

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

FLT ID: 080816N	From: KMCF	To: KMCF
FLT #: 08-036	Blk In: 0142 8.5	Und Time: 0142 z
ETD: 1730 z	Blk Out: 1719 z	T/O Time: 1730 z
ETE: 8 hrs 15 min	Total Blk: 8 hrs 33 mins	Total Flt: 8 hrs 12 min
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			

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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
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Flight Level Tapes	1	1.ads file 806rf04a.ads
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Radar Tapes	—	
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Cloud Physics Tapes/CD's	—	
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Video Tapes/DVD's	—	
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Dropsondes	23	Good: 21 Bad: 2 Sent: 21
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AXBT	—	
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AXCP	—	
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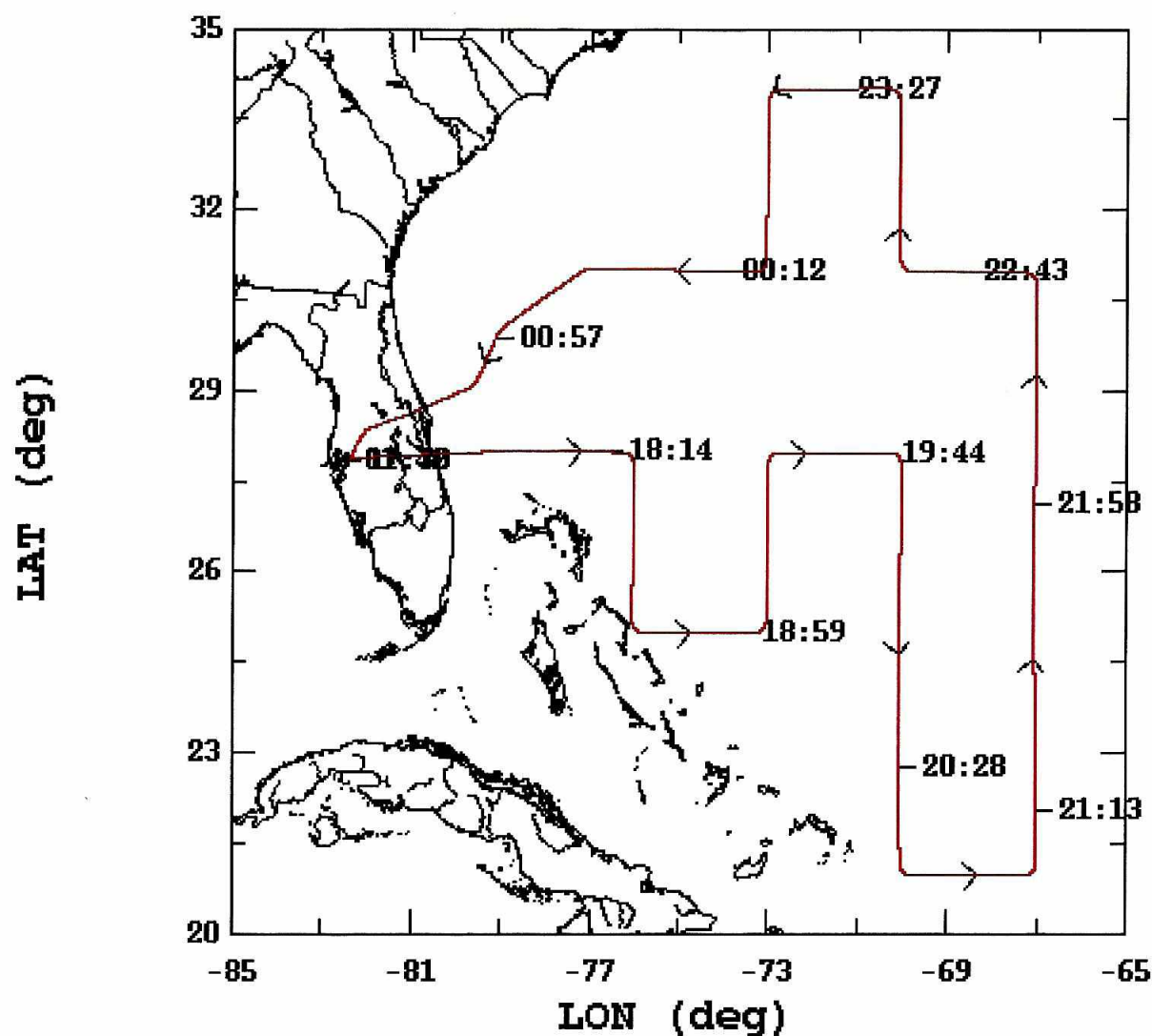
AXCTD	—	
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SONOBUOY	—	
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Remarks:

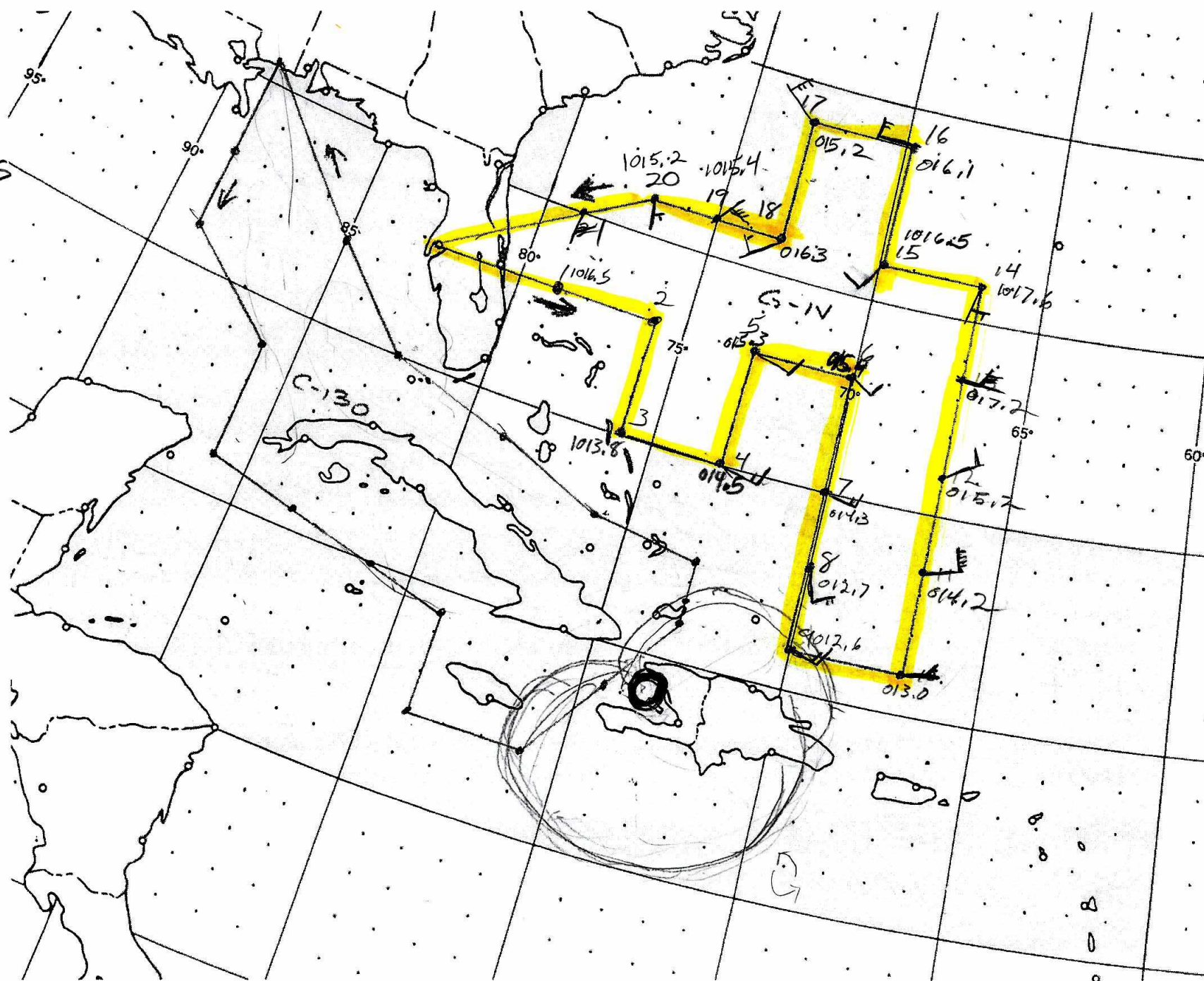
Hurricane_2008, Flight #rf04

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

8 hrs
14 min



N49RF AOC GPS Dropwindsonde Log

Flight ID: 080816 N

Flight Director: Flaherty / Almeida

Mission ID: NOAA9 11064 FAI

Track #: day flight 1

Pg 1 of 1

Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	SFC Prs (mb)	Wx Cond.	Comments	Ob #	SatComm failures	Sent Time (UTC)
1	061449069	175820	28°	078° 56	1016.5	ovc Cs Cu		1		
2	062339070	182158	27° 33	076°	—	Sct Cu Cs Cb	delayed drop prob	2		
3	062259004	184326	25° 03	075° 55	1013.8	ovc Cu Cs Cu		3		
4	062049220	190344	25° 05	073° 03	1014.5	ovc Tcu Cs Cu		4		
5	062339069	192800	27° 57	072° 55	1015.3	BKN Tcu As Cu		5		
6	061329133	194746	27° 56	070° 03	1015.4	Sct Cu Ac		6		
7	062049078	201216	24° 52	070° 00	1014.3	ovc Cs Cu Cb	delayed to pass Cb	7		
8	062049184	202701	23° 00	070° 00	—	ovc Cu Cs	NO Launch detect			
9	062049027	202917	22° 40	070° 00	1012.7	ovc Cu Cs		8		
10	062439019	204234	21° 03	069° 56	—	ovc Cs	No Launch Detect + No D-file			
11	062049021	204451	21° 00	069° 37	1012.6	ovc Cs		9		
12	062049023	210420	21° 04	067° 03	1013.0	ovc Cs Cu		10		
13	062049164	212622	23° 30	067° 00	1014.2	BKN Cs Cu		11		
14	062249103	214839	24° 00	067° 00	1015.2	ovc Cs	winds a little messy	12		
15	062439054	221011	28° 30	067° 00	1017.2	Sct Cu H2		13		
16	060416025	223055	30° 56	067° 04	1017.6	ovc Cs Cu		14		
17	054626145	225237	31° 05	069° 56	1016.5	ovc Cs Cu		15		
18	062839229	231637	33° 57	070° 05	1016.1	ovc Cs Cu		16		
19	060226193	233918	33° 56	070° 05	1015.2	ovc Cs	Ps from A/C ↓	17		
20	062339101	000433	31° 03	073° 05	1016.3	Night+ ovc		18		
21	062339100	002016	31° 00	075° 00	1015.4	Night+		19		
22	061329037	003645	30° 59	077° 00	1015.2	Night+		20		
23	061329034	005512	29° 59	079° 00	1014.6	Night+		21		

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

Dropsound 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						

DNR
FWBC 193624
ON RESSEND

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															
17:58:27	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
18:16:33	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															
18:21:35	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	light turbulence -
cat															
18:21:58	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
18:40:29	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	light turbulence
entering clouds															
18:43:15	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
18:46:57	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
19:03:44	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
19:12:58	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	light turbulence in
cs layer															
19:27:58	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
19:47:42	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
20:01:32	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	light turbulence
near some tcu															
20:12:13	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
late b/c of cb at drop pt															
20:27:01	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
detect															
20:29:33	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
20:39:55	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
cs layer															
20:42:34	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
detect															
20:45:01	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
21:04:19	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
21:26:19	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	253.7	206.1	-0.30	drop 13 - ob 11
21:48:37	26 00.34'N	67 00.05'W	153.9	-61.6	-70.1	313.7	17.2	14023.6	13978.8	357.1	0.1	224.5	212.2	-0.12	drop 14 - ob 12
22:10:10	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
22:30:54	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
22:52:37	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
23:16:36	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
23:39:17	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
23:47:03	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
the static pressure reading too low.															
00:04:32	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
00:20:16	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
00:22:00	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
Mark reset the winds display 2x.															
00:36:44	30 59.48'N	77 00.09'W	144.8	-67.9	-73.5	245.8	63.2	14291.0	14250.2	252.1	254.6	254.4	191.7	-0.00	drop 22 - ob 20
00:55:43	29 59.17'N	79 00.02'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
01:41:43	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
01:51:46	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

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

~ 280 13 kts

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

SST ~ 29-30°C ~ 84-86°F

To -SARA VCTS 30005KT
BKN030CB 080 250

Radar Mostly East
of us.

Currently calm SCT 026 SCT 250

S + R 330.06KT SCT 020 -040

convective
Signets FL 42-450

FL winds @ first
w/ NW 30-40 kts

No fireys

back in near front up to 50-60 kts