



NOAA G-IV N49RF
TS Fay
18 August, 2008



Flight ID: 080818N

Sensor or system

INE (for wind derivation)
Attack Angle
Slip Angle
Accelerometer
Temperature Probe
Dew Point Probe
Altitude (for vertical wind derivation)
Static Pressure
Dynamic Pressure
True Air Speed
Constants File
Project Directory

Number or Name

VEW_PITR,VNS_PITR
AKRD1
SSRD1
ACINS_PITR
AT3
DPRC
PALT
PS1M
QC2M
TAS2
49cal071
/proj/706

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (####Z)

101#. # mb
101#. # mb

Landing (####Z)

101#. # mb
101#. # mb

Notes:

Missing Data: #####Z – #####Z
#####Z – #####Z

Data missing because of crashes to the MADS data system.
Spikes occur in all selected inertial data at the end of both data gaps.

There is no ALT_PITR

All other instruments worked optimally during the flight

dropsondes launched: ## good, ## bad
All ## good drops successfully sent to NCEP and ingested into the ##/##Z model run.

Flight Director:
Phone #:

LTJG Jackie Almeida
(813) 828-3310 ext. 3075

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 080818N	From: KMCF	To: KMSY
FLT #: 08-046	Blk In: 0124 Z 7.9	Lnd Time: 0116 Z 7.6
ETD: 1730 Z	Blk Out: 1732 Z	T/O Time: 1741 Z
ETE: 8 hrs +	Total Blk: 7 hrs 52 min	Total Flt: 7 hrs 35 min
Sponsoring Org: NHC	Program: Hurricane 08	Purpose: Surveillance

AOC Flight Crew

Aircraft Commander: Hagan	Data System: Rogers
Co-Pilot: Odell 1	Avaps:
Navigator: 1	System Engineer:
Flight Eng: 1	AA: Defeo
Flt Director: Flaherty 1 Almeida	AA: Miller
Avionics:	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew

Name (Last, First)	Activity on Aircraft	Affiliation

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Recco

Times:

Fix #

Fix Time

Storm Name: Fay

Mission ID: NOAA 9 1906A

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center				
FLT ID: 080818N		T/O Time: 1741	Z	Lnd Time: 0116 Z
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure		1012.7	1000.8	1011.3
ATIS - Takeoff		1655 06005KT 105M 31/24 29.92		
ATIS - Land		0053 20005KT 105M 26/23 29.88		
Data Source	Number	Data Disposition / Date / Quality		
Flight Level Tapes	1	806rf06a.ads 806rf06b.ads 806rf06c.ads		
Radar Tapes	/	files are before takeoff		
Cloud Physics Tapes/CD's	/			
Video Tapes/DVD's	/			
Dropsondes	28	Good: 28	Bad: 0	Sent: 28
AXBT	/	1 ab stopped x-mitting @ 15 kft		
AXCP	/	but sent any way		
AXCTD	/			
SONOBUOY	/			
Remarks:				

use this file
for netCDF
data

N49RF AOC GPS Dropwindsonde Log

Flight ID: 080818N

Flight Director: Almeida/Flaherty

Mission ID: NOA47 19064

Track #: FAY #3 (day)

Pg 1 of

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	SFC Prs (mb)	Wx Cond.	Comments	Ob #	SatComm failures	Sent Time (UTC)
1	1	060226394	181745	26 01	78 59	1012.9	OVC				
4	2	062339015	182814	26 00	77 30	1013.1	OVC				
3	3	062339113	183838	25 55	76 03	1013.3	OVC				
1	4	062339019	185349	24 05	75 56	1012.3	OVC Ls Cu				
4	5	061339259	190432	24 00	74 27	1012.6	OVC Ls Cu	LATE LAUNCH DETECT @ 191017			
3	6	062339089	191454	24 05	73 03	1014.2	OVC Ls Cu				
1	7	062249264	192721	25 30	73 00	1013.7	OVC Ls Cu				
4	8	062049015	193954	26 57	73 04	1014.9	OVC Ls				
1	9	062339059	195509	27 04	74 56	1014.6	OVC Ls Ac				
4	10	062339064	201203	29 11	75 00	1014.6	OVC Ls				
1	11	062249177	202256	30 38	75 00	1014.2	OVC Ls				
2	12	061229087	203736	32 00	75 25	—	OVC Ls	Delayed - stopped @ 15 kfs			
1	13	062339116	205050	31 56	76 56	1013.9	OVC Ls				
4	14	061329021	210418	30 28	77 00	1013.1	OVC Ls				
1	15	062339088	211745	29 03	77 05	1013.5	OVC Ls				
4	16	062339068	213340	29 00	79 00	1014.6	OVC Ls				
1	17	062249214	221758	27 12	83 57	1010.2	OVC Ls Cu				
6	18	062339095	223126	25 44	84 00	1008.9	OVC Ls Cu	cb Get from L5			
3	19	062339111	224754	24 00	84 15	1007.9	BKN Ls Cu	cb Get from L5			
1	20	061449061	230124	24 00	86 00	1009.6	OVC Ls Cu				
4	21	061519015	231640	24 00	88 01	1010.3	BKN Ls Cu				
1	22	062839058	233146	24 04	89 57	1010.7	BKN Ls Cu				
4	23	062339090	234803	25 57	89 55	1011.0	OVC Ls Cu				
1	24	062259018	235844	26 00	88 30	1011.3	BKN Ls Cu	Haze			
2	25	062439008	000931	26 04	87 04	1011.3	BKN Ls Cu	Haze			
1	26	062339092	002531	27 57	87 05	1011.1	OVC AC Cu	Haze			
4	27	062249022	003651	28 00	88 31	1011.4	DARK				
1	28	062249281	004725	28 02	89 55	1011.3	DARK				

FF06C

N49RF AVAPS DropSonde Log

Project: HURR 08 Flight ID: 080818NA Flt Dir: JACKIE

Mission: FAN Flight #: 4 Status: Sys 1 ☒ Sys 2 ☒ Launcher S/N: 2

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments /Status/ Failure Reason	\$	GOOD ☒
1	060 226 394	1	18:17:46	-4	22	GD			☒
2	062 339 015	4	18:28:14	0	6	1			☒
3	062 339 113	3	18:3:38	0	4				☒
4	062 339 019	1	18:53:50	5	10				☒
5	061 339 259	4	19:10:18	0	?		VERY LATE / AUNKH DEL		
6	062 339 089	3	19:14:51	0	4				☒
7	062 249 264	1	19:27:22	0	6				
8	062 049 015	4	19:37:54	0	4				
9	062 339 059	1	19:55:10	0	5				
10	062 339 064	4	20:12:03	+4	8				
11	062 249 177	1	20:22:57	0	10				
12	061 229 087	2	20:38:30	0	7				
13	062 339 116	1	20:58:50	0	6		WEAK T&E		
14	061 329 021	4	21:04:18	0	5				
15	062 339 088	1	21:17:46	0	6				
16	062 339 068	4	21:33:40	0	10				
17	062 249 214	1	22:17:58	0	4				
18	062 339 095	4	22:31:27	+4	5		RS FROZE SONDE IN AIR		
19	062 339 111	6	22:47:54	0	5		RS FROZE		
20	061 449 061	1	23:01:24	0	5				
21	061 519 015	4	23:16:41	0	4				
22	062 839 058	1	23:31:46	0	6				
23	062 339 090	4	23:48:03	0	6				
24	062 259 018	1	23:58:45	0	6				
25	062 439 008	2	00:09:31	0	6				
26	062 339 092	1	00:25:32	0	6				
27	062 249 022	4	00:36:51	0	3				
28	062 249 281	1	00:47:26	0	5				
29									
30									
31									
32									
33									

\$ Codes A = AOC N = NHC/NWS H = HRD OW = NESDIS _____ = _____ = _____

080818N2

FLIGHT ID/Storm

1906A FAY

AVAPS OPERATOR

FLIGHT DIRECTOR

	Drop #	Launch Time	Sonde ID	Sig Wx	Splash Pressure	Transmission Time	Notes
1	1	181745	1745	OK		144040	OK
2	2	182814	2814	OK		145318	OK
3	3	183838	3838	N/A		150418	OK
4	4	185349	9019	N/A	1012.3	152228	OK (PRESS)
5	5	190432	9019	N/A	1012.6	153822	HAS TO EDIT + SIGNATURE FILES. HAD TO EDIT D FILE + INPUT LAUNCH PARAMETERS
6	6	191454	39089	OK + CHOP	1014.2	154210	OK
7	7	192721	49264	OK + CHOP	1013.7	155043	OK
8	8	193954	—	CHOPPY	1014.9	161730	OK
9	9	195509	39059	CHOPPY	1014.6	161954	OK
10	10	201203	39064	CHOPPY	1014.6	164327	OK
11	11	202256	49117	N/A	1014.2	164844	OK
12	12	203736	29087	N/A	1014.2MA	173039	SONDE DIED FAY
13	13	205050	39116	N/A	1013.9	173233	OK
14	14	210418	29021	N/A	1013.1	173354	OK (PRESS) 181508
15	15	211745	39088	N/A	1013.5	173806	OK
16	16	213340	39068	N/A	1014.6	175831	OK
17	17	221758	49214	N/A	1010.2	184617	OK
18	18	223126	39095	N/A	1008.9	185430	OK
19	19	224754	39111	N/A	1007.9	191200	OK
20	20	230124	49061	N/A	1009.6	193104	OK
21	21	231640	19015	N/A	1010.3	200010	OK
22	22	233146	39058	N/A	1010.7	201245	OK
23	23	234803	39090	N/A	1011.0	202921	OK
24	24	235844	59018	N/A	1010.9	203453	OK
25	25	000931	39008	N/A	1011.3	204145	OK
26	26	002532	39092	N/A	1011.1	205103	OK
27	27	003851	49022	N/A	1011.4	205518	OK
28	28	004725	49209	N/A	1011.3	210749	OK
29							
30							
31							
32							
33							
34							
35							

28 OBS
28 SONDES

080818n.log	Latitude	Longitude	Press	Temp	DP	WD	WS	MSL Alt	G Alt	Heading	Track	TAS	GS	V Vel	Event Comments
17:26:28	27 50.95'N	82 29.61'W	1012.1	33.4	22.9	108.7	4.3	9.4	9.4	133.6	192.5	4.4	0.4	-0.00	test
17:31:43	27 50.95'N	82 29.61'W	1012.1	36.7	22.8	112.7	4.5	7.9	7.9	133.7	174.5	4.8	0.4	0.01	block out
17:38:54	27 50.56'N	82 31.50'W	1012.0	30.9	23.3	122.5	3.9	12.1	12.1	219.5	221.2	11.1	10.9	0.02	spike in data @
~1729z - near engine start															
17:41:24	27 51.04'N	82 31.20'W	1004.2	29.7	22.8	100.8	3.6	52.6	52.5	40.1	38.9	92.7	90.3	11.04	t/o
17:52:12	27 30.24'N	81 42.72'W	554.7	-2.0	-6.7	45.8	6.2	5013.4	5005.0	119.5	120.9	198.4	196.5	8.24	light-mod turbulence
passing through clouds															
18:17:44	26 00.91'N	78 58.67'W	181.2	-57.1	-54.6	197.1	5.0	13003.1	12963.6	107.5	106.5	222.6	222.5	3.66	drop 1
18:28:13	26 00.00'N	77 29.96'W	175.8	-58.5	-59.5	256.4	10.4	13198.0	13157.5	91.1	90.4	227.0	237.1	0.12	drop 2
18:31:15	26 00.10'N	77 03.85'W	175.5	-59.3	-60.6	269.1	11.7	13204.4	13163.9	90.1	90.0	229.8	241.4	0.02	light turbulence
18:38:36	25 54.62'N	76 02.51'W	175.7	-59.1	-62.4	261.8	8.8	13197.3	13156.7	148.7	145.7	228.5	232.2	0.26	drop 3
18:53:49	24 03.65'N	75 56.06'W	174.8	-58.9	-63.3	300.0	10.7	13197.8	13155.4	134.6	134.8	228.4	238.7	-0.14	drop 4
19:04:09	24 00.02'N	74 30.33'W	174.3	-59.0	-63.3	330.0	15.0	13213.0	13170.6	86.8	90.1	230.7	237.8	3.00	climbing to FL420
19:04:32	24 00.03'N	74 27.13'W	171.4	-59.9	-63.4	323.2	16.6	13319.6	13276.5	86.2	89.5	227.3	236.7	1.32	drop 5
19:14:55	24 04.70'N	73 03.11'W	167.6	-60.5	-65.9	312.5	22.1	13491.5	13447.6	32.8	39.1	224.2	221.8	-0.31	drop 6
19:27:19	25 30.10'N	73 00.03'W	167.6	-61.6	-66.2	297.3	23.1	13494.8	13452.2	355.2	0.3	226.3	214.8	-0.12	drop 7
19:39:54	26 56.56'N	73 04.36'W	167.7	-62.5	-67.2	288.9	23.8	13480.5	13439.4	310.6	313.6	226.3	204.4	0.18	drop 8
19:55:08	27 04.12'N	74 56.30'W	167.8	-62.0	-66.5	257.2	22.1	13496.3	13455.3	313.8	317.6	229.4	217.6	0.25	drop 9
20:03:52	28 07.62'N	74 59.96'W	167.7	-62.1	-64.6	258.8	24.9	13484.8	13444.9	353.6	359.6	223.8	227.2	-1.03	some turbulence
20:07:00	28 30.82'N	74 59.97'W	165.8	-62.4	-65.7	259.2	24.4	13553.9	13514.1	354.0	359.7	226.4	229.5	3.04	climbing to FL430
20:12:23	29 11.08'N	74 59.97'W	160.0	-64.3	-66.0	258.7	29.0	13762.5	13722.4	352.6	359.8	225.7	229.4	0.86	drop 10
20:21:32	30 19.47'N	74 59.99'W	159.9	-64.7	-68.6	248.9	34.1	13744.3	13705.5	352.0	360.0	223.5	233.5	-0.46	some turbulence
20:22:56	30 30.08'N	74 59.99'W	159.9	-63.9	-68.7	252.1	37.8	13745.3	13706.6	350.9	360.0	225.4	234.1	-0.10	drop 11
20:37:40	32 00.16'N	75 25.15'W	160.0	-64.2	-68.8	242.9	47.4	13718.0	13681.2	264.6	269.9	224.7	181.4	0.11	drop 12
20:50:50	31 56.05'N	76 56.01'W	159.8	-64.4	-68.9	233.6	43.7	13719.4	13682.5	224.5	222.8	225.9	182.7	-0.08	drop 13
21:04:17	30 29.94'N	76 59.93'W	160.3	-63.0	-68.7	235.8	35.4	13744.9	13706.3	187.6	180.4	223.9	201.9	0.03	drop 14
21:04:37	30 27.76'N	76 59.93'W	159.9	-63.4	-68.7	230.4	35.1	13752.9	13714.2	187.2	180.4	226.0	201.7	0.32	light turbulence
21:16:53	29 07.49'N	77 01.18'W	159.9	-64.3	-68.0	217.8	25.2	13767.7	13727.5	207.2	204.8	224.0	199.4	0.68	climbing to FL440
21:17:43	29 03.20'N	77 04.77'W	157.4	-65.2	-67.9	225.4	26.8	13863.1	13822.3	229.3	229.2	225.8	199.0	2.35	drop 15
21:33:38	28 59.68'N	79 00.26'W	152.4	-66.2	-70.3	220.6	36.4	14053.6	14011.8	253.0	259.1	224.3	194.6	0.49	drop 16
22:17:56	27 12.40'N	83 57.42'W	152.2	-64.9	-69.8	177.2	26.1	14068.3	14024.5	206.3	210.4	224.8	202.4	0.51	drop 17
22:31:27	25 44.45'N	83 59.95'W	152.2	-64.4	-69.5	144.4	22.5	14089.5	14044.0	177.2	180.6	225.0	206.4	-0.28	drop 18
22:46:34	24 02.63'N	84 05.35'W	151.9	-64.5	-69.6	152.4	14.1	14095.5	14048.3	230.5	233.3	226.4	223.6	2.58	climbing to FL450
22:47:54	24 00.04'N	84 15.25'W	145.1	-65.7	-69.6	176.0	13.7	14376.2	14327.4	267.4	270.8	226.1	226.8	-0.45	drop 19
23:01:24	23 59.97'N	86 00.29'W	145.1	-64.9	-70.4	200.4	17.1	14359.9	14311.1	266.5	270.4	225.2	218.7	-0.24	drop 20
23:16:41	24 00.02'N	88 01.31'W	144.9	-63.9	-70.3	256.1	5.1	14364.9	14316.2	270.6	270.7	227.2	222.2	-0.49	drop 21
23:31:45	24 04.37'N	89 56.56'W	145.0	-65.9	-70.8	303.9	12.8	14360.2	14311.5	319.0	319.0	224.8	212.4	0.20	drop 22
23:48:03	25 56.75'N	89 55.45'W	145.0	-65.8	-71.8	344.6	12.7	14357.1	14310.4	45.8	47.8	225.2	219.2	0.57	drop 23
23:58:46	26 00.02'N	88 29.49'W	144.9	-65.8	-71.7	353.2	13.8	14361.5	14314.8	87.3	90.8	225.1	226.4	0.30	drop 24
00:09:29	26 04.16'N	87 03.56'W	145.1	-64.2	-71.4	354.5	6.4	14354.7	14308.1	39.6	41.5	224.3	219.9	0.21	drop 25
00:25:28	27 56.63'N	87 04.65'W	145.1	-66.1	-71.3	266.1	16.6	14339.5	14295.0	309.8	313.4	223.2	211.5	-0.09	drop 26
00:36:44	27 59.91'N	88 31.28'W	145.0	-66.3	-72.2	233.2	16.2	14346.4	14301.9	269.4	271.7	224.5	211.5	0.53	drop 27
00:47:24	28 02.32'N	89 54.89'W	144.9	-66.0	-72.0	288.1	16.7	14345.0	14300.6	304.2	304.7	224.5	208.4	-0.25	drop 28
01:16:02	30 00.07'N	90 14.77'W	1009.9	26.7	23.2	39.5	4.5	4.7	4.7	195.3	197.0	68.3	72.4	-1.20	land
01:24:19	29 59.84'N	90 15.86'W	1010.8	26.6	21.1	49.8	5.4	2.0	2.0	197.6	227.6	0.4	5.7	-0.00	block in



