

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

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

AOC Flight Crew

Aircraft Commander: <u>HAGAN</u>	Data System: <u>ROGERS</u>
Co-Pilot: <u>ODELL</u> <u>1 LONGENECKER</u>	Avaps:
Navigator: <u>1</u>	System Engineer:
Flight Eng: <u>1</u>	AA: <u>CARPENTER</u>
Flt Director: <u>ALMEIDA</u> <u>1 MAYEAUX</u>	AA: <u>MILLER</u>
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: NOAA9 0708A

Teal 72

Recco

Times: Fix # Fix Time

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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
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Flight Level Tapes	1	3, ads files
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Radar Tapes

Cloud Physics
Tapes/CD's

Video Tapes/DVD's

Dropsondes	36	Good: 32 Bad: 4 Sent: 31
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AXBT

AXCP

AXCTD

SONOBUOY

Remarks:

N49RF AOC GPS Dropwindsonde Log

Flight ID 060903N

Flight Director Mayeors/Almeida

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Mission ID 0708A

Storm HANNA

2355
7647

Drop#	Channel# SONDE ID	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	06204923	173944	3000	7800	1012.7	Winds 11	140222	1		1402
2	062049132	175401	3000	7800	1012.8	Winds 14	141208	2		1412
3	062049042	180810	3000	7800	1013.2	Winds 5	142620	3		1420
4	062049209	182236	3000	7900	1013.0	Winds 1	144239	4		1442
5	062049145	183839	3000	7800	1012.4	Winds 11	145628	5		1456
6	062839012	184946	3000	7000	1012.3	Winds 3	150824	6		1508
7	062049162	190942	2800	7500	1009.3	Winds 9	152941	7		1529
8	062249012	192518	2800	7300	1009.5	Winds 17	154448	8		1545
9	062049086	194003	2800	7500	1009.2	Winds 12	155640	9		1556
10	062339115	195410	2800	7700	1010.7	Winds 4	161408	10		1614
11	062339106	200758	2800	7900	1011.0	Winds 15	163335	11		1633
12	062049252	202347	2600	7830	1008.6	Winds 9	164355	12	no Launch detect	1643
13	062049253	202652	2550	7830	1008.4	Winds 7				
14	063019077	203711	2500	7715	1007.3	Winds 23	165838	13		1658
15	063019046	205822	2445	7500	1004.9	Winds 8	171248	14		1713
16	063019127	211243	2425	7240	-	Winds 3	Fast Fall	-	-	-
17	062049189	211505	244	72.3	1001.0	Winds 4	173514	15		1735
18	063019110	212322	2425	7120	1001.2	Winds 6	174103	16		1741
19	062339213	213408	2351	7008	999.3	Winds 7	175245	17		1752
20	062259010	214516	2244	6918	997.8	Winds 16	180606	18		1806
21	062049180	215852	2130	7500	No Winds	No Winds		-	-	-
22	062249083	215925	211	69.08	999.0	Winds 15	182311	19		1823
23	063019057	220818	2012	6918	999.1	Winds 5	182547	20		1825

Flight ID 080903W

Flight Director Mayeaux/Almeida

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Mission ID 0708A

Storm Hanna

[illegible]

N49RF AOC GPS Dropwindsonde Log

Flight ID: 080903N

Flight Director: Almeida/Mayeaux

Mission ID: N04A9 0708A

Track #: HANNA

Pg 1 of 2

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	062049223	173946	30 02	79 57	1012.7	ovc 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	ScT Sc		3		
3	4	062049209	182236	30 00	74 00	1013.0	ScT Sc Haze		4		
1	5	062049145	183639	30 00	73 00	1012.4	BKN Sc Haze		5		
4	6	062839012	184946	29 56	70 06	1012.3	ovc Cs		6		
1	7	062049262	190942	28 02	71 23	1009.3	ovc Cs		7		
2	8	062249012	192518	28 00	73 00	1009.5	ovc 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	ovc As Sc TCU		11		
2	12	062049252	202346	26 00	78 28	1008.6	BKN CuCb	backed up + thought no launch	12		
1	13	062049253	202652	25 45	78 11	1008.4	BKN Sc Cb				
4	14	063019077	203711	24 59	77 06	1007.3	BKN cu Haze	delayed to miss over Island.	13		
1	15	063019106	205332	24 45	74 59	1004.9	ovc Cs Cb		14		
2	16	063019127	211243	24 25	73 40	—	ovc Cs	FAST FALL	—		
1	17	062049294	211505	24 25	72 22	1001.0	ovc		15		
4	18	063019110	212322	24 24	71 18	1001.2	ovc		16		
2	19	062339013	213408	23 50	70 08	999.3	ovc		17		
1	20	062259016	214516	22 47	69 18	997.8	ovc Cs As		18		
2	21	062939180	215652	21 27	69 01	998.6	ovc As Cb	No winds	—		
4	22	062249083	215925	21 10	69 05	998.0			19		
1	23	063019023	220818	20 10	69 20	999.1	ovc Cs As		20		
2	24	063019122	221422	19 49	69 56	999.4	ovc Cs As		21		
4	25	063019072	222650	20 11	71 30	—	ovc Cs Ac	FAST FALL	—		
1	26	061449053	222943	20 13	71 51	999.1	ovc Cs Ac		22		
2	27	062339080	223846	20 17	72 59	1000.1	ovc Cs Sc		23		
4	28	063019009	224534	20 33	73 47	1000.8	ovc Cs Cu		24		
1	29	062339021	225139	20 41	74 15	1001.3	ovc Cs Ac		25		
2	30	063019121	225935	21 41	74 58	1002.4	ovc Al Cs		26		
4	31	063019037	230828	22 45	74 43	1001.2	ovc Sc Al Cs		27		

N49RF AOC GPS Dropwindsonde Log

Flight ID: 080903 N

Flight Director: Almeida / Mayeaux

Mission ID: NOAA9 0708A

Track #: HANNA

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[illegible]

	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

0903h.1log

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

08

2:59:39	21 40.98'N	74 57.54'W	144.8	-64.6	-68.0	200.3	13.8
23:05:27	22 25.21'N	74 47.29'W	144.9	-64.0	-67.8	176.4	14.5
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

0903n.log

14324.7	14274.0	11.5	11.9	226.9	240.6	-0.40	drop 30
14317.1	14267.1	12.6	11.6	224.9	238.9	0.03	Td's
14317.5	14267.8	18.5	16.1	225.1	237.5	-0.30	drop 31
14317.5	14267.8	18.5	16.1	225.1	237.5	-0.30	lost winds. in
14320.3	14271.5	252.1	258.6	227.5	225.7	0.52	winds back,
14302.6	14253.5	262.9	264.4	227.3	229.5	-0.36	drop 33 - bad
14299.2	14250.1	268.8	269.9	226.7	230.0	0.37	drop 34
14310.8	14261.7	333.5	333.2	227.5	221.1	-0.07	drop 35
14310.7	14262.8	333.4	333.4	228.6	219.1	-0.34	drop 36
12.9	12.9	39.8	37.1	65.3	59.3	-0.55	landed
14.2	14.1	133.6	294.6	0.4	2.2	0.01	block in

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: HANNA

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

Aircraft: N49RF

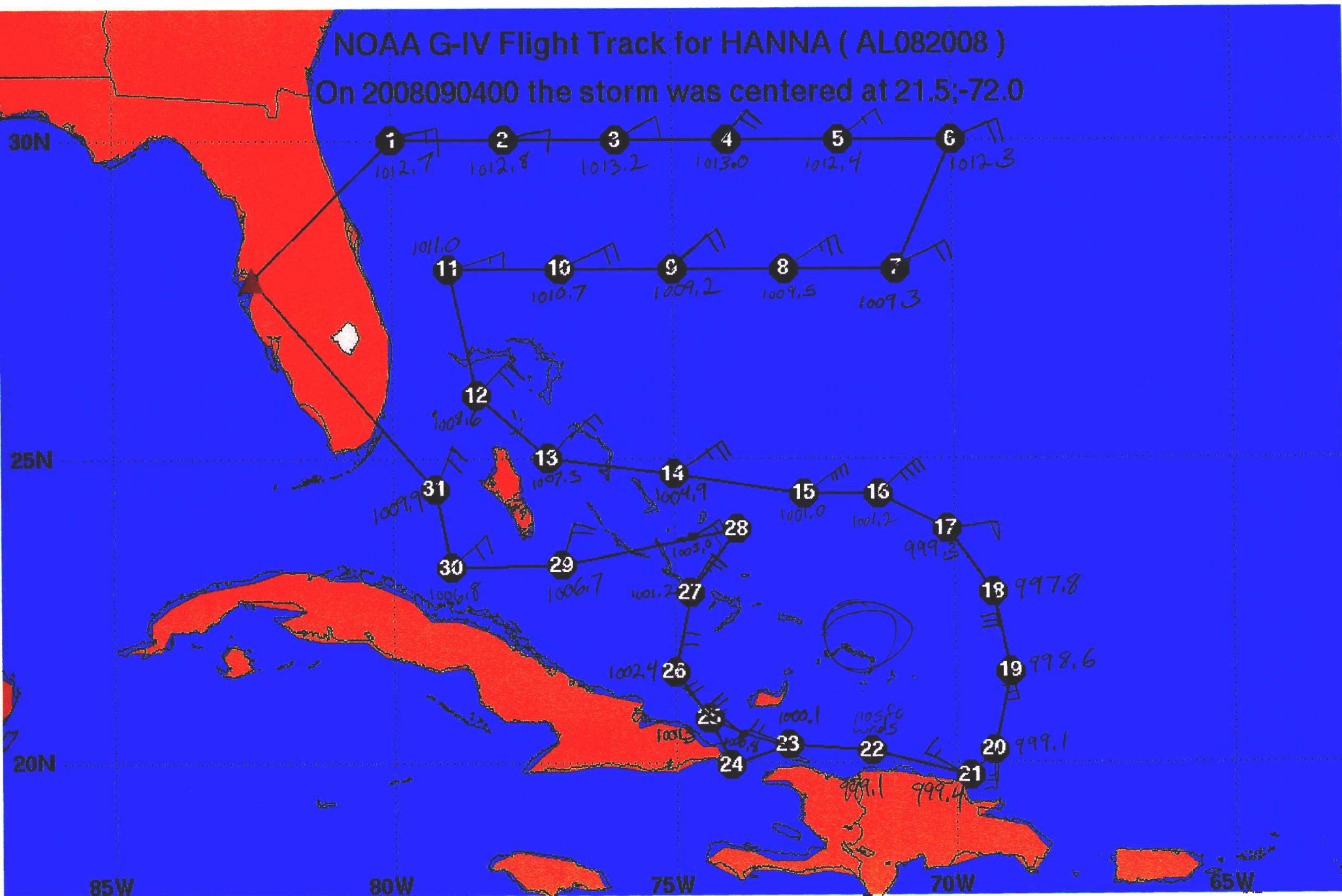
Proposed takeoff: 03/1730Z

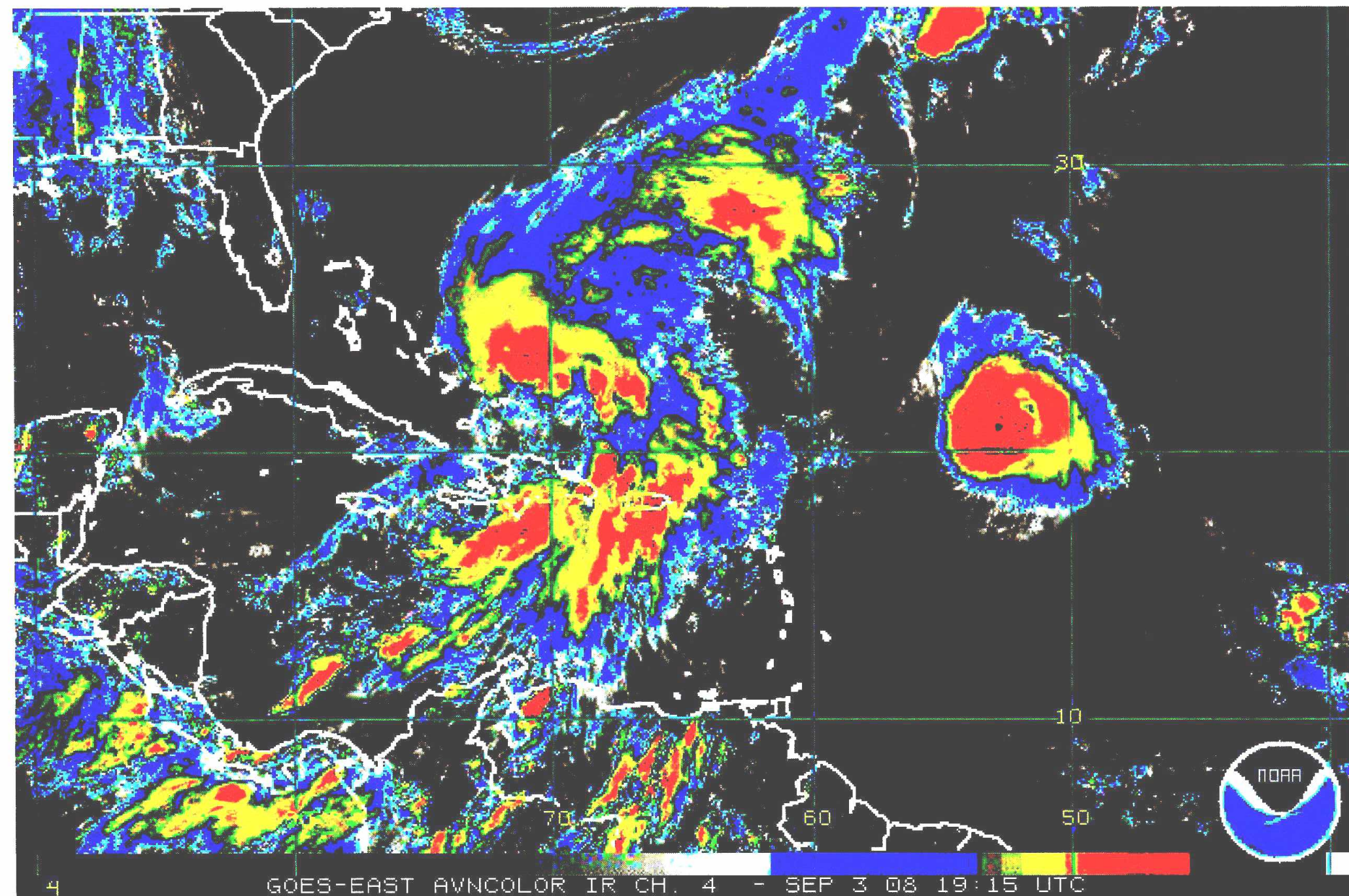
DROP LOCATIONS

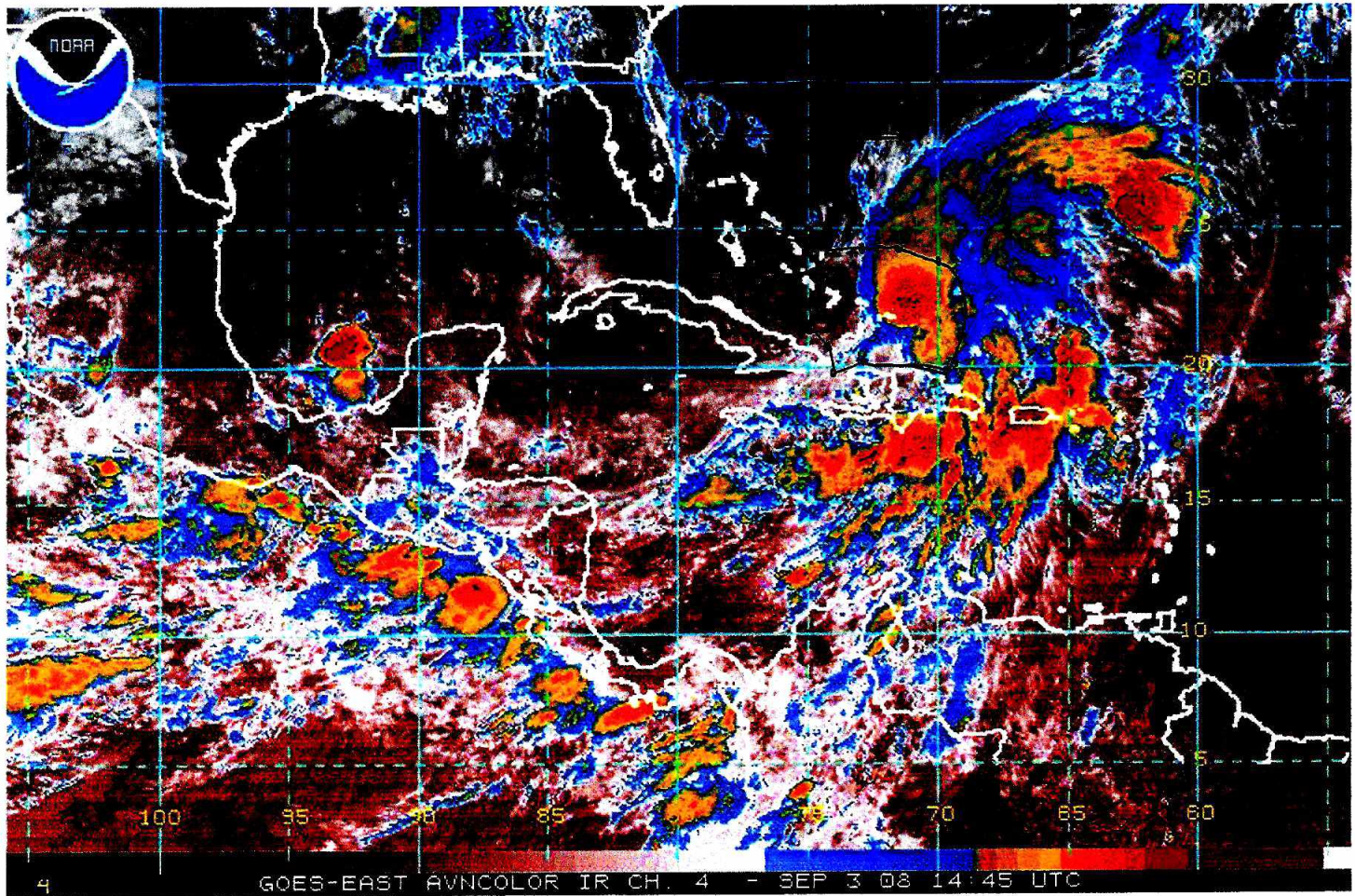
#	LAT (d m)	LON (d m)	TIME (h:mm)
1	30 00	-80 00✓	0:26
2	30 00	-78 00✓	0:41
3	30 00	-76 00✓	0:57
4	30 00	-74 00✓	1:12
5	30 00	-72 00✓	1:27
6	30 00	-70 00✓	1:42
7	28 00	-71 00✓	2:00
8	28 00	-73 00✓	2:16
9	28 00	-75 00✓	2:31
10	28 00	-77 00✓	2:46
11	28 00	-79 00✓	3:02
12	26 00	-78 30✓	3:19
13	25 00	-77 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

