

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOCWF1

Flt ID: N000914	From: KMCF	To: KMCF
Flt No.: 00-37	Blk In: 0214z	ATA: 0205z
ETD: 1730z	Blk Out: 1720z	ATD: 1733z
ETE:	Blk Time: 8:54	Flt Time: 8:32
Sponsor Org: NHC	Program: HURR, SURV	Purpose: TD #11 NW CARIB

AOC Personnel

AC: McCANN	Sys Eng:
CP: FINKE / YATES	Data Sys: HILL / PRADAS-BERGUES
Nav:	Radar:
FE: XXXXXXXX	GPS/BT: SMITH
Avionics:	Cid Phys:
FD: DAMIANO	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
KAPLAN	HAPS	HRD
SHAY	OBS	HRD
BLACK, P.	↓	HRD
JACOB		HRD

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #) 0511A
 T/O delayed due to TPA canceling G4 clearance but was quickly restored... reason unknown
 Bal DPT 1814z - 1820z AFT DSN Fault at 90° 12'
 DWR > TA 2021z In cl'd

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOCWF2

Flt ID: N000914 Time Off: 1733Z Time On: 0205Z

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
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Pressure	<u>1013.4</u>		<u>1012.9</u>	
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	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes	<u>1</u>	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	<u>25</u>	<u>2 FF; 1 no pre; 22 good; 22 messages</u>

Video					Remarks
	Forward	Left Side	Right Side	Down	
Time On					
Time Off					
Rate					

Remarks ~~29.96~~ 29.96

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
181900	2330	7924	144	143	315	17	-60.3	-70.5	12576	13149	-	175.2	89.1	CLD BLW
182335	2300	7900	128	124	329	17	-60.2	-70.6	12576	13152	-	175.3	88.2	DROP (37)
183600	2217	7725	116	111	340	17	-60.9	-70.7	12571	13133	-	175.4	87.8	THN CLD
184505	2145	7615	116	112	344	16	-60.8	-67.4	12569	13119	-	175.5	89.2	DROP (46)
190719	2027	7336	184	186	345	10	-60.9	-69.8	12566	13094	-	175.6	87.8	DROP (37)
191734	1931	7432	251	257	320	21	-60.8	-70.5	12561	13111	-	175.7	87.5	DROP (35)
194549	1930	7800	283	288	334	30	-65.8	-70.7	13146	13722	-	159.3	81.0	DROP (FF)
194732	1934	7811	291	294	335	30	-65.7	-70.7	13147	13721	-	159.3	80.5	DROP (32)
195700	1956	7914	290	292	320	26	-65.4	-70.3	13143	13742	-	159.4	82.6	THN CLD
200815	2020	8030	285	285	304	19	-65.4	-69.8	13143	13745	-	159.5	79.5	DROP (80) CLD
202100	2051	8158	292	291	291	6	-65.6	-65.1	13142	13746	-	159.5	81.1	CLD
202945	2112	8301	259	256	245	8	-65.5	-66.7	13141	13742	-	159.5	79.8	DROP (30)
203146	2106	8315	237	235	211	7	-65.6	-66.7	13142	13747	-	159.5	79.6	DROP (53) CLD
204804	2000	8500	242	242	275	3	-65.6	-69.2	13184	13793	-	158.3	79.6	DROP (30) CLD
205500	1932	8611	248	245	150	3	-67.4	-71.9	13427	14039	-	152.0	76.0	THN CLD
210904	1903	8731	280	279	158	1	-67.6	-71.6	13430	14044	-	151.8	75.7	DROP (37)
214026	2100	9100	284	279	228	9	-69.9	-74.1	13710	14329	-	144.8	73.2	DROP (30)
220428	2103	9359	310	311	303	7	-68.9	-74.7	13711	14321	-	144.7	72.9	DROP (44)
221704	2230	9445	335	333	291	6	-68.1	-74.0	13710	14311	-	144.9	74.0	DROP (30)
222600	2320	9510	335	333	317	10	-68.5	-74.0	13710	14303	-	144.7	72.0	CLD BLW
223216	2402	9526	15	13	336	10	-68.3	-74.2	13713	14310	-	144.7	72.5	DROP (51)
225117	2552	9400	36	34	16	9	-67.3	-74.2	13710	14312	-	144.8	73.2	DROP (35)
231031	2743	9227	67	65	323	4	-68.3	-74.8	13709	14314	-	144.8	73.7	DROP (37)
233204	2737	8938	190	191	197	11	-67.9	-74.7	13702	14311	-	145.0	72.9	DROP (30)
235016	2552	9100	217	215	235	10	-66.9	-73.8	13702	14325	-	145.0	73.0	DROP (29)
000200	2445	9154	216	216	262	8	-67.0	-74.8	13697	14325	-	145.0	72.7	CLR
000906	2403	9220	128	127	18	4	-67.4	-75.5	13711	14332	-	144.8	73.8	DROP (19)
002500	2400	9015	91	90	116	4	-67.1	-76.5	13695	14322	-	145.0	73.4	THN CLD
003042	2403	8930	57	54	184	2	-66.8	-75.9	13706	14322	-	144.9	73.6	DROP (16)
004906	2552	8800	35	34	217	6	-67.2	-75.2	13703	14323	-	144.9	72.0	DROP (27)
010715	2737	8629	117	122	228	10	-68.5	-74.5	13710	14311	-	144.9	72.4	DROP (9) FF
011050	2716	8614	153	155	237	16	-69.8	-74.3	13707	14315	-	144.8	71.7	DROP (13)
013124	2507	8456	75	71	264	11	-69.9	-75.2	13715	14327	-	144.7	73.0	DROP (25)

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane 2006 Flight ID 000914N

Mission: TD11 Flight #: 2 System Status: CH#3 inop

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD <input checked="" type="checkbox"/>
1	990 415 316	1/5	1823	0.6	39	JCPB		✓
2	993 655 086	1/5	1845	0.3	46	JCPB		✓
3	990 415 094	1/5	1907	0.7	37	JCPB		✓
4	993 655 083	3/6	1917	0.6	38	JCPB		✓
5	974 940 055	1/5	1946	1.0		JCPB	NO WINDS-CHUTE ^{gyro} FAIL?	B
6	993 645 258	2	1947	0.6	32	JCPB	Backup	✓
7	991 845 142	1/5	2008	0.7	80	JCPB		✓
8	984 728 062	1/5	2029	0.7	47	JCPB	NO Pressure	B
9	991 515 195	2	2031	1.1	53	JCPB	Backup	✓
10	993 645 260	1/5	2048	0.5	30	JCPB		✓
11	993 645 253	1/5	2109	0.6	33	JAS		✓
12	990 415 225	1/5	2140	1.0	48	JAS		✓
13	993 655 093	1/5	2204	0.4	44	JAS	NO WINDS L5 only	✓
14	993 655 166	2/6	2218	φ	30	JAS	PTH to km failed R5 ^{DROP #2}	✓
15	990 935 056	1/5	2231 [?]	φ	50	JAS	DROP 13	✓
16	993 645 082	1/5	2251	0.5	35	JAS	DROP 14	✓
17	990 415 223	2/6	2310	0.8	39	JAS	DROP POINT 15 [?] Winds died after 7min	
18	993 655 007	1/5	2332	0.4		JWH	AS AVAPS set to different frequency - no data on RS	L5 ✓
19	990 935 049	1/6	2350	0.6	26	JWH		✓
20	991 037 049	1/6	0009	1.0	19	JWH		✓
21	993 655 072	1/5	0030	0.6	16	JWH		✓
22	984 715 096	2/5	0049	1.0	27	JWH		✓
23	991 845 213	2/5	0107	1.0	9	JWH	Fast Fall	✓
24	991 435 040	1	0110	0.7	13	JWH	Backup	✓
25	985 035 158	1/5	0131	0.7	35	JWH		✓
26								
27								
28								
29								
30								
31								
32								
33								

2158 993 655

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Surveillance 2000 Project No. 006 Flight No. 6 Flight ID: 000914N

SED Crew: HILL, DAMIANO, SMITH, JCPB Mission: TD #11

Pre-Flight: 1635 Z Take-Off: 1733 Z Landing: 0207 Z

SYSTEM		Pre-Flight Check		In-Flight	Post-Flight Check		
N A V	IRS #1	✓	JCPB				
	IRS #2	✓					
	IRS #3	✓					
	GPS Honeywell #1	✓					
	GPS Honeywell #2	✓					
	GPS Collins	✓	JCPB FMI			Off? <input type="checkbox"/>	
Nose Radar - Collins						Off? <input type="checkbox"/>	
T E M P		Time	Temp °C	✓		Time	Temp °C
	Temp #1	1652	40.6	✓	JCPB		
	Temp #2		35.1	✓			
	Temp #3		35.9	✓			
	Temp #4		35.9	✓			
	DP Left		22.0	✓		Cal. Time:	
	DP Right	↓	21.168	✓	↓	Cal. Time:	
P R E S S	Attack Angle (ADCAOA)	✓	JCPB				
	Slip Angle (BPx/DxPx)	✓					
	Differential (PQ1/PQ2)	✓					
	Absolute (PS1/PS2)	✓					
	Check Radome Press. Lines <input checked="" type="checkbox"/>	Date:					
S Y S T E M S	DOWN PRT-5 ⇒ Open? <input type="checkbox"/>	Not installed				Closed? <input type="checkbox"/>	
	MADS (WINDS/DISCWIN)	✓	JCPB			# DATs: 1	
	MADS Printer ⇒ Paper? <input checked="" type="checkbox"/>	✓	JCPB			Printer Power off? <input type="checkbox"/>	
	MADS Cal. Date:	QC time: 1650				QC time: 0209	
	WINDS ⇒ NET BCAST <input type="checkbox"/>						
	HAPS System / Time set? <input checked="" type="checkbox"/>	JWIT				# Msg.: 22 # Fail:	
	AVAPS System	JAS					
	K2 Printer ⇒ Paper? <input checked="" type="checkbox"/>	JCPB				Printer Power off? <input type="checkbox"/>	
	Exterior Walk Around <input checked="" type="checkbox"/>	JAS					
	Inspect DropSonde Chute Bolts	JAS					
M I S C	Satcom (Flight Phone) <input checked="" type="checkbox"/>	JCPB				Off CB? <input type="checkbox"/>	
	Call COMSAT? <input checked="" type="checkbox"/> (*292#)	JCPB					
	FCU/UPS/CB	CB's Checked? <input checked="" type="checkbox"/>				UPS off? <input type="checkbox"/>	
	AVAPS Sondes	# On Board:	59	# Dropped:	25	# Good: 22	
	AXBT	# On Board:	0	# Dropped:		# Good: -	
	APN-232 Altimeter	✓ JCPB					
Modem Power On? <input checked="" type="checkbox"/>	✓ JCPB						

1	DAT Tape #1	On: 1646	Type: V60	Off: 0214
Comments: Channel #3 AVAPS TDS IHOP - Pri JAS				
Balanced DPL/DDR - Completed by 1822				

G4 Hurricane Surveillance

N000914 TD #11 (NW Caribbean)

<u>DATA TYPE</u>	<u>SENSOR or OPTION</u>
INE	VEW, VNS
Accelerometer	ACINS
Temperature Probe	AT2
Altitude (for vertical wind)	PALT
Static Pressure	PS1M
Dynamic Pressure	QC1M
Dewpoint Probe	DPRC

Notes:

There were no data gaps.

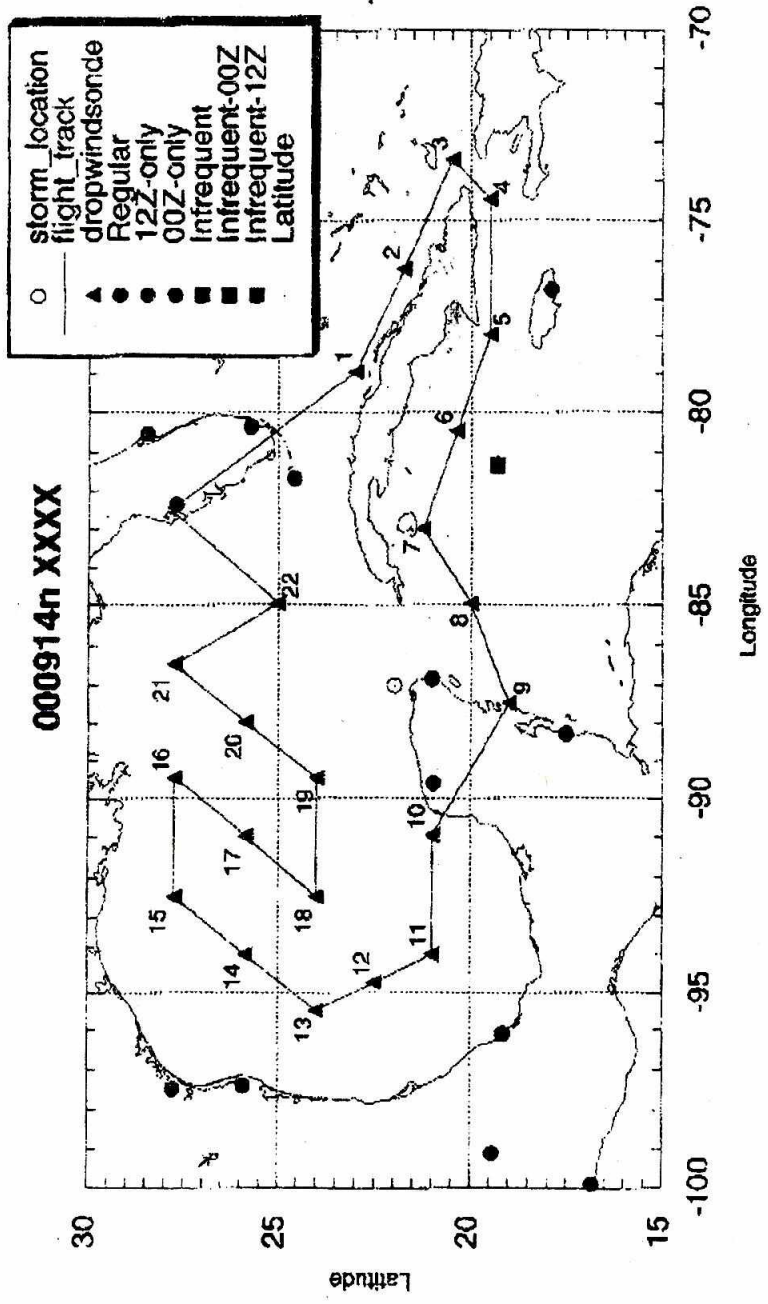
From 221630Z - 221800Z there was no inertial_PITR data due to a data system module (DSM) failure.

Both dewpoint sensors were balanced between 1814Z - 1820Z.

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.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1013.4mb	1012.9mb
Corrected tower pressure	NA	NA

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



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 HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX/SYNOPTIC

 NOAA/Hurricane Research Division Wednesday, September 13, 2000 11:12:03 AM
 Aircraft: N49RE Proposed takeoff: 14/1730Z
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TRACK DISTANCES

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#	LAT (d m)	LCN (d m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	23 00	79 00		354.	354.	0:48
2	20 30	73 30		352.	705.	1:36
3	19 30	74 30		84.	789.	1:47
4	19 30	78 00		204.	993.	2:15
5	21 15	83 00		309.	1301.	2:57
6	20 00	85 00		138.	1440.	3:16
7	19 00	87 30		158.	1597.	3:37
8	21 00	91 00		236.	1833.	4:10
9	21 00	94 00		174.	2007.	4:33
10	24 00	95 30		200.	2207.	5:00
11	27 45	92 30		282.	2490.	5:39
12	27 45	89 30		169.	2659.	6:02
13	24 00	92 30		282.	2941.	6:41
14	24 00	89 30		172.	3113.	7:04
15	27 45	86 30		282.	3396.	7:43
16	25 00	85 00		186.	3582.	8:08
17	MACDILL			222.	3803.	8:38

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX/SYNOPTIC

NOAA/Hurricane Research Division Wednesday, September 13, 2000 11:12:03 AM
Aircraft: N49RF Proposed takeoff: 14/1730Z

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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 00	79 00		0:48
2	21 45	76 15		1:12
3	20 30	73 30		1:36
4	19 30	74 30		1:47
5	19 30	78 00		2:15
6	20 22	80 30		2:36
7	21 15	83 00		2:57
8	20 00	85 00		3:16
9	19 00	87 30		3:37
10	21 00	91 00		4:10
11	21 00	94 00		4:33
12	22 30	94 45		4:47
13	24 00	95 30		5:00
14	25 52	94 00		5:20
15	27 45	92 30		5:39
16	27 45	89 30		6:02
17	25 52	91 00		6:21
18	24 00	92 30		6:41
19	24 00	89 30		7:04
20	25 52	88 00		7:23
21	27 45	86 30		7:43
22	25 00	85 00		8:08