Lead Project Scientist

Storm or Project Irene **Experiment name** TDR
Flight ID 110824H1 **Mission ID** 309A IRENE

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 Vigyjay

Flight ID 110824H1 **Mission ID** 1309A IRENE

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Uhlhorn	Flight Director	Damiano
Radar/Workstation		Pilots	Halverson Martin Nelson
	Reasor	Navigator	Kidder
Cloud Physics		Systems Engineer	Naeher
Photographer/Observer /Guests	Sitkowski Roxoff	Data Technician	Warnecke
Dropwindsonde	Sellwood	Electronics Technician	ScanSound
AXBT/AXCP	—	Other	

B. Take-off and Landing Times and Locations:

Take-Off: _____UTC Location: KMCF

Landing: _____UTC Location: KMCF

Number of Eye Penetrations: 4

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

TDR mission, f/AST Radar, Rotated Fig-4

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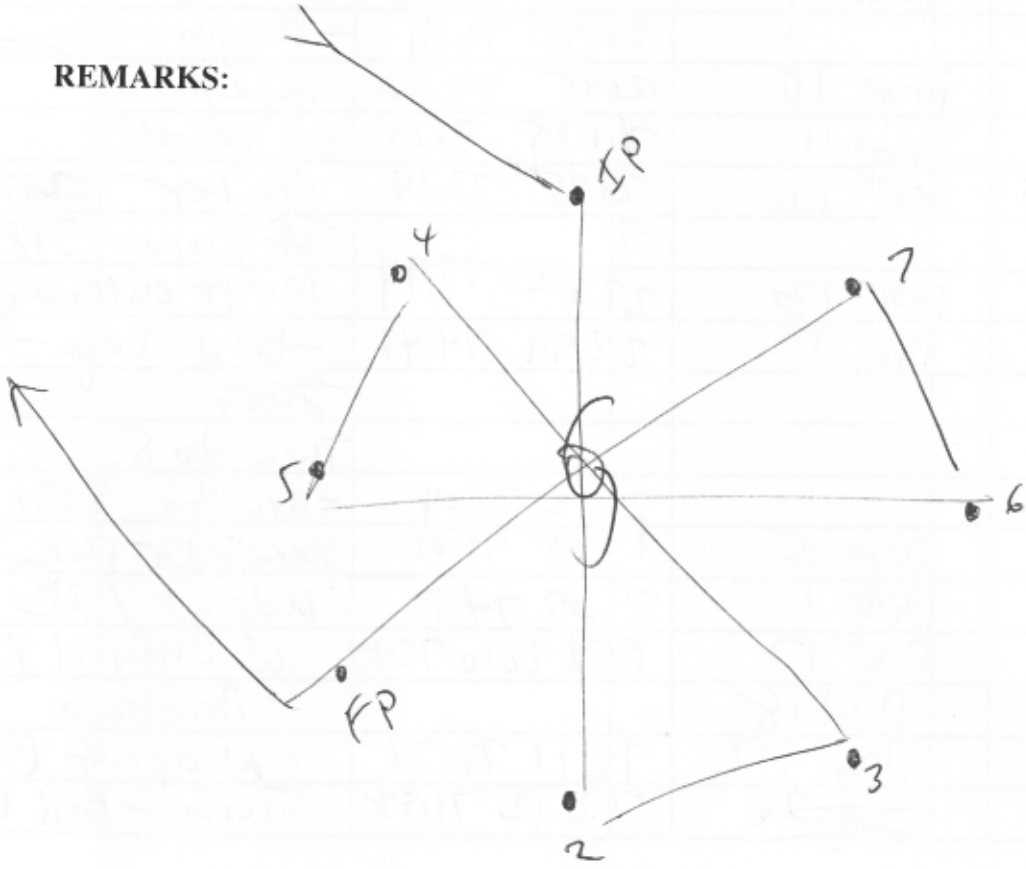
E. —Equipment Status (Up ↑, Down ↓, Not Available **N/A**, Not Used **O**)

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 8-24-2011 **Flight ID** 110824H1 **LPS** Uhlhorn

Time	Event	Position	Comments
0813	T/o	KMCF	
1024	~~Flew~~ IP		Turn to 180°
1024	Drop #1	23.20 73.19	
1027	Drop #2	23.07 73.14	R/B north SFMR 28 m/s
1035	Drop #3	22.53 73.25	Midpoint
1043	Drop #4		N. Eyewall
1046	Drop #5	22.83 73.25	Center 957 mb
1049	Drop #6	21.61 73.22	S. Eyewall open NLD
1101	Drop #7	20.86 73.23	Midpoint & R/B
1109	Drop 8	20.36 73.21	Turn PW ~~to~~ End leg
1123	Drop 9	20.89 72.78	Turn to 315° H
112350		20.76 72.31	-Begin Leg-
1133	Drop 10	21.45 72.82	Midpoint
1142	Drop 11	21.85 73.23	SE Eyewall
114418	Drop 12	21.95 73.34	Center 2257' 7320'
			~~FB~~ Storm 318° 91 kts
1156	Drop 13	22.52 73.94	Midpt outbound
205	Drop 14	22.99 74.46	-End Leg-
			~~Flew~~
			Turn to S.
1218		22.12 75.04	Turn to 90° H
1219	Drop 15	22.08 75.00	~~Begin Leg~~ Begin Leg
1227	Drop 16	22.07 74.50	Midpoint / RB
1242	Drop 17	~~FB~~ 22.10 73.45	W Eyewall (sorta)
	Drop 18		Backup
1253	Drop 19	22.11 72.73	Midpoint East
1306	~~Drop 20~~	22.12 71.88	Turn - End leg -

Lead Project Scientist Event Log

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

Time	Event	Position	Comments
1307	Drop ~~5~~ 20	22.19 71.89	Turn to NW
1320		23.20 72.42	Turn to 225°H
1321	Drop 21	23.19 72.50	- Begin Leg -
1329	Drop 22	22.83 72.88	Midpoint Rainbar
1340	Drop 23	22.36 73.46	NE Eyewall (Early
1345	Drop 24	~~23.~~ 22.20 73.66	Center
1349	Drop 25	22.02 73.85	SW of Center
1357	Drop 26	21.65 74.25	Midpoint / Rainband
1406	Drop 27	21.20 74.73	- End Leg -
1621	Touchdown		