

Lead Project Scientist

Storm or Project Irane Experiment name Landfall
Flight ID 110827E1 Mission ID _____

Preflight

- _____ 1. Participate in general mission briefing.
- _____ 2. Determine specific mission and flight requirements for assigned aircraft.
- _____ 3. Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
- _____ 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Review field program safety checklist
 - c. Arrange ground transportation schedule when deployed.
 - d. Determine equipment status.
- _____ 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- _____ 6. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- _____ 7. Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.
- _____ 8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- _____ 9. Make sure each HRD flight crew member has a life vest.
- _____ 10. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.

In-Flight

- _____ 1. Confirm from AOC flight director that satellite data link is operative (information).
- _____ 2. Confirm camera mode of operation.
- _____ 3. Confirm data recording rate.
- _____ 4. Complete Lead Project Scientist Form.
- _____ 5. Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

Post flight

- _____ 1. Debrief scientific crew.
- _____ 2. Gather completed forms for mission and turn in to data manager at HRD.
- _____ 3. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- _____ 4. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
- _____ 5. Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.

[Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

- _____ 6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- _____ 7. Determine next mission status, if any, and brief crews as necessary.
- _____ 8. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
- _____ 9. Prepare written mission summary using **Mission Summary** form.

Lead Project Scientist Check List

Storm or Project _____ Experiment name _____

Flight ID _____ Mission ID _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Uhlhorn</u>	Flight Director	<u>Damiano</u>
Radar/Workstation	<u>Marks</u>	Pilots	<u>Hudson, Nelson, Martin</u>
	_____	Navigator	_____
Cloud Physics	_____	Systems Engineer	_____
Photographer/Observer /Guests	_____	Data Technician	_____
Dropwindsonde	<u>Sellwood</u>	Electronics Technician	_____
AXBT/AXCP	_____	Other	_____

B. Take-off and Landing Times and Locations:

Take-Off: _____ UTC Location: _____

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

- Landfall mission off Cape Hatt, NC
- Fig-4 with coastal survey dropping sondes coordinated with mobile platforms across outer banks.

Storm or Project _____ Experiment name _____

Flight ID _____ Mission ID _____

E. —Equipment Status (Up ↑, Down ↓, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs / Expendables / Printouts
Radar/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

$\frac{12}{60}$ 7
600

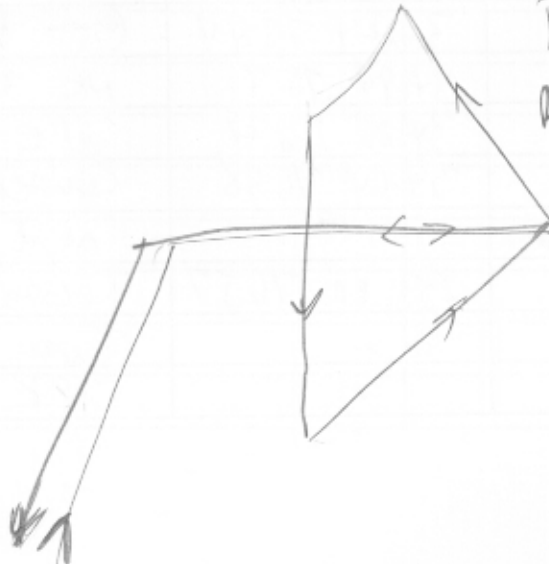
REMARKS:

Estimated pattern

Locations

SN: 0105A 36.38 -76.37
 0220A 36.05 -75.69
 0103A 35.56 -75.46
 0102A 35.23 -75.61

Duck 36 12' 75 43'
 MIPS Radar 34.73 -76.66



4 $\frac{\text{mi}}{\text{min}}$ \downarrow deg
60 mi

≈ 15 min deg

Lead Project Scientist Event Log

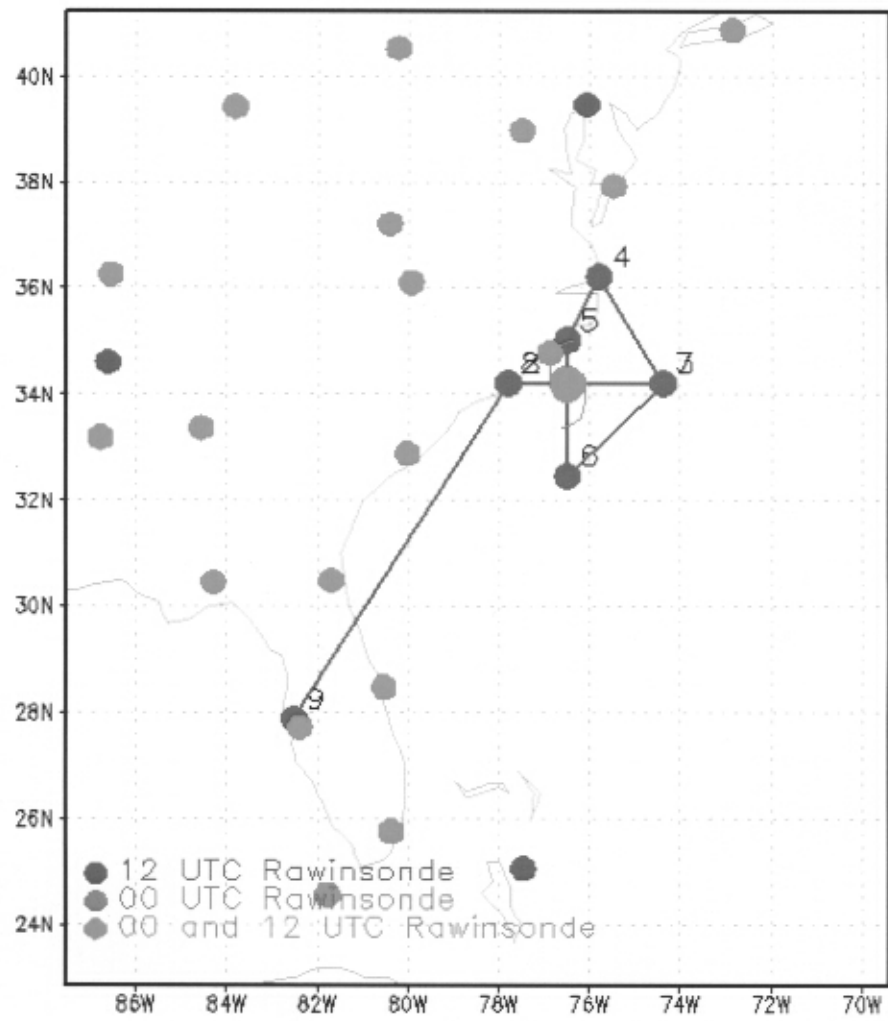
Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
0958	T/O	KaCF	
0954	Drop #1	34.12 77.82	Turn to E BAP Head 90° H Begin Leg #1
1002	Drop #2	34.13 77.11	W E W NLD
1003	Drop #3	34.14 77.02	OK Backup
1009	Drop #4	34.31 76.60	Center 95 mb
1015	Drop #5	34.32 76.11	E E W NLD
1016	Drop #6	34.32 75.99	Backup OK
1023	Drop #7	34.31 75.44	E midpt
1038	Drop #8	34.31 74.36	Turn DW End leg #1
1047	Drop #9	35.07 74.69	DW pt. 1 NLD
1055	Drop #10	35.73 75.09	DW pt. 2 NLD
1104	Drop #11	36.40 75.51	@ DW endpoint
1105		36.55 75.45	Turn to S along coast
1113	Drop #12	36.17 75.37	off Duck
1116	Drop #13	36.04 75.38	off Nags Head
1125	Drop #14	35.58 75.42	off Cape Hatteras
1126	Drop #15	35.53 75.42	Backup OK
1132	Drop #16	35.24 75.44	@ TTU 0102 A
1139	Drop #17	34.99 75.91	NE E W outer
1145	Drop #18	34.85 76.28	NE E W good
1150	Drop #19	34.64 76.58	Center @ land fall
1202	Drop #20		midpt S.
1213		33.10 76.57	Turn to NE DW
1254			Turn to W TRK 250°

CO

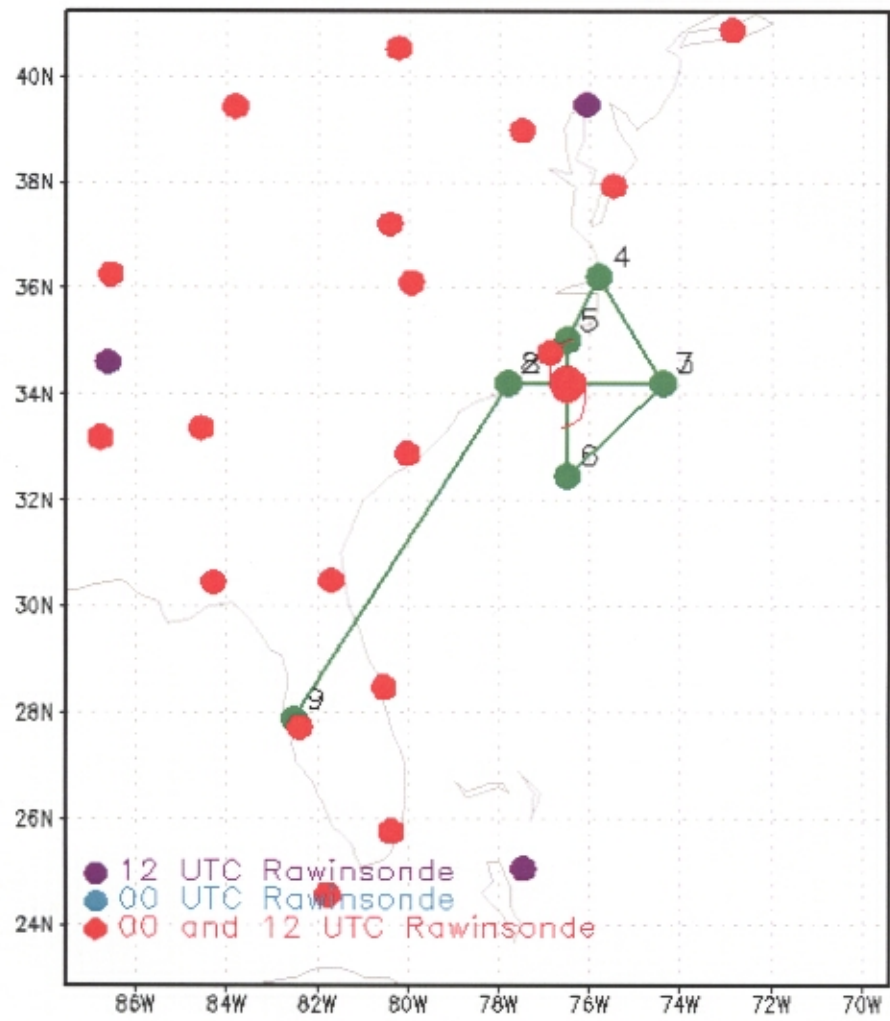


95 mb



GRADS: COLA/IGES

2011-08-26



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2011-08-26



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WTNT54 KNHC 270756
TCEAT4

HURRICANE IRENE TROPICAL CYCLONE POSITION ESTIMATE
NWS NATIONAL HURRICANE CENTER MIAMI FL AL092011
400 AM EDT SAT AUG 27 2011

AT 400 AM EDT...0800 UTC...THE CENTER OF HURRICANE IRENE WAS ESTIMATED BY AN AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT AND NOAA DOPPLER WEATHER RADAR TO BE NEAR LATITUDE 33.9 NORTH... LONGITUDE 76.6 WEST...OR ABOUT 50 MILES SOUTH OF CAPE LOOKOUT NORTH CAROLINA.

A NOAA C-MAN STATION AT CAPE LOOKOUT NORTH CAROLINA RECENTLY REPORTED A SUSTAINED WIND OF 67 MPH...107 KM/H...AND A GUST TO 76 MPH...122 KM/H. A WEATHERFLOW STATION IN FORT MACON NORTH CAROLINA RECENTLY REPORTED A WIND GUST OF 85 MPH...137 KM/H.

SUMMARY OF 400 AM EDT...0800 UTC...INFORMATION

LOCATION...33.9N 76.6W
ABOUT 50 MI...80 KM S OF CAPE LOOKOUT NORTH CAROLINA
MAXIMUM SUSTAINED WINDS...90 MPH...150 KM/H
PRESENT MOVEMENT...NNE OR 20 DEGREES AT 14 MPH...22 KM/H
MINIMUM CENTRAL PRESSURE...952 MB...28.11 INCHES

\$\$
FORECASTER BRENNAN

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Page last modified: Saturday, 27-Aug-2011 07:56:58 UTC

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① 36.38 23'

$$\frac{38}{100} \times \frac{8}{60}$$

② 36.20 12'

$$\frac{12}{100} \times \frac{1}{60} = \frac{3000}{100}$$

③ 36.05 3'

④ 35.56 34'

⑤ 35.23 14'

Handwritten notes on the right side of the page, including the date "12/10/02" and various illegible text.