

Flt ID: 011103N	From: KMCF	To: KMCF
Flt No: 02-012	Blk In: 0153Z	ATA: 0145Z
ETD: 1730Z	Blk Out: 1728Z	ATD: 1739Z
ETE: 0200Z	Blk Time: 8:25 8.4	Flt Time: 8:06 8.1
Sponsor Org: NHC	Program: HURR. SURV.	Purpose: HURR. MICHELLE

AOG Personnel

AC: MCLANN, B ✓	Sys Eng: LYNCH, T ✓
CP: FINKE, M ✓	Data Sys: GOLDSTEIN, A ✓
Nav:	Radar:
FE:	GPS/BT: CARPENTER, D ✓
FD: CZYZYK, S ✓	Cld Phys:
Avionics:	

Participating Scientists / Visitors / AOG

Name (Last, First)	Activity on Aircraft	Affiliation
GAMACHE, J ✓	HAPS	HRD
KAPLAN, J ✓	"	"
MILLER, R ✓	MIDAS	NOAA/AL
DANIEL, J ✓	"	"

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

925 mb	20.6	16.3	78	10.3	1740	19.3	84.1	934
850 mb	15.5	9.3	88	12.7	1921	19.23	84.04	931
500 mb	-8.4	-20.0	161	8.4				
300 mb	-31.6	-49.6	288	12.3				
250 mb	-40.7	-45.9	237	14.8				

Flt ID: 011103N Time Off: 1739 Z Time On: 0145Z

Avg (Take Off)

Wx Station (Take Off)

Avg (Land)

Wx Station

1017.4

30.09

1017.0

30.05

Data Disposition / Date / Quality

Number

Flt Lvl Tapes

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

25

18AO (GMT WINDS)

24 XMITTED

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

011103N

TIME	LAT	LONG	TK	HD	TA	TD	WD	WS	PA	GA	PS	REMARKS
1747	2721	8223			-0.8	15.5	100	7.6				FREEZING LEVEL
181545	2438	8015	145	151	-59.8	-65.5	230	27.3	12488	13100	177.8	LEVEL 14K
183210	2300	8859			-59.2	-64.8	240	26.4	12493	13114	177.7	DROP #1
185205	2145	7630	118	117	-60.3	-70.9	245	22.0	12776	13408	169.6	DROP #2
191155	2027	7902			-61.6	-73.2	311	21.8	12777	13422	169.5	DROP #3
191712	1948	7405			-61.0	-73.2	321	15.4	12915	13570	165.7	DROP #4
193231	1943	7554	274	274	-64.2	-75.0	282	18.7	13068	13731	161.5	DROP #5
194810	1947	7744			-63.5	-73.9	277	27.3	13067	13725	161.5	DROP #6
1958-												STENDY LT TURNS
200600	2124	7902			-64.8	-73.9	252	25.3	13206	13877	157.8	DROP #7
202526	2125	8123			-66.3	-72.7	204	19.2	13347	13909	154.0	DROP #8
2039-	1958	8033										TCU & ACT
204822	1859	8001			-68.7	-71.9	257	7.8	13620	14311	147.0	DROP #9
210750	1638	8005			-68.5	-72.3	317	12.0	13619	14315	147.0	DROP #10
212514	1729	8201			-68.4	-72.6	275	7.8	13628	14332	146.8	DROP #11
214528	1700	8430	259	260	-68.1	-72.1	337	11.3	13623	14317	146.9	DROP #12
220458	1635	8656			-67.6	-73.6	168	1.0	13619	14314	147.1	DROP #13
221911	1819	8649	4	1	-67.5	-74.8	268	7.0	13626	14322	146.9	DROP #14
222700	1917	8644			-68.0	-75.3	279	11.0				DROP #14A
223417	2011	8640	5	3	-68.1	-74.9	287	6.9	13622	14310	147.0	DROP #15
224836	2158	8634			-68.7	-75.9	232	12.5	13614	14291	147.2	DROP #16
230252	2230	8815	288	282	-69.8	-73.9	238	25.4	13623	14282	146.9	DROP #17
231742	2300	9000	274	268	-67.6	-74.3	231	29.2	13623	14257	147.0	DROP #18
233631	2300	9217	270	267	-68.0	-75.4	229	20.6	13620	14252	147.0	DROP #19
235414	2306	9427			-66.5	-75.6	254	16.4	13629	14242	146.8	DROP #20
002025	2628	9356			-63.9	-75.3	262	25.7	13628	14195	146.8	DROP #21
003901	2650	9107	81	83	-64.6	-75.3	239	26.4	13623	14191	146.9	DROP #22
0045-												LT TURNS
005745	2710	8815	82	85	-67.4	-75.8	217	24.6	13618	14207	147.1	DROP #23
011628	2730	8522	82	84	-68.6	-77.4	238	33.9	13629	14237	146.8	DROP #24

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hur 2001 Project No. 106 Flight No. Hu 14 Flight ID: 01103N
 SED Crew: Goldsstein, Lynch, Carpenter Mission: Michelle
 Pre-Flight: 16:00 Z Take-Off: _____ Z Landing: 0145 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check		
N A V	IRS #1		TL				
	IRS #2		TL				
	GPS Honeywell #1		TL				
	GPS Honeywell #2		TL				
	GPS Collins		TL		Off? ☒		
	Nose Radar - Collins		✓ ASG		Off? ☒		
T E M P / D P		Time	Temp °C			Time	Temp °C
	Temp #1	34.8	16:46	TL		0148	24.4
	Temp #2	30.4		TL			24.9
	Temp #3	32.6		TL			24.5
	Temp #4	29.9		TL			24.3
	DP Left	20.9	16:49	TL	Cal. Time:		19.7
	DP Right	20.2	"	TL	Cal. Time:		19.7
	CRYO						20.0
P R E S S	Attack Angle (ADCAOA)		TL				
	Angle of Attack (APx, DAPx)		TL				
	Sideslip (BPx, DBPx)		TL				
	Static Pressure (PS1M, PS2M)		TL				
	Dynamic Pressure (QCxM)		TL				
	Radome Press. Lines		Checked? ☒ Date: <u>9-1201</u>				
	Mission Pitot/Static Iso. Valves		Valves: open ☐ closed ☐				
S Y S T E M	Satcom (Flight Phone) ☒				Off CB? ☐		
	Call COMSAT? ☐ (*292#)		CB's Checked? ☒				
	FCU/UPS/CB		TL		UPS off? ☒		
	MADS (WINDS/DISCWIN)		TL		# DATs: <u>1</u>		
	Printer 1 (lp1)		Power? ☒ Paper? ☒		Printer Power off? ☒		
	MADS Cal. Date:		QC time: <u>1720</u>		QC time: <u>0147</u>		
	HAPS System		Time set? ☒ JCPB		# Msg.: <u>24</u> # Fail: <u>4</u>		
M I S C	AVAPS System		TL				
	Exterior Walk Around ☒		DWC				
M I S C	Inspect DropSonde Chute Bolts		DWC				
	Down Port Door		Open? ☒ DWC		Closed? ☐		
	AVAPS Sondes		# On Board:	# Dropped: <u>25</u>	# Good: <u>21</u>		
	Sci. Power Monitor		TL				
	APN-232 Altimeter		NH				
	Modem		Power On? ☒				
	Crew Responsibilities Assigned						

1	DAT Tape #1	On: <u>17:32</u>	Type: <u>SONY60P</u>	Off:
	Comments:			

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane (Synoptic) Flight ID 011103N

Mission: Michelle Flight #: _____ System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒ / B
1	003 155 036	1	1832	Ø	52	DW/TL	OK	✓
2	003 148 119	5	1852	Ø	29			✓
3	003 135 060	1	1912	Ø	25			✓
4	003 135 066	5	1917	Ø	17			✓
5	003 338 002	1	1932	Ø	10			✓
6	003 135 352	5	1948	Ø	17			✓
7	003 338 001	1	2006	Ø	48			✓
8	003 338 004	5	2025	Ø	57			✓
9	003 148 121	1	2048	Ø	25		lost telemetry 130m ^{off} surface	✓
10	003 115 255	5	2107	Ø	46		OK	✓
11	003 338 064	1	2125	Ø	27		lost PTH near surface	✓
12	003 148 003	5	2145	Ø	62			✓
13	010 715 163	1	2204	Ø	25		OK	✓
14	003 155 044	5	2219	Ø	10		PTH & winds flaky	
15	003 338 003	6	2227	Ø	26		backup for #14	
16	003 148 162	1	2234	Ø	45			✓
17	003 148 121	2	2248	Ø	41			✓
18	003 135 146	5	2302	Ø	36			✓
19	003 438 021	1	2317	Ø	44			✓
20	011 378 048	1	2336	Ø	76			✓
21	003 155 033	5	2354	Ø	30			✓
22	003 135 078	1	0020	Ø	42			✓
23	003 115 079	5	0039	Ø	30			✓
24	003 135 182	1	0051	Ø	36			✓
25	003 135 105	5	0116	Ø	20			✓
26								
27								
28								
29								
30								
31								
32								
33								



NOAA Gulfstream-IV Hurricane Surveillance 2001 Hurricane Michelle



Flight Name: 011103n

<u>Instrument/System</u>	<u>Variable Name</u>			
Attack Pressure	AP1	☐	AP2	☒
Sideslip Pressure	BP1	☐	BP2	☒
Dynamic Attack Pressure	DAP1	☐	DAP2	☒
Dynamic Sideslip Pressure	DBP1	☐	DBP2	☒
Static Pressure	PS1M	☐	PS2M	☒
Dynamic Pressure	QC1M	☐	QC2M	☒
True Airspeed	TAS1	☐	TAS2	☒
Latitude	LAT	☒	LAT_PITR	☐
Longitude	LON	☐	LON_PITR	☒
E-W Ground Speed	VEW	☐	VEW_PITR	☒
N-S Ground Speed	VNS	☒	VNS_PITR	☐
Vertical Velocity	VSPD	☐	VSPD_PITR	☒
Pitch	PITCH	☐	PITCH_PITR	☒
Roll	ROLL	☐	ROLL_PITR	☒
True Heading	THDG	☐	THDG_PITR	☒
Dewpoint Temperature	DPRC	☒	DPLC	☐
Total Temperature	TT1	☐	TT2	☒
Ambient Temperature	AT1	☐	AT2	☒
			AT3	☐
			AT4	☐
			CRYOC	☐

Constants File: header01a

	Takeoff	Landing
Aircraft Static Pressure	1017.4 mb	1017.0 mb
Corrected Tower Pressure	1019.0 mb	1017.6 mb

Flight Director: Stan Czyzyk
E-mail: Stanley.Czyzyk@noaa.gov
Phone #: (813) 828-3310
FAX #: (813) 828-5061
Address: P.O. Box 6829
MacDill AFB, FL 33608-0829

Mission Notes:

All scientific and aircraft sensors appeared to perform properly throughout the mission with the exception of the following parameters:

GPGALT - Several offsets, spikes and deviations (1809:00-1810:00, 1851:00-1852:00, 2049:00-2050:00, 2119:00-2120:00, 2122:00-2124:00, 2129:00-2130:00, 2159:00-2200:00, 2207:00-2208:00, 2241:30-2242:30, 2313:30-2314:30, 2319:00-2320:00, 0013:00-0013:30, 0045:00-0046:00, 0107:00-0108:00 and 0143:00-0144:00).

HGM232 - Not functioning.

ADCBCALT - Jump 1752:00-1753:00.

ADCSAT - Invalid data when the temperature falls below -64C.

Dropsondes: 25 Dropsondes released

U11103N

1738-0547

ADCBALC JUMP 1752-1753 ✓

GPALT/GPCALT JUMP/SPIN 1809-1810, 1851-1852, 2049-2050, 2119-2120,
✓ 2122-2124, 2129-2130, 2159-2200, 2207-2208 2241:30-2242:30,
2213:30-2214:30, 2319-2320, 0013-0013:30, 0045-0046, 0107-0108,
0143-0144,

ADCSAT PROB BELOW -64C ✓

NO H6ALT/232 ✓

APZ

BPZ

ATZ

TASZ

TTZ

DPRC

DAPZ

DBPZ

LAT

LONG.PIT

VIEW.PIT

VNS

VSCD.PIT

PITCH.PIT

PS2M

QC2M

ROLL.PIT

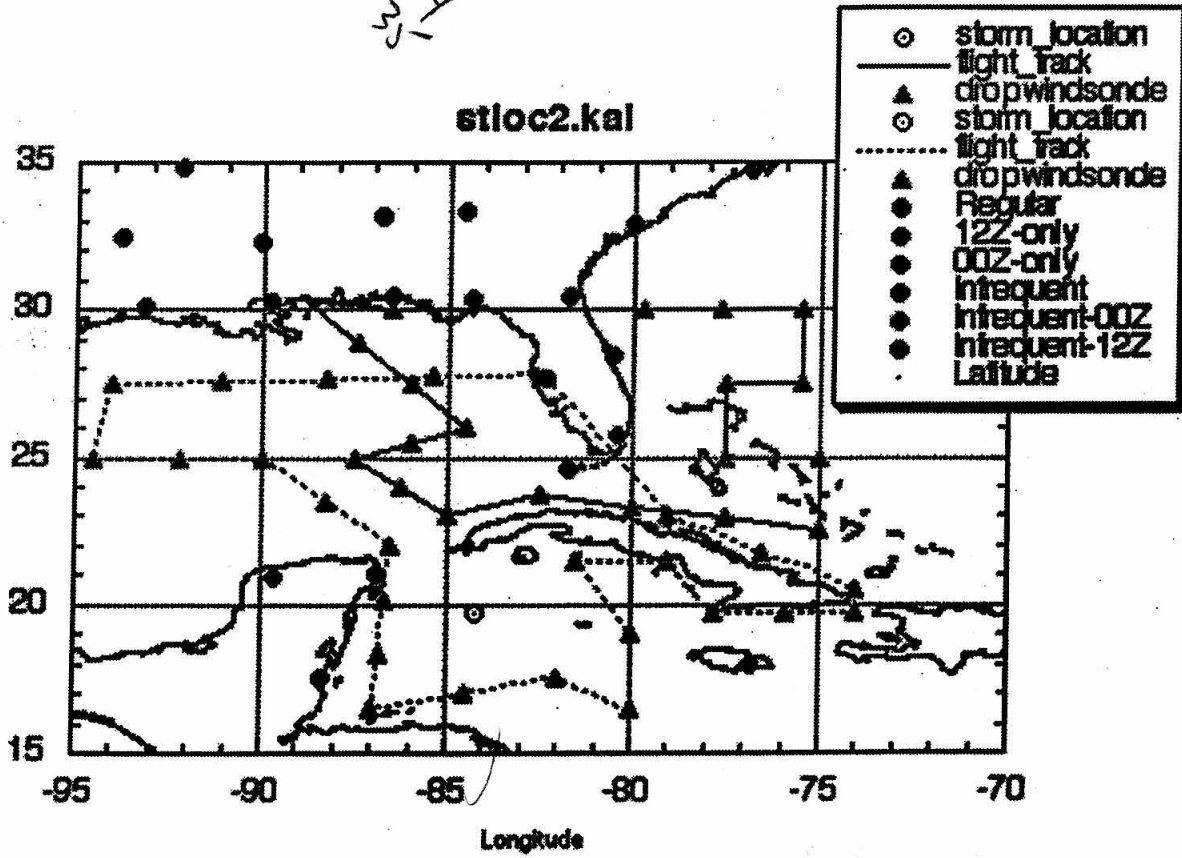
THOG.PIT

128.2

00871761839234
3J-

pixels

ftp://ftp.aoml.noaa.gov/pub/hrd/aberson/surveillance



21Z	19.6	84.1
4/06	20.2	84.0
4/18	21.7	83.0
5/06	23.1	81.4
5/18	24.2	79.7
6/18	29.0	71.5

NOAA9 1315A MICHELLE

TEAL55 SYNOPSIS EAST
TEAL17 TILL 21Z 10K