

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

FLT ID: 120110825N1	From: KMCF	To: KMCF
FLT #: 11-	Blk In: 1326 Z	Lnd Time: 1322 Z
ETD: 0530 Z	Blk Out: 0456 Z	T/O Time: 0509 Z
ETE: 8+30	Total Blk: 8:30 (8.5)	Total Flt: 8:13 (8.2)
Sponsoring Org: NHC	Program: SURV	Purpose: IRENE

AOC Flight Crew

Aircraft Commander: Glover	Data System: Rogers
Co-Pilot: Twining, Moyers	Avaps: Mascaro
Navigator: 1	System Engineer: Greene, J
Flight Eng: 1	AA:
Flt Director: Parrish, Williams	AA:
Avionics:	Crew Chief:

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

Total # of people on board:

of people listed on back:

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1010.6	1011.4	1009.2	1010.3

ATIS - Takeoff	250455Z 04006H 105m CLR 25/25 A2988
ATIS - Land	251255Z 02009 10 CLR 27/27 A2985

Data Source	Number	Data Disposition / Date / Quality / File Name(s)
Flight Level Tapes		
Radar Tapes		
Dropsondes		Good: Bad: Sent:
AXBT		

List other data sources on back in Remarks section.

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times:	Fix #	Fix Time
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Storm Name: _____

36 dropped
34 sent

Mission ID: 1809A IRENE

A409 2011

0508Z 24 03
75 49

0850Z
24 452
76 092

N49RF AOC GPS Dropwindsonde Log

Flight ID: 11082501

Flight Director: Williams, Patrick

Mission ID: 00049 1809A IREAC

Storm/Track: Irene

Pg 1 of 1

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	L5/R5	SFC Pts (mb)	Ob #	R5 Lowest Winds (Ht, Ws, Wd)	L5 Lowest Winds (Ht, Ws, Wd)	Sent Time (UTC)
1	1	103815091	0536	28.1	-79.6	Cloudy	AS	1010.8	01	053603	060623	
2	2	103815099	0546	27.7	-78.3	Bumpy	AS	1009.6	02	054621	061004	
3	3	103815020	0556	28.2	-77.1	"	AS	1009.3	03	055602	061515	
4	4	103815094	0605	28.2	-75.8	"	AS	1009.6	04	060528	062541	
5	5	103515172	0615	27.7	-74.6	Smooth	AS	1007.0	05	061559	063604	
6	6	103515006	0627	28.1	-73.1	"	AS	1010.7	06	062708	064644	
7	7	103815092	0636	29.0	-74.0	Bumpy	AS	1011.4	07	063637	065527	
8	8	103815180	0648	30.0	-75.1	"	AS	1012.2	08	064839	070751	
9	9	103515033	0703	30.0	-77.0	"	AS	1011.6	09	070336	072233	
10	10	103415071	0718	30.1	-78.9	"	AS	1011.0	10	071810	073809	
11	11	103415129	0730	31.4	-78.0	Smooth	AS	1012.6	11	073005	074455	
12	12	103125107	0743	31.1	-76.0	"	AS	1012.4	12	074336	080458	
13	13	102035002	0752	32.0	-75.1	"	AS	1014.2	13	075239	081421	
14	14	103015087	0808	33.0	-76.9	"	AS	1014.7	14	080839	083003	
15	15	102815077	0813	34.8	-74.0	"	LS	1016.0	15	083241	085153	
16	16	103755129	0851	33.0	-74.0	"	AS	1016.2	16	084812	090840	
17	17	102515244	0905	31.0	-74.0	Choppy	AS	1014.1	17	090541	092947	
18	18	103455087	0916	30.0	-73.0	"	AS	1012.9	18	091601	093545	
19	19	103515433	0926	29.9	-72.0	"	AS	1013.1	19	091601	093545	
20	20	102325092	0927	28.9	-71.9	"	AS	1013.1	19	115	095034	100712
21	21	103505173	0944	27.7	-71.1	"	AS	1011.6	20	13080	1003	
22	22	102515208	1000	25	-71	"	AS	1010.4	21		102313	
23	23	103455138	1011	24.7	-72	"	AS	1008.7	22		103605	
24	24	102515094	1026	26	-72.1	"	AS	1009.5	23	10550125	1052	
25	25	101015195	1052	26.3	-73.5	"	AS	1006.1	24		110733	
26	26	102615002	1103	24	-73.8	"	AS	1005.1	25		111512	
27	27	103455094	1113	23	-74.5	"	AS	1003	26		112926	
28	28	103515105	1124	22	-73.1	"	AS	1007.3	27		113732	
29	29	102515060	1137	21.1	-74	"	AS	1006.2	28		115146	
30	30	103455087	1153	20.2	-75.5	"	AS	1004.7	29		1216	
31	31	103515445	1206	20.4	-77.2	"	AS	1004.1	30		1229	
32	32	103415081	1216	23	-78.4	"	AS	1003	31		123634	

From 1800Z

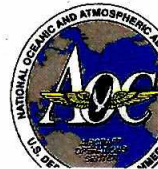
FFMS

0850Z

did NOT send



NOAA G-IV N49RF
HUR12, KMCF-KMCF
25 Aug 2011, NHC IRENE



Flight ID: 20110825N1

Sensor or system

Accelerometer
Altitude
Attack Angle
Dew Point Probe
Dynamic Pressure
Geopotential Altitude
Inertial Selected
Static Pressure
Slip Angle
Temperature Probe
True Air Speed
Constants File
Flight Directory

Number or Name

AccZI.1
AltGPS.3
AA.2
TdM.1X
PQF.2
ALTGA.1 (AltGPS.3)
INE 2
PSF.2
SA.2
TTM.1
TASF.1
49cal111.doc
acdata/MET/2011/20110825N1

Local Met Data:

Takeoff (0509Z)

Landing ^{1322Z} ~~(0456Z)~~

Aircraft Static Pressure

1010.6 mb

1009.2 mb

Tower Pressure (corrected)

1011.4 mb

1010.3 mb

Notes:

TTM.3 had an oscillation throughout the flight with the same period. The amplitude of the oscillation decreased as altitude increased resulting in about 0.8°C amplitude from 40-45kft. TTM.1 is default.

PQBetaF.1, Dynamic Slip Pressure 1, becomes erroneous after 123330Z with a downward spike just before descent, causing a spike in SA.1, UWZ and WS. Due to this spike PQBetaF.2/SA.2 was selected as default.

Dew point values intermittently exceeded ambient temperature values from 0811Z – 0926Z during portions of flight where the aircraft was in precipitation, causing RH values greater than 100%. TdM.1 performed better overall maintaining a slightly colder temperature at altitude and compared well with ground station dew point. However, it had a dropout on descent from 120638Z-121809Z, during this time TdM.2 was directly substituted in for TdM.1, TdM.2 = TdM.1. TdM.1X is default.

All other instruments worked properly.

36 dropsondes launched (AVAPS II): 34 good, 2 bad, 34 sent

All 34 good drops successfully transmitted to be ingested into the 24/12Z model.

Flight Director:

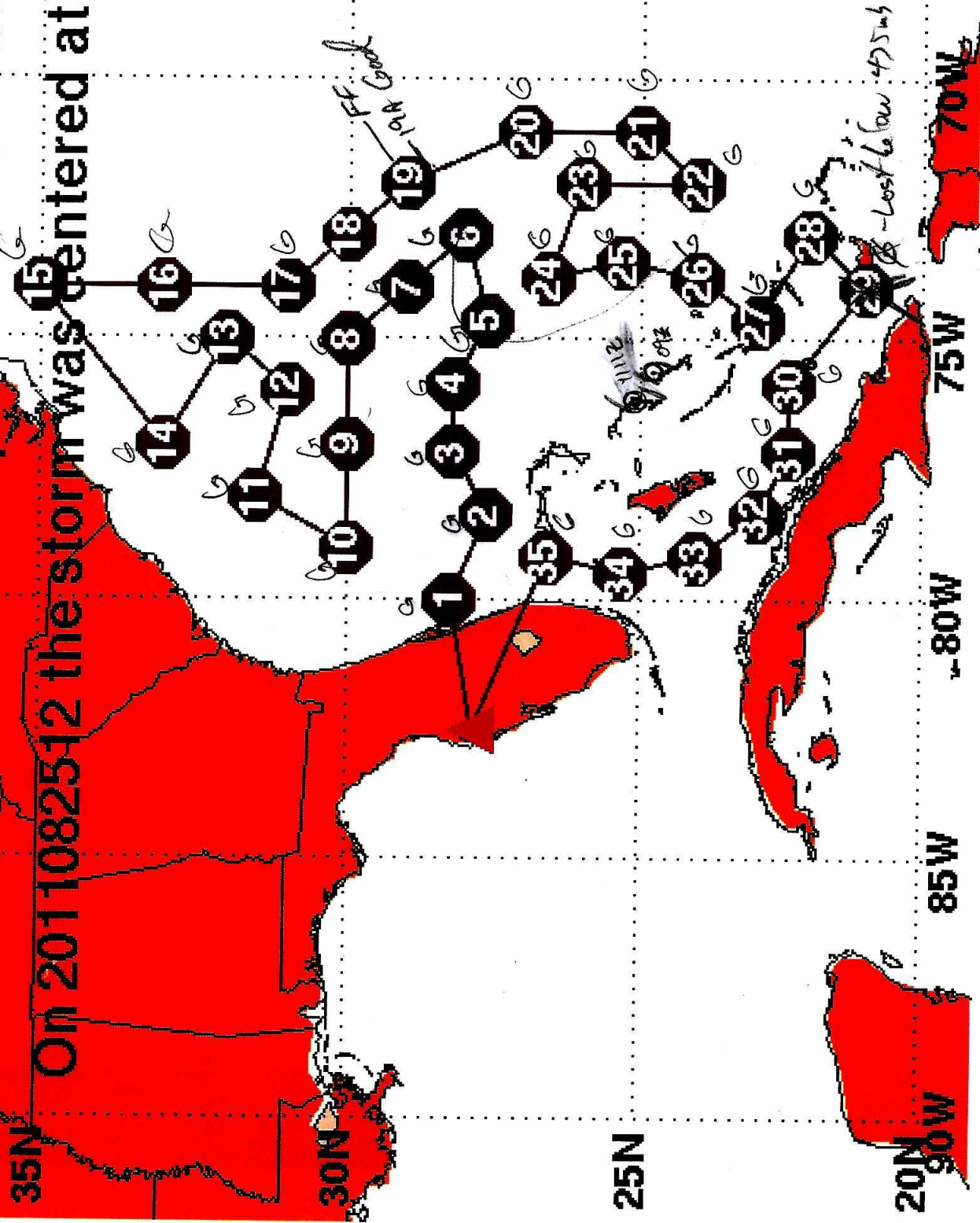
Jess Williams/Jack Parrish

Phone #:

(813) 828-3310 ext. 3140

753

On 20110825¹² the storm was centered at 25.3;-76.5



2-90

Flight Director: Parrish Williams

Mission ID: NCMA 9 1869A

Storm/Track:

72 ENK

Pg. of [illegible]

11pm ~~1213~~
~~1213~~ ~~1014~~
Mission/Storm Info:

Surv NHC
~~33~~ ~~Grassland~~ May cut out

33

11pm cat 3
952 mb 105kt SUS
MOVG NW 10kts
Major thru V Sat

23.8 8.4 11pm 25/02
25.5 76.5
110kt

4-5 days NE landfall
cat 2 or 1

t/o wx: 03609 UNL
91030

metar/taf:

Climb Turb/ice:

Flight:

Cloud tops: a to r abv 450

Precip Tops:

Movement:

FL wind: SW Bat ↑ 55 kt S-SW

turb: N + W side - Dry CA

landing wx:

descent turb/ice:

taf:

local conditions:

Sea Salt/Volcanic Ash:

END
01010620
UNL
BKN 030

N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project : Hurricane 2011

Mission: IRENEFlight ID: 20110825N1Take Off: 0509

Landing: _____

Flt Dir: PARIST WILLIAMS

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge \$\$ To	Comments	Good ?
1	103815091	1	0	0536		man	PHS ^{NV}		✓
2	103855009	2	0	0546					✓
3	103855020	3	.8	0556					✓
4	103815094	4	.8	0605					✓
5	103515172	1	.6	0616					✓
6	103515006	2	0	0627					✓
7	103815092	3	.8	0636					✓
8	103825180	4	.8	0648					✓
9	103515033	1	0	0703					✓
10	103455071	2	.7	0718					✓
11	103455129	3	.6	0730					✓
12	103125109	4	0	0743		JG			✓
13	102035062	1	0	0752					✓
14	103815087	2	0.8	0808					✓
15	102815077	3	0.5	0832				FILE SAVED TO LS	✓
16	103755129	4	0	0848					✓
17	102515244	1	0	0905					✓
18	103455087	2	0	0916					✓
19	103515433	3	0	0926				FAST FALL	
20	102325092	4	0	0927				NO SURFACE WINDS	✓
21	103525043	1	0	0944					✓
22	102515208	2	0	1000					✓
23	103455138	3	0	1011					✓
24	102525129	4	.5	1026				LOST TELEMETRY FROM 300-400MB	
25	102815094	1	0	1041					✓
26	101015195	3	0	1052					✓
27	103515002	4	0	1103					✓
28	103455094	1	0	1113					✓
29	103515051	2	0	1127					✓
30	102535060	3	.7	1137				LOST TELEMETRY	
31	101425257	4	.8	1153					✓
32	103515445	1	0	1206					✓
33	103445081	2	.8	1216					✓
34	102525238	3	1.0	1227					

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge \$\$ To	Comments	Good ?
35	103455072	5	0			MAM	PHS		✓
36	102315060	1	1.0			1	1		✓
37									
38									
39									
40									
41									
42									
43									
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54									
55									
56									
57									

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