

U.S. DEPT. COMM./NOAA/DAO - DATA SECTION WORK FORM NO.1 OROWF1 FILE

FLT ID: 990828D	FM: Bermuda (TXRF)	TO: MacDill (KMCF)
FLT NO: 99-45	BLK IN: 0205	ATA: 0156
ETD: 1730Z	DLK OUT: 1716	RTD: 1725
ETE: 9	BLK TIME: 8:49(8.8)	FLT TIME: 8:31(8.5)
SPONSOR ORG: DHC	PROGRAM: Surveillance	PURPOSE: A. Dennis...

DAO PERSONNEL

AC: Maxson ✓	SYS ENG: Goldstein
CP: McCann ✓	DATA SYS: Rodas-Bergner ✓
NAV: Yates ✓	RADAR:
FE: White ✓	BT/ODW: Smith ✓
RADIO: Kitson	CLD PHYS:
FD: Parrish ✓	DOPPLER:

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Goldstein, S. ✓	11APS	11AD
Dorset, D. ✓	↓	↓

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

0400/7 FLY BERMUDA-MCF, Drop 26 9000'S NE, SE, THEN W OF DEWIS.

30.03 1753 - Slight delay (circle) before ATC - 15 min delay.

30.5/23.3 Eiger relooked at 2010Z.

1014.5 28 drops, 3 bad (2 bad winds, 1 bad pressure).

35/10

330/11

32/24

1007

990828N H. DEODIS (BEAMUDA - MCF)

Time	LAT	LONG	TR	WD	WS	GA	PA	TA	TD	PS			
1716	32 21.8	64 42.2					~19	367	22.9	1015.5	1300K	OUT	
172645	32 22	64 34	~	2	10	1277	1235	19.8	11.2	862	↑		
173445	32 30	65 22	278	240	3.9	5566	5325	-2.8	-12.8	510	↑		
174615	32 41	67 00	277.8	207	17	980	8700	-27.3	-45	316	↑		
182155	33 04	69 57.5	~	284	31	13181	12577	-59	-62	175	Drop	1 ✓	
183645	34 50	70 00	0	275	39.6	13160	12573	-59.9	-59.6	175	Drop	2 ✓	
185138	36 46	69 59.9	0	263	49	13113	12563	-59.9	-59	175.6	Drop	3 ✓	
190607	38 27	70 05	~	254	42	13056	12562	-58.5	-62	175.7	Drop	4 ✓	
192346	38 26	72 26	~	241	28	13061	12564	-58.8	-65	175.4	Drop	5 ✓	
194043	36 30	72 30	180	240	39	13128	12561	-59	-62	176	Drop	6 ✓	
195821	34 30	72 30	186	242	29	13166	12556	-58.6	-58	175.8	Drop	7 ✓	
201532	32 30	72 32	~	277	19	13188	12559	-59.2	-57.3	175.6	Drop	8 ✓	
203224	31 33	74 27	~	232	29	13179	12558	-57	-56	175.9	Drop	9 ✓	
204845	33 21	75 10	~	225	32	13771	13138	-62	-61	175	Drop	10 ✓	
210315	32 15	76 30	226	221	27	13783	13137	-61	-61	159.7	Drop	11 ✓	
211902	31 00	77 53	~	147	25	13784	13137	-62	-56	159.4	Drop	12 ✓	
213529	29 59	76 00	146	169	11	13780	13144	-61	-57	159	Drop	13 ✓	
215418	28 00	75 00	173	201	13	13808	13128	-59.4	-59	159	Drop	14 ✓	
221238	25 45	75 00	180	40	5.4	13796	13129	-60.5	-61.7	159	Drop	15 ✓	
223012	23 30	75 00	179	58	20	13776	13140	-63.4	-62	159.6	Drop	16 ✓	
224715	21 20	75 06	~	31	21	14335	13709	-69.6	-66.6	144.8	Drop	17 ✓	
230749	22 31	77 27	~	1	10	14359	13707	-68	-64	144.2	Drop	18 ✓	
231608	23 27	77 34	~	15	8	14363	13708	-67	-64	145	Drop	19 ✓	
234102	23 30	80 00	271	163	7.6	14367	13708	-67	-65	144.8	Drop	20	No wind
235602	23 30	80 15	271	154	8.5	14365	13711	-67.8	-65.5	144.8	Drop	20A	No wind
234914	23 30	82 02	271	151	9.5	14377	13708	-67.1	-65.3	144.8	Drop	21 ✓	
000351	23 32	83 59	~	185	9.5	14372	13710	-67.7	-65.5	144.7	Drop	22 ✓	
002933	26 00	86 15	321	219	22.6	14356	13713	-66.6	-66.9	144.7	Drop	23 ✓	
005527	28 29	88 15	~	233	11.4	-64					Drop	24 ✓	
005620	28 30	88 06	88	217	11	-64.4	-68.8	14305	13707	144.7	Drop	24A	Pressure off
011126	28 28	86 00	~	173	18	-65	-69	14328	13700	145	Drop	25 ✓	
013436	26 36	83 55	~	148	4.2	-66	-69	14350	13667	146	Drop	26 ✓	

N49RF Hurricane 99 / AVAPS DropSonde Log

N49RF Project: HURRICANE DENNIS

Flight ID: 990828X

Mission: 430

Flight #: 9

System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	991 835 053	1	1822	0	25	JCPB		✓
2	991 845 260	2	1836	0.8	21	JCPB		✓
3	991 515 034	1	1851	0.7	26	JCPB		✓
4	991 845 271	2	1906	1.0	23	JCPB		✓
5	991 515 036	1	1923	0.4	16	JCPB		✓
6	992 435 004	2	1940	0.4	18	JCPB		✓
7	992 435 010	1	1958	0.4	31	JCPB		✓
8	991 835 018	2	2015	0.5	22	JCPB		✓
9	991 845 267	1	2032	0.2	22	JCPB		✓
10	992 435 035	1	2048	0.3	29	JAS		✓
11	991 835 100	2	2103	0.5	20	JAS		✓
12	991 845 269	1	2119	0.5	13	JAS		✓
13	991 835 112	2	2135	0.3	14	JAS		✓
14	991 835 026	1	2154	0.3	37	JAS		✓
15	991 835 109	2	2212	0	15	JAS		✓
16	992 435 039	1	2230	0.5	25	JAS		✓
17	992 435 031	2	2247	0.4	30	JAS		✓
18	991 835 013	1	2307	0	33	JAS		✓
19	991 835 058	2	2316	0	20	ASG		✓
20	992 435 014	1	2334	0.4	—	ASG	8/8 STATUS: NO WINDS EAST FALL	B
21	991 845 258	2	2336	0.3	—	ASG	5/6 STATUS; NO WINDS	B
22	992 435 037	5	2349	0.4	28	JAS/ASG		✓
23	991 835 025	1	0003	0.6	34	ASG		✓
24	992 435 005	1	0029	0.4	22	ASG		✓
25	991 828 078	1	0055	0.5	33	ASG	PRESS OFFSET ≈ 80mb	B
26	992 435 103	2	0056	0	32	ASG		✓
27	992 435 106	3	0111	0.3	22	ASG		✓
28	992 435 016	1	0134	0.4	42	ASG		✓
29								
30								
31								
32								
33								

P1 DATA COLLECTED FROM CH#1 - P2 system time set at 2100

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurricane 99 Project No. 430 Flight No. 9 Flight ID: 990828AL
 SED Crew: Smith, Goldstein, JCPB Mission: Hur Dennis
 Pre-Flight: 1630 Z Take-Off: 1725 Z Landing: 0155 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight	
N A V	IRS #1		✓ JAS			
	IRS #2		✓ JAS			
	IRS #3		✓ JAS			
	GPS Honeywell #1		✓ JAS			
	GPS Honeywell #2		✓ JAS			
	GPS Collins		✓ JAS		Off? ☐	
	Nose Radar -Collins				Off? ☒	
T E M P	Time	Temp °C			Time	Temp °C
	Temp #1	1635	36.4	✓ JAS	0200	31.95
	Temp #2		33.5	✓		31.642
	Temp #3		32.3	✓		31.066
	Temp #4		35.3	✓		32.446
	DP Left		23.0	✓	Cal. Time: —	22.66
	DP Right		23.5	✓	Cal. Time: —	24.13
P R E S S	Attack Angle (ADCAOA)		13°			
	Slip Angle (BPx/DxPx)		✓ JAS			
	Differential (PQ1/PQ2)		✓ JAS			
	Absolute (PS1/PS2)		1016.3 / 1016.0 ✓ JAS			
	Check Radome Press. Lines ☒		Date: 8/26/99			
S Y S T E M	DOWN PRT-5 ⇒ Open? ☐		N.I.		Closed? ☐	
	MADS (WINDS/DISCWIN)		✓ JAS		# DATs: 1	
	MADS Printer ⇒ Paper? ☒		JAS		Printer Power off? ☐	
	MADS Cal. Date: 8/24/99		QC time: 1659		QC time: 0201	
	WINDS ⇒ NET BCAST ☒		JAS			
	HAPS System / Time set? ☐				# Msg.: 25 # Fail: 4	
	AVAPS System / Time set? ☒		JCPB			
M I S C	AVAPS Printer ⇒ Paper? ☐		N.I.			
	Exterior Walk Around ☒		✓ JCPB			
	Inspect DropSonde Chute Bolts		✓ JCPB			
	Satcom (Flight Phone) ☒		✓ JAS		Off CB? ☐	
	Call COMSAT? ☒ (*292#)		JAS			
	FCU/UPS/CB		CB's Checked? ☐		UPS off? ☐	
	AVAPS Sondes		# On Board: 155	# Dropped: 20	# Good: 25	
AXBT		# On Board: —	# Dropped: —	# Good: —		
APN-232						
Modem Power On? ☒		JAS				

1	DAT Tape #1	On: 1657:50	Type: V60	Off:
2	DAT Tape #2	On:	Type:	Off:
Comments:				

FROM (813) 828-2321

FAX NO. : 3053614402

Aug. 27 1999 12:55PM P4

ETA 42 → 0145Z
42 → 0200Z

1820Z
27 42N
77 21W
100 kt
969

1330
630
200

13.5
12.5
1.0
38.0

28 02
77 37

2915
154
281
199
110

313
0145
0145
0145

FLIGHT TRACKS

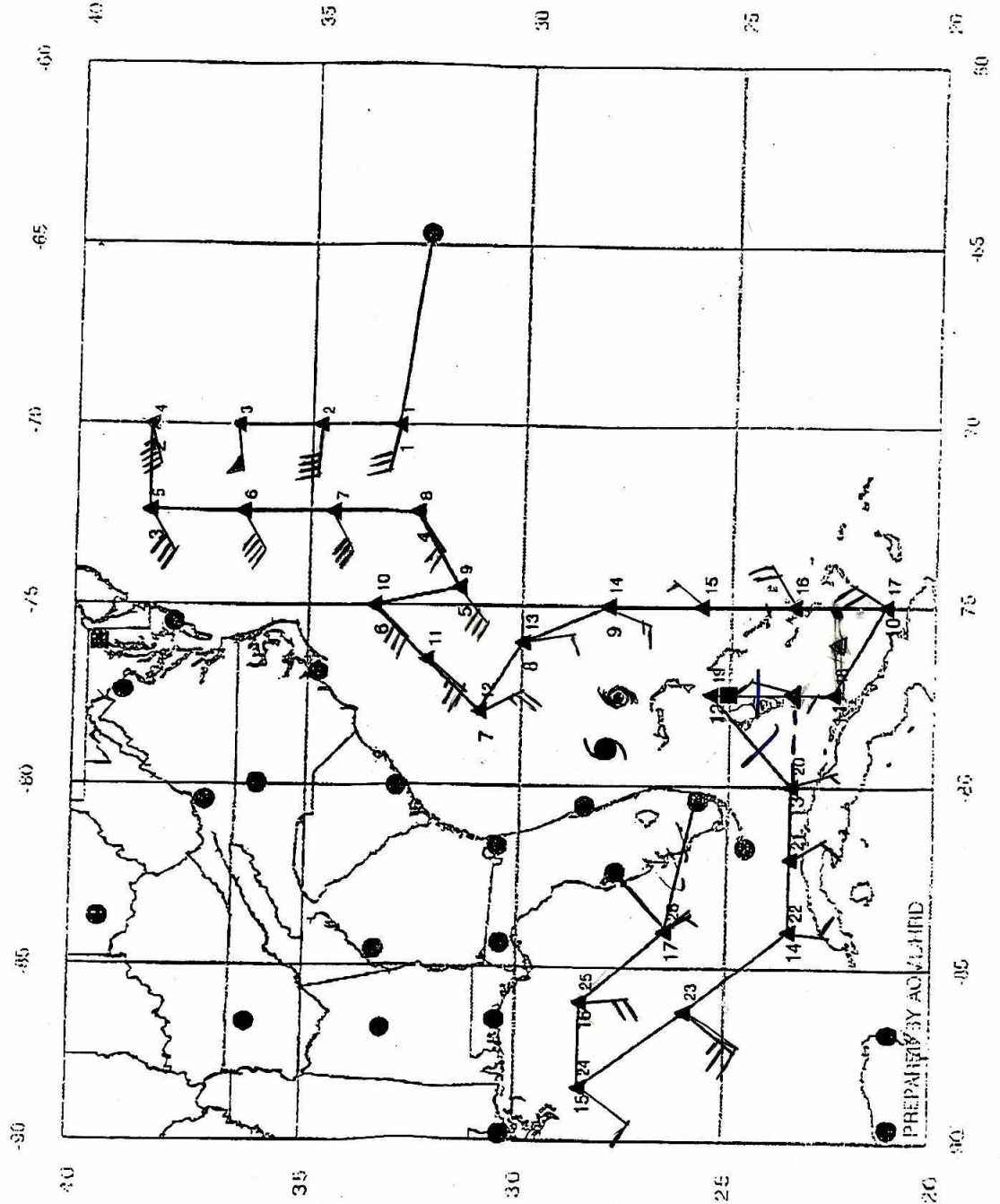
XXXX

990828np.ftk

RAWINSONDES 9907

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

PROF LOCATIONS



===== HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX

Prepared by the Hurricane Research Division at 12:03:47 PM on 08/27/99.
 File: 880828np.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 28/1730Z
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TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	BERMUDA			0.	0.	0:00
1	33 00	70 00		272.	272.	0:47
2	36 30	70 00		331.	602.	1:32
3	38 30	72 30		118.	720.	1:48
4	32 30	72 30		361.	1081.	2:37
5	31 30	74 30		118.	1199.	2:53
6	33 30	75 00		123.	1322.	3:09
7	31 00	78 00		214.	1536.	3:39
8	30 00	76 00		120.	1656.	3:55
9	28 00	75 00		131.	1787.	4:13
10	21 15	75 00		406.	2193.	5:08
11	22 30	77 30		158.	2351.	5:29
12	23 30	77 30		180.	2531.	5:54
13	23 30	80 00		182.	2713.	6:18
14	23 30	84 00		220.	2934.	6:48
15	28 30	88 30		386.	3320.	7:41
16	28 30	86 00		132.	3452.	7:59
17	26 30	84 00		161.	3613.	8:20
18	MIAMI TAMPA			205.	3818.	8:58

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX

Prepared by the Hurricane Research Division at 12:03:47 PM on 08/27/99.
 File: 990828np.fbk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 28/1730Z

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DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	33 00	70 00		0:47
2	34 50	70 00		1:02
3	36 40	70 00		1:17
4	38 30	70 00		1:32
5	38 30	72 30		1:48
6	36 30	72 30		2:04
7	34 30	72 30		2:20
8	32 30	72 30		2:37
9	31 30	74 30		2:53
10	33 30	75 00		3:09
11	32 15	76 30		3:24
12	31 00	78 00		3:39
13	30 00	76 00		3:55
14	28 00	75 00		4:13
15	25 45	75 00		4:31
16	23 30	75 00		4:49
17	21 15	75 00		5:08
18	22 30	77 30		5:29
19	23 30 30	77 30		5:54
20	23 30	80 00		6:18
21	23 30	82 00		6:33
22	23 30	84 00		6:48
23	26 00	86 15		7:15
24	28 30	88 30		7:41
25	28 30	86 00		7:59
26	26 30	84 00		8:20

1230
 820

 0150

2054

2200

0135