Lead Project Scientist

Storm or Project Irene **Experiment name** TDR
Flight ID 110825I1 **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 Irene **Experiment name** TDR

Flight ID 110825I1 **Mission ID** _____

A. Participants:

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

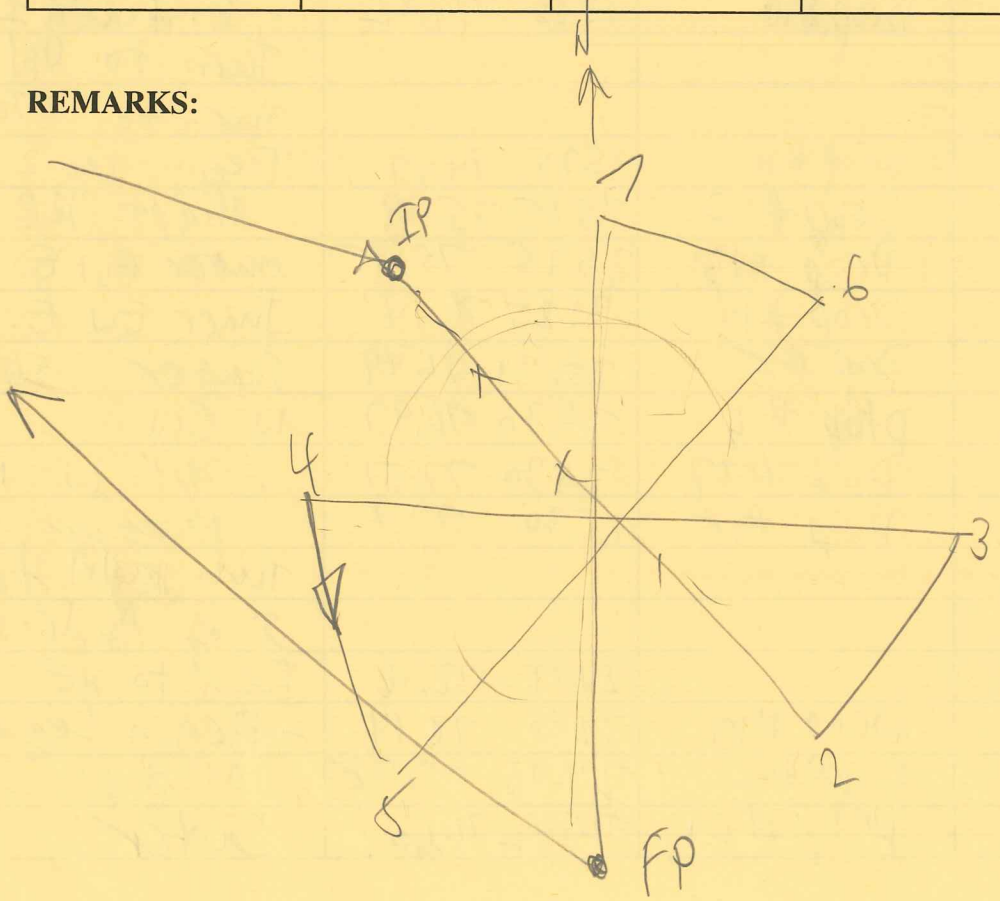
Storm or Project Irene **Experiment name** TDR

Flight ID 11082541 **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 NLD
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 76.22'
1002	Drop #6	24.78 75.94	SE EW open NLD
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 N
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 77.51	Midpt W NLD
1127	Drop #18	25.30 77.74	Backup
1143			Turn right to set up
			S of Andros I.
1149		24.31 78.16	Turn to NE
1149	Drop #19	24.30 78.14	- Begin Leg #3 -
1204	Drop #20	24.96 77.38	Midpt SW
1219	Drop #21	25.42 76.60	Center

345 14kts

Lead Project Scientist Event Log

Date _____ **Flight ID**_____ **LPS**_____

Time	Event	Position	Comments
1224	Drop #22	25.66 76.32	NE EW sloppy
1232	Drop #23	26.05 75.89	Midpt NE
1245		26.65 75.29	Turn to W End leg 3
1246	Drop #24	26.69 75.36	
1300		27.27 76.67	Turn to 180° H
1302	Drop #25	27.21 76.74	Begin leg 4
1315	Drop #26	26.41 76.73	Midpt. W.
1321	Drop #27	26.04 76.74	N EW (outer)
1328	Drop #28	25.61 76.72	center 952mb
1324	Drop #29	25.15 76.71	S EW open
1343	Drop #30	24.65 76.71	Midpt. S.
1357	Drop #31	23.84 76.77	Turn to W End leg 4
1535	LAND	KMCF	