

Flt ID: NO10914	From: KSAV	To: KFLL
Flt No.: 01-54	Blk In: 0216Z	ATA: 0209Z
ETD: 1730Z	Blk Out: 1730Z	ATD: 1741Z
ETE:	Blk Time: 8:46 (8.8)	Flt Time: 8:28 (8.5)
Sponsor Org: NHC	Program: HORN SURV.	Purpose: TS GABRIELLE SURVEY

AOC Personnel

AC: FINKE	Sys Eng: LINO
CP: POSTON / YATES	Data Sys: HORN BROOK
Nav:	Radar:
FE: KITSON	GPS/BT: McNAMARA
Avionics:	Cld Phys:
FD: DAMIANO	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
ABERSON	HAPS	HRD
DUNTON	HAPS	HRD
PARRISH	PM	AOC

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

NOAA 9 0708R GABRIELLE

11 AM left hotel 1630z 24
21
29.90

FD hand drive crashed.
Had to use PC across
from HAPS to monitor
flt level data + drops
Chris fixed the
problem midway thru flt

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center						ACCWF2
Flt ID: <u>11010914</u>		Time Off: <u>1741Z</u>		Time On: <u>0209Z</u>		
A/C (Take Off)		Wx Stn (Take Off)		A/C (Land)		
Pressure		29.90		29.69		
Number		Data Disposition/Date/Quality				
Slow/Fast Flt Lvl Tapes						
Radar Tapes						
Cloud Physics Tapes						
Video Tapes						
AXBT						
AXCP						
AXCTD						
Dropsondes		28 34 bad; 24 good 4 bad; 24 good				
Messages		28 28 sent & no retransmit				
Video						
	Forward	Left Side	Right Side	Down	Remarks	
Time On						
Time Off						
Rate						
Remarks						

Flight ID: NO10914

Page 1 of 1

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

Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd ^{1/8}	HT ² T _a	DPRC T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
180242	31.06	79.03	157	160	197	27	-28.9	-34.6	9254	9876	—	287.0	138.5	(24) DROP
182703	28.15	78.45	175	177	216	22	-57.8	-64.8	12490	13105	—	175.9	93.5	(25) DROP
183500	27.34	78.66	175	178	230	23	-58.6	-58.6	12481	13102	—	176.0	88.6	IN CLD
185111	25.49	78.52	199	200	225	11	-57.9	-61.3	12482	13125	—	175.9	88.8	(14) DROP
190700	23.93	79.68	214	212	218	9	-59.3	-64.6	12490	13142	—	176.0	88.6	INTH CLD
191136	23.53	80.04	248	248	225	9	-59.0	-63.5	12492	13135	—	175.8	88.8	(30) DROP
192300	23.51	81.50	270	267	228	12	-61.4	-69.3	12774	13430	—	167.5	84.3	ABV CLD
193042	23.50	82.50	264	261	248	12	-60.8	-69.3	12773	13431	—	167.5	83.5	NO TH (57) DROP
193339	23.43	82.87	259	257	250	13	-61.2	-69.4	12776	13434	—	167.5	84.3	(15) DROP
195143	23.94	85.05	213	211	230	11	-61.3	-66.2	12773	13425	—	167.5	83.2	(37) DROP
200350	21.54	85.00	123	120	170	7	-61.1	-68.0	12773	13430	—	167.4	84.6	(32) DROP
201700	21.5	83.27	90	91	203	4	-64.0	-68.5	13056	13723	—	159.6	79.8	AT TOP TH CLD
202526	21.42	82.21	151	152	176	4	-64.0	-69.7	13055	13720	—	159.7	79.8	(60) DROP
204109	19.54	82.57	239	240	51	9	-63.6	-66.5	13057	13728	—	159.6	80.5	(25) DROP
205200	19.5	84.0	271	269	68	6	-65.0	-70.1	13199	13873	—	155.8	79.0	ABV CLD
210338	19.33	85.30	310	309	235	5	-66.5	-71.8	13340	14015	—	152.1	75.2	(27) DROP
212125	21.29	86.38	339	336	269	10	-67.5	-72.7	13479	14157	—	148.4	76.6	NO W DROP
212359	21.47	86.35	343	341	268	7	-67.8	-71.6	13483	14157	—	148.5	72.9	(50) DROP
213430	22.58	87.04	297	293	248	12	-66.4	-73.0	13480	14144	—	148.5	74.1	(40) DROP
215909	23.28	89.58	317	316	274	4	-64.7	-73.9	13473	14148	—	148.5	75.2	(49) DROP
222232	25.32	91.55	6	5	300	9	-65.3	-74.7	13617	14297	—	145.0	71.8	(21) DROP
224716	27.48	90.00	140	142	359	13	-62.7	-73.9	13620	14299	—	144.9	71.5	(16) DROP
230541	25.32	89.54	124	121	238	4	-63.6	-73.0	13615	14301	—	145.0	71.4	(44) DROP
231600	25.30	88.30	90	89	253	5	-63.9	-75.4	13616	14303	—	145.0	73.5	ABV CLD
231922	25.35	88.03	36	30	286	6	-63.8	-75.5	13613	14296	—	144.9	73.9	(19) DROP
233343	27.15	88.00	0	357	317	10	-63.8	-75.4	13617	14290	—	144.8	74.2	(43) DROP
234832	29.00	87.57	39	36	333	10	-61.7	-73.5	13617	14274	—	144.7	76.2	(24) DROP
000406	29.52	86.02	145	149	244	11	-60.3	-72.9	13613	14262	—	144.7	73.3	NO W DROP
000611	29.37	86.00	180	181	251	9	-60.7	-73.0	13613	14264	—	144.8	72.2	(65) DROP
002145	27.45	86.00	181	182	254	8	-63.3	-75.2	13623	14287	—	144.9	73.8	(22) DROP
004018	25.32	85.54	119	119	198	5	-63.8	-76.9	13623	14308	—	144.9	73.8	(31) DROP
005417	25.35	84.62	37	33	248	8	-64.7	-76.7	13611	14300	—	145.0	72.3	(39) DROP
010659	27.07	83.52	5	359	274	18	-64.1	-76.7	13622	14296	—	145.0	72.5	(80) DROP
012029	28.45	83.45	5	1	299	13	-61.3	-75.0	13617	14282	—	144.7	73.9	(29) DROP
013400	27.52	83.30			near Tampa									

(28)

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane 2001

Flight ID 010914n

Mission: Gabriel

Flight #: 2

System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	003115190	1	1802	0	24	Z		✓
2	003115229	1	1827	0.9	25	Z		✓
3	003825185	1	1851	0	14	Z		✓
4	004255074	1	1911	0.4	30	Z		✓
5	011245263	1	1930	0	52	Z	Bad Temp.	
6	003825282	3	1933	0	15	Z	Backup	✓
7	003425078	1	1951	0	37	Z	Lost Winds	
8	003135145	2	2003	0.5	32	Z		✓
9	003115224	1	2025	0.6	52	Z		✓
10	004255258	2	2041	0.4	25	Z		✓
11	003825194	1	2103	0.4	27	RJM		✓
12	003515266	2	2121	0.4	53	RJM	INT WINDS	
13	003248076	1	2124	0	50	RJM	BACKUP	✓
14	990235036	3	2134	0.8	40	RJM		✓
15	003248078	1	2159	0.7	49	RJM		✓
16	003515036	1	2222	0.5	21	RJM		✓
17	003515270	1	2247	0	16	RJM		✓
18	003438006	2	2305	0.8	44	RJM		✓
19	003115233	1	2319	0.8	19	gh		✓
20	003248087	2	2333	.5	43	gh		✓
21	992525893	1	2348	.6	34	gh		✓
22	003438004	2	0004	.7		gh	Int. winds	
23	003248082	4	0006	.5	100	gh	Late winds	✓
24	003115282	1	0021	.6	22	gh		✓
25	991037035	2	0040	.9	31	gh		✓
26	003515034	1	0054	0	39	gh		✓
27	990435487	2	0107	.6	80	gh		✓
28	003135346	1	0120	.4	29	gh		✓
29								
30								
31								
32								
33								

Drop 28 good 24

G4 Hurricane Surveillance

N010914 TS Gabrielle (Over Central Florida)

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

Notes:

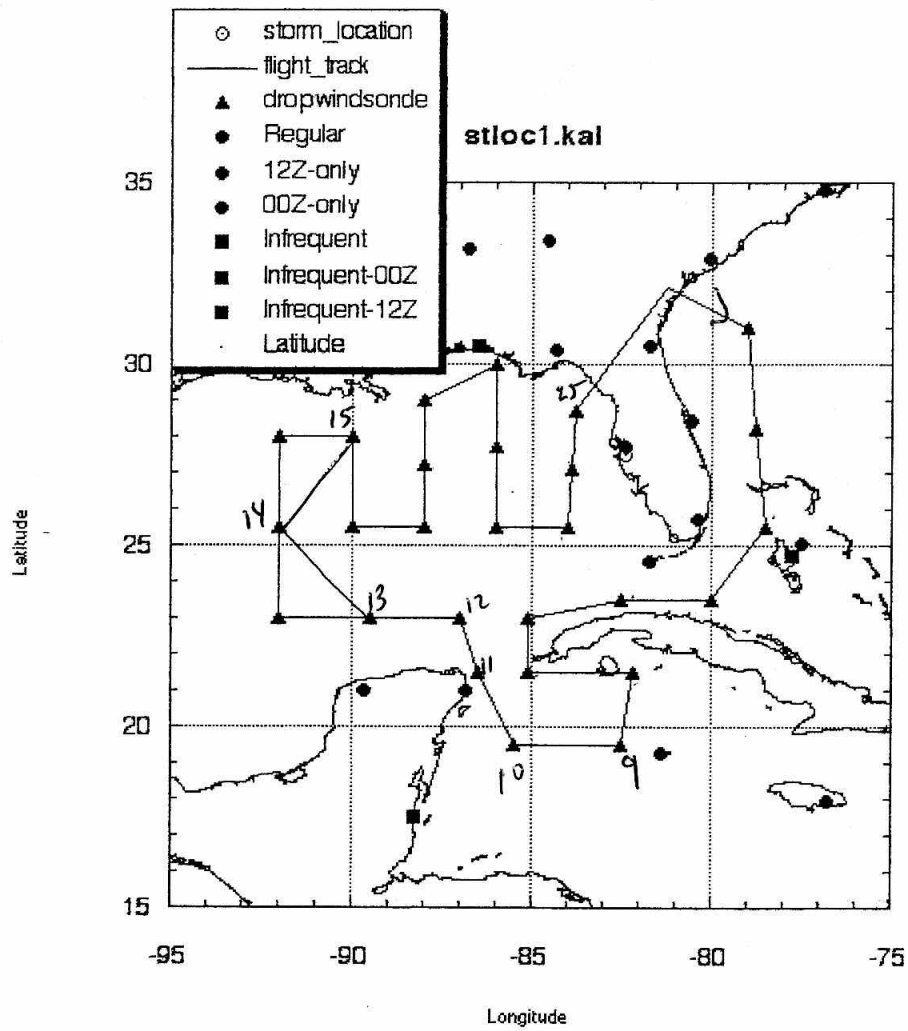
There were no data gaps.

Beginning at 1850Z and continuing until landing, dynamic slip pressure 1 (DBP1) behaved erratically producing erroneous output.

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	1011.2mb	1006.2mb
Corrected tower pressure	1012.0mb	1005.0mb

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



HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GABRIELLE/SYNOPTIC

NOAA/Hurricane Research Division Friday, September 14, 2001 10:04:07 AM
Aircraft: N49RF Proposed takeoff: 14/1730Z

DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	31 00	79 00		0:19
2	28 15	78 45		0:41
3	25 30	78 30		1:04
4	23 30	80 00		1:24
5	23 30	82 30		1:43
6	23 00	85 05		2:04
7	21 30	85 05		2:16
8	21 30	82 09		2:40
9	19 30	82 30		2:56
10	19 30	85 30		3:20
11	21 30	86 30		3:38
12	23 00	87 00		3:51
13	23 00	90 00		4:15
14	25 30	92 00		4:41
15	28 00	90 00		5:06
16	25 30	90 00		5:27
17	25 30	88 00		5:42
18	27 15	89 00		5:56
19	29 00	88 00		6:11
20	30 00	86 00		6:28
21	27 45	86 00		6:47
22	25 30	86 00		7:05
23	25 30	84 00		7:20
24	27 07	83 52		7:34
25	28 45	83 45		7:47

1st OB out 1834Z
2nd OB out 1854Z

11out

14/21Z 28.6 81.6
15/06Z 29.4 80.6
15/18Z 30.6 79.4
16/06Z 31.7 77.5
16/18Z 33.0 75.0
17/18Z 36.5 69.5

29.69
200/11

25 SCT
75 SCT
250 BKN
7+ SM
200/11
25
24
29.69

FLC
2604
08009

=====

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GABRIELLE/SYNOPTIC

=====

NOAA/Hurricane Research Division Friday, September 14, 2001 10:04:07 AM
 Aircraft: N49RF Proposed takeoff: 14/1730Z

=====

TRACK DISTANCES

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	SAVANNAH			0.	0.	0:00
1	31 00	79 00		139.	139.	0:19
2	25 30	78 30		331.	471.	1:04
3	23 30	80 00		148.	618.	1:24
4	23 30	82 30		144.	762.	1:43
5	23 00	85 06		153.	914.	2:04
6	21 30	85 06		90.	1004.	2:16
7	21 30	82 09		171.	1175.	2:40
8	19 30	82 30		122.	1297.	2:56
9	19 30	85 30		175.	1472.	3:20
10	21 30	86 30		133.	1605.	3:38
11	23 00	87 00		95.	1699.	3:51
12	23 00	90 00		173.	1872.	4:15
13	25 30	92 00		189.	2061.	4:41
14	28 00	90 00		188.	2249.	5:06
15	25 30	90 00		150.	2399.	5:27
16	25 30	88 00		114.	2513.	5:42
17	29 00	88 00		210.	2723.	6:11
18	30 00	86 00		127.	2850.	6:28
19	25 30	86 00		270.	3120.	7:05
20	25 30	84 00		114.	3234.	7:20
21	28 45	83 45		196.	3429.	7:47
22	SAVANNAH			248.	3677.	8:21

=====

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Harr 01 Project No. 106 Flight No. 7 Flight ID: 010914N
 SED Crew: Hornbrook, Lino, McNamara Mission: TS Gabriell
 Pre-Flight: 1600 Z Take-Off: 1740 Z Landing: 0209 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1		✓			
	IRS #2		✓			
	GPS Honeywell #1		✓			
	GPS Honeywell #2		✓			
	GPS Collins		✓		Off? ☐	
	Nose Radar - Collins				Off? ☐	
T E M P / D P		Time	Temp °C		Time	Temp °C
	Temp #1	1652	27.5	✓		
	Temp #2		26.9			
	Temp #3		26.9			
	Temp #4		26.6			
	DP Left		19.5		Cal. Time: <u>✓</u>	
	DP Right		21.5		Cal. Time: <u>✓</u>	
	CRYO	✓				
P R E S S	Attack Angle (ADCAOA)		✓			
	Angle of Attack (APx, DAPx)		✓			
	Sideslip (BPx, DBPx)		✓			
	Static Pressure (PS1M, PS2M)		✓			
	Dynamic Pressure (QCxM)		✓			
	Radome Press. Lines		Checked? ☒ Date: 9/12/01			
Mission Pitot/Static Iso. Valves		Valves: open ☐ closed ☐				
S Y S T E M	Satcom (Flight Phone) ☒		2m		Off CB? ☐	
	Call COMSAT? ☒ (*292#)		CB's Checked? ☒ 2m			
	FCU/UPS/CB		✓		UPS off? ☒	
	MADS (WINDS/DISCWIN)		✓	①	# DATs: ①	
	Printer 1 (lp1)		Power? ☒ Paper? ☒		Printer Power off? ☒	
	MADS Cal. Date: 7/6/01		QC time: 1719		QC time: 0215	
	HAPS System		Time set? ☒		# Msg.: # Fail: ③	
	AVAPS System		✓			
	Exterior Walk Around ☒		✓			
	Inspect DropSonde Chute Bolts		10L			
M I S C	Down Port Door		Open? ☒		Closed? ☐	
	AVAPS Sondes		# On Board: 120	# Dropped: 28	# Good: 24	
	Sci. Power Monitor					
	APN-232 Altimeter					
	Modem		Power On? ☒			

1	DAT Tape #1	On: 1718 Z	Type: 60	Off: 0218 Z
Comments:				

Please Note Any Discrepancies

[illegible]