

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:

Flight ID 080902A

Flight Director

N49RF AOC GPS Dropwindsonde Log

Mission ID 0408A

Storm Hanna

Page 1 of 2

Drop #	Station ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Pres mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	062049255	180927	2326	8301	1009.1	WVWS 1	140814	1		1829
2	062049255	180927	2326	8301	1009.1	WVWS 1	142842	2		1829
3	062049143	184504	2306	7830	1006.6	WVWS 3	150233	4		1903
4	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
5	061519102	192137	2053	7440	1000.7	WVWS 5	154654	8		1947
6	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
7	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
8	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
9	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
10	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
11	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
12	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
13	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
14	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
15	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
16	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
17	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
18	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
19	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
20	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
21	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929
22	062049225	190504	2206	7630	1003.5	WVWS 5	152908	6		1929

20.6 72.9

14.1424
14.1487

Flight ID 080902A

Flight Director

Meyers/Almeida

Mission ID 0408A

Storm Hanne

Page 2 of 2

Drop #	Channel # SvnoE ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
23	06243058	220911	2700	7500	10009	W. 10/12	184103	23		2241
24	06239108	223725	2700	7100	1010.2	W. 10/15	185503	24		2255
26	062437053	230844	2900	6800	1012.0	W. 10/15	191013	26		2306
27	062437053	232259	2900	7000	1012.8	W. 10/11	191932	27		2321
28	062257043	233806	2900	7200	1011.3	W. 10/15	195632	28		2356
29	062437053	235318	2900	7400	1011.3	W. 10/17	201155	29		2402
30	06249259	000816	2900	7600	1012.4	W. 10/12	203138	30		0031
31	062437053	002934	2900	7800	1012.7	W. 10/12	204153	31		0042
32	062837052	003935	3000	7930	1013.6	W. 10/19	205636	32		0057

N49RF AOC GPS Dropwindsonde Log

Time To Go

Flight ID: 080902N

Flight Director: Almeida/Mayeaux

Mission ID: N0443 0408 A

Track #: HAVNA

Pg 1 of 1

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

nm = nm
3 drops drop 7.4nm
445 kts

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	SFC Pres (mb)	Wx Cond.	Comments	Ob #	SatComm failures	Sent Time (UTC)
1	1	062249211	175008	25 59	83 00	1011.1	0VC CS CU		1		
1	2	062049235	180927	23 30	82 56	1009.1	0VC CS CU		2		
1	3	062049286	183150	23 58	80 01	1007.7	0VC CS CU	Tau	3		
2	4	062049143	184504	23 01	78 29	1006.6	0VC CS CU		4		
1	5	062049228	185735	22 57	76 48	1005.6	0VC CS CU	Sc	5		
2	6	062049225	190504	22 01	76 29	1003.5	0VC CS SC	Tau	6		
4	7	062049060	191301	21 25	75 38	1002.3	0VC CS SC		7		
1	8	061519102	192137	20 53	74 40	1000.7	0VC CS SC		8		
2	9	062049244	193211	20 17	73 27	996.1	0VC		9		
1	10	062049444	194148	20 41	72 21	991.7	0VC in turb. NO PTH	NO PTH	10		
3	11	062049251	194455	20 58	72 04	994.2	0VC in turb		11		
2	12	062049272	195154	21 37	71 24	1000.2	0VC		12		
1	13	061519104	200206	22 55	71 06	1004.8	0VC		13		
2	14	062049234	201254	24 12	71 30	1007.5	0VC AS CU		14		
1	15	062049179	202340	25 15	72 15	1008.5	0VC CU TCU Haze		15		
2	16	054556297	203421	25 49	73 26	1008.2	0VC CU AS		16		
1	17	062049249	204449	25 48	74 46	1008.6	0VC CU TCU		17		
2	18	062929171	205525	25 13	75 58	—	0VC CU TCU Haze		18	LOST PTH	
1	19	062939173	210511	24 20	76 42	1006.2	0VC CU Haze		19		
2	20	062049032	212126	25 03	78 30	1007.8	0VC CU AS		20		
1	21	062339055	213953	27 00	79 00	1009.6	0VC CU		21		
2	22	061529107	215439	27 00	77 00	1009.5	0VC CU AS		22		
1	23	062839054	220911	27 00	76 30	1009.9	0VC CU		23		
2	24	062339039	222302	27 00	73 00	1010.8	0VC CU Haze		24		
1	25	062339108	223725	27 00	71 00	1010.2	0VC CU TCU Haze		25		
2	26	062049044	225143	27 03	69 01	1010.2	0VC AS		26		
1	27	062439053	230844	28 58	68 08	1018.0	0VC		27		
2	28	062439063	232259	29 06	70 00	1012.4	0VC		28		
1	29	062259043	233806	29 00	72 00	1011.3	0VC		29		
2	30	062439018	235318	29 00	74 00	1011.7	0VC		30		
1	31	062049259	000816	29 00	76 02	1012.4	0VC		31		
2	32	062439062	602324	29 01	78 00	1012.7	0VC		32		
1	33	062839052	003935	30 01	79 31	1013.6	0VC		33		

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

08
38.4
4.4
0.5
318.6
61.4
19.6
-68.6
20.2
-103.2
-63.5
26.1
26.3
144.8
1013.4
50.0
79 30.93'W
81 12.88'W
81 11.72'W
30 01.22'N
32 07.72'N
32 07.78'N
39:32
01:15:45
01:21:35

0902n.log
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

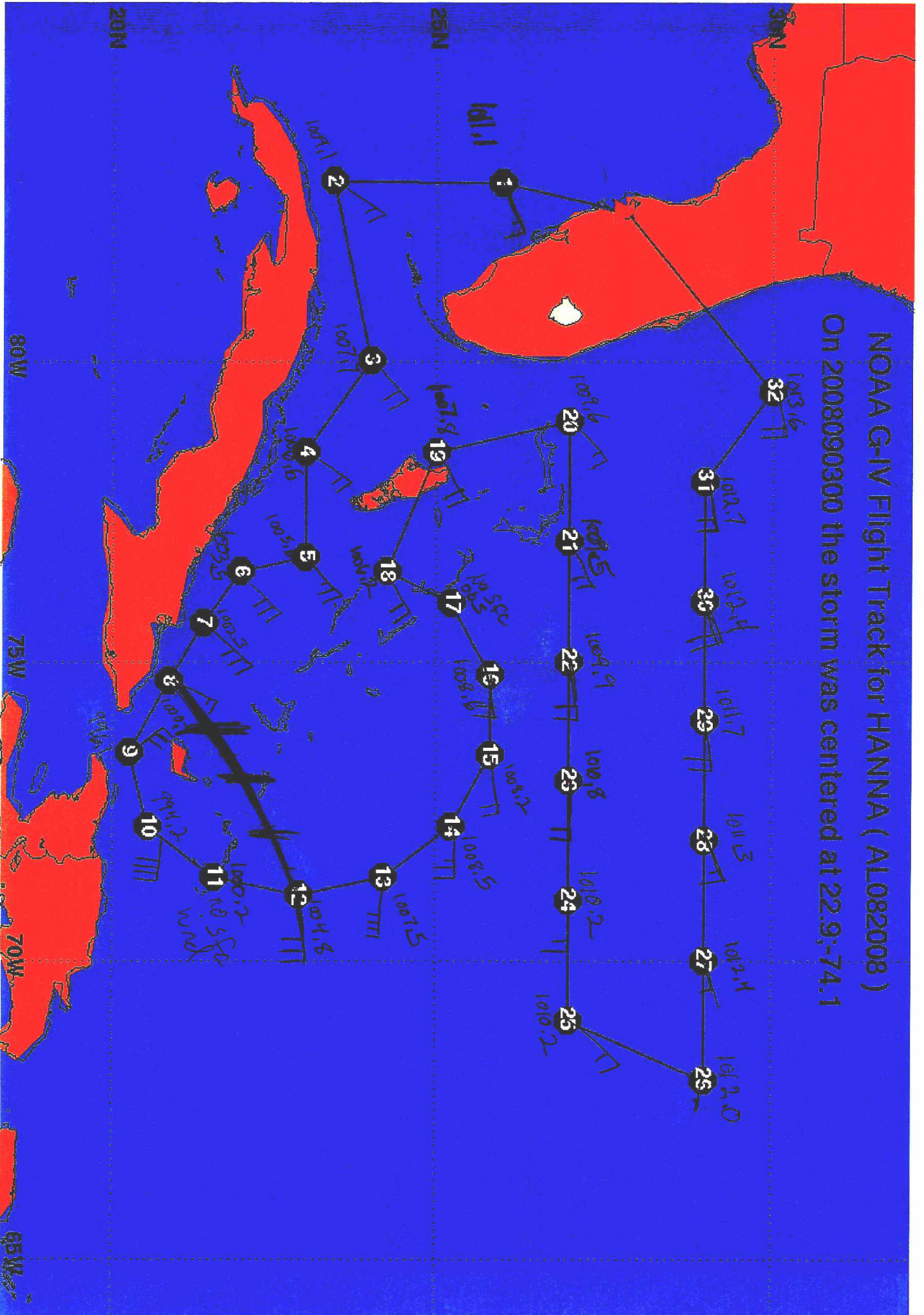
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DROP LOCATIONS

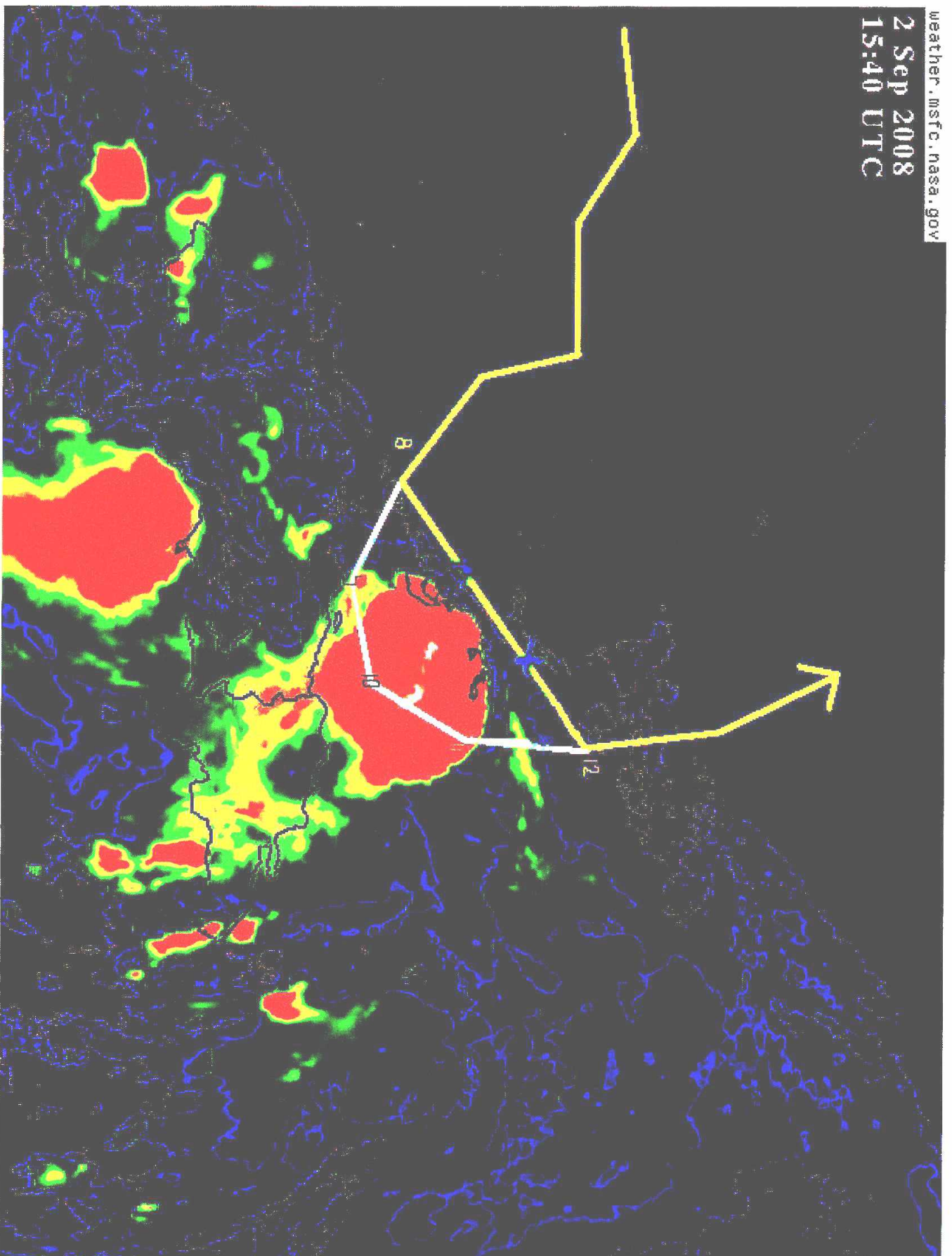
#	LAT (d m)	LON (d m)	TIME (h:mm)
1	26 00	-83 00	0:16
2	23 26	-83 01	0:37
3	24 00	-80 02	1:01
4	23 00	-78 30	1:15
5	23 00	-76 45	1:29
6	22 00	-76 30	1:37
7	21 25	-75 39	1:45
8	20 53	-74 40	1:54
9	20 15	-73 29	2:05
10	20 33	-72 14	2:15
11	21 36	-71 24	2:26
12	22 54	-71 06	2:37
13	24 12	-71 24	2:48
14	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

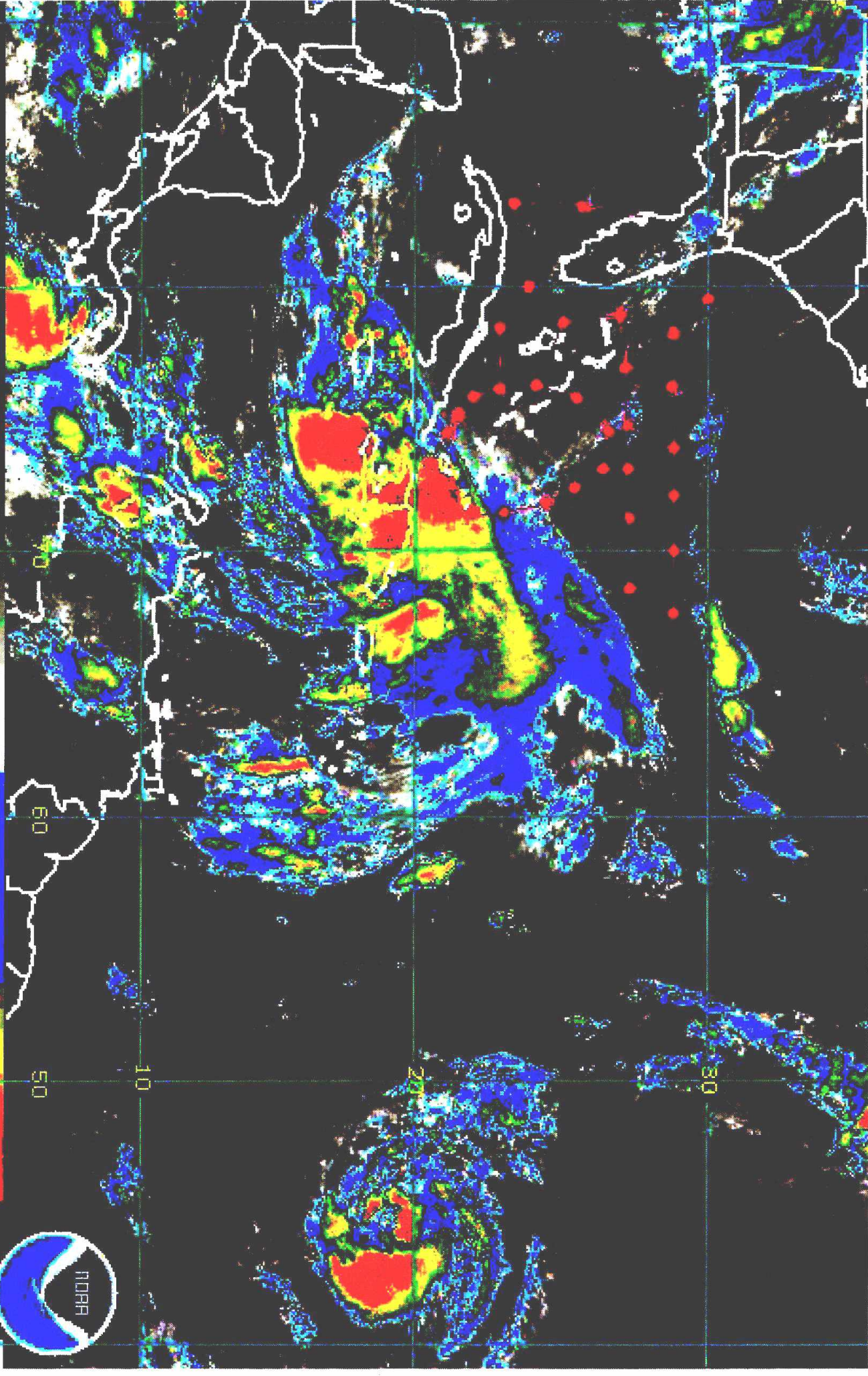
NOAA G-IV Flight Track for HANNA (AL082008)

On 2008090300 the storm was centered at 22.9;-74.1



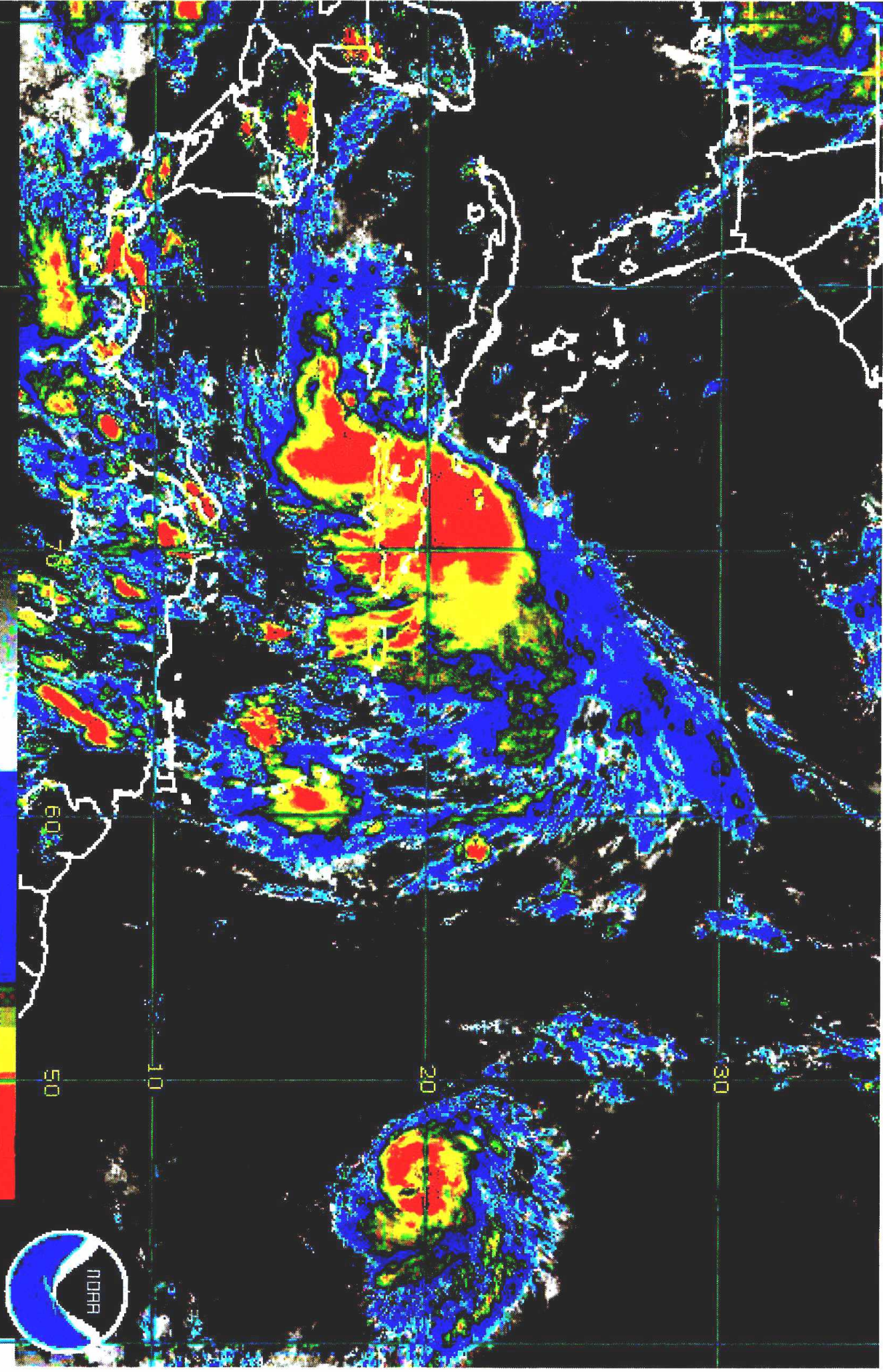
2 Sep 2008
15:40 UTC



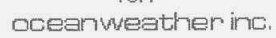


4

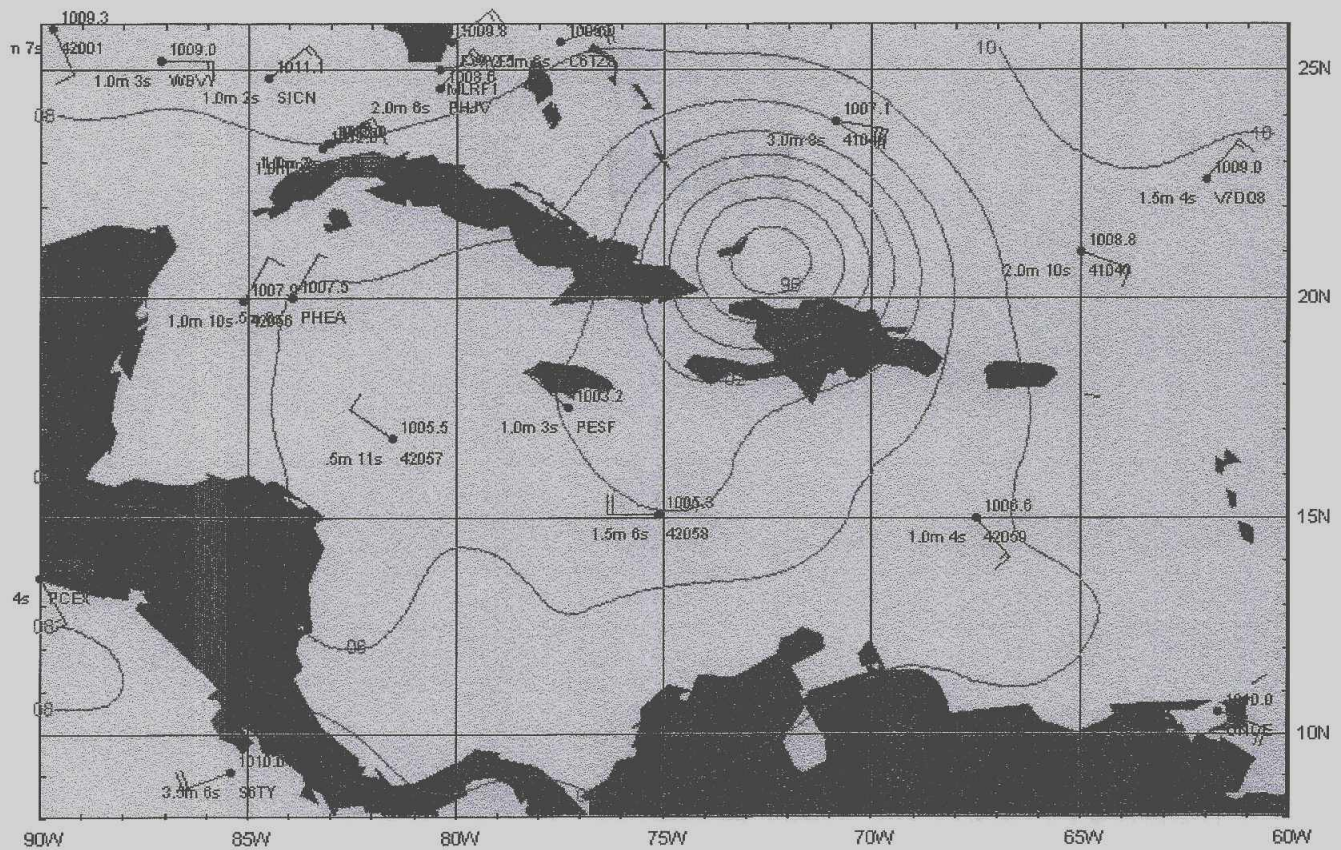
GOES-EAST AVNOCOLOR IR CH. 4 - SEP 2 08 20:15 UTC



(6) Hour
1015.5



Marine Observations Valid for September 03, 2008 00 GMT
Model Pressures Valid for September 03, 2008 00 GMT (6 Hour Forecast)



oceanweather inc.

SEP 02 2008 1200 UTC
6FS 200MB ANALYSIS
STREAMLINES...ISOTACHS...DATA
TPC MIAMI FL

