

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

FLT ID: 990827N	FM: KMIA	TO: Bermuda
FLT NO: 99-44	BLK IN: 2345	ATA: 2330
ETD: 1730Z	DLK OUT: 1723	RTD: 1729
ETE: 6.5	BLK TIME: 6:22 (6.4)	FLT TIME: 6:01 (6.0)
SPONSOR ORG: JHC	PROGRAM: Surveillance	PURPOSE: H. Dennis

OAO PERSONNEL

AC Maxson ✓	SYS ENG Goldstein
CP McCann	DATA SYS Pradas-Burns ✓
NAV Yates ✓	RADAR
FE White -	BT/ODW Smith ✓
RADIO Kirtson	CLD PHYS
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Goldenberg, S. ✓	HAAPS	HAAD
Dorst, N.	↓	↓
GELMAN, B. ✓	Visitor	PTK

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

TXKF 32 2330, 64°38'N
 1056Z 34/24 1703Z 25 52 25.8, 76.2
 320/8 1008.8 75 53
 32/24
 29.85

000/17
 30.07
 TXKF

60/8
 29.7/22.7
 1016.3

Dropped 24 sondes S, E, OE of Dennis.
 All drops good.
 H.D.

2334
 26.1 76.2
 982

AF977

Time	LPT	LON	TR	WD	WS	GA	PA	TA	TD	PS					
1723	25 48	80 17					4.7	35.2	21.1						
173230	25 44	80 08	~	19	10	1504	1478	19	12	830		130010			
175015	23 59	79 15	156	27	10										
175431	23 30	78 58	126	31	10	9972	9494	-32	-43	350		Drop 1			
181058	22 31	77 00	~	19	17	13185	12577	-58	-61	175		Drop 2			
1825	23 00	75 15	70	40	14	13175	12515	-59	-55	175		Drop 3			
183413	23 26	73 29	343	340	16	13155	12521	-60	-46	175		Drop 4			
185624	25 20	73 09	357	261	21	13173	12561	-60.3	-44	175		Drop 5			
191120	27 10	73 30	357	252	16	13184	12562	-58.5	-49	175		Drop 6			
192345	29 01	73 33	~	220	25	13182	12555	-59.3	-50.9	176		Drop 7			
193009	29 50	75 00	303	225	27	13182	12558	-58	-51	179		Drop 8			
195103	30 40	76 30	303	237	21	13159	12557	-58	-57	176		Drop 9			
200343	31 31	77 53	~	265	19	13143	12561	-58	-58	175		Drop 10			
202024	32 57	75 57	~	268	78	13131	12559	-58	-58	176		Drop 11			
20344	32 10	74 29	123	161	3.4	13148	12559	-59	-57	176		Drop 12			
204434	31 20	73 00	123	225	16	13165	12555	-58	-54	175.9		Drop 13			
205621	30 33	71 29	~	275	20	13178	12556	-58.9	-56.2	175.8		Drop 14			
21318	32 00	69 36	~	283	22	13750	13142	-63.4	-63.2	159.4		Drop 15			
212602	32 50	71 00	304	256	26	13764	13144	-63.7	-62.8	159		Drop 16			
213911	33 40	72 30	304	251	26	13741	13141	-63	-62	160		Drop 17			
215143	34 32	73 54	~	250	19	13717	13150	-62.6	-63	159.4		Drop 18			
220744	35 56	71 58	~	230	9	13705	13142	-62.2	-63.8	159.7		Drop 19			
221932	35 00	70 40	132	190	11	13730	13142	-63	-63	159.5		Drop 20			
223145	34 00	69 20	131	204	7.9	13755	13145	-62.75	-62.85	159.4		Drop 21			
224338	33 08	68 00	~	293	7.7	13766	13145	-64.2	-63	159.3		Drop 22			
225800	34 52	67 26	~	190	5	13757	13149	-64.2	-63.5	159		Drop 23			
231201	33 40	66 05	137	138	6	13755	13144	-64	-64	159		Drop 24			

N49RF Hurricane 99 / AVAPS DropSonde Log

N49RF Project: HURRICANE 99

Flight ID: 990827I

Mission: DENNIS

Flight #: _____

System Status: ✓

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	991835041	1	1754	Ø	27	JAS	*	✓
2	991835085	4	1811	Ø	25	JAS	*	✓
3	991835088	2	1825	Ø	65	JAS	(SONDE) MISSING SCREWS	✓
4	992435156	1	1839	Ø	50	JAS	*	✓
5	992435152	1	1856	Ø	46	JAS	*	✓
6	992435019	2	1911	Ø	38	JAS		✓
7	992435056	1	1925	Ø	17	JAS	*	✓
8	991828072	2	1938	Ø	29	JAS		✓
9	991835019	1	1951	Ø	13	ASG	(SONDE) MISSING SCREWS *	✓
10	992435151	2	2003	Ø	29	ASG		✓
11	992435007	1	2020	+4	52	ASG	**	✓
12	992435009	2	2032	+4	39	ASG		✓
13	991835022	1	2044	Ø	58	ASG	** WEAK TELEMETRY @ LOW ALTITUDE	✓
14	992435148	2	2056	+4	62	ASG		✓
15	991835042	1	2113	Ø	20	ASG	*	✓
16	992435038	2	2126	+5	21	ASG		✓
17	992435149	1	2139	+3	16	JCPB		✓
18	991835097	2	2151	Ø	24	JCPB		✓
19	991828070	1	2207	0.6	29	JCPB		✓
20	992435040	2	2219	0.3	32	JCPB		✓
21	992435057	1	2231	0.4	12	JCPB		✓
22	991828071	2	2243	0.6	28	JCPB		✓
23	991835074	1	2258	0.3	24	JCPB		✓
24	991835023	2	2312	0.8	26	JCPB		✓
25								
26								
27								
28								
29								
30								
31								
32								
33								

* PI DATA FROM CHANNEL #1
 ** LOOK @ PI DATA

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurricane 99 Project No. 430 Flight No. 8 Flight ID: 990827N
 SED Crew: Smith, JCPB, Goldstein Mission: Hur Dennis
 Pre-Flight: 1630 Z Take-Off: Z Landing: 2330 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight	
NAV	IRS #1		✓ JCPB			
	IRS #2		✓			
	IRS #3		✓			
	GPS Honeywell #1		✓			
	GPS Honeywell #2		✓			
	GPS Collins		✓		Off? ☒	
Nose Radar -Collins					Off? ☒	
TEMP	Time	Temp °C			Time	Temp °C
	Temp #1	1637	36.98	✓ JCPB		
	Temp #2		35.319	✓		
	Temp #3		34.99	✓		
	Temp #4		36.38	✓		
	DP Left		23.04	✓	Cal. Time:	
	DP Right	✓	22.61	✓	Cal. Time:	
PER	Attack Angle (ADCAOA)		✓			
	Slip Angle (BPx/DxPx)		✓			
	Differential (PQ1/PQ2)		✓			
	Absolute (PS1/PS2)		1011.3/1011.3			
	Check Radome Press. Lines ☒		Date: 08/26/99			
SYSTEM	DOWN PRT-5 ⇒ Open? ☐		NU		Closed? ☐	
	MADS (WINDS/DISCWIN)		✓ JCPB		# DATs:	
	MADS Printer ⇒ Paper? ☒		✓ JCPB		Printer Power off? ☐	
	MADS Cal. Date: 8/24/99		QC time: 1640		QC time:	
	WINDS ⇒ NET BCAST ☒		JCPB			
	HAPS System / Time set? ☒		✓ AS/C		# Msg.:	# Fail:
SYSTEM	AVAPS System / Time set? ☒		✓ JAS			
	AVAPS Printer ⇒ Paper? ☒		JCPB			
	Exterior Walk Around ☒		✓ JCPB			
	Inspect DropSonde Chute Bolts		✓ JCPB			
	Satcom (Flight Phone) ☒		✓ JCPB		Off CB? ☒	
	Call COMSAT? ☒ (*292#)		JCPB			
MISC	FCU/UPS/CB		CB's Checked? ☐		UPS off? ☒	
	AVAPS Sondes		# On Board: 179	# Dropped: 24	# Good: 24	
	AXBT		# On Board: —	# Dropped:	# Good: —	
	APN-232		✓ JCPB			
	Modem Power On? ☐		✓ JCPB			

1	DAT Tape #1	On: 1639	Type: V60	Off: 234550
2	DAT Tape #2	On: —	Type: #	Off: —/2344
Comments:				

FLIGHT TRACKS DENNIS

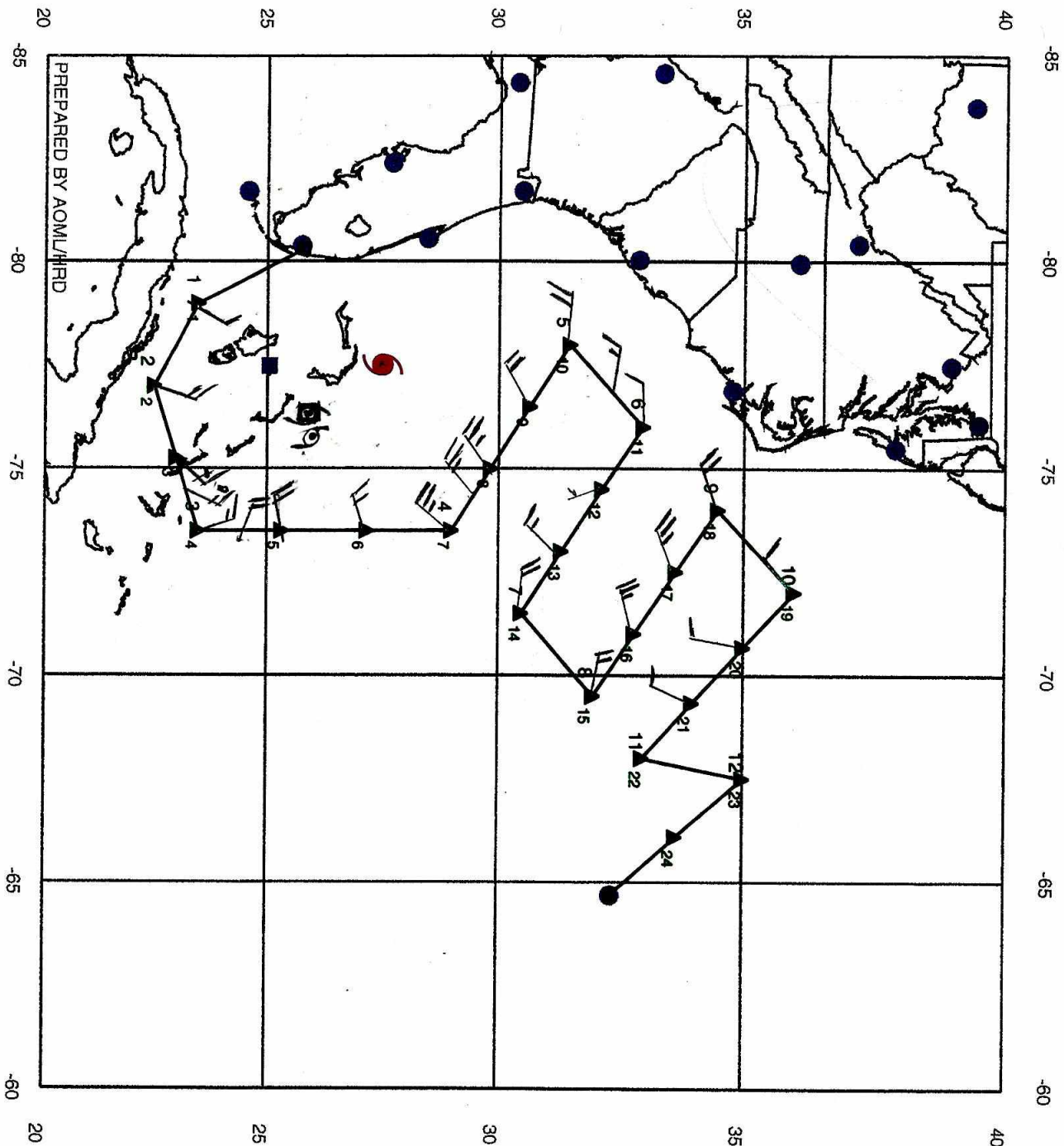
990827n.tlk

RAWINSONDES 9809

- Regular
- 12Z only
- 00Z only
- Infrequent
- Infrequent - 00Z
- Infrequent - 12Z

▲ DROP LOCATIONS

1703
25 52
75 53
981
991 mb
69



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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: DENNIS

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Prepared by the Hurricane Research Division at 03:54:56 PM on 08/26/99.
File: 990827n.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 27/1730Z

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DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	23 30	79 00		0:31
2	22 30	77 00		0:48
3	23 00	75 15		1:02
4	23 30	73 30		1:16
5	25 20	73 30		1:31
6	27 10	73 30		1:46
7	29 00	73 30		2:01
8	29 50	75 00		2:13
9	30 40	76 30		2:26
10	31 30	78 00		2:38
11	33 00	76 00		2:57
12	32 10	74 30		3:09
13	31 20	73 00		3:21
14	30 30	71 30		3:34
15	32 00	69 30		3:53
16	32 50	71 00		4:05
17	33 40	72 30		4:17
18	34 30	74 00		4:29
19	36 00	72 00		4:47
20	35 00	70 40		5:00
21	34 00	69 20		5:12
22	33 00	68 00		5:24
23	35 00	67 30		5:41
24	33 41	66 05		5:55

Handwritten notes: 73 09, 1956, 2104, 2310, 2259

Handwritten signature: [Signature]

Handwritten circled number: 7

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: DENNIS

Prepared by the Hurricane Research Division at 03:54:56 PM on 08/26/99.
File: 990827n.ftk

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TRACK DISTANCE TABLE

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#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MIAMI			0.	0.	0:00
1	23 30	79 00		155.	155.	0:31
2	22 30	77 00		126.	281.	0:48
3	23 30	73 30		203.	483.	1:16
4	29 00	73 30		331.	814.	2:01
5	31 30	78 00		278.	1092.	2:38
6	33 00	76 00		136.	1228.	2:57
7	30 30	71 30		275.	1502.	3:34
8	32 00	69 30		137.	1639.	3:53
9	34 30	74 00		272.	1910.	4:29
10	36 00	72 00		133.	2044.	4:47
11	33 00	68 00		268.	2312.	5:24
12	35 00	67 30		123.	2434.	5:40
13	BERMUDA			212.	2647.	6:19

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Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 27/1730Z

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DROP LOCATIONS

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#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	23 30	79 00		0:31
2	22 30	77 00		0:48
3	23 00	75 15		1:02
4	23 30	73 30		1:16
5	25 20	73 30		1:31
6	27 10	73 30		1:46
7	29 00	73 30		2:01
8	29 50	75 00		2:13
9	30 40	76 30		2:26
10	31 30	78 00		2:38
11	33 00	76 00		2:57
12	32 10	74 30		3:09
13	31 20	73 00		3:21
14	30 30	71 30		3:34
15	32 00	69 30		3:53
16	32 50	71 00		4:05
17	33 40	72 30		4:17
18	34 30	74 00		4:29
19	36 00	72 00		4:47
20	35 00	70 40		5:00
21	34 00	69 20		5:12
22	33 00	68 00		5:24
23	35 00	67 30		5:41
24	33 41	66 05		5:55

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