

Lead Project Scientist

Storm or Project DANNY Experiment name TDR/EMC
Flight ID 20150823I1 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 DAWNY Experiment name TDR
 Flight ID 20150823 I Mission ID _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Unknown</u>	Flight Director	<u>Hanning</u>
Radar/Workstation	<u>Kloft</u>	Pilots	
<u>PWL</u>	<u>Pyam</u>	Navigator	<u>Gallagher</u>
Cloud Physics		Systems Engineer	
		Data Technician	<u>Richards</u>
Dropwindsonde		Electronics Technician	
AXBT/AXCP		Other	
Photographer/Observer			
s/Guests			

B. Take-off and Landing Times and Locations:

Take-Off: 0550 UTC Location: BGI

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

Rotated Fig 4 in TS Dawny

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
0738	Begin IB ①	-54.15 14.45	SE of Center
074920	Drop ①	-54.51 15.22	
075400	Drop ②	-55.06 15.39	
080409	Drop ③	-55.49 15.33	BT ① center ← PT ②
080930	Drop ④	-56.05 15.49	PT ②
081453	Drop ⑤	-56.22 16.06	
0826	End leg ①		
0858	Begin leg ②	57.08 14.30	
091327	Drop ⑥	56.24 15.12	
092447	Drop ⑦	56.10 15.34	Center
092802	Drop ⑧	55.54 15.55	
093654	Drop ⑨	55.31 16.18	
094600	End leg 2	55.07 16.45	
100705	Begin leg 3	56.26 17.10	
102430	Drop ⑩	56.26 15.58	
1027	Drop ⑪		
103028		56.24 15.35	Center -
103742	Drop ⑫	56.24 15.07	
104126	Drop ⑬	56.25 14.52	
1053	End leg 3	56.22 14.04	
1112	Begin leg 4	55.07 15.38	
113615	Drop ⑭	56.04 15.37	
1146	Drop ⑮	56.26 15.38	
115150	Drop ⑯	56.44 15.39	Center mark
115711	Drop ⑰	57.07 15.39	
120127	Drop ⑱	52.25 15.39	
1214	End leg ④		