C	APN-232		<i>CP</i>					
	Modem Power On? ☐		<u>N/A</u>					

1	DAT Tape #1	On: <u>1605</u>	Off: <u>1714</u>
2	DAT Tape #2	On:	Off:
Comments:			