

## 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**

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**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Whitson</u>	Flight Director	<u>Hanning</u>
Radar/Workstation	<u>Klopf</u>	Pilots	
<u>PWL</u> Cloud Physics	<u>Peyann</u>	Navigator	<u>Gallagher</u>
		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 Danny

### 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)	-54.57 15.22	
075400	Drop (2)	-55.06 15.39	
080409	Drop (3)	-55.49 15.33	BTD (1) center ←
080930	Drop (4)	-56.05 15.49	BTD (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	
092147	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	
1122	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)		

BTD  
B3A