

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

FLT ID: 990830N	FM: KPD	TO: KMIA / NMCF
FLT NO:	BLK IN: 0201/0336	ATA: 0155/0328
ETD: 1730Z	DLK OUT: 1752/0247	RTD: 1801/0255
ETE: 8	BLK TIME: 8:09/0:51 (8.1) (0.8)	FLT TIME: 7:54/0:33 (7.9) (0.3)
SPONSOR ORG: OHe	PROGRAM: Surveillance	PURPOSE: N. Dennis

OAO PERSONNEL

AC Maxson	SYS ENG Pradas-Beynes 1/2
CP Finke ✓	DATA SYS
Yates ✓	RADAR
Kirtson	BT/ODW Sun. H. ✓
White ✓	CLD PHYS
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Goldenberg, S. ✓ *	14APs	14AP
Dorst, D. ✓ *	↓	↓

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

Flg 8-hr drop mission to MIA, working NE, SE of Dennis.

2605A Drops

Flakey wind ~ 5min before drop 14. N.D.

26/24 7+ 22 Drops, 20 msg's sent

29.92

340/14

27/22

1011.7

T.O. ATIS

16542

040114

21/8

30.15

21/10

1017.5

35/8

Reported at MIA

990830N N. DENNIS DVD-MIA-MCF

Time	Lat	Lon	Tk	WD	WS	PA	GA	TA	TB	PS					
1752	4143.9	7155.5				-142		27	7	1018.4	Block out				
1801	OFF														
1810	4100	7135	189	33	18	4863	4725	-0.8	-33	535	1				
182741	3900	7150	~	244	29.7	11414	10965	-42	-41	827	Drop 1	No winds			
182917	3900	7130		250	34	11639	11178	-44	-		Drop 1A				
184035	3901	6929	90	260	40	13084	12568	-57	-56		Drop 2	Late winds			
184520	3901	6833	90	262	42	13082	12569	-57.6	-56		Drop 2A				
185341	3855	6702	~	258	42	13076	12562	-56.8	-57	125.7	Drop 3				
191410	3632	6704	~	240	33	13154	12559	-57	-58	175.8	Drop 4				
193121	3630	6923	270	233	32	13165	12560	-55.8	-52.5		Drop 5				
194810	3625	7142	~	208	27	13162	12555	-54.7	-56.5	175.8	Drop 6				
200402	3402	7139	~	176	6.9	13196	12559	-54	-57	175.8	Drop 7				
202355	3400	6922		278	9.9	13206	12553	-56	-56	175.9	Drop 8				
203921	3354	6702	~	208	8.4	13219	12550	-56	-64.5	176.0	Drop 9				
205901	3132	6704	~	194	12.9	13226	12551	-57.5	-65.3	175.9	Drop 10				
211850	3130	6953	271	190	12	13829	13139	-60.9	-66.4	159.5	Drop 11				
213912	3130	7245	270	256	11.7	13823	13140	-60.3	-65.9	159.5	Drop 12				
220014	3130	7538	270	224	16	13817	13138	-60.4	-65.8	159.6	Drop 13				
224047	3126	7826	~	185	17.8	13804	13139	-59.6	-67.6	159.5	Drop 14				
224029	2902	7824	~	146	10.8	13810	13136	-60.9	-67.8	159.6	Drop 15				
230130	2902	7541	90	49	9	13811	13137	-63.0	-67.8	159.6	Drop 16				
231430	2902	7358	90	50	15	13830	13166	-62.9	-68	159	Drop 17				
234820	2854	6932	~	128	17	14408	13709	-68	-72	144.8	Drop 18				
000917	2632	6937	~	135	16	14378	13708	-67	-70	144.8	Drop 19				
003350	2632	7301	270	176	9	14374	13706	-68	-69	144.8	Drop 20				
005521	2629	7600	249	122	10.7	14375	13704	-67.5	-70	144.9	↓				
011045	2535	7255	242	147	8.8	12601	11955	-53	-65	194	↓				
012645	2504	7939	268	173	9	3215	3029	-10	3.5	693	↓				

Out 2548.4 8017.5 33.5 22.8 1012.6 Out MIA

N49RF Hurricane 99 / AVAPS DropSonde Log

N49RF Project: HURR 99

Flight ID: 990830N

Mission: Dennis

Flight #: 11

System Status: ✓ JAS

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	992 435 027	1	1827	0.6	—	JAS	NO WINDS-PI collected	B
2	992 435 207	2	1829	0.4	30		BACKUP	✓
3	992 435 227	3	1840	0.3	26		Poor Int. WINDS missed 40 mb	✓
4	992 435 226	+	1845	0.3	30		FOAM! - BACKUP	✓
5	992 435 058	2	1853	0.6	22			✓
6	992 435 015	1	1914	0.3	14			✓
7	992 435 053	1	1931	0.6	10			✓
8	992 435 205	1	1948	0.4	23			✓
9	992 435 219	1	2009	0.5	35			✓
10	991 845 318	2	2024	.3	21			✓
11	991 845 317	1	2039	.3	23		Some bogus time	✓
12	992 435 059	1	2059	.5	80			✓
13	992 435 012	1	2119	.4	20	JCPB	Rebooted syst.	✓
14	992 435 223	1	2139	0.4	16			✓
15	992 435 024	1	2200	0.5	31			✓
16	992 435 222	1	2220	0.6	12			✓
17	992 435 221	1	2241	0.3	21			✓
18	992 435 222	1	2314	0.6	18			✓
19	992 435 229	1	2348	0.5	51			✓
20	991 515 074	1	0009	0.6	14		slow fail	✓
21	991 845 320	1	0034	1.2	26			✓
22	991 845 304	1	0055	0.5	37			✓
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								

P1 DATA COLLECTED FROM CH#1

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurricane 99 Project No. 430 Flight No. 11 Flight ID: 990830N
 SED Crew: JCPB, J Smith Mission: Hv. Dennis
 Pre-Flight: 1630 Z Take-Off: 1800 Z Landing: 0330 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		✓		Off? ☒		
Nose Radar -Collins			✓ ↓		Off? ☒		
T E M P		Time	Temp °C		Time	Temp °C	
	Temp #1	16:40	22.2	JCPB	-60.2	0332	29.9
	Temp #2		22.5		-59.6		29.6
	Temp #3		22.06		-59.5		29.07
	Temp #4		24.5		-59.0		30.58
	DP Left		7.15		Cal. Time: -70.7		23.971
	DP Right	✓	6.87	✓	Cal. Time: -71.7	✓	23.560
P R E S	Attack Angle (ADCAOA)		✓	3.9°			
	Slip Angle (BPx/DxPx)		✓	428/430 534/565			
	Differential (PQ1/PQ2)		✓	80.1/78.7			
	Absolute (PS1/PS2)		1019.5/1019.2	159.6/161.5			
	Check Radome Press. Lines ☒		Date: 8/26/99				
S Y S T E M	DOWN PRT-5 ⇒ Open? ☐		N/U		Closed? ☐		
	MADS (WINDS/DISCWIN)		✓	✓	# DATs:		
	MADS Printer ⇒ Paper? ☒		✓		Printer Power off? ☒		
	MADS Cal. Date: 8/24/99		QC time: 1646	2213	QC time: 0208		
	WINDS ⇒ NET BCAST ☒		JCPB				
	HAPS System / Time set? ☐		HRD-Goldberg		# Msg.: 20 # Fail: 0		
	AVAPS System / Time set? ☐		✓ JAS				
	AVAPS Printer ⇒ Paper? ☐		✓ JAS				
	Exterior Walk Around ☒		✓ JCPB				
Inspect DropSonde Chute Bolts		✓ JAS					
M I S C	Satcom (Flight Phone) ☒		✓ JCPB		Off CB? ☒		
	Call COMSAT? ☐ (*292#)		✓				
	FCU/UPS/CB		CB's Checked? ☒ JCPB		UPS off? ☒		
	AVAPS Sondes		# On Board: 77	# Dropped: 22	# Good: 21		
	AXBT		# On Board:	# Dropped:	# Good:		
	APN-232		✓ JCPB				
	Modem Power On? ☒		✓ JCPB				

1	DAT Tape #1	On: 164431Z	Type: V60	Off: 0332
2	DAT Tape #2	On:	Type:	Off:
Comments:				

FLIGHT TRACKS XXXX

990130np.fk

- Reg itel
- 112Z only
- 00Z only
- ▬ Infrequent
- ▬ Infrequent - 00Z
- ▬ Infrequent - 12Z

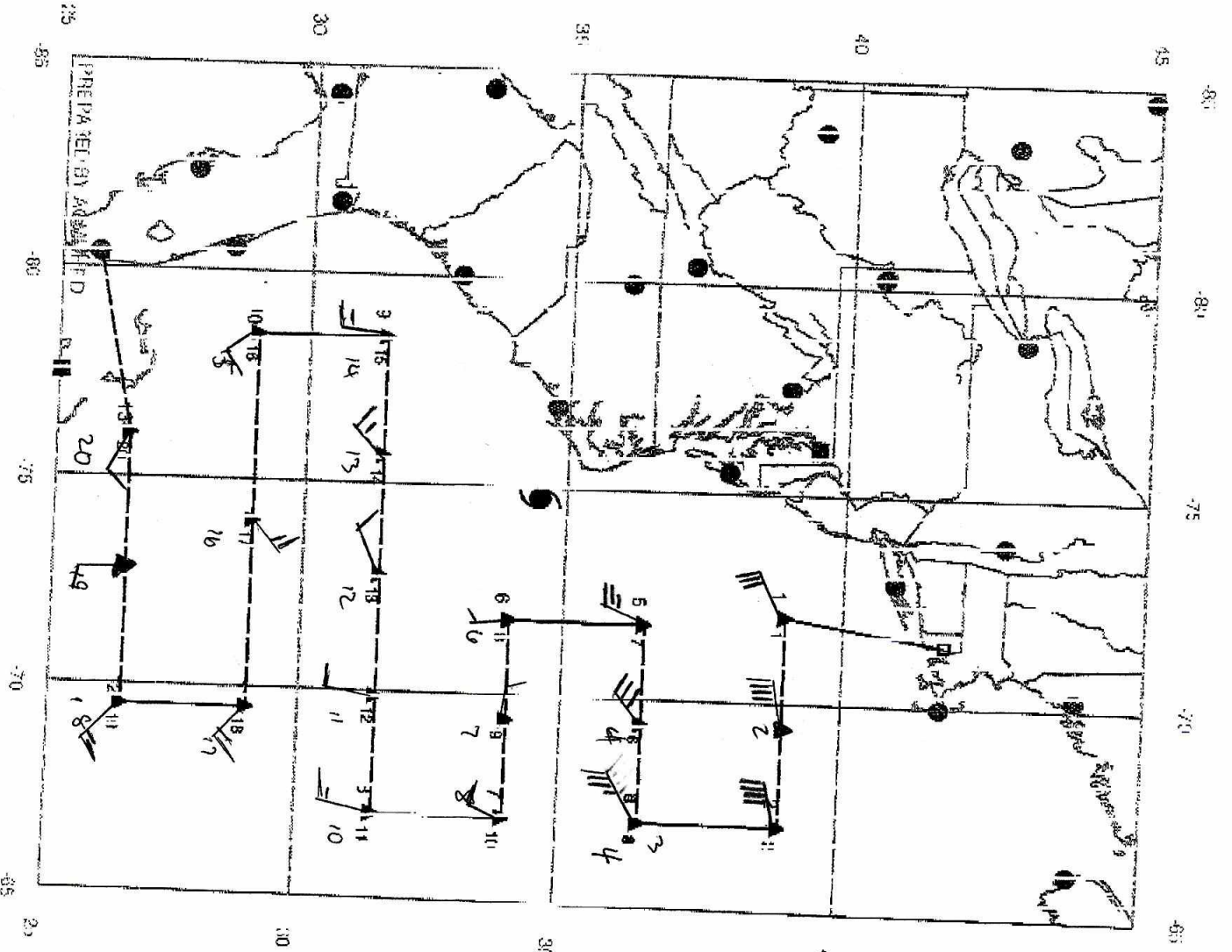
4.1 mi/s

17552
34 21
08 19
96 20
20102

7 085

11

▲ ECP LOCATIONS



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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX

Prepared by the Hurricane Research Division at 12:04:57 AM on 08/30/99.
 File: 990830np.itk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 30/1730Z
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TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEC (nm)	TOTAL (nm)	TIME (hh:mm)
0	PROVIDENCE					
1	39 00	72 00		0.	0.	0:00
2	39 00	67 00		166.	166.	0:33
3	36 30	67 00		234.	400.	1:04
4	36 30	67 00		150.	550.	1:25
5	26 30	71 45		0.	550.	1:35
6	34 00	71 45		229.	779.	1:56
7	34 00	67 00		150.	930.	2:16
8	31 30	67 00		237.	1166.	2:48
9	31 30	78 30		150.	1317.	3:09
10	29 00	78 30		589.	1906.	4:29
11	29 00	69 30		150.	2056.	4:49
12	26 30	69 30		473.	2529.	5:53
13	26 30	76 00		150.	2679.	6:14
14	MIAMI			350.	3029.	7:01
				235.	3264.	7:43

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX

Prepared by the Hurricane Research Division at 12:04:57 AM on 08/30/99.
File: 990830np.ftk

Aircraft: N49RT Altitude: FL410-450 Proposed takeoff: 30/1730Z

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DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)	
1	39 00	72 00		0:33	1 39 72.0
2	39 00	67 00		1:04	→ 2 39 69.5
3	36 30	67 00		1:25	3 39 67
4	36 30	67 00	69 30	1:25	4 36 30 67 00
5	36 30	67 00	72 00	1:25	5 36 30 69 23
6	36 30	69 23		1:40	6 36 30 71 45
7	36 30	71 45		1:50	7 34 00 71 45
8	34 00	71 45		2:16	8 34 00 69 23
9	34 00	69 23		2:32	9 34 00 67 00
10	34 00	67 00		2:48	10 31 30 67 00
11	31 30	67 00		3:09	11 31 30 69 53
12	31 30	69 53		3:29	12 31 30 72 45
13	31 30	72 45		3:49	13 31 30 75 38 2209
14	31 30	75 38		4:09	14 31 30 78 30
15	31 30	78 30		4:29	15 29 00 78 30
16	29 00	78 30		4:49	16 29 00 74 00
17	29 00	74 00		5:21	17 29 00 69 30
18	29 00	69 30		5:53	18 26 30 69 30
19	26 30	69 30		6:14	19 26 30 73 00
20	26 30	76 00		7:01	20 26 30 76 00