

Flt ID: N000818	From: KMCF	To: TBPB
Flt No.: 00-32	Blk In: 0147	ATA: 0141Z
ETD: 1730Z	Blk Out: 1731Z	ATD: 1741Z
ETE:	Blk Time: 8:16	Flt Time: 8:00
Sponsor Org: NHC	Program: HURR. SURV.	Purpose: TD #6 (TS CHRIS)

AOC Personnel

AC: McCANN ✓	Sys Eng: GOLDSTEIN
CP: FINKE ✓ / YATES ✓	Data Sys: HORN BROOK / HILL
Nav:	Radar:
FE: KITSON	GPS/BT:
Avionics:	Cid Phys:
FD: DAMIANO ✓ / SHEPHERD ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
LANDSEA ✓	HAPS	HRD
KAPLAN ✓	HAPS	HRD
PARRISH ✓	??	AOC

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

MADS down just after T/O
 1820 Bal DPL - 1826Z
 1821 Bal DPR - 18
 DEOP1 delayed due to software problems on both systems
 2218Z AFT DSN (IRU lost) disconnected causing problems with winds no gps/sds
 1815
 19 30034
 12 34

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

AOCWF2

Flt ID: *N000818* Time Off: *1741Z* Time On: *0141Z*

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	<i>1018.0</i>	<i>1018.0</i>	<i>1008.3</i>	<i>1007.2</i>

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes	<i>2</i>	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	<i>24</i>	<i>22</i> <i>2 Bad; 2 messages sent</i> <i>1 740sec to get winds; was backed-up</i>

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

Remarks
1305
5929

N000818

1
9

M/S

TIME	LAT	LOX	TRK	HD	WD	WS	TA	TD	PA	GA	SP	PS			PK
181800	2533	7853	112	111	134	9	-59.7	-68.4	12550	13073	-	175.2	ABV	OLD	88.7
184000	2419	7622	126	127	177	10	-62.8	-69.6	12574	13097	-	175.3	CLD	TOPS	89.9
190400	2247	7341	119	117	87	4	-62.0	-66.9	12565	13085	-	175.7	BTN	CLD	88.6
194254	2056	6906	95	93	84	3	-61.4	-66.5	12575	13068	-	175.3	BAD	DROP	89.2
195359	2049	6740	94	91	28	5	-60.6	-68.3	12557	13067	-	175.9	BAD	DROP	
195455	2048	6732	93	91	24	6	-60.7	-68.2	12554	13061	-	175.9	(24)	DROP	87.0
200400	2044	6622	94	93	102	5	-60.4	-68.4	12553	13065	-	176.0	CLR		87.8
201209	2090	6519	94	93	112	4	-60.2	-69.3	12552	13067	-	176.0	(21)	DROP	87.1
202941	2025	6300	148	147	212	10	-59.1	-70.3	12557	13079	-	175.8	(18)	DROP	90.8
203900	1920	6300	180	179	186	13	-60.7	-70.2	12557	13065	-	175.9	CLR		88.8
204609	1831	6252	112	110	197	9	-60.7	-70.6	12559	13088	-	175.8	(21)	DROP	89.0
210200	1830	6049	90	91	155	11	-59.8	-70.7	12554	13085	-	176.0	CLR		88.6
210812	1835	6002	35	34	161	13	-61.6	-71.1	12552	13082	-	176.0	(27)	DROP	88.4
212317	2028	5953	64	67	135	11	-60.8	-70.6	12556	13082	-	175.8	(46)	DROP	88.0
214144	2025	5732	147	148	164	15	-60.9	-66.3	12550	13107	-	176.0	(30)	DROP	87.5
214800	1943	5730	150	179	185	15	-66.5	-70.3	13134	13690	-	159.7	HAZE		78.7
215218	1833	5725	126	123	144	10	-66.4	-71.7	13138	13697	-	159.6	(20)	DROP	82.4
220700															
221744	1835	5503	36	33	72	9	-65.9	-72.0	13136	13677	-	159.7	(20)	DROP	79.3
222935	2000	5500	0	359	180	11	-67.6	-72.2	13139	13683	-	159.5	(28)	DROP	81.0
224131	2127	5455	58	59	133	4	-66.7	-72.3	13140	13677	-	159.7	(29)	DROP	82.2
225100	2130	5340	91	89	56	9	-67.9	-73.8	13708	14254	-	144.8			71.9
230028	2124	5232	152	152	120	6	-67.6	-73.8	13711	14261	-	144.8	(16)	DROP	
231332	1952	5230	181	179	177	7	-70.2	-75.3	13712	14265	-	144.7	(10)	DROP	73.1
231546	1937	5230	181	178	171	8	-70.0	-75.7	13706	14263	-	144.8	(2)	DROP	72.8
232718	1815	5230	180	178	175	13	-68.8	-75.9	13708	14262	-	144.8	(30)	DROP	73.6
234128	1637	5230	180	177	160	13	-71.0	-76.2	13704	14267	-	144.9	(33)	DROP	73.0
234431	1616	5230	180	177	158	11	-71.4	-75.9	13702	14271	-	144.9	(37)	DROP	72.8
235521	1501	5226	138	135	108	7	-71.5	-74.5	13703	14271	-	144.9	(2)	DROP	72.3
001900	1356	5013	230	233	46	5	-70.1	-74.1	13706	14285	-	144.9	(30)	DROP	73.1
003636	1306	5231	265	264	139	7	-69.0	-74.6	13705	14277	-	144.9	(10)	DROP	72.7
005454	1305	5449	271	265	176	11	-69.6	-74.9	13699	14288	-	145.0	(5)	DROP	73.1
011353	1304	5709	271	269	231	4	-69.1	-75.3	13700	14280	-	145.0	(29)	DROP	73.5

(20)

G4 Hurricane Surveillance

N000818 TS Chris (East of Lesser Antilles)

<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:

Just prior to takeoff the aircraft data system crashed and did not record flight level data until 1748Z. From that point until the end of the mission there were no data gaps.

Both dewpoint sensors were balanced between 1820Z - 1827Z.

From 221730Z - 222600Z there was no inertial_PITR data due to a data system module (DSM) failure.

From 2345Z - 2348Z there were glitches in differential attack pressure 1 (AP1), differential attack pressure2 (AP2), dynamic attack pressure 1(DAP1), dynamic attack pressure 2 (DAP2), differential slip pressure 2 (BP1), differential slip pressure 2 (BP2), dynamic slip pressure 1 (DBP1) and dynamic slip pressure 2 (DBP2) output. As a result attack angle and slip angle, as well as derived wind values, were erroneous during this time frame.

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	1018.0mb	1008.3mb
Corrected tower pressure	1018.0mb	1007.0mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073
Tom Shepherd, (813) 828-3310 ext. 3053

NOAA9 0206A

~~CHRIS~~
CHRIS

TEAL 07 18Z

290/11

19/8Z

1640'

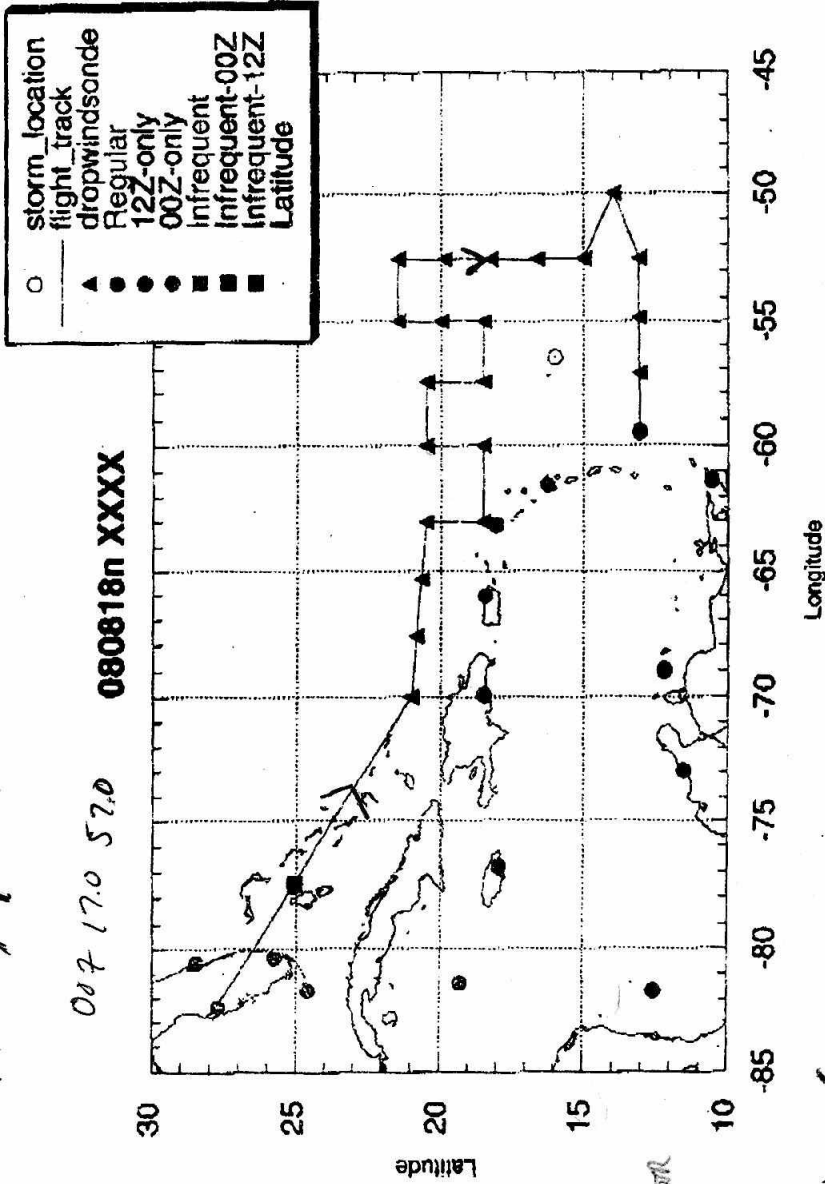
5644

1010 mb

23 KTS

CONV NEQ
CENTR

08Z 17.0 57.0 080818n XXXX



TEAL 26

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX/SYNOPTIC

NOAA/Hurricane Research Division Thursday, August 17, 2000 3:52:48 PM
Aircraft: N49RF Proposed takeoff: 18/1730Z

DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	21 00	70 00		1:52
2	20 49	67 40		2:11
3	20 40	65 15		2:29
4	20 30	63 00		2:48
5	18 30	63 00		3:04
6	16 30	60 00		3:23
7	20 30	60 00		3:44
8	20 30	57 30		4:04
9	18 30	57 30		4:26
10	18 30	55 00		4:40
11	20 00	55 00		4:53
12	21 30	55 00		5:05
13	21 30	52 30		5:25
14	19 52	52 30		5:38
15	18 15	52 30		5:51
16	16 37	52 30		6:05
17	15 00	52 30		6:20
18	14 00	50 00		6:40
19	13 05	52 30		7:01
20	13 05	54 40		7:20
21	13 04	57 09		7:39

BAD NO LAUNCH DETECT

*OKs 1-2
2026 1st mess
2044 2nd drop*

205930

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 HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX/SYNOPTIC

 NOAA/Hurricane Research Division Thursday, August 17, 2000 3:52:48 PM
 Aircraft: N49RF Proposed takeoff: 18/1730Z
 =====

TRACK DISTANCES

 =====

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	21 00	70 00		826.	826.	1:52
2	20 30	63 00		407.	1234.	2:48
3	18 30	63 00		120.	1354.	3:04
4	18 30	60 00		175.	1529.	3:28
5	20 30	60 00		120.	1649.	3:44
6	20 30	57 30		145.	1794.	4:04
7	18 30	57 30		120.	1914.	4:20
8	18 30	55 00		146.	2060.	4:40
9	21 30	55 00		180.	2240.	5:05
10	21 30	52 30		145.	2385.	5:25
11	15 00	52 30		390.	2775.	6:18
12	14 00	50 00		159.	2934.	6:40
13	13 06	52 30		157.	3092.	7:01
14	BARBADOS			414.	3505.	7:58

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NOAA/AOC/SED N49RF Flight Performance log

2000

N49RF Project: Surveillance Project No. 006 Flight No. RF01 Flight ID: 000818W

SED Crew: Hornbrook, Hill, Goldstien Mission: TS Chris

Pre-Flight: 1645 Z Take-Off: 1740 Z Landing: 0141 Z

SYSTEM		Pre-Flight Check		In-Flight		Post-Flight Check	
NAV	IRS #1		<i>OK</i>				
	IRS #2		<i>OK</i>				
	IRS #3		<i>OK</i>				
	GPS Honeywell #1		<i>OK</i>				
	GPS Honeywell #2		<i>OK</i>				
	GPS Collins		<i>OK</i>				Off? <input type="checkbox"/>
Nose Radar -Collins							Off? <input type="checkbox"/>
TEMP		Time	Temp °C			Time	Temp °C
	Temp #1	1656	41.1				
	Temp #2		37.3				
	Temp #3		37.3				
	Temp #4		38.2				
	DP Left		21.6		Cal. Time: 1819-1828		
	DP Right	✓	22.3		Cal. Time: 1819-1828		
PRES	Attack Angle (ADCAOA)		<i>OK</i>				
	Slip Angle (BPx/DxPx)		<i>OK</i>				
	Differential (PQ1/PQ2)		<i>OK</i>				
	Absolute (PS1/PS2)		<i>OK</i>				
	Check Radome Press. Lines <input type="checkbox"/>	Date:					
SYSTEMS	DOWN PRT-5 ⇒ Open? <input type="checkbox"/>	Not USED	<i>OK</i>			Closed? <input type="checkbox"/>	
	MADS (WINDS/DISCWIN)		<i>OK</i>			# DATs:	
	MADS Printer ⇒ Paper? <input checked="" type="checkbox"/>					Printer Power off? <input type="checkbox"/>	
	MADS Cal. Date:	QC time:				QC time:	
	WINDS ⇒ NET BCAST <input checked="" type="checkbox"/>		<i>OK</i>				
	HAPS System / Time set? <input checked="" type="checkbox"/>		<i>OK</i>			# Msg.:	# Fail:
	AVAPS System						
Printer ⇒ Paper? <input checked="" type="checkbox"/>					Printer Power off? <input type="checkbox"/>		
Exterior Walk Around <input checked="" type="checkbox"/>							
Inspect DropSonde Chute Bolts							
MISC	Satcom (Flight Phone) <input checked="" type="checkbox"/>					Off CB? <input type="checkbox"/>	
	Call COMSAT? <input checked="" type="checkbox"/> (*292#)						
	FCU/UPS/CB	CB's Checked? <input checked="" type="checkbox"/>				UPS off? <input type="checkbox"/>	
	AVAPS Sondes	# On Board: 164		# Dropped: 24		# Good: 22	
	AXBT	# On Board: 0		# Dropped:		# Good:	
	APN-232 Altimeter						
	Modem Power On? <input checked="" type="checkbox"/>						

1	DAT Tape #1	On: 1722/1749	Type:	Off: 1740/0141
2	DAT Tape #2	On:	Type:	Off: 0141
Comments: 1) System locked up on take off 1) About 22:18 AFT DSM disconnected, Rebooted at 22:24 - winds were affected				

