

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

FLT ID: 080902N	From: KMCF	To: KSAV
FLT #: 08-052	Blk In: 0122	Lnd Time: 0116 z 78
ETD: 1730 z	Blk Out: 1717	T/O Time: 1728 z 78
ETE: 7hrs 40min	Total Blk: 8hrs 5min	Total Flt: 7hrs 48min
Sponsoring Org: NHC	Program: HURR08	Purpose: Surveillance

AOC Flight Crew

Aircraft Commander: HAGAN	Data System: ROGERS
Co-Pilot: ODELL LONGENECKER	Avaps:
Navigator: 1	System Engineer:
Flight Eng: 1	AA: CARPENTER
Flt Director: ALMEIDA MAYEAUX	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)

Storm Name: HANNA

Mission ID: NOAA 9 0408 A

Recco

Times:

Fix #

Fix Time

912-330-5555

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

FLT ID: 080902N T/O Time: 1728 Z Lnd Time: 0116 Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

ATIS - Takeoff

ATIS - Land

Data Source	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes	/	
Cloud Physics Tapes/CD's	/	
Video Tapes/DVD's	/	
Dropsondes	33	Good: 32 Bad: 1 Sent: 32
AXBT	/	
AXCP	/	
AXCTD	/	
SONOBUOY	/	

Remarks:

N49RF AOC GPS Dropwindsonde Log

Flight ID 080902A

Flight Director Almeida/mayeaux

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Mission ID 0408A

Storm Hanna

Drop#	Channel# SONDE ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	062049241	180927	2326	8300	1009.1	Winds 1	140814	1		1809
2	062049255	180927	2326	8301	1009.1	Winds 1	142842	2		1829
3	062049246	183150	2300	7830	1006.6	Winds 3	150233	3		1853
4	062049143	184504	2300	7830	1006.6	Winds 3	150233	4		1903
5	062049328	185135	2300	7830	1006.6	Winds 3	151720	5		1917
6	062049225	190504	2300	7630	1003.5	Winds 5	152908	6		1929
7	062049262	191701	2300	7430	1000.7	Winds 5	153513	7		1935
8	061519102	192137	2053	7440	1000.7	Winds 5	154654	8		1947
9	062049214	193215	2053	7324	996.1	Winds 10	155185	9		1959
10	062049244	194148	2033	7214	No data	—	—	—		—
11	062049272	195154	2136	7024	1006.2	Winds 8	161755	11		2018
12	062049207	200206	2254	7040	1007.5	Winds 20	162721	12		2027
13	062049234	201254	2412	7124	1007.5	Winds 5	163109	13		2031
14	062049271	202010	2515	7212	1008.2	Winds 30	164721	14		2047
15	062049297	203421	2549	7326	1008.2	Winds 30	165448	15		2058
16	062049273	204429	2549	7446	1008.6	Winds 10	170602	16		2106
17	062939171	205525	2515	7558	1007.9	Winds 9	171350	17		2115
18	062939173	210511	2415	7630	1006.2	Winds 14	172507	18		2125
19	062049032	212126	2500	7830	1007.8	Winds 19	174243	19		2142
20	062339055	213953	2730	7900	1009.5	Winds 11	180138	20		2202
21	061529107	215439	2700	7700	1009.5	Winds 3	181200	21		2212
22	062839054	220911	2700	7640	1009.9	Winds 5	182635	22		2226

20.6 72.9

N49RF AOC GPS Dropwindsonde Log

Flight ID 080902A

Flight Director Mayaux / Almeida

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Mission ID 6408A

Storm Hanna

[illegible]

N49RF AOC GPS Dropwindsonde Log

Time To GO

Flight ID: 080902N

Flight Director: ALMEIDA/Mayeaux

6
1 227 $\frac{m}{s} \approx$

Mission ID: NOAA 9 0408 A

Track #: HANNA

Pg ___ of ___

$\frac{1m}{3 drops} = \frac{nm}{drop}$ 7.4 nm/min
445 kts

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	062249211	175008	25 59	83 00	1011.1	OVC CS CU		1		
1	2	062049255	180927	23 30	82 56	1009.1	OVC CS CU		2		
1	3	062049286	183150	23 58	80 01	1007.7	OVC CS CU	Tau	3		
2	4	062049143	184504	23 01	78 29	1006.6	OVC CS CU		4		
1	5	062049228	185735	22 57	76 48	1005.6	OVC CS CU	SC	5		
2	6	062049225	190504	22 01	76 29	1003.5	OVC CS SC	Tau	6		
4	7	062049060	191301	21 25	75 38	1002.3	OVC CS SC		7		
1	8	061519102	192137	20 53	74 40	1000.7	OVC CS SC		8		
2	9	062049214	193211	20 17	73 27	996.1	OVC		9		
1	10	062049044	194148	20 41	72 21	991.7	OVC in turb.	NO PTH	10		
3	11	062049251	194455	20 58	72 04	994.2	OVC in turb.		11		
2	12	062049272	195154	21 37	71 24	1000.2	OVC		12		
1	13	061519104	200206	22 55	71 06	1004.8	OVC		13		
2	14	062049234	201254	24 12	71 30	1007.5	OVC AS CU		14		
1	15	062939179	202340	25 15	72 15	1008.5	BKN CU	Tau Haze	15		
2	16	054556297	203421	25 49	73 26	1008.2	BKN CU AS		16		
1	17	062049249	204449	25 48	74 46	1008.6	BKN CU	Tau	17		
2	18	062929171	205525	25 13	75 58	—	BKN CU	Tau Haze	18	Lost PTH	
1	19	062939173	210511	24 20	76 42	1006.2	BKN CU	HAZE	19		
2	20	062049032	212126	25 03	78 30	1007.8	BKN CU AS		20		
1	21	062339055	213953	27 00	79 00	1009.6	BKN CU		21		
2	22	061529107	215439	27 00	77 00	1009.5	BKN CU AS		22		
1	23	062839054	220911	27 00	76 30	1009.9	BKN CU		23		
2	24	062339039	222302	27 00	73 00	1010.8	BKN CU	Haze	24		
1	25	062339108	223725	27 00	71 00	1010.2	BKN SC	Tau Haze	25		
2	26	062049045	225143	27 03	69 01	1010.2	OVC AS		26		
1	27	062439053	230844	28 58	68 08	1012.0	DARK		27		
2	28	062439063	232259	29 00	70 00	1012.4	DARK		28		
1	29	062259043	233806	29 00	72 00	1011.3	DARK		29		
2	30	062439018	235318	29 00	74 00	1011.7	DARK		30		
1	31	062049259	000816	29 00	76 02	1012.4	DARK		31		
2	32	062439062	002324	29 01	78 00	1012.7	DARK		32		
1	33	062839052	003935	30 01	79 31	1013.6	DARK				

080902n.log	Latitude	Longitude	Press	Temp	DP	WD	WS
17:09:34	27 50.97'N	82 29.59'W	1012.0	35.4	64.6	104.1	0.4
17:17:12	27 50.97'N	82 29.59'W	1083.2	44.6	32.3	137.0	225.2
17:27:55	27 50.71'N	82 31.51'W	1011.3	31.4	22.6	81.6	5.1
17:50:07	25 59.32'N	82 59.68'W	268.6	-34.0	-40.5	342.5	14.3
18:00:59	24 34.42'N	83 00.54'W	175.2	-55.3	-54.4	11.8	10.9
DP's at -90							
18:09:27	23 30.21'N	82 56.22'W	175.4	-55.5	-58.5	24.5	15.5
18:31:50	23 57.76'N	80 01.19'W	175.5	-55.5	-60.8	356.4	22.3
18:42:35	23 10.63'N	78 46.17'W	175.6	-56.2	-61.5	0.2	16.1
cs layer							
18:45:02	23 00.97'N	78 28.69'W	175.5	-56.2	-61.6	357.7	20.0
18:47:37	23 00.09'N	78 07.75'W	174.4	-56.6	-61.8	352.5	22.4
18:57:35	22 57.17'N	76 48.05'W	166.4	-58.3	-63.0	358.7	19.6
19:05:06	22 01.51'N	76 28.94'W	166.5	-58.1	-63.3	15.2	17.2
19:13:01	21 24.79'N	75 38.47'W	166.7	-57.8	-63.5	31.4	12.4
19:21:37	20 52.83'N	74 39.70'W	166.3	-57.7	-63.7	29.8	12.2
19:30:31	20 20.42'N	73 39.07'W	162.9	-58.5	-59.4	72.7	12.6
cs layer							
19:32:09	20 16.62'N	73 27.55'W	163.4	-58.6	-58.9	44.2	12.9
19:35:18	20 20.99'N	73 04.29'W	159.8	-59.9	-58.7	74.6	10.3
pointers getting real warm, in clouds.							
19:41:49	20 40.72'N	72 20.90'W	159.1	-59.9	-44.4	215.1	5.7
mx around storm							
19:44:57	20 58.05'N	72 03.64'W	159.7	-60.6	-49.9	224.4	12.1
dewpointers still really warm. still in cloud deck.							
19:51:54	21 36.78'N	71 24.28'W	159.3	-60.4	-57.1	257.3	18.1
20:00:23	22 41.30'N	71 08.98'W	158.6	-59.8	-60.1	239.7	24.4
turb							
20:02:06	22 54.53'N	71 06.63'W	158.6	-59.7	-61.1	248.3	23.3
20:12:54	24 11.92'N	71 29.84'W	155.5	-59.2	-65.3	248.9	32.1
out of clouds, dp's coming back.							
20:23:41	25 14.91'N	72 14.74'W	155.8	-58.6	-65.5	276.9	20.4
20:34:22	25 48.50'N	73 26.46'W	155.8	-58.7	-65.9	281.3	11.0
20:44:49	25 48.33'N	74 46.33'W	155.8	-59.4	-65.9	311.4	20.8
20:55:23	25 13.45'N	75 57.95'W	155.8	-61.5	-65.9	310.1	25.7
21:05:13	24 19.70'N	76 42.23'W	155.2	-61.7	-66.3	316.3	23.8
21:06:46	24 23.66'N	76 52.57'W	152.1	-62.4	-66.5	315.5	23.5
21:21:28	25 03.39'N	78 29.53'W	152.2	-61.7	-67.5	318.3	25.0
21:39:54	27 00.16'N	79 00.03'W	152.3	-62.5	-67.7	318.1	31.9
21:54:37	26 59.97'N	76 59.96'W	152.7	-61.3	-67.9	330.0	34.7
turb							
21:58:04	27 00.13'N	76 29.94'W	145.8	-61.6	-67.6	341.2	33.5
pointers 3deg off.							
22:09:16	27 00.01'N	74 54.98'W	145.1	-60.4	-67.4	354.8	17.2
22:23:00	26 59.99'N	72 59.89'W	145.0	-60.5	-67.5	346.7	12.8
22:37:25	26 59.99'N	70 59.71'W	144.9	-60.1	-67.3	336.3	6.5
22:51:41	27 03.25'N	69 01.21'W	145.1	-60.5	-67.7	287.8	9.6
23:08:46	28 57.58'N	68 07.91'W	144.9	-60.9	-67.6	263.6	20.0
23:22:59	28 59.98'N	70 00.18'W	144.7	-58.8	-67.2	237.9	10.9
23:38:06	28 59.99'N	72 00.10'W	144.9	-61.0	-67.2	273.2	14.0
23:53:17	29 00.00'N	74 00.80'W	144.8	-61.0	-67.7	322.7	9.3
00:08:16	29 00.01'N	76 02.28'W	144.9	-60.3	-67.5	316.8	17.1
00:23:23	29 01.29'N	78 00.45'W	144.8	-62.8	-68.1	327.3	38.3
00:29:08	29 22.33'N	78 33.10'W	144.8	-62.7	-68.3	326.0	39.7

0902n.log

MSL Alt	G Alt	Heading	Track	TAS	GS	V Vel	Event Comments
7.9	7.9	135.6	225.0	0.4	0.2	-0.01	test
9.2	9.2	135.6	194.9	227.2	0.2	0.01	block out
11.9	11.9	40.7	40.3	78.8	74.9	0.34	t/o
10441.6	10414.0	190.7	189.3	227.8	240.3	5.12	drop 1
13245.3	13203.1	180.0	180.5	228.5	239.2	-0.02	TBW sounding shows
13236.3	13193.2	119.8	124.6	229.7	231.9	-0.32	drop 2
13218.7	13176.2	100.5	105.2	229.5	235.7	-0.16	drop 3
13214.9	13171.6	122.4	125.6	230.4	239.2	0.11	light turb entering
13215.6	13172.2	100.4	105.6	230.0	235.4	-0.14	drop 4
13210.8	13167.5	84.4	89.9	230.4	232.1	1.10	climbing to FL420
13499.4	13454.4	123.8	126.8	229.2	240.7	0.08	drop 5
13504.7	13458.9	147.4	150.9	228.1	240.0	0.81	drop 6
13501.1	13454.9	119.1	122.4	228.3	228.2	0.35	drop 7
13508.1	13461.3	116.7	119.8	231.3	230.9	-0.24	drop 8
13677.4	13629.2	117.6	119.7	232.1	223.3	-3.56	climbing to FL420 in
13639.1	13591.1	91.8	94.6	225.9	217.5	0.21	drop 9
13763.8	13715.1	75.8	75.6	229.7	219.4	-0.42	at FL430 - dew
13793.4	13744.8	42.3	41.7	222.9	228.5	-1.52	drop 10 - in turb -
13767.4	13719.2	45.6	45.4	221.7	233.8	2.08	drop 11 - ob 10 -
13796.2	13748.5	19.2	23.0	229.9	240.0	-0.66	drop 12 - ob 11
13759.1	13712.5	8.0	12.3	225.2	240.9	-0.55	continuous light
13749.4	13703.0	353.5	359.1	228.7	235.9	-0.16	drop 13 - ob 12
13880.7	13834.8	327.4	335.0	230.4	225.9	1.81	drop 14 - ob 13 -
13829.9	13785.3	306.8	309.8	228.1	210.7	0.39	drop 15 - ob 14
13845.1	13801.0	282.9	283.3	228.7	217.7	-0.33	drop 16 - ob 15
13855.5	13811.4	259.6	255.6	226.7	214.2	-0.44	drop 17 - ob 16
13875.1	13830.2	227.5	221.3	225.1	223.0	0.44	drop 18 - ob 17
13942.0	13895.9	294.5	291.3	226.4	204.5	2.47	drop 19 - ob 18
14073.1	14026.4	294.8	292.3	225.6	203.7	0.40	at FL440
14089.3	14043.1	326.6	326.9	227.2	202.4	0.02	drop 20 - ob 19
14070.7	14026.6	343.8	347.6	226.0	197.8	0.22	drop 21 - ob 20
14048.1	14004.1	82.8	90.1	232.4	247.7	-0.43	drop 22 - ob 21 -
14305.6	14260.3	81.8	89.6	226.9	235.3	3.85	at FL450 - dew
14294.5	14249.2	85.1	89.3	227.7	228.3	0.13	drop 23 - ob 22
14286.0	14240.7	86.7	89.8	227.3	229.8	0.72	drop 24 - ob 23
14285.6	14240.3	88.6	90.1	227.0	229.6	0.04	drop 25 - ob 24
14263.5	14218.5	52.1	54.5	226.7	232.3	-0.11	drop 26 - ob 25
14247.5	14204.5	310.9	315.8	225.9	213.1	-0.42	drop 27 - ob 26
14269.7	14226.7	269.6	270.7	228.5	219.1	0.20	drop 28 - ob 27
14268.2	14225.2	271.2	270.8	225.6	211.5	-0.11	drop 29 - ob 28
14287.8	14244.7	272.5	270.4	225.8	220.0	0.54	drop 30 - ob 29
14302.7	14259.5	273.2	269.9	227.9	215.9	0.40	drop 31 - ob 30
14320.8	14277.6	296.9	290.6	225.9	194.0	0.30	drop 32 - ob 31
14330.4	14287.5	310.5	307.5	224.5	186.5	-0.44	turbulence

								08
01:09:32	30 01.22'N	79 30.93'W	144.8	-63.5	-68.6	318.6	38.4	
01:15:45	32 07.72'N	81 12.88'W	1013.4	26.1	20.2	61.4	4.4	
01:21:35	32 07.78'N	81 11.72'W	50.0	26.3	-103.2	19.6	0.5	

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14338.9	14296.7	321.8	321.9	225.9	187.5	0.14	drop 33 - ob 32	
14.6	14.6	88.7	90.3	66.3	62.4	-1.20	landed	
21.7	21.7	237.5	244.8	1.9	2.2	0.00	block in	

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: HANNA

National Hurricane Center: September 01, 2008 4:05:42 PM

Aircraft: N49RF

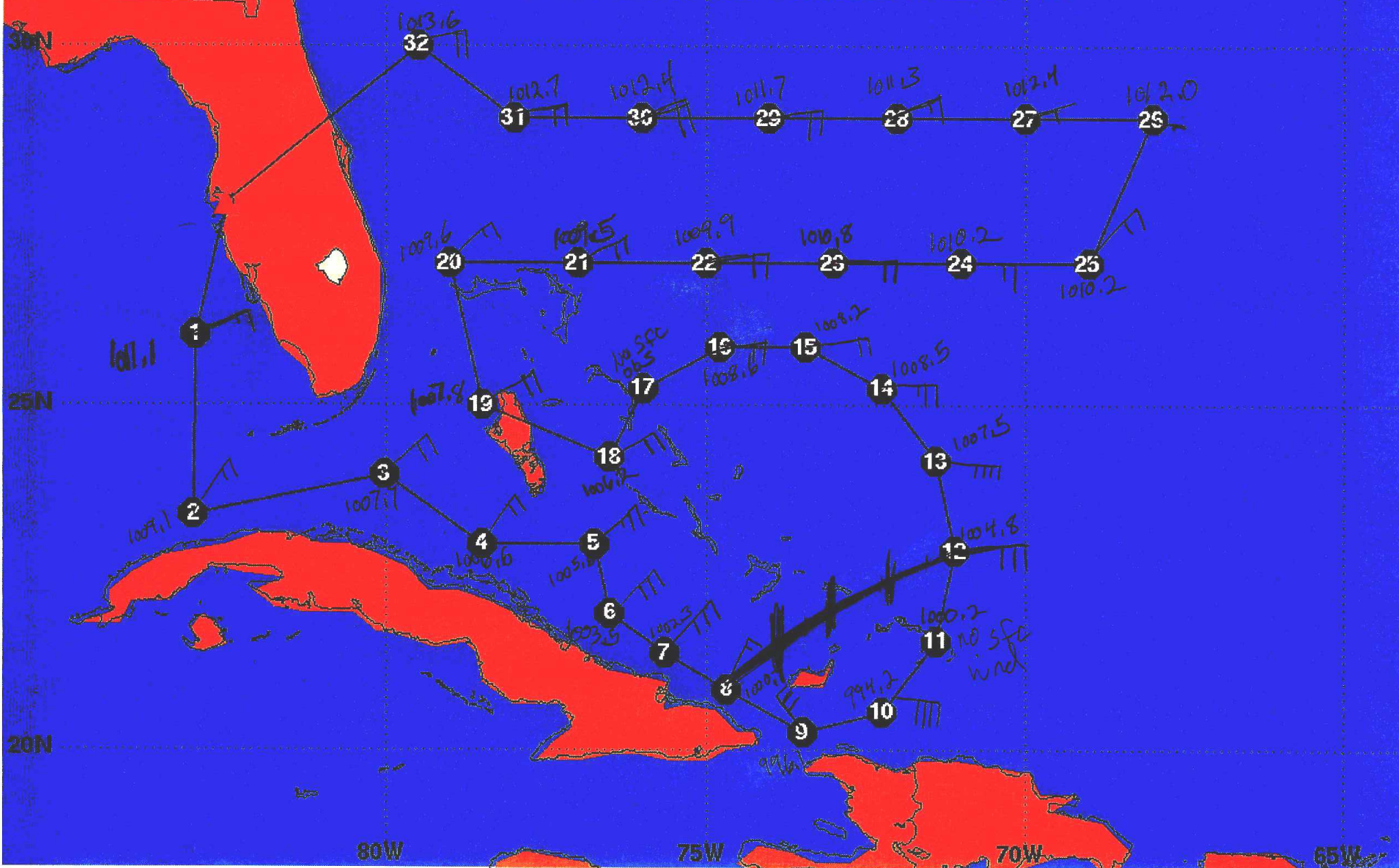
Proposed takeoff: 02/1730Z

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DROP LOCATIONS

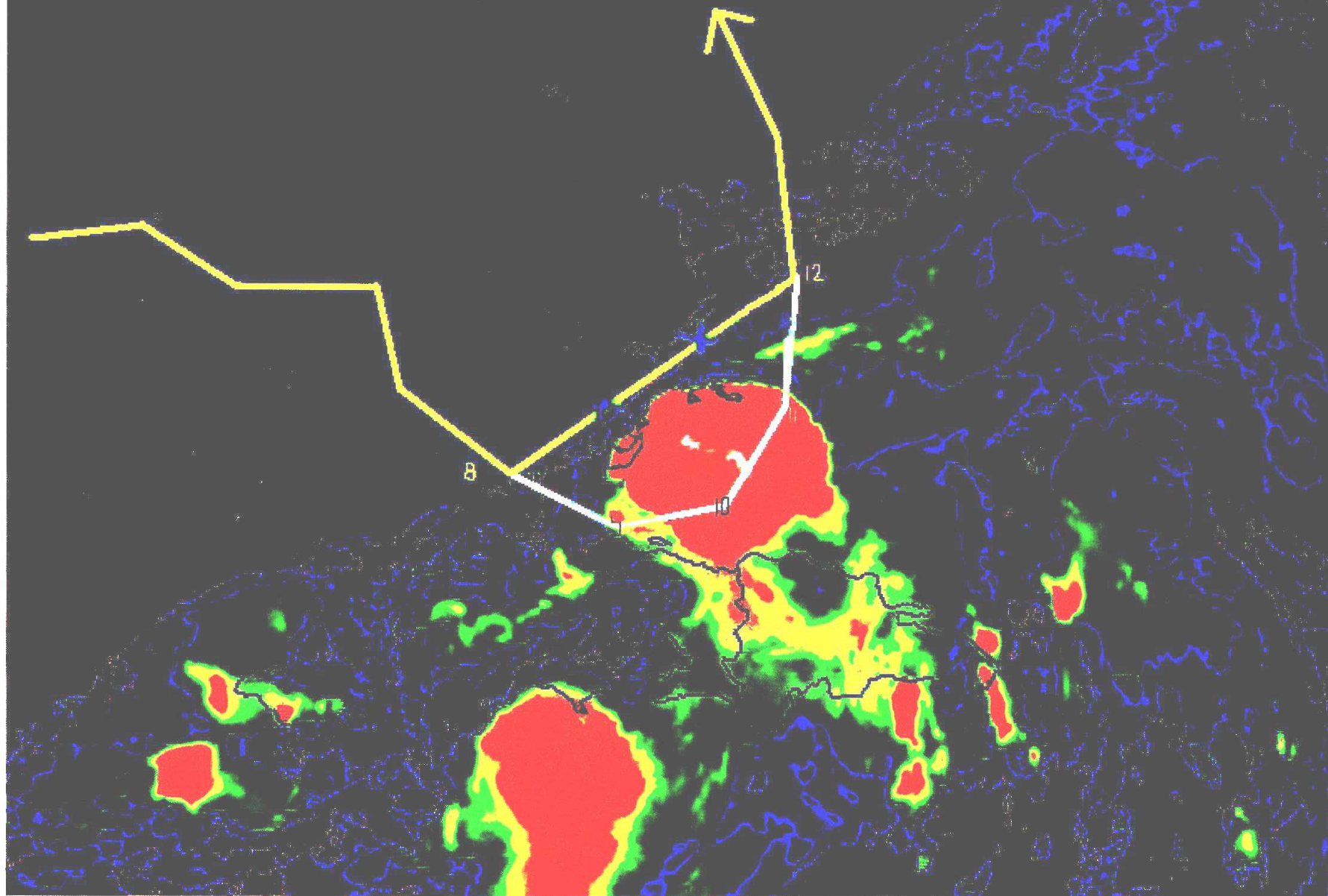
#	LAT (d m)	LON (d m)	TIME (h:mm)
1	26 00	-83 00	0:16
2	23 26	-83 01	0:37
3	24 00	-80 02	1:01
4	23 00	-78 30	1:15
5	23 00	-76 45	1:29
6	22 00	-76 30	1:37
7	21 25	-75 39	1:45
8	20 53	-74 40	1:54
9	20 15	-73 29	2:05
10	20 33	-72 14	2:15
11	21 36	-71 24	2:26
12	22 54	-71 06	2:37
13	24 12	-71 24	2:48
14	25 15	-72 14	2:59
15	25 49	-73 26	3:09
16	25 49	-74 46	3:19
17	25 15	-75 58	3:30
18	24 15	-76 30	3:39
19	25 00	-78 30	3:56
20	27 00	-79 00	4:13
21	27 00	-77 00	4:28
22	27 00	-75 00	4:44
23	27 00	-73 00	4:59
24	27 00	-71 00	5:14
25	27 00	-69 00	5:30
26	29 00	-68 00	5:48
27	29 00	-70 00	6:03
28	29 00	-72 00	6:19
29	29 00	-74 00	6:34
30	29 00	-76 00	6:49
31	29 00	-78 00	7:04
32	30 00	-79 30	7:19

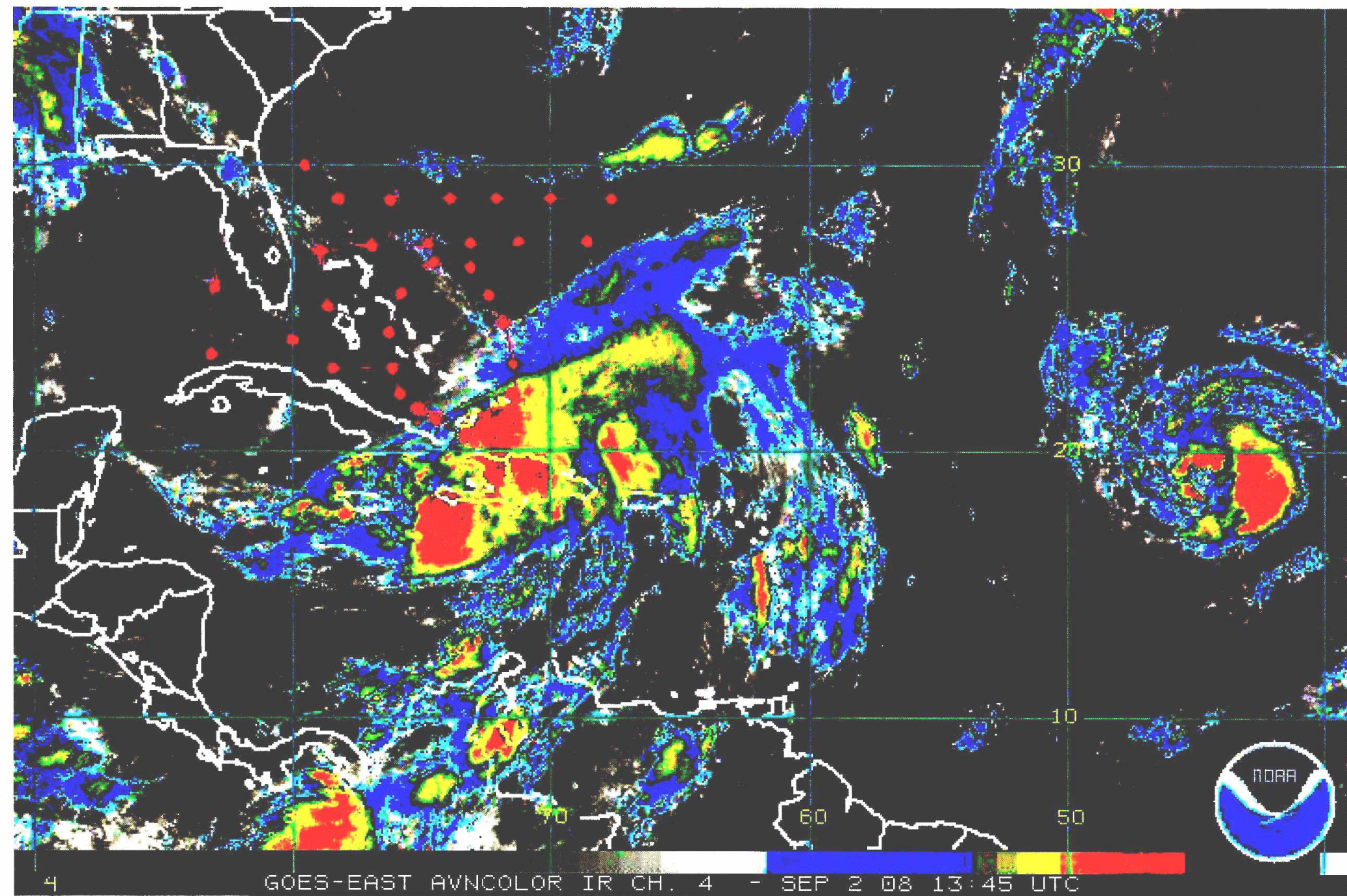
NOAA G-IV Flight Track for HANNA (AL082008)
On 2008090300 the storm was centered at 22.9;-74.1

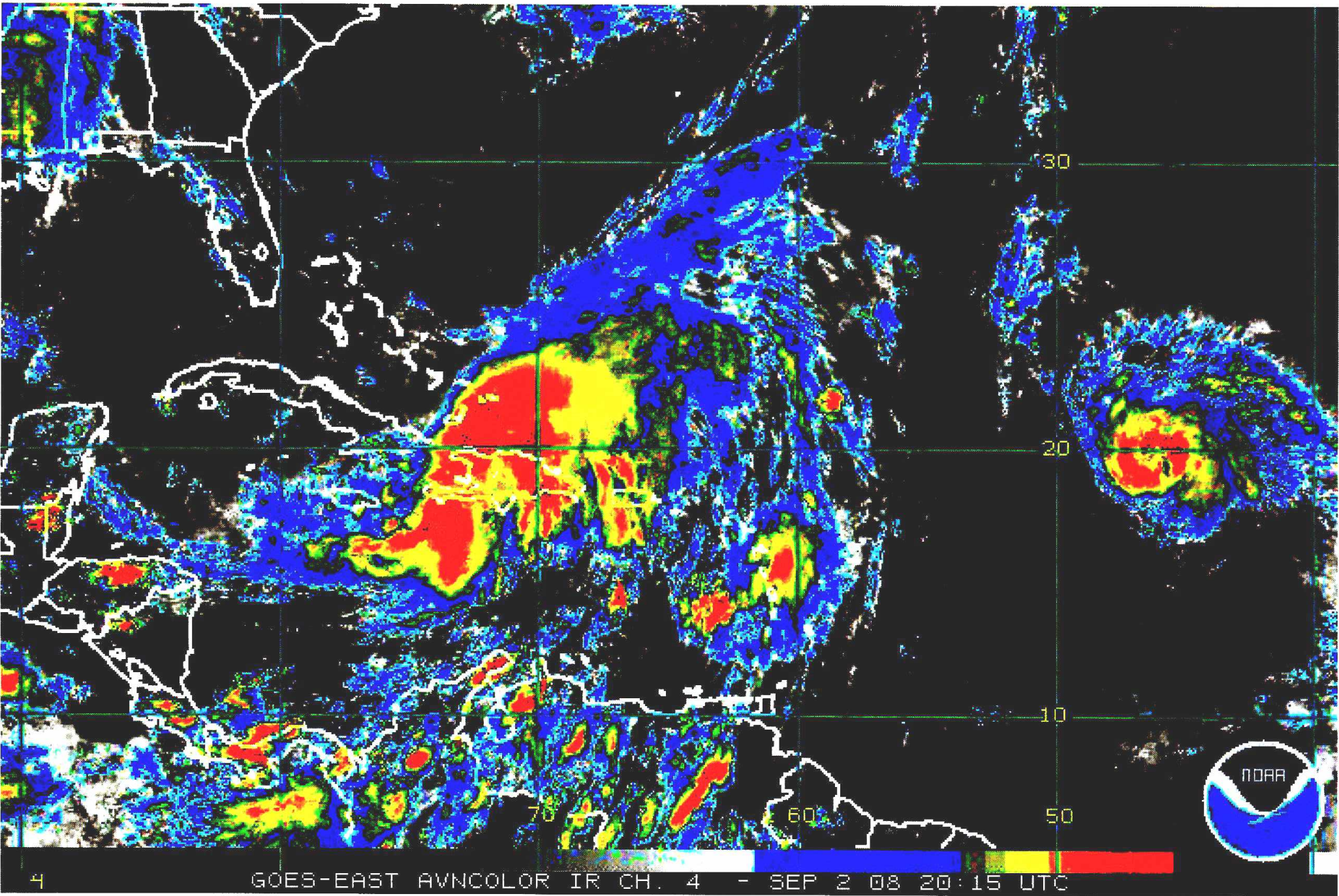


weather.msfc.nasa.gov

2 Sep 2008
15:40 UTC

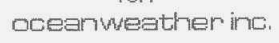






4

GOES-EAST AVNCOLOR IR CH. 4 - SEP 2 08 20:15 UTC

(6) Hour
1015.5

oceanweather inc.

