

E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

- ☒ 1. Participate in general mission briefing.
- ☒ 2. Determine specific mission and flight requirements for assigned aircraft.
- ☒ 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist and CARCAH unless briefed otherwise by field program director.
- ☒ 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- ☒ 5. Meet with AOC flight crew at least 90 minutes before takeoff, provide copies of flight requirements, and provide a formal briefing for the flight director, navigator, and pilots.
- ☒ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

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.

E.2.3 Postflight

- ☐ 1. Debrief scientific crew.
- ☐ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
- ☐ 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 the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.
- ☐ 7. Prepare written mission summary.

On-Board Lead Project Scientist Check List

Date 15 August 2008 Aircraft N42RF Flight ID 080815H

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Aberson (Rogers)</u>	Flight Director	<u>Demiano</u>
Cloud Physics	<u>—</u>	Pilots	<u>Grunnante Nelson</u>
Radar	<u>Murillo</u>	Navigator	<u>Segel</u>
Workstation	<u>Leighton</u>	Systems Engineer	<u>Bart/Wade</u>
Photographer	<u>Murillo</u>	Data Technician	<u>Park</u>
Omegasonde	<u>Murillo</u>	Electronics Technician	<u>Ryan/Bako/Obney</u>
AXBT/AXCP	<u>—</u>	Other	<u>—</u>

Take-Off: 145557 Location: Barbados Landing: — Location: Barbados

B. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

C. Mission Briefing:

Butterfly pattern, avoiding land. System still not officially a
depression

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft			
Radar/LF			
Radar/TA (Doppler)			
Cloud Physics	—	—	—
Data System			
Omegasondes			
AXBT/AXCP	—	—	—
Workstation			
Photography			

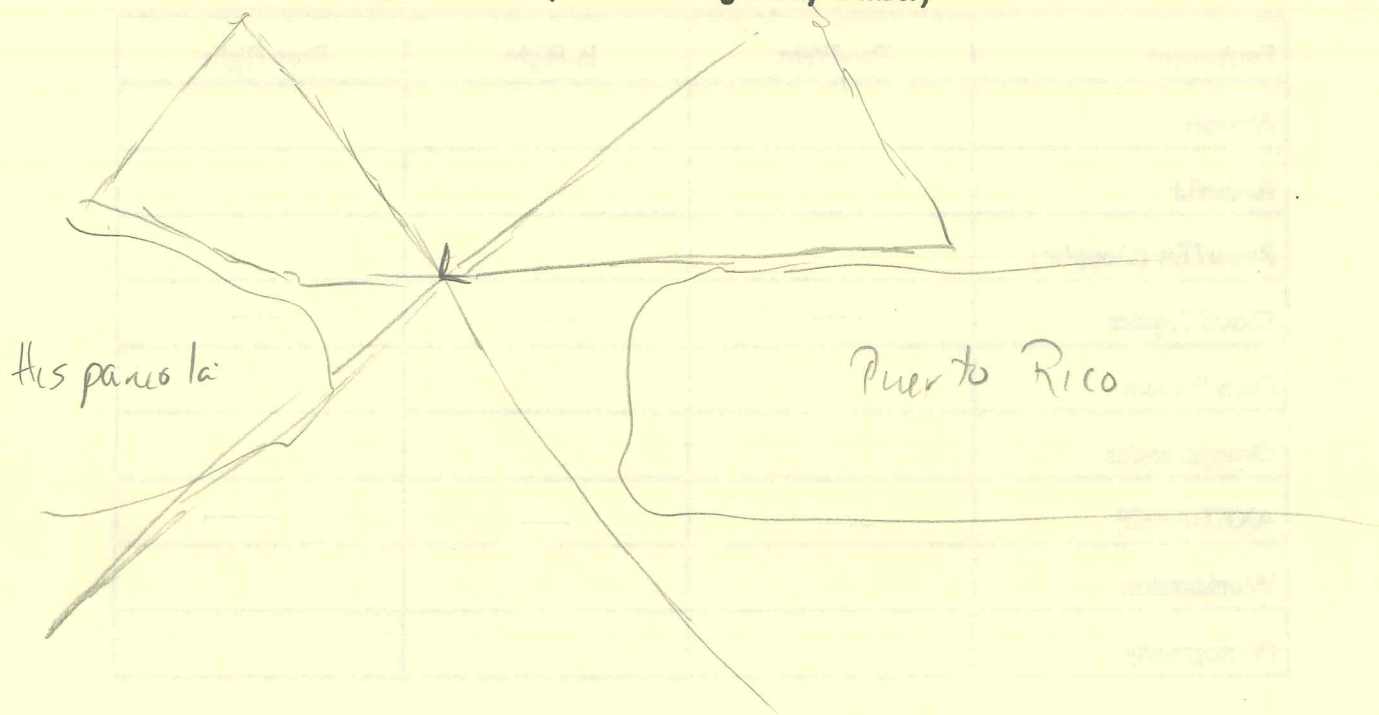
REMARKS:

Dropsonde Accounting

HRD: 7

NWS: 7

E. (I) Proposed Flight Pattern (sketch or designate by number)



E. (II) Actual Flight Pattern

Lead Project Scientist Event Log

Date 15 August 2008Flight 080815 HLPS Aberson

Time	Event	Position	Comments
145557	Departure	Barbados	No initial problems.
~ 1620	demanded for weather		
1644	into weather, turn to IP	16 50 66 30 track	312°
1649	connection		12 ms ⁻¹ up
1650			10 ms ⁻¹ up, 2 ms ⁻¹ down, 11 ms ⁻¹ up
165230	IP		track 330°, begin radar log
1659	follow the winds		track 300°
1715	right turn to 010° avoid land, to continue		53 kt SFMR
1717	NHC requested drop	did not reach surface	Drop #1
	Looks like center just off SE tip of the peninsula in reflectivity feature		
1743	N 77 drop turn to	240°	Drop #2
1758	turn slightly early due to small cell		
1800	track 135°		Drop #3
1810	slight turn around connection		
1815	10° turn to right for connection		SFMR 50 kt in rain
1821	track 100°		Drop #4 nearest center; convergence gone
1847/1848	turn downwind,	track 345°	Drop #5
1859	turn inboard	track 225°	Drop #6
1923		track 235°	
1928		track 240°	
1930			Drop #7 HRD

43 kt FL

NWS

NWS

NWS

NWS

NWS

NWS

HRD

18.5 68.2
NHC drop
request

Lead Project Scientist Event Log

Date 15 August 2008

Flight 080815A

LPS Akerson

[illegible]

NWS

HRV

HRD

WRD

HRD

HND

1924

69.3
surface
center, S
coast

BGI
MIA
2:45pm