

Lead Project Scientist

Storm or Project Irene Experiment name Landfall
Flight ID 110827II 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>Whithorn</u>	Flight Director	<u>Damiano</u>
Radar/Workstation	<u>marks</u>	Pilots	<u>Hallerson, Nelson, Martin</u>
		Navigator	
Cloud Physics		Systems Engineer	
Photographer/Observer		Data Technician	
/Guests			
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				

REMARKS:

Estimated pattern

Locations

SN: 0105A 36.38 -76.37

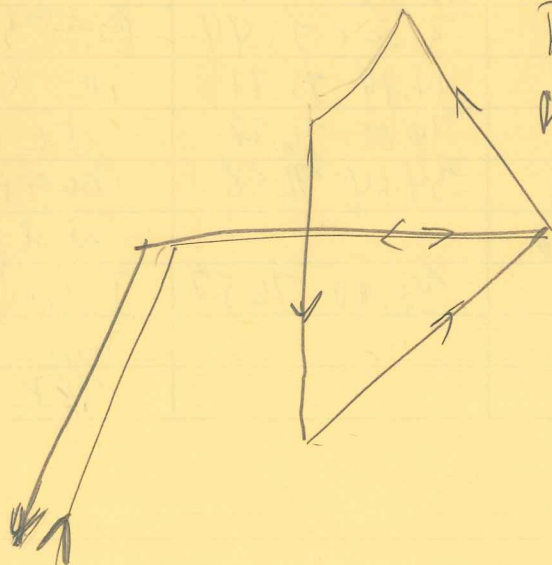
0220A 36.05 -75.69

0103A 35.56 -75.46

0102A 35.23 -75.61

Duck 36 12' 75 43'

MPS Radar 34.73 -76.66



4 $\frac{\text{mi}}{\text{min}}$ 1 $\frac{\text{deg}}{60 \text{ mi}}$

2 $\frac{1}{15}$ $\frac{\text{min}}{\text{deg}}$

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
0758	T/O	KMCF	
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 EW 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 EW 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 NLD
1126	Drop #15	35.53 75.42	Backup OK
1132	Drop #16	35.24 75.44	@ TTU 0102A
1139	Drop #17	34.99 75.91	NE EW outer EAST
1145	Drop #18	34.85 76.28	NE EW 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

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

[illegible]

