

Lead Project Scientist

Storm or Project Bertha Experiment name TDR
Flight ID 20140804H1 Mission ID 1203A BERBHA

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 _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Whithorn</u>	Flight Director	_____
Radar/Workstation	<u>Rogers</u>	Pilots	_____
	_____	Navigator	_____
Cloud Physics	_____	Systems Engineer	_____
	_____	Data Technician	_____
Dropwindsonde	_____	Electronics Technician	_____
AXBT/AXCP	_____	Other	_____
Photographer/Observer s/Guests	<u>Midnet</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1751 UTC Location: FWL

Landing: _____ UTC Location: KACF

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

TDR, rotated Fig-4 in H. Bertha.
 ~20 sondes, 10 AXBTs
 possible SFMR roll module

Lead Project Scientist Event Log

Date 4 Aug 2014 Flight ID 20140804H LPS Ullman

Time	Event	Position	Comments
1754	T/O	KFLL	
1819	Drop ①	27 10' 73 27'	IP turn North
192758	Drop ② BT ①	27 53' 73 28'	Mid pt south
			Bad BT ①
194747	Drop ③ BT ②	29 01' 73 33'	Center
			SST 28.1
			Sonde splash
			1001 mb 295/33
			EW east
195944	Drop ④ BT ③	30 00' 73 33'	SST 28.1
200956	Drop ⑤	30 46' 73 34'	End leg ①
			turn DW to west
			of storm
204221	Drop ⑥	29 16' 75 28'	Turn to E
205422	Drop ⑦ BT ④	29 19' 74 30'	Mid pt W
210701			SST 28.4
210707	Drop ⑧ BT ⑤	29 33' 73 30'	center 1002 mb 240/34
211015	Drop ⑨	29 33' 73 15'	SST 28.1
211045	Drop ⑨	29 33' 73 15'	EW east
211849	Drop ⑩ BT ⑥	29 33' 72 35'	NLD SST 28.1
212131	Drop ⑪	29 33' 72 22'	
213053	Drop ⑫	29 32' 71 38'	Eng leg ②
			Turn DW to NE
			of storm
215200	Drop ⑬		Turn IB to SW
220427	Drop ⑭ BT ⑦	30 27' 72 53'	mid pt NE
220721		30 16' 73 02'	Begin turns
221252	and, begin	30°	15°

Bad
Goat dist

100

30°

