

Lead Project Scientist

Storm or Project Deany Experiment name DR
Flight ID 201502312 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 _____ Experiment name _____

Flight ID _____ Mission ID 0504A Danny

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Aberston</u>	Flight Director	<u>Sears</u>
Radar/Workstation	<u>Reator</u>	Pilots	<u>Price Didier</u>
DWL	<u>Bucci</u>	<u>Flight Engineer</u>	<u>Klippel</u>
		Navigator	<u>Siegel</u>
Cloud Physics	_____	Systems Engineer	_____
		Data Technician	_____
Dropwindsonde	_____	Electronics Technician	_____
AXBT/AXCP	<u>—</u>	Other	<u>Maecher deAlmeida Peete Kahn</u>
Photographer/Observer	<u>—</u>		
s/Guests	<u>—</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1741 UTC Location: Barbados

Landing: 2120 UTC Location: Barbados

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>23/18:17:46</u>	<u>15 13</u>	<u>58 26</u>	<u>1008</u>	<u>6kt 5FMR 14kt FL</u>
<u>23/19:35:47</u>	<u>15 18</u>	<u>58 22</u>	<u>1009</u>	<u>16kt 5FMR 13kt FL</u>

D. Mission Briefing: Figure 4 TRD 90 mi legs. Drops at endpts, midpts, center

How could we get more explicit that shows plane design team where we are in pattern