Lead Project Scientist

Storm or Project Irene **Experiment name** TDR
Flight ID 110824H2 **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 11082414 **Mission ID**

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Rogers	Flight Director	Sears
Radar/Workstation		Pilots	Nauman
	Lorsolo/Klotz	Navigator	Brakob
Cloud Physics	—	Systems Engineer	Bosko
Photographer/Observer /Guests	Klotz, Stewart	Data Technician	Olney
Dropwindsonde	Klotz	Electronics Technician	Peek
AXBT/AXCP	/	Other	

B. Take-off and Landing Times and Locations:

Take-Off: 2014 UTC Location: KMCF

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing: Fly TDR mission into H. Irene. IP on NW side, end up on N side. Leg length 105 nm, drop sondes at endpoints, midpoints, and RMW, plus first and last fix. If possible drop sondes across arc clouds to NW of system w/ ~20 km spacing, and drop in high rain/weak wind environments. This is 3rd P-3 flight into Irene, which is a Cat-3 storm that shows signs of continued intensification. Satellite imagery does show a possible secondary eyewall developing, though, which would temporarily impede intensification.

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:

Lead Project Scientist Event Log

Date 8/24/14 Flight ID 140824H2 LPS Rogers

Time	Event	Position	Comments
2014	T/O	KMCF	
2100	pattern	~100 nm from IP	ship lgt came on,
		no eyewall penetration, no E side	
		of storm, so aborting mission	
2259	RTB	KMCF	RTB

2411
2627