Lead Project Scientist

Storm or Project Danny **Experiment name** Ocean Pre-Storm + Fig 4.
Flight ID 20150821I1 **Mission ID** _____

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 Danny **Experiment name** _____

Flight ID 20150821I1 **Mission ID** _____

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Uhlhorn	Flight Director	Sears
Radar/Workstation	Uhlhorn	Pilots	
Cloud Physics	Uhlhorn	Navigator	Gallagher
		Systems Engineer	
		Data Technician	
Dropwindsonde	Uhlhorn	Electronics Technician	
AXBT/AXCP	Uhlhorn	Other	
Photographer/Observers/Guests	Uhlhorn		

B. Take-off and Landing Times and Locations:

Take-Off: 1400 UTC Location: BGI

Landing: _____UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

Lead Project Scientist Event Log

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

Time	Event	Position	Comments
160728	Begin Leg	60 mi W.	
161741	Drop (1)	143' 48 27'	
161928	Drop (2)	147' 4826'	
162004	Drop (3)	149' 4818'	Center
162037	Drop (4)	1411' 4817'	
162200	Drop (5)	1412' 4812'	
163407	End Leg	60 mi E	1412' 4721'
1651	Begin Leg	60 mi N	
170228	Drop (6)	1425' 4826'	
170351	Drop (7)	1419' 4826'	
170544	Drop (8)	1412' 4828'	Center
170705	Drop (9)	146' 4828'	
170915	Drop (10)	1358 4827'	
172025	End leg		
184320	BT (1)	1430 5300	
185015	BT (2)	1501 5300	
185724	BT (3)	1532 5300	
190358	BT (4)	1600 5300	
191019	BT (5)	1630 5300	
191703	BT (6)	1700 5300	BAD
192352	BT (7)	1730 5300	
193717	BT (8)	1730 5400	
194510	BT (9)	1700 5400	
195233	BT (10)	1629 5400	BAD
200017	BT (11)	1559 5400	

Lead Project Scientist Event Log

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

Time	Event	Position	Comments
200710	BT (12)	1529 5400	
201435	BT (13)	1459 5400	
202204	BT (14)	1429 5400	
203615	BT (15)	1430 5500	
[illegible]	BT (16)		
205150	(17)	1530 5500	
205848	BT (18)	1600 5500	
210553	BT (19)	1630 5500	
211253	BT (20)	1700 5500	
211930	BT (21)	1730 5500	
213339	BT (22)	1730 5600	
214150	BT (23)	1655 5600	
214900	BT (24)	1624 5602	
215339	BT (25)	1558 5600	
220002	BT (26)	1529 5600	
220620	BT (27)	1459 5600	
221247	BT (28)	1430 5600	

Mission Summary
Storm name
YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)
Lead Project Scientist _____
Radar Scientist_____
Cloud Physics Scientist_____
Dropwindsonde Scientist_____
Boundary-Layer Scientist_____
Workstation Scientist_____
Observers (affiliation)_____

Mission Briefing: (include sketch of proposed flight track or page #)
- Pre-storm ocean AXBTs
- 1 Fig. 4 in Storm

Mission Synopsis: (include plot of actual flight track)

Evaluation: (did the experiment meet the proposed objectives?)

Problems:(list all problems)

Expendables used in mission:
GPS sondes : _____
AXBTs :_____

Sonobuoys: _____