

Lead Project Scientist

Storm or Project

Bertha

Experiment name

TDR

Flight ID

20140804H1

Mission ID

1203A BERTHA

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>Uhlhorn</u>	Flight Director	_____
Radar/Workstation	<u>Rogers</u>	Pilots	_____
	_____	Navigator	_____
Cloud Physics	_____	Systems Engineer	_____
	_____	Data Technician	_____
Dropwindsonde	_____	Electronics Technician	_____
AXBT/AXCP	_____	Other	_____
Photographer/Observer	<u>Midnet</u>		
s/Guests	_____		

B. Take-off and Landing Times and Locations:

Take-Off: 1751 UTC Location: FLL

Landing: _____ UTC Location: KACP

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

↑ PR, 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 20140804H1 LPS William

Time	Event	Position	Comments
1754	1/6	KFL	
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
		Source 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
210707			SST 28.4
210707	Drop ⑧ BT ⑤	29 33' 73 30'	center 1002 mb 240/34
211045	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
good BTs

100

30°

Lead Project Scientist Event Log

Date _____ **Flight ID** _____ **LPS** _____

[illegible]

SWELL from left @ 2214 55
from left @ 2217 55