

020913I Isabel

E.2 Lead Project Scientist

E.2.1 Preflight

- MB 1. Participate in general mission briefing.
- MB 2. Determine specific mission and flight requirements for assigned aircraft.
- MB 3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
- MB 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Review filed program safety checklist
 - c. Arrange ground transportation schedule when deployed.
 - d. Determine equipment status.
- MB 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- MB 5. 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.
- MB 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).
- MB 7. *Before take-off*, brief the on-board GPS dropsonde operator on times and positions of drop times.
- MB 8. Perform a radio check with headsets. Make sure everyone's headsets is work properly.
- MB 9. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members

E.2.2 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 Form E-2.
- _____ 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).

E.2.3 Post flight

- _____ 1. Debrief scientific crew.
- _____ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- _____ 3. Gather completed forms for mission and turn in at the appropriate operations center. [**Note:** all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- _____ 4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- _____ 5. Determine next mission status, if any, and brief crews as necessary.
- _____ 6. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
- _____ 7. Prepare written mission summary using form E-2 p.3 (due to Field Program Director 1 week after the flight).

Lead Project Scientist Check List

Date 9/13/03 Aircraft N43 Flight ID 030913I

A. —Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Paul F. Harty</u>
Cloud Physics	<u>Eric Uhlhorn</u>	Pilots	<u>Tennison, Peckert, Strong</u>
Radar	<u>Rob Rogers</u>	Navigator	<u>Carl Newman</u>
Workstation	<u>—</u>	Systems Engineer	<u>Dewie Flayn</u>
Photographer/Observer	<u>Mike Montgomery</u>	Data Technician	<u>Terry Lynch</u>
Dropwindsonde	<u>Rob Rogers</u>	Electronics Technician	<u>Jeff Smith</u>
AXBT/AXCP/Guest	<u>Scripps Video</u>	Other	<u>Jim Laswell</u>

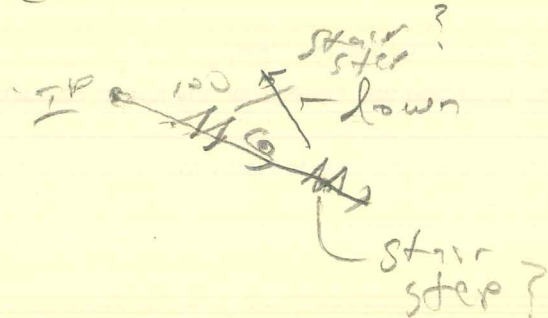
Take-Off: 1456 Location: BAT - Jeff French Landing: — Location: —

Number of Eye Penetrations: 1-3

B. —Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>13/1800</u>				

C. —Mission Briefing: — IP 100 mi NW — find area > 60 kts
For stair step, else track SE to eye — 12 kts
circle in eye — outbound — second step
descent? — try downwind run in
clear descending every 4-5 minutes



Lead Project Scientist Event Log

Date Sept 13 Flight # 43 P3 LPS _____

Time	Event	Position	Comments
15:26:32	First leg, begin	19°24'N, 64°18'W	Calibration
15:29:42	Second leg, begin	19°33'N, 64°20'W	" "
15:32:40	3rd leg	19°33'N, 64°29'W	" "
15:38:25	4th segment		circle legs
16:42:49		Left turn 120°	Sonde drop preparation
16:45:31	IP 100 mi NW		drop 1st sonde
1654	3rd railband out		~50 miles out
1657	Broad Street for a railband outside of NW eye wall		
1709	22°24'61°57 934 mb		
1719-1753	Circling in eye - 2 drops		
1800	SW eye wall - 2 drops		
1808	descending to 2500' ~40 miles out to SW		
1813	descending to 1200' Cx		
1815	right turn to trk 170° upwind		
181726	begin 1800' upwind leg		
182611	turn right end 1200' leg		
182822	begin 900' run - downwind		
183237	begin end 900' run - right turn		
183426	begin upwind leg 600'		
184200	end upwind 600' leg - right turn		
184526	400' leg downwind trk		
184940	end 400' leg - stay downwind		
185036	200' leg, stay downwind		
185533	end 200' leg - turn to 1200' F7		
185750	begin 1200' crosswind		
190200	end 1200' crosswind		

trk 220° to 900'

of Cx

Date 9-13-03 Flight 220913T LPS CA. 13-04

1500
EX