

Lead Project Scientist

Storm or Project Irene Experiment name TDR
Flight ID 11082511 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

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 Flight ID 110825II Mission ID _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Uhlhorn</u>	Flight Director	<u>Damiano</u>
Radar/Workstation	<u>Reasor</u>	Pilots	<u>Nelson, Halverson, Martin</u>
		Navigator	<u>Kidder</u>
Cloud Physics		Systems Engineer	<u>Klippel</u>
Photographer/Observer /Guests		Data Technician	<u>Maher</u>
Dropwindsonde	<u>Schlwood</u>	Electronics Technician	<u>Sans Souci</u>
AXBT/AXCP	<u>—</u>	Other	

B. Take-off and Landing Times and Locations:

Take-Off: _____ UTC Location: _____

Landing: _____ UTC Location: _____

Number of Eye Penetrations: 4

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

TDR, Rot Fig 4, Drops @ turn, mid, RMW, center

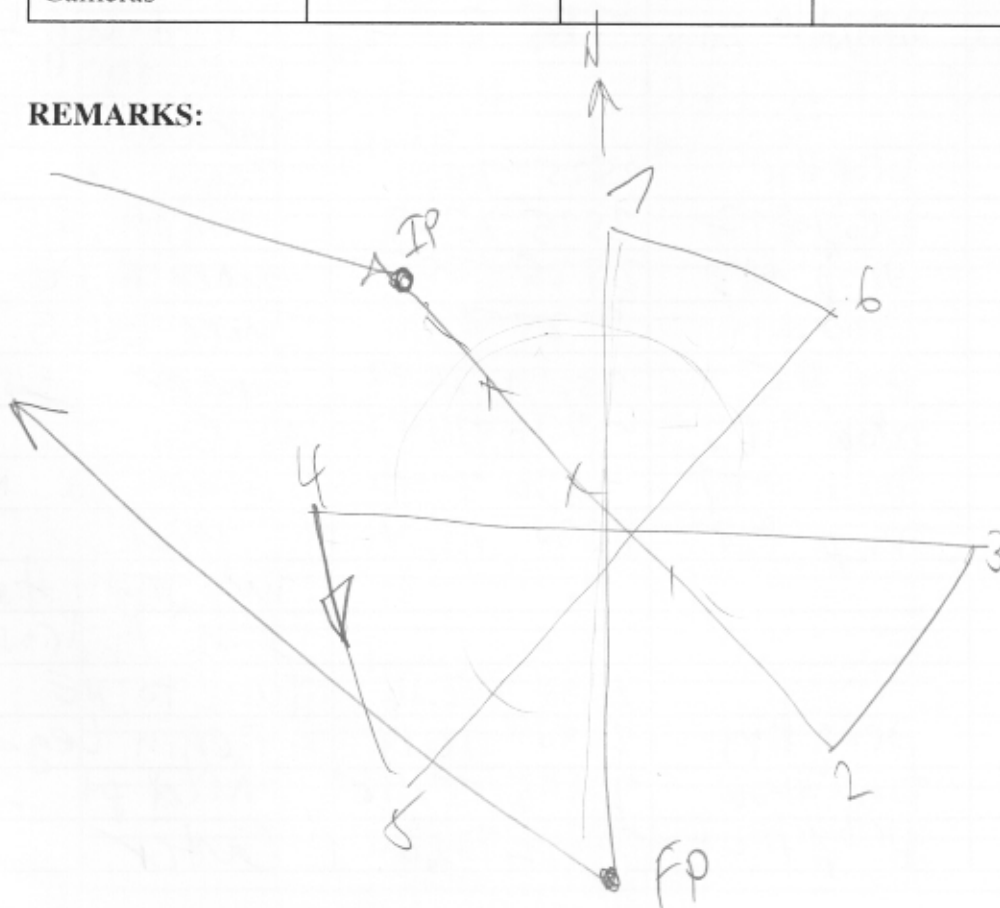
Storm or Project Irene Experiment name JDR

Flight ID 110825H1 Mission ID 2009A IRENE

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:



Lead Project Scientist Event Log

Date 8-25-2011 Flight ID 110825I1 LPS Uhlhorn

Time	Event	Position	Comments
0817	T/O	KMCF	
0929	Drop #1	26.12 77.58	IP/turn to 135°H
0943	Drop #2	25.51 76.96	Mid <u>NLD</u>
0950	Drop #3	25.23 76.58	Outer EW
0955	Drop #4	25.02 76.29	EW
0956	Drop #5	25.00 76.20	Center 76.02'
1002	Drop #6	24.78 75.94	SE EW open <u>NLD</u>
1003	Drop #7	24.72 75.88	Backup SE EW
1011	Drop #8	24.40 75.54	Midpt SE
1020	Drop #9	24.02 75.15	RB SE
1027	Drop #10	23.85 74.82	- End Leg 1 - Turn to ON
1043			Turn to 270°H
1044	Drop #11	25.25 74.47	- Begin Leg 2 -
1055	Drop #12	25.25 75.29	Midpt RB
1100	Drop #13	25.25 75.75	outer EW E.
1107	Drop #14	25.25 76.14	Inner EW E.
1112	Drop #15	25.31 76.49	Center 25.18' 76.30'
1117	Drop #16	25.30 76.97	W EW
1124	Drop #17	25.30 77.57	midpt W <u>NLD</u>
1127	Drop #18	25.30 77.74	Backup
1143			Turn right to set up S of Andros Is.
1149		24.31 78.16	Turn to NE
1149	Drop #19	24.30 78.14	- Begin Leg #3 -
1201	Drop #20	24.96 77.38	Mid pt SW
1219	Drop #21	25.42 76.60	Center

3445 14148

