

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

FLT ID: 20110825N2	From: KMCF	To: KMCF
FLT #: 11-078	Blk In: 0140 Z	Lnd Time: 0133 Z
ETD: 1730 Z	Blk Out: 1708 Z	T/O Time: 1718 Z
ETE: 8+30	Total Blk: 8.5	Total Flt: 8.3
Sponsoring Org: NHC	Program: PHS	Purpose: IRENE

AOC Flight Crew

Aircraft Commander: HAGAN	Data System: HILL
Co-Pilot: TOTH /	Avaps: DEFEO / NEWNAM
Navigator: /	System Engineer: GOLDSTEIN (TDR)
Flight Eng: /	GUEST: TIM BARRY
Flt Director: HENNING MORGAN	NWS Tallahassee
Avionics:	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew on back.

of people listed on back:

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	altim 29.82		altim 29.78	
ATIS - Takeoff	(STPR 1009.7)		(STPR 1008.3)	
ATIS - Land				

Data Source	Number	Data Disposition / Date / Quality	
Flight Level Tapes			
Radar Tapes			
Dropsondes	38	Good: 36	Bad: 2 Sent: 36 (1 fast fall + 1 died at 27,000 ft)
AXBT			

List other data sources on back in Remarks section.

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times:	Fix #	Fix Time
Storm Name: _____			
Mission ID: NOAA9 2209A IRENE AL092011			

both backups GOOD

00z 27.5N 77.5W

N49RF AOC GPS Dropwindsonde Log

Flight ID: 20110825N2

Flight Director: HENNING/MORGAN

Mission ID: N0AA9 2209A

Storm/Track: IRENE

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Drop #	Ob #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°E)	Wx Cond.	L5/R5?	SFC Pts (mb)	Last Wind Alt (m)	Comments	Ch #	SatComm failures	KWBC #
1	01	103455076	1759	31.7°N	-80.7°E	Low lvl Cu	R5	1013.1	sfc		1		1825
2	02	103515351	1813	31.1°N	-79.0°E	Cs	R5	1011.5	sfc		2		1836
3	03	103515209	1825	32.0°N	-77.6°E		R5	1013.6	sfc		1		1846
4	04	102615221	1836	33.4°N	-77.9°E		R5	1014.4	sfc		2		1856
5	05	102525136	1854	32.9°N	-75.1°E		R5	1014.3	sfc		3		1920
6	06	102515146	1911	31.2°N	-74.4°E		R5	1013.6	sfc		1		1936
7	07	103515343	1920	32.0°N	-74.0°E		R5	1014.3	sfc		2		1946
8	08	103515025	1929	33.0°N	-73.0°E		R5	1016.0	sfc		3		1953
9	09	102535172	1949	35.4°N	-73.4°E		R5	1014.5	sfc		4		2015
10	10	102455066	2005	34.0°N	-71.5°E		R5	1017.1	sfc		1		2032
11	11	103455076	2022	32.0°N	-71.1°E		R5	1016.4	sfc		2		2045
12	12	102455293	2034	31.0°N	-72.0°E		R5	1015.6	sfc		3		2058
13	13	103515036	2046	30.0°N	-72.9°E		R5	1012.2	sfc		1		2109
14	14	102455267	2100	29.0°N	-71.1°E		R5	1013.7	sfc		2		2126
15	15	103455016	2111	28.0°N	-71.9°E		R5	1012.1	sfc		3		2136
16	16	101015117	2121	27.0°N	-71.1°E		R5	1013.3	sfc		4		2145
17	17	102185291	2132	26.0°N	-72.0°E		R5	1010.9	sfc		1		2156
18	18	103455034	2144	25.0°N	-72.9°E		R5	1009.4	sfc		2		2208
19	19	102455314	2154	24.0°N	-72.1°E		R5	1011.3	sfc		3		2219
20	20	103515435	2205	23.0°N	-73.0°E		R5	1009.9	sfc		4		2226
21	21	101425150	2216	22.1°N	-74.0°E		R5	1009.2	sfc		1		2243
22	22	103515256	2227	23.0°N	-75.0°E		R5	1008.5	sfc		2		2255
23	23	103455075	2239	23.0°N	-76.5°E		R5	1006.0	sfc	Data Stopped	3		
24	23	1024615075	2252	23.9°N	-77.9°E		R5	1006.0	sfc	Relaunching	1		2321
25	24	103515381	2302	24.4°N	-78.0°E		R5	1003.3	sfc	100mb still have fix	2		2327
26	25	103515424	2310	24.5°N	-77.5°E		R5	1002.5	sfc		4		2341
27	26	103515369	2320	24.3°N	-76.2°E		R5	1005.5	sfc		3		2347
28	27	103455038	2330	24.9°N	-75.0°E		R5	1005.8	sfc	*NO 700mb*	1		0002
29	28	103515205	2340	25.9°N	-74.2°E		R5	1006.1	sfc		2		0013
30	29	103515373	2351	27.2°N	-73.9°E		R5	1006.2	sfc		3		0022
31	30	102935091	0002	28.5°N	-74.2°E		R5	1006.7	sfc		4		0029
32	31	1028615311	0013	29.0°N	-75.1°E		R5	1005.9	sfc		1		0034
33	32	103115507	0022	30.1°N	-76.2°E		R5	1004.9	sfc	FAST FALL	2		

Not Used *

FF

N49RF AOC GPS Dropwindsonde Log

Flight ID: 20110625N2

Flight Director: HENNING / MORGAN

Mission ID: N0AA9 2209A

Storm/Track: IRENE

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Drop #	Ob #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°E)	Wx Cond.	L5/R5?	SFC Prs (mb)	Last Wind Alt (m)	Comments	Ch #	SatComm failures	KWBC #
32	32	102515306	0023	30.1°N	-76.4°E			1007.1	17m		3		0049
33	33	103125316	0032	30.1°N	-77.6°E			1005.7	SFC		4		0055
34	34	103515310	0042	29.5°N	-78.8°E			1002.8	SFC		35		0109
35	35	102125274	0053	28.4°N	-79.3°E			997.6	SFC		2		0115
36	36	101015193	0103	27.3°N	-79.8°E			999.9	SFC	LAST REP.			0127
6													
7													
8													
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N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project : Hurricane 2011

Mission: 1st Airborne SurveillanceFlight ID: 20110825N2Take Off: 1717Landing: 0133Flt Dir: Rich Hennessey

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge \$\$ To	Comments	Good ?
1	103455076	1	0	1759		JWH	PHS NWS		✓
2	103515351	2	0.3	1813					✓
3	103515209	1	0.7	1825					✓
4	102815291	2	0.9	1836					✓
5	102525138	3	0.9	1854					✓
6	102515146	7	0	1912					✓
7	103515343	2	0	1920					✓
8	103515025	3	0.3	1929					✓
9	102535172	4	0.9	1949					✓
10	103455066	1	0.8	2005					✓
11	103455078	2	0.5	2022					✓
12	102815293	3	1.2	2034		JWH			✓
13	103515036	1	0.4	20404		JWH			✓
14	102815287	2	.7	210056					✓
15	103455018	3	0	211154					✓
16	101015117	4	.8	212152					✓
17	102125291	1	.8	213258					✓
18	103455034	2	.9	214122					✓
19	102815314	3	.7	215435					✓
20	103515435	4	8	220531					✓
21	101425150	1	1.0	221616					✓
22	103515258	2	0	222122					✓
23	103455075	3	0	223903				Missing data from 475-675mb	
24	102815075	1	.9	225300				Spoke for Prop 23	✓
25	103515381	2	.5	230116					✓
26	103515434	4	.4	231048					✓
27	103515369	3	.6	232021					✓
28	103455038	1	.7	233029				Missing data from 550-900mb	
29	103515205	2	.4	234054					✓
30	103515373	3	.6	235143					✓
31	102535091	4	0	000242					✓
32	102815311	1	1.0	001319					✓
33	103115507	2	.5	002242				Full Fall	
34	102515306	3	.6	002346		JWH		Spoke for Prop 33	✓

See back ↴

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge \$\$ To	Comments	Good ?
35	103 125 316	4	0	002137		JUN	PHS		✓
36	103515 370	1	.5	004240				Missing Data in several spots See L5	
37	102 125 274	2	1.0	005307					✓
38	101 015 193	3	1.2			JUN			✓
39									
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Drop Station Operator Notes

AVAPS Pre-Flight Check:

- Apply power to computer first, then AVAPS fan and AVAPS chassis.
- Start AVAPS., then start Soundings and set the Project Name and Flight ID.
- Update the Frequency band allocation as required:
Band A - W53rd, Band B - N42RF, Band C - N43RF, Band D - N49RF, Band E - not allocated
- Perform a prelaunch check on each channel, look for reasonable data and no CRC error status lights. On channel #1 only, select **Begin Data Collection**, then terminate the sonde. On channels 2 through 4, select **Abort** to cancel the sonde initialization. **STOP** the channel #1 sounding, enter **no drop** in the comments.
- 1. Verify the AVAPS Data mission folder has been created, and it contains files created from the channel #1 sonde.

AVAPS Launch:

- Select a sonde frequency in the Green band and away from other sondes
- Enter sonde pressure error offset if 0.4mB or greater
- To avoid interference with active sondes, do not pull the Power Enable Pin during pre-launch setup until after the umbilical is attached
- Select "begin data collection" and verify good data (no winds yet though) prior to putting sonde in launch tube
- For AVAPS I sondes, remove then reinstall screen over chute cap
- Loosen ribbon and extend end of ribbon to near, but not over, the sensor end of the sonde
- Place the sonde in the launch tube, sensor arm up, with the power pin socket facing starboard
- Verify the sonde is actively tracking GPS data prior to launch

NOAA G-IV Flight Track Drop Locations for IRENE (AL09201-35N) On 2011082600 the storm was centered at 27.2; -76.9

