

## Lead Project Scientist

Date 20190920

Flight ID 20190920I1

Storm or Project Mission ID Jerry  
WD10A

Experiment name

### Pre-flight

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 Field Program Director.
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 Field Program Director
7. Determine next mission status, if any, and brief crews as necessary.
8. Notify Field Program Director 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 Jerry Experiment name \_\_\_\_\_  
 Flight ID 20190920I1 Mission ID WD10A

**A. Participants:**

Function	Participant	Function	Participant
Lead Project Scientist	Holbach	Flight Director	Flaherty
Radar	Alvey	Pilot	Abitol
Workstation		Pilot	Mitchell
Cloud Physics		Pilot	Rossi
Dropsonde	Murillo	Navigator	Richards, B.
Dropsonde T.	Richards	Systems Engineer	
AXBT/AXCP		Data Technician	Naehar
<del>Observer/Guest</del> <sup>Needs</sup>	Sapp, Sanchez	Electronics Technicians	Richards, T.
Observer/Guest	Warnecke, Heystek	Flight Engineer	Darby, Kregelka

**B. Take-off and Landing Times and Locations:**

Take-Off: 1311 UTC Location: LAL  
 Landing: 1527 UTC Location: LAL

Number of Eye Penetrations: —

**C. Past and Forecast Storm Locations:**

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
20/1200Z	18.5N	59.6W	989 mb	85 kt
20/0900Z	18.4N	58.7 W	981 mb	90 kt
20/1800Z	19.1 N	60.8 W		85 kt
21/0600Z	20.4 N	63.3 W		80 kt
21/1800Z	21.8 N	65.4 W		75 kt
22/0600Z	23.2 N	67.1 W		70 kt

**D. Mission Briefing:**



Ferry to STX with mission enroute. Plan is to fly a fig-4 inbound from the N. Endpoint, mid-point, RMW, + center sondes on inbound leg 1, no sondes outbound leg 1, end-point, mid-point, RMW on inbound leg 2, + no sondes outbound leg 2. Center fix on leg 1. Jerry has been weakening over the past 12 hours or so & appears to be struggling w/ dry air to its west & shear

Storm or Project Jerry Experiment name

Flight ID 20190920I1

Mission ID W016A

E. — Equipment Status (Up U, Down D, 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:

- odd smell / FOUO at 1420z near radar & data stations
- issues w/ ipad screens freezing
- RTB to LAL mission aborted.
- screens in cockpit were having issues as well