

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

FLT ID: 990825N	FM: TISX	TO: KMIA
FLT NO: 99-43	BLK IN: 0221	ATA: 0212
ETD: 1730Z	DLK OUT: 1721	RTD: 1730
ETE: 9	BLK TIME: 9100 (9.0)	FLT TIME: 8:42 (8.7)
SPONSOR ORG: DHC	PROGRAM: Surveillance	PURPOSE: Many T.S.s

OAO PERSONNEL

AC Maxson ✓	SYS ENG Pradas-Bergues ✓
CP McCann ✓	DATA SYS Goldstein ✓
NAV Gates ✓	RADAR
FE	BT/DDW Smith ✓
RADIO	CLD PHYS White ✓
FD Parrish ✓	DOPPLER K. Tson

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Goldenberg, S. ✓	HAPS	HRD
Kaplan, J. ✓	↓	↓

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
 NOAA9 0705A DENNIS Drop 20 sondes, first near Emily, then between
 1655Z We're freq band Delta. Dennis + Cindy.
 120/12 Est. center Emily 13 150, 55 10W. 2230Z. 2310Z
 30/25 Bad luck at 20 pt. 3 sondes near point 17 had no winds.
 29.97 Dropped 22 sondes, 3 had bad winds.
 32/23
 1010.8
 90/8

LAOD 36/4
 28/25 30.9/24
 29.92 1012.5

990825N T.S. Dennis, Emily, Cindi Flight

Time	LAT	CON	TK	WD	WS	PA	GA	TA	TD	B				
1221	17 42	64 47				52		37	23	1011.2	181K			
1734	17 34	64 38	172	112	5	3018	2800	11.5	-2	703	↑			
17445	16 31	64 13	154	108	9	7416	7090	-14.7	-25	403	↑			
1809	13 49	62 53	154	81	25	12944	12400	-60	-60	179			23 31	
181650	13 01	62 28	~	84	21	13130	12580	-62	-64	175	Drop 1		72 04	
191052	11 34	56 26	~	83	20	13127	12568	-60.6	-61	175.5	Drop 2		996	
19203	12 45	55 15	44	94	13	13135	12565	-59	-62	175.8	Drop 3		-54.6	
194050	14 04	54 05	~	105	13	13127	12558	-60	-62	175.9	Drop 4		-54.5	
19524	15 59	55 17	~	158	12	13126	12559	-59	-63	175	Drop 5			
201853	16 31	58 00	~	201	10	13136	12555	-60.2	-61.4	175.8	Drop 6			
202915	17 23	59 01	312	299	9.7	13141	12553	-59.6	-63.4	175.9	Drop 7			
204059	18 15	60 00	313	294	8	13141	12550	-59.26	-63.6	176	Drop 8			
210259	20 07	62 00	299	328	27	13724	13127	-65	-65	159.9	Drop 9			
212550	21 00	64 30	294	315	21.7	13737	13126	-65	-65	159.8	Drop 10			
214920	22 02	67 00	~	296	28.8	13741	13124	-66	-65		Drop 11			
220736	24 00	67 40	343	285	28	13747	13128	-65	-64	159.8	Drop 12			
222550	26 00	68 20	343	277	29	13755	13128	-64.6	-64.6	159.8	Drop 13			
224401	28 00	69 00	357	289	13	13741	13128	-65.5	-64.7	159.8	Drop 14			
230612	30 40	69 10	357	290	13.3	14307	13695	-68	-67	145.06	Drop 15			
232919	33 20	69 20		299	22						Drop 16			
235248	35 58	69 38	~	278	27	14258	13704	-68	-67	144.9	Drop 17			
001821	35 57	73 01	~	245	25	14279	13709	-69	-66	144.8	Drop 18			
001957	35 49	73 11	219	245	20	14275	13706	-68	-67	144.8	Drop 19			
002320	35 31	73 31	219	244	16						Drop 20			
003017	34 55	74 05	219	237	18.4	14293	13704	-69	-68	145	Drop 21			
004937	DATA	SYSTEM	STOPPED											
005816	32 40	76 36	213	220	12	14318	13706	-68	-67.8	144	Drop 22			
012046	30 30	78 13	212	212	13	14333	13710	-68	-66	145	Drop 23			
014145	28 15	79 16	199	211	8	13648	12925	-63	-67	148	↓			
020030	26 10	80 02	194	125	6.8	3519	3332	10.4	1.7	680	↓			
0221	25 48.4	80 17.5						30.2	22.3	1012.5	Block 10			

ALL NAD
BAD
WINDS

N49RF Hurricane 99 / AVAPS DropSonde Log

N49RF Project: HURRICANE 99

Flight ID: 990825N

Mission: EMILY / DENNIS

Flight #: _____

System Status: ✓

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD [X]
1	991835 047	1	1816	Ø	46	JAS		✓
2	991835 043	2	1910	Ø	46	JAS		✓
3	992 435 150	3	1925	Ø	31	JAS	Proble - instrument?	✓
4	992 435 155	4	1940	Ø	11	JAS		✓
5	992 435 110	1	1957	Ø.3	17	JAS		✓
6	991835 056	2	2018	Ø	20	JAS		✓
7	991 835 034	3	2040	-.5	16	JAS		✓
8	991 845 263	4	2102	.8	29	ASG		✓
9	992 435 166	1	2125	.3	55	ASG	PREMATURE SIG LOSS	B
10	991835 048	2	2149	-.2	34	ASG		✓
11	991 845 264	3	2207	-.5	27	ASG		✓
12	991 835 044	4	2225	-.5	18	ASG		✓
13	992 435 158	1	2243	.3	23	ASG		✓
14	991 835 055	2	2308	.3	17	ASG		✓
15	992 435 160	3	2329	.3	12	JCPB		✓
16	991 835 054	4	2352	.4	18	JCPB		✓
17	992 435 105	1	0018	.4	—	JCPB	NO WINDS!	B
18	991 828 075	2	0020	.6	—	JCPB	NO WINDS!	B
19	991 828 076	3	0023	.3	—	JCPB	NO WINDS!	B
20	991 835 035	5	0030	.3	53	JCPB		✓
21	992 435 134	4	0058	.5	32	JCPB		✓
22	991 835 014	1	0120	.3	33	JCPB		✓
23								
24								
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33								

N49RF Hurricane 99 / AVAPS DropSonde Log

N49RF Project: HURRICANE '99 Flight ID: 990526N

Mission: Inst. Flight Flight #: 0 System Status: ✓ JAS

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	990415327	2	1456	0	48	JAS	NO FOAM-GPS TELEPORT RETURN	✓
2	984325292	7	1511	0	50	JAS	No Foam	✓
3								
4								
5								
6								
7								
8								
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NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurricane 99 Project No. 430 Flight No. 7 Flight ID: 990825N
 SED Crew: Pradas, Smith, Goldstein Mission: ST Croix → Miami
 CINDY, EMILY, DENNIS
 Pre-Flight: 1600 Z Take-Off: 1730 Z Landing: 0212 Z

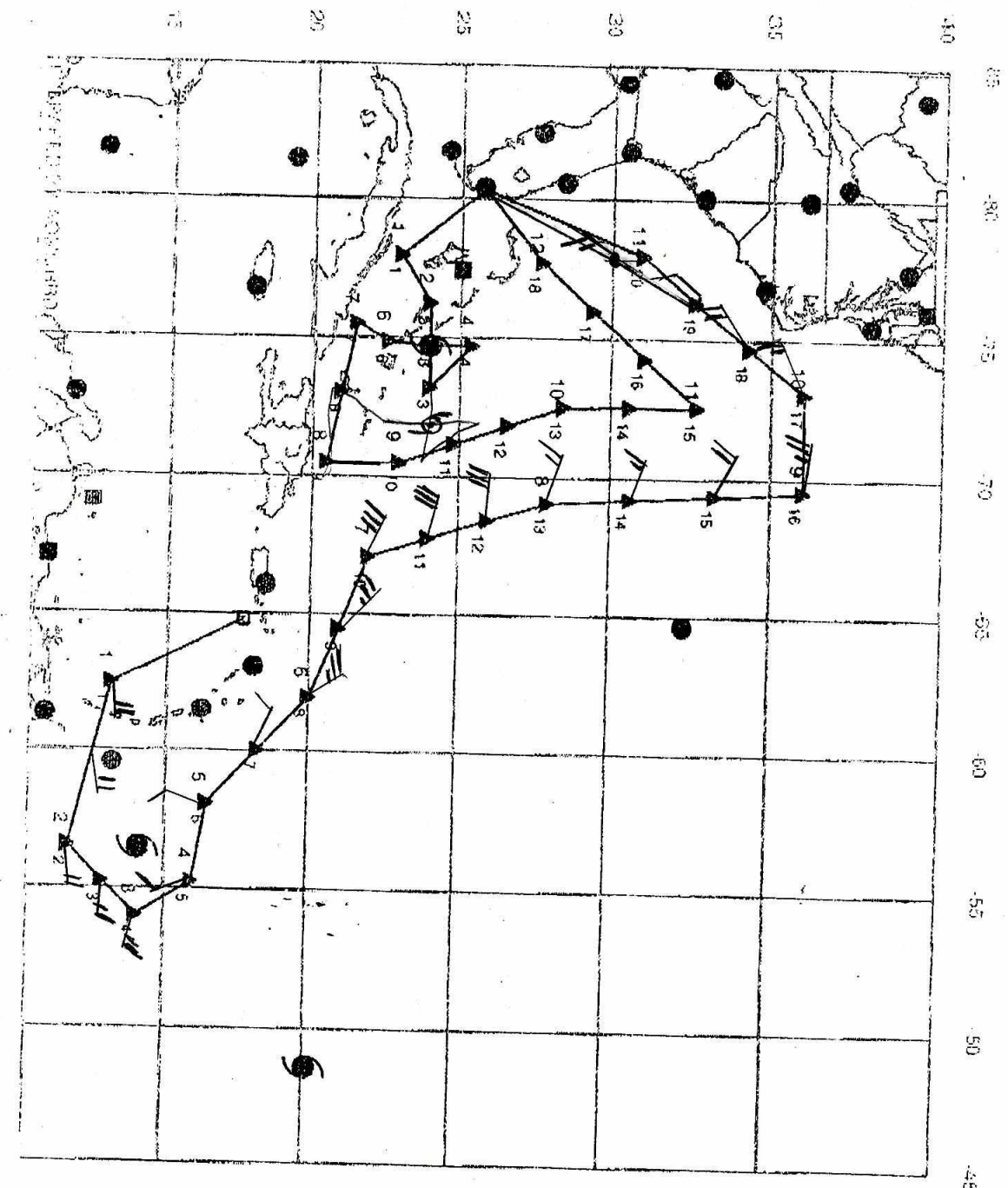
SYSTEM			Pre-Flight Check	In-Flight	Post-Flight	
N A V	IRS #1		✓ JN			
	IRS #2		✓			
	IRS #3		✓			
	GPS Honeywell #1		✓			
	GPS Honeywell #2		✓			
	GPS Collins		✓		Off? ☒	
Nose Radar -Collins			✓		Off? ☒	
T E M P	Time	Temp °C			Time	Temp °C
	Temp #1	1648	38.1	✓ JWS	0219	30.37
	Temp #2		34.8	✓		30.42
	Temp #3		34.4	✓		24.56
	Temp #4		35.5	✓		31.178
	DP Left		23.6	✓	Cal. Time:	23.249
		22.9	✓	Cal. Time:	23.383	
P R E S S	Attack Angle (ADCAOA)		✓			
	Slip Angle (BPx/DxPx)		✓			
	Differential (PQ1/PQ2)		✓			
	Absolute (PS1/PS2)		7013.4 / 1013.9			
	Check Radome Press. Lines ☒		Date: 7/13/99			
	DOWN PRT-5 ⇨ Open? ☐		NO / HI		Closed? ☒ — NI	
S Y S T E M	MADS (WINDS/DISCWIN)		✓	(1)	# DATs: 1	
	MADS Printer ⇨ Paper? ☒		✓		Printer Power off? ☒	
	MADS Cal. Date: 7/16/99		QC time: 1709		QC time: 0223	
	WINDS ⇨ NET BCAST ☒		✓			
	HAPS System / Time set? ☒		HRJ		# Msg.: # Fail:	
	AVAPS System / Time set? ☒		JAS			
M I S C	AVAPS Printer ⇨ Paper? ☒		JAS			
	Exterior Walk Around ☒		✓ JCPB			
	Inspect DropSonde Chute Bolts		✓ JCPB			
	Satcom (Flight Phone) ☒		✓ JCPB		Off CB? ☒	
	Call COMSAT? ☒ (*292#)		✓			
	FCU/UPS/CB		CB's Checked? ☐		UPS off? ☒	
AVAPS Sondes		# On Board: 121	# Dropped: 22	# Good: 4		
AXBT		# On Board: —	# Dropped: —	# Good: —		
APN-232						
Modem Power On? ☒		✓ JCPB				

1	DAT Tape #1	On: 1708	Type: V60	Off: 0225
2	DAT Tape #2	On:	Type:	Off:
Comments: Check BP2, DBP2 Repair/acquire new nose/tracker for R1/21				

Problem Description & Observations

N49RF N49RF

30.5 W
48.0 N



FLIGHT TRACKS XXXX

990825h.tlk
990825n.tlk

- RAWINSONDES 9907
- Regular
- 12Z only
- 00Z only
- Infrequent
- Infrequent - 00Z
- Infrequent - 12Z

SYNOPTIC LOCATIONS

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX

Prepared by the Hurricane Research Division at 07:11:00 AM on 08/25/99.
 File: 990825n.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 25/1730Z

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TRACK DISTANCE TABLE

#	LAT (d m)	LONG (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	ST CROIX			0.	0.	0:00
1	13 00	62 30		312.	312.	0:52
2	11 30	56 30		364.	676.	1:42
3	14 00	54 00		210.	886.	2:10
4	16 00	55 15		140.	1026.	2:29
5	16 30	58 00		162.	1188.	2:51
6	20 00	62 00		310.	1498.	3:33
7	22 00	67 00		305.	1804.	4:15
8	28 00	69 00		377.	2180.	5:06
9	36 00	69 30		482.	2662.	6:11
10	36 00	73 00		170.	2832.	6:34
11	31 00	78 00		391.	3223.	7:28
12	MIAMI			336.	3559.	8:23