

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

AOCWF1

Flt ID: <i>N000820</i>	From: <i>TBPB</i>	To: <i>TBPB</i>
Flt No.: <i>00-33</i>	Blk In: <i>0128Z</i>	ATA: <i>0126Z</i>
ETD: <i>1730Z</i>	Blk Out: <i>1719Z</i>	ATD: <i>1730Z</i>
ETE:	Blk Time: <i>8.2</i>	Flt Time: <i>7.9</i>
Sponsor Org: <i>NHC</i>	Program: <i>HORR SURV</i>	Purpose: <i>TS DEBBY</i>

AOC Personnel

AC: <i>FINKEV</i>	Sys Eng: <i>GOLDSTEIN ✓</i>
CP: <i>MCCANN / YATES ✓</i>	Data Sys: <i>HILL ✓</i>
Nav:	Radar:
FE:	GPS/BT: <i>HORN BROOK ✓</i>
Avionics:	Cld Phys:
FD: <i>DAMIANO / SHEPHERD ?</i>	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
<i>LANDSEA ✓</i>	<i>HAPS</i>	<i>HRD</i>
<i>KAPLAN ✓</i>	<i>HAPS</i>	<i>HRD</i>

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

<p><i>1816Z - 71.62 DPR</i></p> <p><i>1816Z - 68.18 DPL</i></p>	<p><i>SAM LORD'S</i></p> <p><i>246-423-7350</i></p>
<p><i>1822Z Post-Bal</i></p> <p><i>-72.98 DPR</i></p> <p><i>-69.90 DPL</i></p>	<p><i>OK 2000</i></p>

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AOGWF2

Flt ID: *N000820* Time Off: *1730Z* Time On: *0126*

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	<i>1007.5</i>	<i>1014.0</i>	<i>1006.6</i>	<i>1014.0</i>

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes	<i>1</i>	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	<i>29</i>	<i>3 sondes no launch detect</i>
		<i>26 temp drop messages xmitted</i>

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

Remarks
Landing Station press from radiosonde launch (002)

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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
175252	1522	5929	0	0	80	6	-32.0	-48.0	9148	9200	—	298.0	139.0	(13) DROP
181100	1741	5929	0	359	157	8	-62.3	-70.6	12574	13114	—	175.3	89.0	(20) DROP
182600	1935	5930	359	359	161	3	-61.9	-72.7	12573	13108	—	175.3	88.8	CLR
182916	1958	5924	61	63	130	8	-62.2	-72.4	12573	13108	—	175.4	88.7	(22) DROP
184346	1955	5733	146	149	185	16	-61.1	-72.4	12567	13118	—	175.6	88.6	(22) DROP
190300	1745	5730	180	178	176	23	-61.7	-68.2	12567	13126	—	175.6	88.2	(23) DROP
192237	1533	5725	124	124	146	17	-60.9	-67.9	12564	13125	—	175.9	89.0	(24) DROP (TWR CLD)
193200	1542	5620	105	106	131	17	-61.11	-67.7	12545	13131	—	176.0	89.6	BTW ^{CR} CLD
193900	1537	5532	30	28	120	12	-60.6	-69.8	12559	13129	—	175.8	89.1	DROP (70)
194800	1646	5530	0	0	136	10	-60.8	-71.1	12561	13137	—	175.7	87.9	TWR CLD
195538	1745	5530	0	1	128	11	-60.6	-71.5	12559	13140	—	175.8	90.0	(45) DROP
200500	1858	5530	0	359	186	9	-61.2	-69.9	12558	13138	—	175.8	88.9	CLR
201244	1957	5525	54	57	184	11	-61.4	-69.1	12562	13136	—	175.7	88.7	DROP
202727	1955	5333	144	146	179	18	-65.6	-70.4	13136	13712	—	159.8	81.8	(8) DROP
204416	1803	5325	125	125	159	21	-64.9	-71.5	13137	13741	—	159.6	80.3	(20) DROP
204700	1800	5305	89	92	148	20	-65.2	-70.8	13133	13728	—	159.7	80.3	CLD TOPS
2100	1805	5132	33	33	150	17	-66.1	-70.6	13138	13724	—	159.5	79.1	(52) DROP
211833	2028	5122	70	74	182	0.6	-65.2	-70.7	13144	13735	—	161.3	80.1	(80) DROP
213408	2030	4920	090	089	242	7.7	-65.5	-72.5	13121	13724	—	159.6	79.7	(28) DROP
215017	2030	4909	089	087	278	12.7	-65.0	-71.9	13136	13736	—	159.6	81.8	(19) DROP
220547	2030	4501	160	165	260	18.2	-65.8	-70.6	13140	13723	—	159.6	80.6	(17) DROP
22525	1802	4505												DROP NO LAUNCH DETECT
222621	1800	4511	269	270	284	20.0	-64.6	-73.0	13138	13741	—	159.5	80.8	(27) DROP
224607	1754	4729	206	205	254	15.2	-65.0	-68.5	13142	13747	—	159.5	80.5	(50) Drop
2254	Climb to FL 450													
225711	1635	4730	180	181	241	10.7	-69.2	-74.3	13711	14297	—	144.6	72.9	FL 450
230648	1530	4730	181	179	201	7.6	-70.4	-76.1	13714	14295	—	144.6	72.2	(20) DROP
232757	1259	4733	216	244	141	9.5	-70.7	-74.1	13712	14296	—	144.7	72.2	(33) DROP
234437	1145	4915	234	232										NO LAUNCH DETECT
234523	1140	4922	234	232	075	10.7	-70.3	-74.9	13710	14299	—	144.8	72.0	(27) DROP
00128	030	5103	259	263	031	12.2	-70.2	-75.3	13715	14312	—	144.7	73.8	(15) DROP
002100	1032	5330	306	310	061	12.4	-70.1	-75.3	13707	14297	—	144.8	72.8	(12) DROP
003310	1145	5430	324	325	085	12.8	-70.6	-74.2	13705	14308	—	144.9	72.3	(22) DROP
004624	1258	5534												NO LAUNCH DROP
004710	1300	5539	272	268	129	9.8	-69.1	-74.7	13706	14310	—	144.8	71.1	(42) Drop
010133	1301	5729	272	271	110	7.7	-68.1	-71.5	13706	14287	—	144.8	72.2	(24) Drop
0104	Begin descent to BFB													

G4 Hurricane Surveillance

N000820 TS Debby (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:

There were no data gaps.

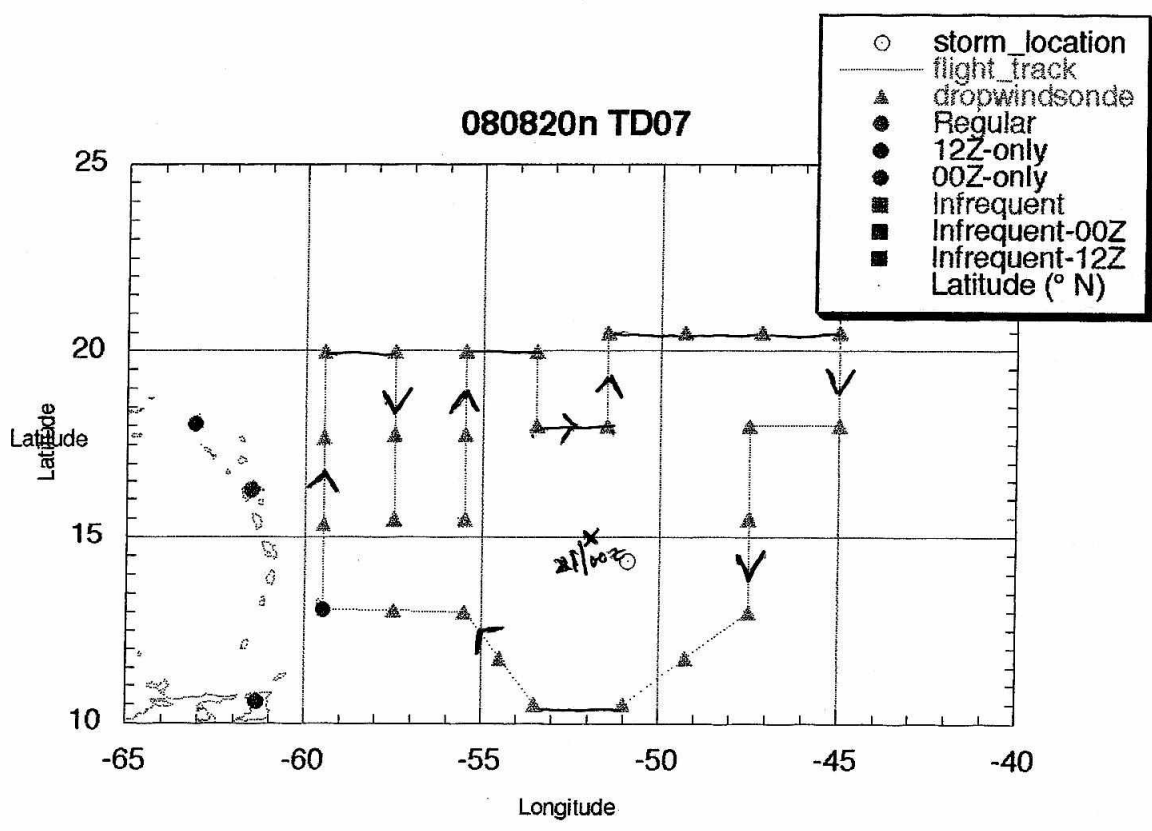
Both dewpoint sensors were balanced between 1816Z - 1822Z.

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	1007.5mb	1006.6mb
Corrected tower pressure	1009.0mb	1008.0mb

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

NOAA9 0707A DEBBY



HURRICANE SYNOPSIS SURVEILLANCE MISSION PLAN: XXXX/SYNOPTIC

NOAA/Hurricane Research Division Sunday, August 20, 2000 8:16:58 AM
 Aircraft: N49RF Proposed takeoff: 20/1730Z

TRACK DISTANCES

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	BARBADOS			0.	0.	0:00
1	20 00	59 30		416.	416.	0:56
2	20 00	57 30		116.	533.	1:12
3	15 30	57 30		270.	803.	1:49
4	15 30	55 30		118.	921.	2:05
5	20 00	55 30		270.	1191.	2:42
6	20 00	53 30		116.	1307.	2:58
7	18 00	53 30		120.	1427.	3:14
8	18 00	51 30		117.	1544.	3:30
9	20 30	51 30		150.	1694.	3:50
10	20 30	45 00		377.	2071.	4:42
11	18 00	45 00		150.	2221.	5:02
12	18 00	47 30		146.	2368.	5:22
13	13 00	47 30		300.	2668.	6:03
14	10 30	51 00		256.	2924.	6:38
15	10 30	53 30		149.	3073.	6:58
16	13 00	55 30		191.	3264.	7:25
17	BARBADOS			236.	3500.	7:57

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: XXXX/SYNOPTIC

305-2294474

NOAA/Hurricane Research Division Sunday, August 20, 2000 8:16:58 AM

Aircraft: N49RF

Proposed takeoff: 20/1730Z

-2.5

TBPB

10/17 AM 1st Prop 1818z

28/3 2nd Drop 1840z

DROP LOCATIONS

#	LAT (d m)	LONG (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	15 22	59 29		0:18
2	17 41	59 29		0:37
3	20 00	59 30		0:56
4	20 00	57 30		1:12
5	17 45	57 30		1:31
6	15 30	57 30		1:49
7	15 30	55 30		2:05
8	17 45	55 30		2:23
9	20 00	55 30		2:42
10	20 00	53 30		2:58
11	18 00	53 30		3:14
12	18 00	51 30		3:30
13	20 30	51 30		3:50
14	20 30	49 20		4:08
15	20 30	47 09		4:25
16	20 30	45 00		4:42
17	18 00	45 00		5:02
18	18 00	47 30		5:22
19	15 30	47 30		5:43
20	13 00	47 30		6:03
21	11 45	49 15		6:21
22	10 30	51 00		6:38
23	10 30	53 30		6:58
24	11 45	54 30		7:12
25	13 00	55 30		7:25
26	13 01	57 29		7:41

25267 2:50
1730 (31)

Bob

8/19/19 18:00 @ 400m
10ms

3 OB 5 return

Called CNHC 1910z

~2125z

~0035z

Bob

(11)

1730

2303

(15)

(17) (19)

(20) 22

1:15

ETA BFB
0125z

1730
658
0028

21z
15.2
51.5 45

21/08 15.9 53.8 50
21/18 16.9 57.0 60
22/06 17.5 60.5 65
22/18 18.0 64.0 70
23/18 20.5 70.5 80

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Surveillance-2000 Project No. 006 Flight No. RF02 Flight ID: 000820N

SED Crew: Hill, Hornbrook, Goldstein, Shepherd, Damiano, Parrish Mission: TS Debby

Pre-Flight: Z Take-Off: 1730:30 Z Landing: 0126 Z

SYSTEM		Pre-Flight Check	In-Flight	Post-Flight Check	
NAV	IRS #1	9H			
	IRS #2	9H			
	IRS #3				
	GPS Honeywell #1	9H			
	GPS Honeywell #2	9H			
	GPS Collins	9H		Off? <input type="checkbox"/>	
Nose Radar - Collins				Off? <input type="checkbox"/>	
TEMP	Time	Temp °C		Time	Temp °C
	Temp #1	1650	31.5		
	Temp #2	/	31.0		
	Temp #3	/	31.0		
	Temp #4	/	33.0		
	DP Left		22.2	Cal. Time:	
DP Right	1650	22.4	Cal. Time:		
PRES	Attack Angle (ADCAOA)		✓		
	Slip Angle (BPx/DxPx)		✓		
	Differential (PQ1/PQ2)		✓		
	Absolute (PS1/PS2)		✓		
	Check Radome Press. Lines <input type="checkbox"/>	Date:			
SYSTEMS	DOWN PRT-5 ⇨ Open? <input type="checkbox"/>	Not USED	✓	Closed? <input type="checkbox"/>	
	MADS (WINDS/DISCWIN)		✓	# DATs: 1	
	MADS Printer ⇨ Paper? <input type="checkbox"/>		✓	Printer Power off? <input checked="" type="checkbox"/>	
	MADS Cal. Date:	QC time:		QC time:	
	WINDS ⇨ NET BCAST <input type="checkbox"/>				
	HAPS System / Time set? <input type="checkbox"/>		✓	# Msg.: # Fail:	
SYSTEMS	AVAPS System		✓		
	K2 Printer ⇨ Paper? <input type="checkbox"/>		✓	Printer Power off? <input checked="" type="checkbox"/>	
SYSTEMS	Exterior Walk Around <input checked="" type="checkbox"/>		✓		
	Inspect DropSonde Chute Bolts		✓		
MISSION	Satcom (Flight Phone) <input checked="" type="checkbox"/>			Off CB? <input type="checkbox"/>	
	Call COMSAT? <input type="checkbox"/> (*292#)				
	FCU/UPS/CB	CB's Checked? <input checked="" type="checkbox"/>	qpl	UPS off? <input type="checkbox"/>	
	AVAPS Sondes	# On Board: 140	# Dropped: 29	# Good: 26	
	AXBT	# On Board:	# Dropped:	# Good:	
	APN-232 Altimeter				
Modem Power On? <input checked="" type="checkbox"/>		✓			

1	DAT Tape #1	On: 1648	Type: 60M	Off: 0131
2	DAT Tape #2	On:	Type:	Off:
Comments:				