

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

FLT ID: 080903N	From: KSAV	To: KMCF
FLT #: 08-053	Blk In: 2458 Z 7.8	Lnd Time: 2452 Z 7.0
ETD: 1730 Z	Blk Out: 1709 Z 1.8	T/O Time: 1717 Z
ETE: 8hrs	Total Blk: 7hrs 49min	Total Flt: 7hrs 35min
Sponsoring Org: NHC	Program: HURR08	Purpose: SURVEILLANCE

AOC Flight Crew

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

Mission ID: NOAA 9 0708A

Teal 72

Recco

Times: Fix # Fix Time

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

FLT ID: 080903N T/O Time: 1717 Z Lnd Time: 0052 Z

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

ATIS - Takeoff 1653 07008K+ 10SM 29/18 30.00

ATIS - Land 0055 05012KT 10SM 29/22 29.84

Data Source	Number	Data Disposition / Date / Quality
Flight Level Tapes	1	3, ads files
Radar Tapes		
Cloud Physics Tapes/CD's		
Video Tapes/DVD's		
Dropsondes	36	Good: 32 Bad: 4 Sent: 31
AXBT		
AXCP		
AXCTD		
SONOBUOY		

Remarks:

Flight ID 060903N

Flight Director Mayeox/Almida

N49RF AOC GPS Dropwindsonde Log

Mission ID 0708A

Storm HAWNA

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2155
7647

Drop #	Station # (Swath ID)	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Pres mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	06204923	175401	3000	7800	1012.8	Winds 14	140222	1		1402
2	06204932	175401	3000	7800	1012.8	Winds 14	141208	2		1412
3	06204942	175401	3000	7800	1012.8	Winds 14	142223	3		1422
4	062049209	175236	3000	7400	1013.0	Winds 14	144239	4		1442
5	06204945	175236	3000	7200	1012.4	Winds 14	145208	5		1452
6	062049202	184946	3000	7000	1012.3	Winds 3	150824	6		1508
7	06204942	184946	3000	7000	1009.5	Winds 17	154448	8		1544
8	062249012	192518	2800	7300	1009.5	Winds 17	154448	8		1544
9	062249012	192518	2800	7300	1009.5	Winds 17	154448	8		1544
10	062339115	195410	2800	7700	1010.7	Winds 4	161408	10		1614
11	06233906	200358	2800	7600	1010.7	Winds 4	163335	11		1633
12	062049452	200347	2600	7830	1008.6	Winds 9	164355	12	no comm detected	1643
13	063019077	203711	2500	7715	1007.3	Winds 23	165838	13		1658
14	063019077	203711	2500	7715	1007.3	Winds 23	165838	13		1658
15	063019127	211243	2425	7240	-	Winds 3	Fast fall	-		-
16	063019110	212322	2425	7120	1001.2	Winds 6	174103	16		1741
17	062249203	213408	2301	7006	999.3	Winds 7	175245	17		1752
18	0622492010	214516	2244	6918	997.8	Winds 16	180606	18		1806
19	062249480	215852	2130	7500	NO WINDS	NO WINDS	NO WINDS	-		-
19B	062249083	215925	211	69.08	798.0	Winds 15	182311	19		1823
20	063019057	220818	2012	6918	999.1	Winds 15	182547	20		1825

N49RF AOC GPS Dropwindsonde Log

Flight ID 080903W

Flight Director Mayeaux/Almeida

Mission ID 0708A

Storm Hanna

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Drop #	Station # Serial ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Pres mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
21	063019072	222650	2011	7129	-	WVWS 20	Fast Fg 11	21	-	1858
22	063019072	222650	2011	7129	-	WVWS 20	Fast Fg 11	21	-	1858
23	062339080	223846	2017	7059	1000.1	WVWS 28	184858	23	-	1856
24	063019072	224534	2030	7350	1000.8	WVWS 28	184858	24	-	1903
25	062339081	225139	2044	7473	1001.3	WVWS 5	191051	25	-	1910
26	063019072	230032	2030	7400	1002.4	WVWS 6	191142	26	-	1917
27	063019072	230824	2248	7442	1001.2	WVWS 25	193147	27	-	1931
28	062919017	234101	2315	7700	-	WVWS 150	-	-	-	1945
29	063019072	235612	2313	7859	1006.8	WVWS 32	201846	29	-	2019
30	063019072	235612	2313	7859	1006.8	WVWS 32	201846	30	-	2020
31	063019072	235612	2313	7859	1006.8	WVWS 32	201846	31	-	2020
32	063019072	235612	2313	7859	1006.8	WVWS 32	201846	32	-	2020
33	063019072	235612	2313	7859	1006.8	WVWS 32	201846	33	-	2020
34	063019072	235612	2313	7859	1006.8	WVWS 32	201846	34	-	2020
35	063019072	235612	2313	7859	1006.8	WVWS 32	201846	35	-	2020
36	063019072	235612	2313	7859	1006.8	WVWS 32	201846	36	-	2020
37	063019072	235612	2313	7859	1006.8	WVWS 32	201846	37	-	2020
38	063019072	235612	2313	7859	1006.8	WVWS 32	201846	38	-	2020
39	063019072	235612	2313	7859	1006.8	WVWS 32	201846	39	-	2020
40	063019072	235612	2313	7859	1006.8	WVWS 32	201846	40	-	2020
41	063019072	235612	2313	7859	1006.8	WVWS 32	201846	41	-	2020
42	063019072	235612	2313	7859	1006.8	WVWS 32	201846	42	-	2020
43	063019072	235612	2313	7859	1006.8	WVWS 32	201846	43	-	2020
44	063019072	235612	2313	7859	1006.8	WVWS 32	201846	44	-	2020
45	063019072	235612	2313	7859	1006.8	WVWS 32	201846	45	-	2020
46	063019072	235612	2313	7859	1006.8	WVWS 32	201846	46	-	2020
47	063019072	235612	2313	7859	1006.8	WVWS 32	201846	47	-	2020
48	063019072	235612	2313	7859	1006.8	WVWS 32	201846	48	-	2020
49	063019072	235612	2313	7859	1006.8	WVWS 32	201846	49	-	2020
50	063019072	235612	2313	7859	1006.8	WVWS 32	201846	50	-	2020

N49RF AOC GPS Dropwindsonde Log

Flight ID: 080903N

Flight Director: Almeida / Mayeaux

Mission ID: N0449-0708A

Track #: HANNA

Pg 1 of 2

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	SFC Pts (mb)	Wx Cond.	Comments	Ob #	SatComm failures	Sent Time (UTC)
1	1	062049223	173946	30 02	79 57	1012.7	0VC SC		1		
4	2	062049132	175401	30 00	77 58	1012.8	BKN SC		2		
1	3	062259062	180810	30 00	76 00	1013.2	SC SC		3		
3	4	062049209	182236	30 00	74 00	1013.0	SC SC Haze		4		
1	5	062049145	183639	30 00	72 00	1012.4	BKN SC Haze		5		
4	6	062839012	184946	29 56	70 06	1012.3	0VC CS		6		
1	7	062049262	190942	28 02	71 23	1009.3	0VC CS		7		
2	8	062249012	192518	28 00	73 00	1009.5	0VC CS		8		
1	9	063019086	194003	28 00	75 00	1009.2	BKN SC Haze		9		
2	10	062339115	195410	28 00	77 00	1010.7	BKN SC TR Haze		10		
1	11	062339106	200758	27 56	78 55	1011.0	0VC AS SC	Tail	11		
2	12	062049252	202346	26 00	78 28	1008.6	BKN Cu Cb	backlog - 1009.9	12		
1	13	062049253	202652	25 45	78 11	1008.4	BKN SC Cb	Delayed to pass	13		
4	14	063019077	203711	24 59	77 06	1007.3	BKN Cu Haze	Delayed to pass	14		
1	15	063019106	205332	24 45	74 59	1004.9	0VC AS Cb		15		
2	16	063019127	211243	24 25	73 40	—	0VC CS	FAST FALL	—		
1	17	062049294	211505	24 25	72 22	1001.0	0VC		17		
4	18	063019110	212322	24 24	71 18	1001.2	0VC		18		
1	19	062339013	213408	23 50	70 08	999.3	0VC		19		
1	20	062259016	214516	22 47	69 18	997.8	0VC CS AS		20		
2	21	062939180	215652	21 27	69 01	998.6	0VC AS Cb	No winds	—		
4	22	062249083	215925	21 10	69 05	998.0			22		
1	23	063019083	220818	20 10	69 20	999.1	0VC US AS		23		
2	24	063019122	221422	19 49	69 56	999.4	0VC CS AS		24		
4	25	063019072	222656	20 11	71 30	—	0VC CS AC	FAST FALL	—		
1	26	061449053	223943	20 13	71 51	999.1	0VC CS AC		26		
2	27	062339080	223846	20 17	72 59	1000.1	0VC CS SC		27		
4	28	063019009	224534	20 33	73 47	1000.8	0VC CS CU		28		
1	29	062339021	225139	20 41	74 15	1001.3	0VC CS AC		29		
2	30	063019121	225935	21 41	74 58	1002.4	0VC AC CS		30		
4	31	063019037	230828	22 45	74 43	1001.2	0VC SC AC CS		31		

[illegible]

080903n. log

080903n.log	Latitude	Longitude	Press	Temp	DP	WD	WS
17:09:18	32 07.32'N	81 11.84'W	1013.8	35.2	50.3	354.5	2.3
17:17:21	32 07.72'N	81 12.43'W	1012.8	29.7	18.0	100.3	3.7
17:39:47	30 02.44'N	79 57.15'W	242.1	-42.7	-45.7	359.9	31.3
17:54:01	29 59.98'N	77 58.83'W	175.6	-54.6	-57.4	15.0	15.8
18:08:11	29 59.98'N	75 59.93'W	175.6	-55.4	-59.6	40.2	7.9
18:22:34	29 59.99'N	74 00.07'W	174.7	-56.5	-60.5	33.0	5.7
18:36:39	29 59.99'N	71 59.68'W	174.9	-56.0	-61.4	205.6	8.4
18:45:45	30 00.19'N	70 39.76'W	174.0	-56.9	-61.7	214.5	12.6
FL420							
18:49:46	29 55.64'N	70 06.42'W	166.3	-58.9	-62.0	198.0	20.1
turb							
19:09:43	28 02.33'N	71 02.76'W	166.5	-59.1	-63.3	201.2	42.8
19:25:17	28 00.00'N	73 00.06'W	166.4	-58.8	-64.1	201.1	37.0
19:40:01	28 00.02'N	75 00.07'W	167.5	-57.9	-64.0	180.6	17.1
19:54:11	28 00.01'N	77 00.28'W	166.5	-56.5	-63.4	247.6	0.4
19:57:17	28 00.16'N	77 26.44'W	165.3	-57.3	-63.4	327.6	2.4
FL430							
20:07:58	27 56.07'N	78 54.83'W	159.4	-58.2	-64.1	20.2	7.0
20:23:46	26 00.01'N	78 28.38'W	158.7	-58.0	-64.2	49.4	14.5
launch detect?, launched		b-up just in case.					
20:26:48	25 44.62'N	78 10.63'W	158.7	-57.6	-64.3	74.7	15.0
20:37:10	24 59.03'N	77 05.92'W	158.6	-58.1	-64.5	43.5	8.1
20:48:40	24 49.18'N	75 36.05'W	157.8	-59.2	-64.4	133.1	14.9
FL440							
20:53:31	24 44.89'N	74 59.27'W	151.9	-61.3	-64.7	164.6	23.5
21:12:43	24 25.07'N	72 39.65'W	151.9	-64.1	-66.1	152.1	25.2
fall							
21:15:07	24 25.07'N	72 21.66'W	152.1	-63.9	-66.3	154.6	21.9
21:23:23	24 23.94'N	71 18.28'W	152.0	-63.8	-65.7	164.0	25.4
21:34:07	23 50.02'N	70 07.66'W	152.0	-64.0	-64.8	172.8	19.0
21:45:17	22 47.26'N	69 18.18'W	152.0	-64.0	-62.1	165.6	10.5
21:50:30	22 11.67'N	69 09.59'W	152.1	-63.4	-66.1	151.4	12.3
deviated left for thunderstorm on radar. dp's warmed.							
21:56:53	21 27.43'N	69 00.69'W	152.0	-63.2	-66.8	141.1	* 13.5
winds							
21:59:27	21 09.72'N	69 04.72'W	152.1	-63.0	-66.7	140.6	12.9
22:08:18	20 10.11'N	69 20.16'W	146.2	-65.8	-66.7	168.9	14.6
22:09:13	20 05.31'N	69 24.66'W	144.8	-66.3	-66.7	175.4	14.9
FL045							
22:14:21	19 48.78'N	69 55.62'W	144.7	-65.9	-67.1	199.3	12.4
22:26:52	20 10.99'N	71 29.70'W	144.9	-65.2	-67.6	223.8	12.7
22:29:43	20 12.55'N	71 51.24'W	144.9	-64.7	-67.6	239.1	13.3
22:38:45	20 17.19'N	72 58.94'W	145.0	-65.6	-67.5	237.0	17.7
22:45:35	20 32.68'N	73 47.34'W	144.9	-64.9	-67.7	242.9	15.5
22:49:11	20 40.75'N	74 12.59'W	144.9	-65.1	-67.7	242.1	16.0

0903n.log

MSL Alt	G Alt	Heading	Track	TAS	GS	V Vel	Event Comments
13.8	13.8	0.7	34.3	2.7	0.5	0.00	block out
10.1	10.1	89.0	90.9	78.7	75.1	0.71	t/o
11048.8	11022.0	114.6	122.0	230.3	245.4	4.46	drop 1
13086.4	13050.5	86.0	89.7	229.8	225.2	-0.46	drop 2
13073.6	13037.7	88.6	90.2	230.6	225.5	-0.26	drop 3
13080.8	13044.9	88.9	90.2	229.5	226.3	0.45	drop 4
13096.0	13060.0	91.7	89.9	231.1	234.7	0.17	drop 5
13136.7	13100.5	92.8	90.2	230.9	237.7	3.48	climbing to
13412.8	13375.2	156.6	151.7	230.7	216.4	-0.15	drop 6 - light
13419.8	13380.1	234.0	240.4	226.4	191.4	0.83	drop 7
13415.1	13375.5	261.7	270.1	228.1	212.1	-0.21	drop 8
13401.3	13361.7	265.9	269.9	226.7	225.8	-0.34	drop 9
13400.0	13360.5	270.0	269.8	231.7	231.3	0.21	drop 10
13436.9	13397.2	270.7	270.0	230.1	228.7	3.31	climbing to
13708.6	13667.4	216.6	217.1	229.8	236.5	0.11	drop 11
13700.2	13657.0	144.5	148.5	227.9	229.7	0.47	drop 12 - no
13707.0	13663.6	128.8	131.8	229.4	220.9	0.11	drop 13
13695.1	13651.0	95.0	96.5	231.1	226.2	-0.24	drop 14
13773.5	13728.8	99.7	97.2	229.7	217.3	4.12	climbing to
14010.7	13964.6	103.8	98.3	228.7	218.3	0.04	drop 15
14045.3	13998.7	99.1	93.9	225.3	211.1	0.45	drop 16 - fast
14048.8	14002.2	95.1	90.0	225.9	215.6	-0.41	drop 17
14057.3	14010.7	114.1	108.3	227.5	212.2	0.00	drop 18
14068.1	14020.8	136.8	133.3	222.7	207.7	0.26	drop 19
14079.8	14031.5	159.0	158.1	225.0	214.6	0.26	drop 20
14086.9	14038.0	168.0	168.9	224.6	212.7	0.25	~2140z
14089.0	14039.5	186.0	188.1	227.8	218.3	0.09	drop 21 - no
14086.5	14036.7	190.4	193.1	224.8	216.6	-0.12	drop 22
14317.0	14265.0	213.0	215.4	223.5	213.1	3.13	drop 23
14374.0	14321.6	221.1	223.8	226.9	216.6	-0.40	climbing to
14378.5	14325.8	281.8	284.8	224.9	223.5	0.07	drop 24
14371.6	14319.2	275.2	278.1	224.4	216.8	0.13	drop 25
14371.4	14319.1	272.6	274.4	226.9	215.8	-0.03	drop 26
14359.9	14307.7	278.9	281.6	226.7	213.8	0.71	drop 27
14361.1	14309.1	286.2	289.0	226.0	214.8	-0.16	drop 28
14334.6	14282.9	285.8	288.6	222.9	211.5	-0.51	drop 29

2:59:39	21	40.98'N	74 57.54'W	144.8	-64.6	-68.0	200.3	08
23:05:27	22	25.21'N	74 47.29'W	144.9	-64.0	-67.8	176.4	13.8
separating, didn't go through clouds.								
23:08:01	22	44.80'N	74 42.65'W	144.9	-63.4	-67.8	166.4	14.4
23:08:01	22	44.80'N	74 42.65'W	144.9	-63.4	-67.8	166.4	14.4
clouds ~2317								
23:23:53	23	40.61'N	74 48.32'W	145.0	-63.1	-68.4	169.0	26.4
drop 32								
23:41:01	23	15.09'N	77 00.15'W	144.9	-61.8	-67.3	157.1	8.0
winds?								
23:43:21	23	14.75'N	77 19.06'W	144.9	-61.7	-67.3	144.4	5.8
23:56:13	23	20.66'N	78 59.92'W	144.9	-60.2	-66.8	316.5	6.7
00:06:19	24	30.34'N	79 16.05'W	145.0	-61.9	-66.8	340.9	9.5
00:51:41	27	50.49'N	82 31.73'W	1008.3	29.9	21.6	62.4	6.6
00:57:53	27	51.46'N	82 30.80'W	1009.1	30.0	21.3	117.2	2.6

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: HANNA

National Hurricane Center: September 03, 2008 2:02:20 PM

Aircraft: N49RF

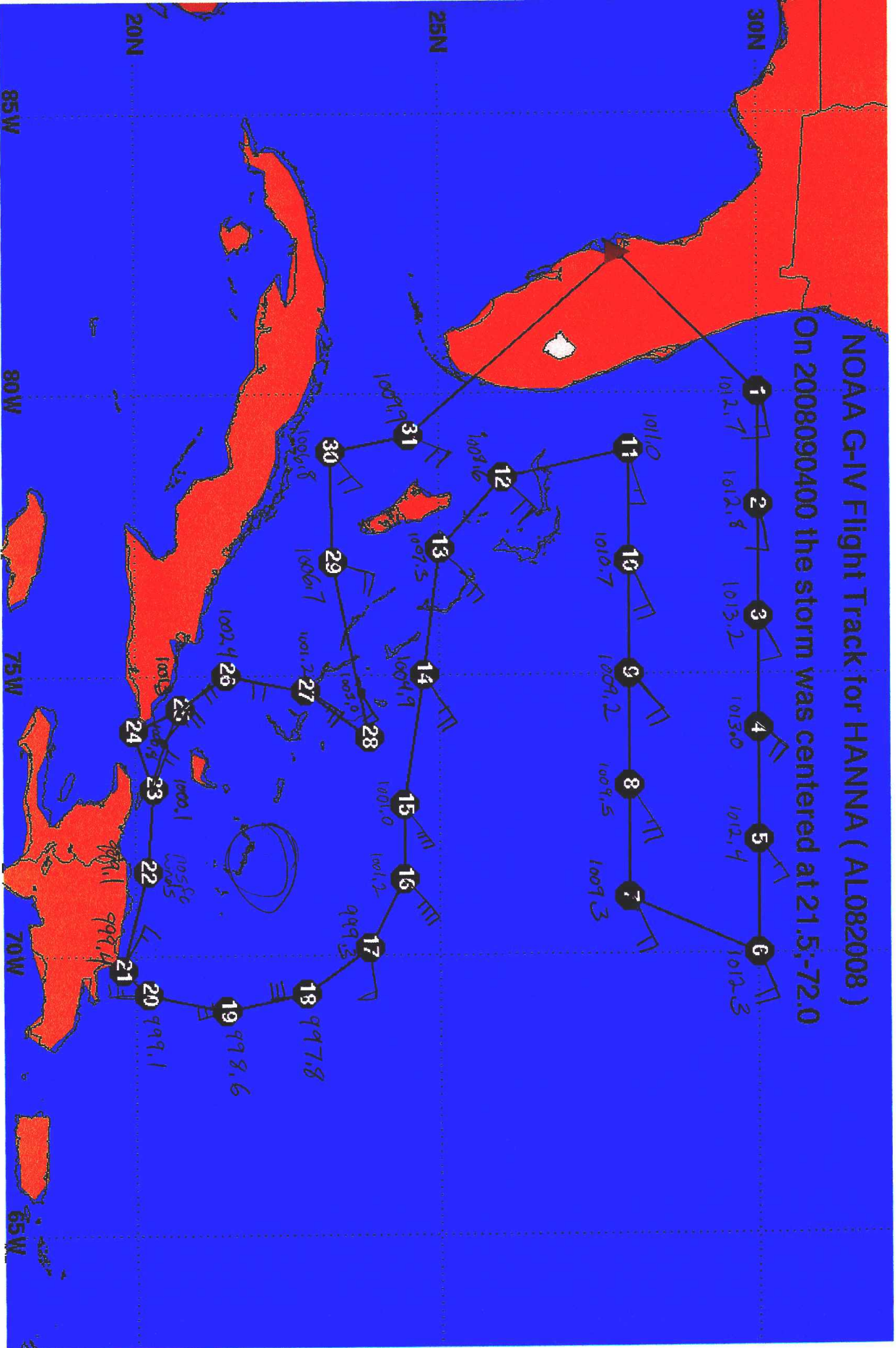
Proposed takeoff: 03/1730Z

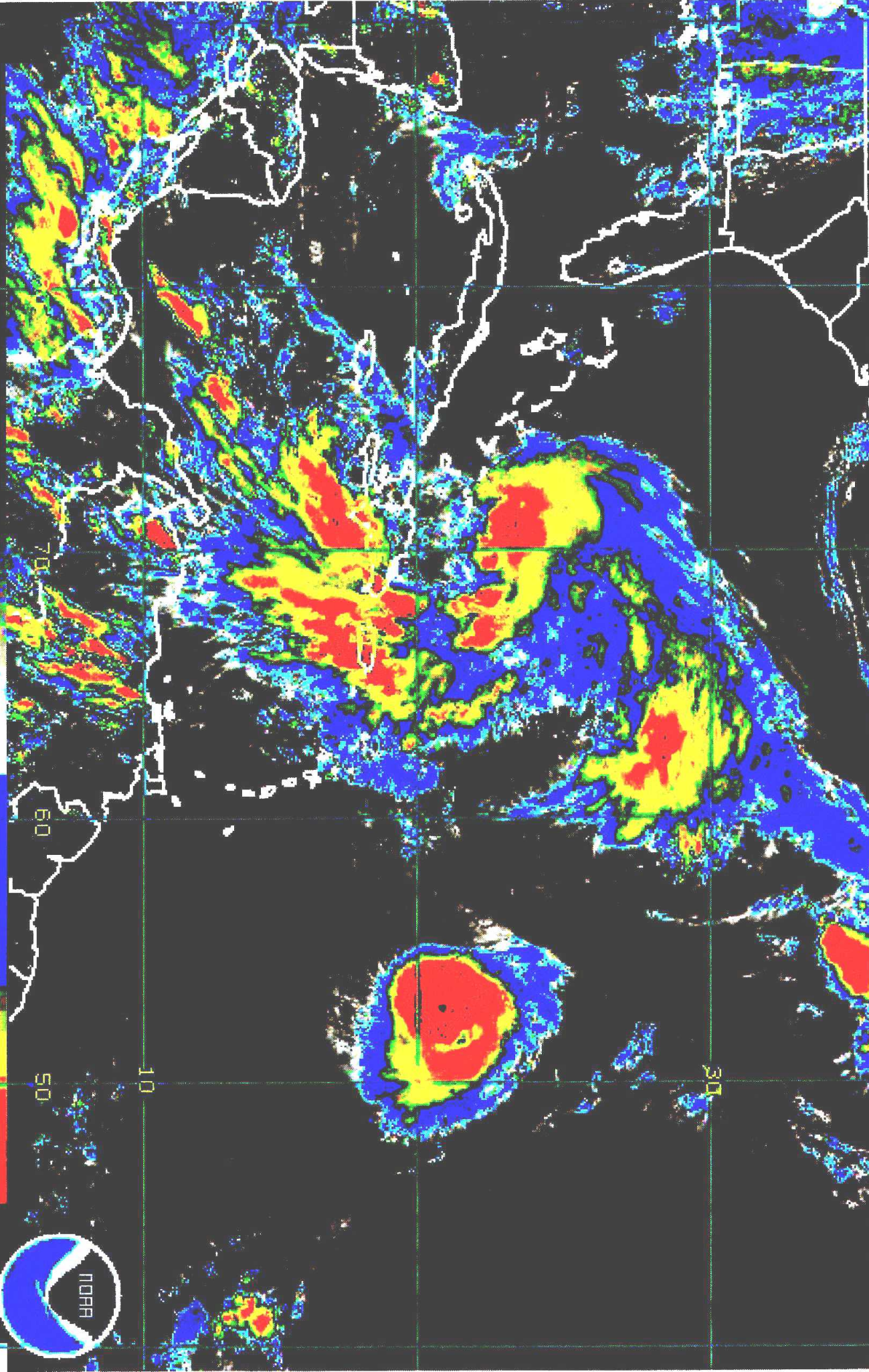
DROP LOCATIONS

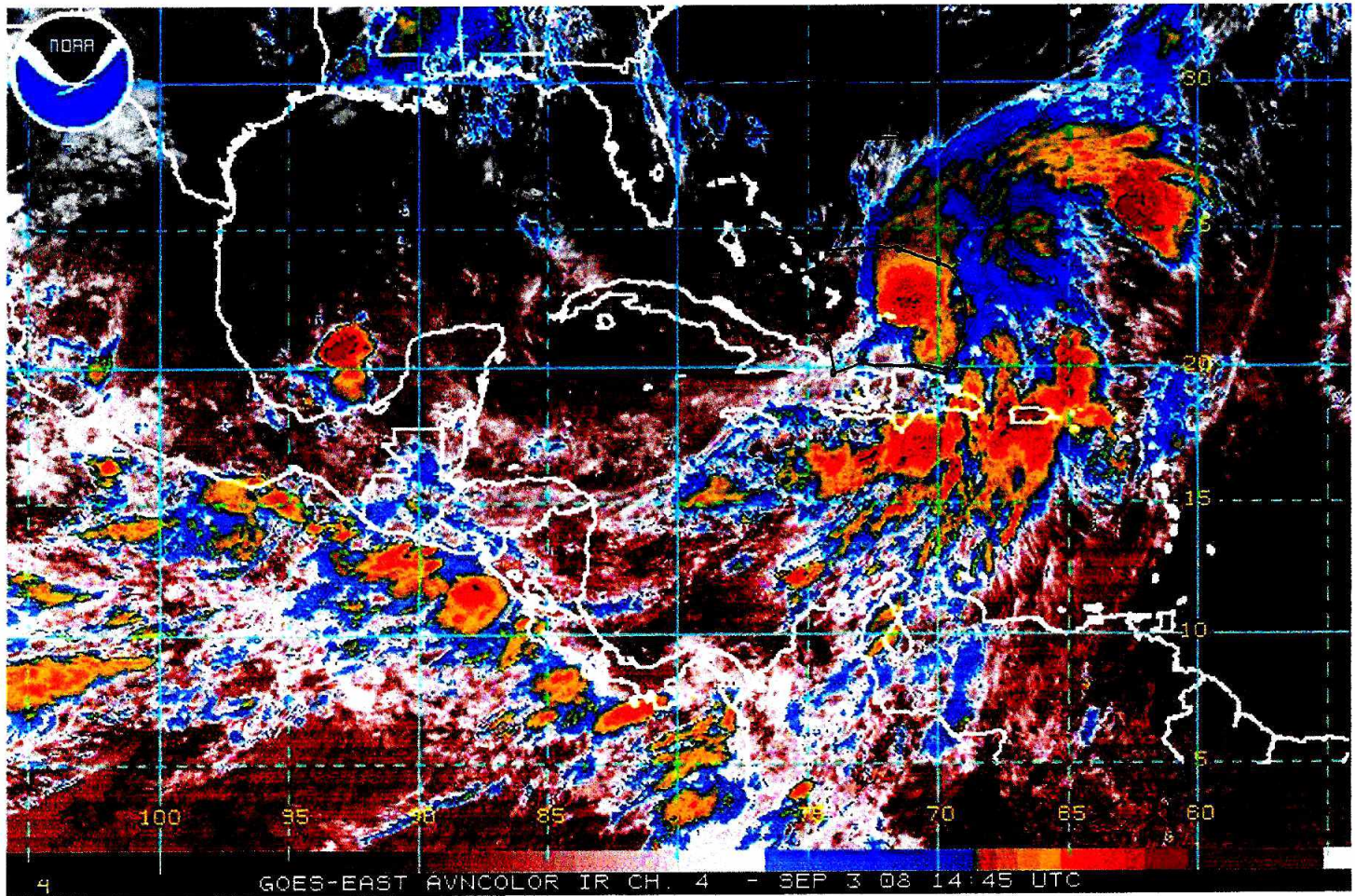
#	LAT (d m)	LON (d m)	TIME (h:mm)
1	30 00	-80 00✓	0:26
2	30 00	-78 00✓	0:41
3	30 00	-76 00✓	0:57
4	30 00	-74 00✓	1:12
5	30 00	-72 00✓	1:27
6	30 00	-70 00✓	1:42
7	28 00	-71 00✓	2:00
8	28 00	-73 00✓	2:16
9	28 00	-75 00✓	2:31
10	28 00	-77 00✓	2:46
11	28 00	-79 00✓	3:02
12	26 00	-78 30✓	3:19
13	25 00	-77 15✓	3:31
14	24 45	-75 00✓	3:49
15	24 25	-72 40✓	4:07
16	24 25	-71 20✓	4:18
17	23 51	-70 08✓	4:28
18	22 48	-69 18✓	4:39
19	21 30	-69 00✓	4:50
20	20 12	-69 18✓	5:01
21	19 46	-69 44✓	5:06
22	20 11	-71 29✓	5:20
23	20 17	-72 59✓	5:32
24	19 57	-74 00✓	5:41
25	20 44	-74 23✓	5:48
26	21 30	-75 00✓	5:56
27	22 48	-74 42✓	6:07
28	23 51	-73 52✓	6:17
29	23 15	-77 00✓	6:42
30	23 13	-78 59✓	6:58
31	24 30	-79 15✓	7:08

NOAA G-IV Flight Track for HANNA (AL082008)

On 2008090400 the storm was centered at 21.5;-72.0







NOAA G-IV Flight Track for Hanna (AL082008)

On 2008090400 the storm was centered at 23.7;-74.9

