

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

FLT ID: 080816N	From: KMCF	To: KMCF
FLT #: 08-036	Blk In: 0142 ^{8.2}	Und Time: 0142 Z
ETD: 1730 Z	Blk Out: 1719 Z	T/O Time: 1730 Z
ETE: 8hrs 15min	Total Blk: 8hrs 33mins	Total Flt: 8hrs 12min
Sponsoring Org: NHC	Program: HUR08	Purpose: Surveillance

AOC Flight Crew

Aircraft Commander: HAGAN	Data System: ROGERS
Co-Pilot: ODELL / GLOVER	Avaps:
Navigator: /	System Engineer:
Flight Eng: /	AA: DEFED
Flt Director: FLAHERTY 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
Teal 73			
Storm Name: Fay 21 drops			
Mission ID: NOAA9 1106A FAY			

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

FLT ID: 080816N T/O Time: 1730 Z Lnd Time: 0142 Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	ps ^{1M} 1017.1	1017.1	ps ^{1M} 1013.9	1017.7

ATIS - Takeoff 1632Z 10SM TS BKN027CB 30/25 3005

ATIS - Land 0155Z 10SM SCT160 BKN190 27/24 3007

Data Source	Number	Data Disposition / Date / Quality
-------------	--------	-----------------------------------

Flight Level Tapes	1	1.ads file 806rf04a.ads
--------------------	---	-------------------------

Radar Tapes	—	
-------------	---	--

Cloud Physics Tapes/CD's	—	
--------------------------	---	--

Video Tapes/DVD's	—	
-------------------	---	--

--	--	--

Dropsondes	23	Good: 21 Bad: 2 Sent: 21
------------	----	--------------------------

AXBT	—	
------	---	--

AXCP	—	
------	---	--

AXCTD	—	
-------	---	--

SONOBUOY	—	
----------	---	--

Remarks:

N49RF AOC GPS Dropwindsonde Log

Flight ID: 080816N

Flight Director: Flaherty / Almeida

Mission ID: N04A9 1106A FA Track #: day flight 1

Pg 1 of 1

Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	SFC Pres (mb)	Wx Cond.	Comments	Ob #	SatComm failures	Sent Time (UTC)
1	061449009	175820	28°	078°56	1016.5	OVC C5 Cu		1		
2	062339070	182158	27°33	076°	—	SET Cu C5 Cb	delayed drop probe	3		
3	062259004	184326	25°03	075°55	1013.8	OVC C5 Cu		3		
4	062049220	190344	25°05	073°03	1014.5	OVC TCU C5 Cu		4		
5	062339069	192800	27°57	072°55	1015.3	BKN TCU ASCu		5		
6	061329133	194746	27°56	070°03	1015.4	SAT Cu Alt		6		
7	062049078	201216	24°52	070°00	1014.3	OVC C5 Cb	delayed to pass Cb	7		
8	062049184	202701	23°00	070°00	—	OVC C5 C5	NO launch detect	8		
9	062049027	202817	22°40	070°00	1012.7	OVC C5 C5		9		
10	062439069	204234	21°03	069°56	—	OVC C5	NO launch detect	10		
11	062049021	204451	21°00	069°37	1012.6	OVC C5		11		
12	062049023	210420	21°04	067°03	1013.0	OVC C5 Cu		12		
13	062049164	212622	23°30	067°00	1014.2	BKN C5 Cu		13		
14	062249103	214839	26°00	067°00	1015.2	OVC C5	winds a little messy	14		
15	062439054	221011	28°30	067°00	1017.2	SET Cu Alt		15		
16	060416025	223055	30°56	067°04	1017.6	OVC C5 Cu		16		
17	054626145	225237	31°05	069°56	1016.5	OVC C5 Cu		17		
18	062939229	231637	33°57	070°05	1016.1	OVC C5 Cu		18		
19	060249193	233918	33°56	070°05	1015.2	OVC C5	PS from Alt	19		
20	062339161	000433	31°03	073°05	1016.3	Night OVC		20		
21	062339160	002016	31°00	075°00	1015.4	Night		21		
22	061329037	003645	30°59	077°00	1015.2	Night		22		
23	061329034	005512	29°59	079°00	1014.6	Night		23		

N49RF AVAPS DropSonde Log

Project: HURR 08 Flight ID: 080816N Flt Dir: ALMEIDA

Mission: FAY Flight #: 1 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	061 449 069	1	17:58:20	0.0	4	GD			☒
2	062 339 070	6	18:21:05	0	30		SAT TROUBLE RS		☒
3	062 259 004	1	18:43:21	.4	3				☒
4	062 049 220	4	19:03:45	0	4				☒
5	062 339 069	1	19:28:01	0	5				☒
6	061 329 133	4	19:47:40	0	7				☒
7	062 049 078	1	20:12:10	0	10				☒
8	062 049 184	4		0			NO LAUNCH DETECT		☒
9	062 049 027	2	20:29:18	0	6				☒
10	062 439 019	1		.4			NO LAUNCH DETECT		☒
11	062 049 021	4	20:44:52	0	4.5				☒
12	062 049 023	1	21:04:21	-1.6	5				☒
13	06 049 164	4	21:26:22	0	5				
14	062 249 103	1	21:48:39	0	6				
15	062 439 054	4	22:10:11	0	5				
16	060 416 025	1	22:30:55	0	6				
17	054 626 145	4	22:52:37	0	6				
18	062 839 229	1	23:16:38	0	6				
19	060 226 193	1	23:39:18	0	8				
20	062 339 101	1	00:09:33	0	4				
21	062 339 100	4	00:20:17	0	5				
22	061 329 037	1	00:36:46	0	5				
23	061 329 034	4	00:55:43	0	4				
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									

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

17:30

080816N

DIPSONE LOG
FWBC

	Drop #	Launch Time	Sonde ID	Sig Wx	Transmitted (time)	Notes
1	1	175820	061449089	N/A	143303	OK
2	2	182107	—	N/A	151634	NO LAUNCH DETECT MUCH EDITING
3	3	184326	—	N/A	152532	OK
4	4	190344	—	N/A	152802	OK
5	5	192800	062339069	N/A	155405	OK
6	6	194746	061329133	N/A	162314	OK
7	7	202216	—	N/A	171002	OK
8	8	202201	—	—	—	—
9	8	202917	—	N/A	171343	OK
10	9	204234	—	—	—	—
11	9	204451	062049021	N/A	171638	OK
12	10	210420	062049023	N/A	173446	OK
13	11	212622	062049169	N/A	181116	OK
14	12	214839	062249103	N/A	181614	OK
15	13	221011	062439054	N/A	183827	OK SCARCAH
16	14	223055	060416025	N/A	191522	OK
17	15	225237	0541626145	N/A	192100	OK
18	16	231637	062839229	N/A	195314	LAUNCH PRESSURE OFF
19	17	233918	060226913	N/A	201424	" " "
20	18	000433	—	N/A	203403	" " "
21	19	002016	—	N/A	204645	OK
22	20	003645	061329037	N/A	205957	OK
23	21	005542	061329034	N/A	211350	OK
24						
25						
26						
27						
28						
29						
30						
31						
32						

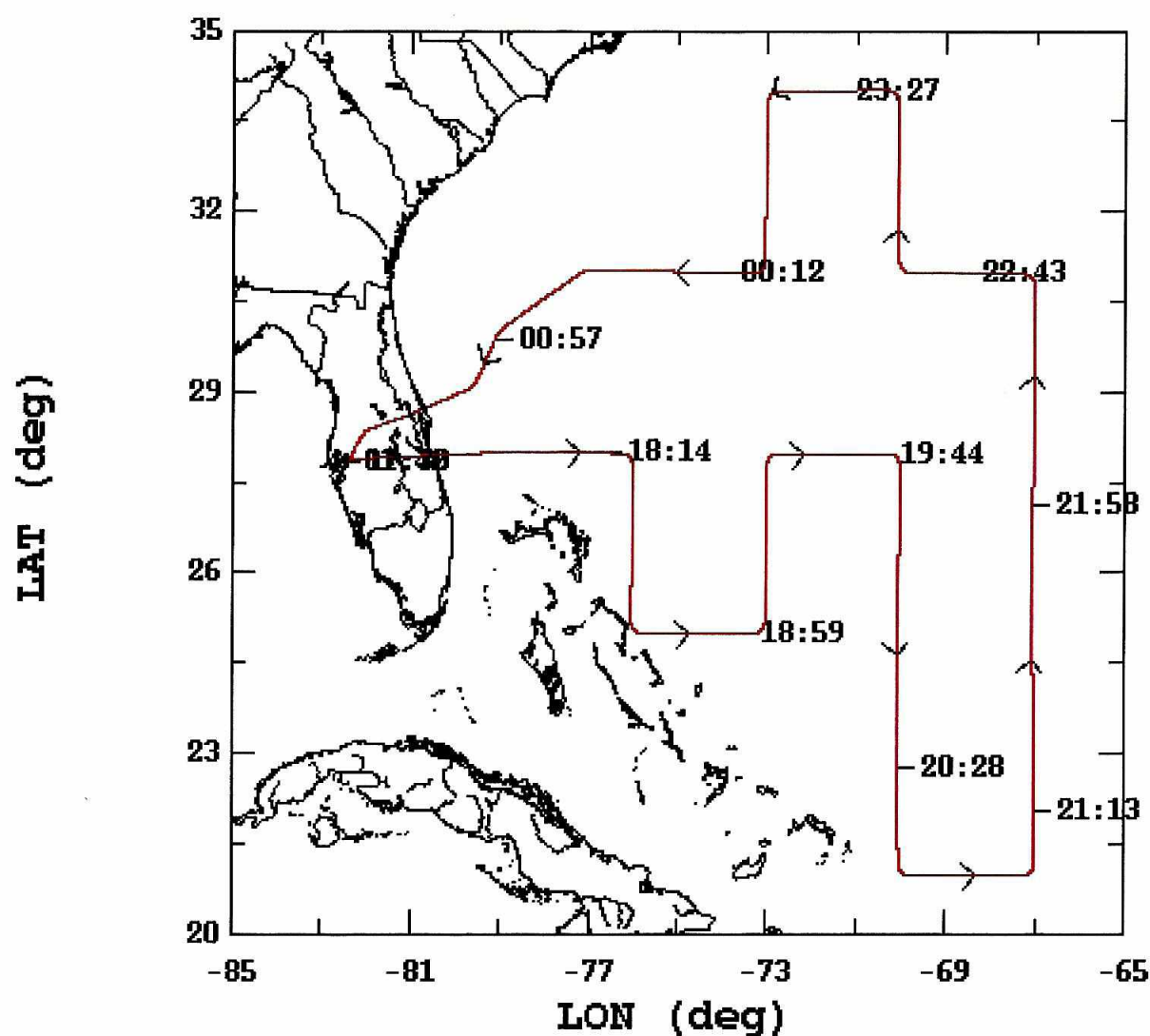
DNE
FWBC 193624
ON RESUME

21 of 23

080816n..log	Latitude	Longitude	Press	Temp	DP	WD	WS	MSL Alt	G Alt	Heading	Track	TAS	GS	V Vel	Event Comments
17:20:33	27 50.86'N	82 29.57'W	1082.0	44.6	22.6	136.9	220.2	9.8	9.8	135.4	140.6	227.2	5.1	-0.02	blocked out at 1719z
17:20:33	27 50.86'N	82 29.57'W	1082.0	44.6	22.6	136.9	220.2	9.8	9.8	135.4	140.6	227.2	5.1	-0.02	blocked out at 1719z
17:30:13	27 50.71'N	82 31.52'W	1016.9	26.1	24.3	186.7	3.2	9.2	9.2	40.0	40.2	75.7	78.3	0.27	t/o
17:39:33	27 54.79'N	81 37.67'W	499.2	-6.1	-4.9	294.8	4.0	5905.9	5895.3	86.8	87.4	208.7	211.9	11.63	passing through cb,
some lightning present	28 00.04'N	78 56.01'W	183.2	-57.0	-55.7	201.6	2.6	12889.8	12852.7	90.3	89.7	225.4	226.3	4.56	drop 1
17:58:27	28 00.18'N	76 21.35'W	174.4	-60.0	-65.0	290.8	9.1	13174.3	13135.8	90.2	90.8	229.9	238.4	0.06	notified of probs in
back with drop station	27 36.05'N	75 59.98'W	172.4	-59.9	-65.4	235.8	13.5	13170.0	13131.2	183.4	180.5	230.1	222.2	0.17	tight turbulence -
cat	27 33.30'N	75 59.98'W	172.6	-59.4	-65.4	239.1	16.0	13170.9	13132.0	183.8	180.5	231.2	222.3	-0.24	drop 2
18:21:58	25 21.48'N	76 00.00'W	163.6	-59.7	-63.9	199.9	19.1	13198.5	13157.4	182.3	180.5	234.2	216.0	-0.45	tight turbulence
entering clouds	25 02.90'N	75 54.99'W	156.2	-63.0	-63.9	196.5	10.0	13479.0	13436.1	130.4	129.0	235.0	230.9	3.57	drop 3
18:43:15	25 00.28'N	75 24.14'W	155.9	-63.1	-65.7	243.4	5.4	13483.9	13440.9	89.9	89.2	234.1	238.9	-0.04	entering cs layer
18:46:57	25 04.70'N	73 03.08'W	158.8	-62.5	-66.3	308.7	19.2	13482.4	13439.5	34.2	39.8	231.2	230.7	-0.28	drop 4
19:03:44	26 10.79'N	73 00.05'W	165.9	-60.6	-66.7	283.2	28.5	13469.4	13427.6	353.9	0.7	228.0	220.1	-0.39	tight turbulence in
19:12:58	27 57.12'N	72 55.01'W	166.8	-61.1	-68.3	291.7	26.4	13469.4	13429.4	45.5	50.2	229.4	240.8	-0.29	drop 5
cs layer	27 55.69'N	70 03.37'W	168.1	-60.1	-68.1	32.0	4.5	13454.5	13414.6	139.9	140.0	228.1	229.5	-0.60	drop 6
19:47:42	26 13.66'N	69 59.98'W	158.8	-63.0	-68.1	305.9	7.3	13761.4	13718.2	182.5	181.0	226.2	230.3	-0.48	tight turbulence
20:01:32	24 52.26'N	70 00.03'W	158.7	-63.6	-69.1	318.9	11.8	13771.5	13726.9	182.5	180.5	226.8	235.4	-0.21	drop 7 - a little
near some tcu	22 59.56'N	70 00.09'W	162.1	-63.2	-69.4	300.7	13.8	13781.8	13735.4	182.5	179.5	225.5	232.3	0.50	drop 8 - no launch
late b/c of cb at drop pt	22 40.39'N	70 00.08'W	162.0	-63.1	-69.4	304.4	14.9	13785.9	13739.1	182.5	179.3	225.6	233.7	-0.09	drop 9 - ob 8
20:27:01	21 22.52'N	70 00.04'W	162.1	-63.7	-69.6	311.6	15.2	13779.5	13731.7	181.8	179.0	225.2	235.2	0.40	Light turbulence in
detect	21 03.41'N	69 55.78'W	162.0	-63.6	-69.6	328.2	15.0	13786.8	13738.6	130.4	132.3	225.1	239.5	-0.15	drop 10 - no launch
cs layer	21 00.15'N	69 37.00'W	162.1	-63.7	-69.8	323.4	20.7	13780.0	13731.8	85.7	89.8	224.0	235.7	-0.26	drop 11 - ob 9
20:45:01	21 04.73'N	67 02.90'W	159.7	-63.5	-69.4	325.8	29.1	13762.8	13714.7	31.6	39.2	227.9	217.9	0.04	drop 12 - ob 10
21:04:19	23 30.03'N	66 59.96'W	118.4	-69.2	-70.1	331.0	52.5	13736.2	13690.4	353.7	359.1	223.7	206.1	-0.30	drop 13 - ob 11
21:26:19	26 00.34'N	67 00.05'W	153.9	-61.6	-69.1	313.7	17.2	14023.6	13978.8	357.1	0.1	224.5	212.2	-0.12	drop 14 - ob 12
21:48:37	28 30.27'N	67 00.01'W	153.6	-60.5	-69.9	310.8	15.7	14039.5	13997.2	357.8	0.6	227.7	217.2	-0.20	drop 15 - ob 13
22:10:10	30 56.37'N	67 04.15'W	153.8	-63.3	-70.5	284.5	9.2	14038.3	13998.7	313.2	314.9	225.7	217.7	-0.61	drop 16 - ob 14
22:30:54	31 04.46'N	69 56.46'W	147.2	-65.3	-71.3	250.5	13.7	14328.3	14287.4	317.0	319.4	225.1	219.7	0.34	drop 17 - ob 15
22:52:37	33 56.66'N	70 04.66'W	137.6	-63.5	-71.9	269.1	30.0	14275.3	14238.1	308.3	314.0	233.2	211.0	0.46	drop 18 - ob 16
23:16:36	33 56.41'N	72 55.62'W	94.4	-74.4	-71.3	239.3	73.2	14249.6	14212.5	227.4	223.5	263.7	192.4	0.44	drop 19 - ob 17
23:39:17	33 04.27'N	72 59.93'W	92.3	-75.8	-72.0	209.3	57.4	14268.8	14230.5	186.4	180.1	266.3	214.7	-1.01	note problems with
23:47:03	31 03.34'N	73 04.60'W	107.3	-71.5	-72.7	235.8	46.0	14320.9	14280.0	230.5	228.4	252.7	207.0	-0.20	drop 20 - ob 18
the static pressure reading too low.	30 59.97'N	75 00.35'W	144.8	-66.7	-72.7	254.2	71.2	14298.0	14257.2	267.2	271.6	262.5	193.6	-0.35	drop 21 - ob 19
00:04:32	31 00.06'N	75 12.95'W	144.7	-67.1	-72.8	254.0	67.7	14304.1	14263.2	267.3	271.8	259.6	194.2	0.12	forgot to note when
00:20:16	30 59.97'N	75 00.02'W	144.8	-67.5	-73.5	245.8	63.2	14291.0	14250.2	252.1	254.6	254.4	191.7	-0.00	drop 22 - ob 20
00:22:00	29 59.48'N	77 00.09'W	144.8	-67.5	-73.6	228.1	69.5	14320.0	14277.9	222.7	220.9	267.4	198.2	0.35	drop 23 - ob 21
Mark reset the winds display 2x.	27 50.44'N	82 31.77'W	1013.3	-28.4	-22.9	160.8	2.0	11.1	11.1	38.9	37.6	68.3	69.4	-0.40	land
00:55:43	27 50.44'N	82 31.77'W	1013.3	-28.4	-22.9	160.8	2.0	11.1	11.1	38.9	37.6	68.3	69.4	-0.40	land
01:41:43	27 50.97'N	82 29.59'W	1014.1	-70.1	-21.3	208.3	3.6	3.3	3.3	132.7	27.4	0.3	3.2	-0.00	block in
01:51:46															

Hurricane_2008, Flight #rf04

08/16/2008, 17:30:00-25:42:00



	mean	sigma	min	max
 LAT (deg), 1 s/sec	27.85	3.45	20.96	34.01
LON (deg), 1 s/sec	-72.90	4.75	-82.68	-66.99

A hand-drawn map of the North Atlantic Ocean, showing a yellow track with numbered points 1 through 20. The track starts near Iceland, goes east, then south, then east again, and finally south towards the Azores. Various coordinates and labels are written along the track, including 'C-130', 'C-14', and '1013.8'. A compass rose is visible in the upper left.

Crossing frontal boundary @ ~ #17-16, 18...

W 280 13 kts

interacting w/ this parola + cuba, jamaica etc
however we will be far N. of most of the
WX

SST ~ 29-30°C ~ 84-86°F

To -SARA VC TS 50006 kt

BKN 030 CB 080 250

Radar mostly East
of us.

Currently calm SCT 026 SCT 250

S + R 3006 kt SCT 020 -040

convective
Sigmets FL 42-450

FL winds @ first

w/ NW 30-40 kts

No fireys

back in near front up to 50-60 kts