

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 030903I

A. - Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Paul Flaherty</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>Dewic Flayn</u>
Photographer/Observer	<u>Mike Montgomery</u>	Data Technician	<u>Terry Lynch</u>
Dropwindsonde	<u>Rod Rogers</u>	Electronics Technician	<u>Jeff Smith</u>
AXBT/AXCP/Guest	<u>Scripps Video</u>	Other	<u>Jim Laswell</u>

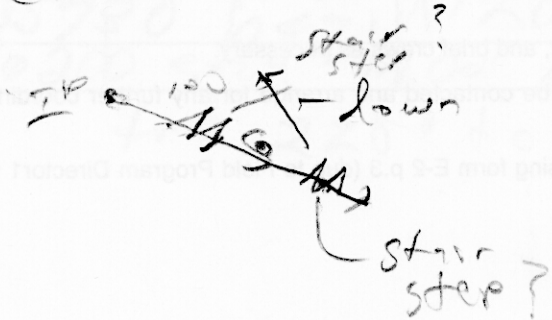
Take-Off: 1456 Location: BAT - Jeff French Landing: Location:

Number of Eye Penetrations: 1-3

B. - Past and Forecast Storm Locations:

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

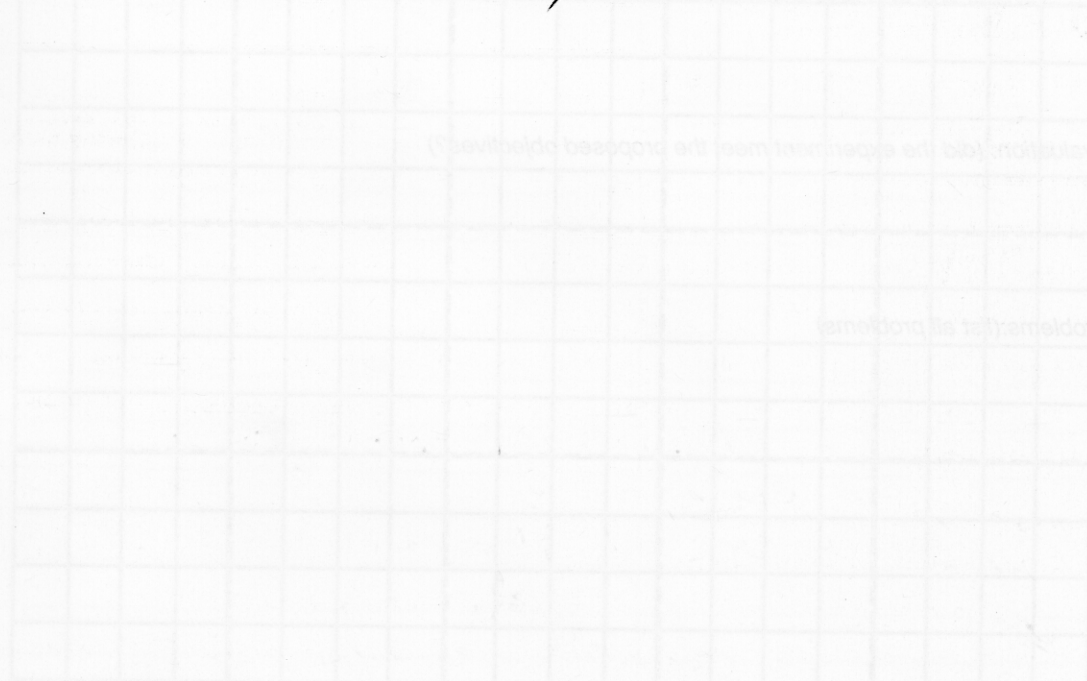
C. - Mission Briefing: - IP 100 mi NW - find area > 60 kt
For stair step, else track SE to eye - 12 KPH
circle in eye - outbound - second step
descent? - try downwind run in
clear descending every 4-5 minutes



D. — Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# of DATs or Expendables
Aircraft	✓			
Radar/LF	✓			
Radar/TA (Doppler)	✓			
Cloud Physics	✓			
Data System	✓			
GPS sondes	✓			
AXBT/AXCP	—			
Workstation	✓			
Videography	✓			

REMARKS: NO SRA today



Longitude (°)

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°25'W	" "
15:32:40	3 rd leg	19°33.1, 64°29'W	" "
15:38:25	4 th segment		circle legs
16:42:49		left turn 120°	Sonde droppreparation
16:45:31	IP 100 mi NW		drop 1 st sonde
1654	3 rd relayband out		~50 miles out
1657	Broad Street, fur in point		end out - 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	descends - 9 to 2500'		~40 miles out to SW
1813	descending to 1200 ft		
1815	right turn to trk		170° orientation
181726	begin 1000' upwind leg		
182611	turn right end 1200' leg		
182822	Begin 900' run - downwind		
183237	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, downwind		
185533	end 200' leg - orient to 1200 ft		
185730	begin 1200' crosswind leg		
190200	end 1200' crosswind		

SW
of
ctr

trk 220° to 900'

154261

2

Lead Project Scientist Event Log

Date 7-13-03 Flight 230913T LPS 11, 18-04

Time	Event	Position	Comments
190310	900' X-wind log inbound		
1909	end 900' X-wind		
191016	600' leg X-wind out		
191504	Sonobuoy in middle to end of leg		
191905	400' leg inbound		
192316	end 400' leg out		
192408	Special ascent to 12,000 ft		
1936	Inbound		
1948	Sonobuoy end eye		
1949	Drop sonde east eye		
1950	Drop sonde east eye		
195140	Drop sonde east eye		
195230	1 eye		
1953-200330	One circle		- 195T eye
2004	SSW eye		
200430	Drop SW eye		#1 - 175kts
200507	Drop SW eye		#2
201900	End SW leg - climb to head home		
21:30	LANDING STCROIX AIRPORT		Successful Flight.

1500
X