Lead Project Scientist

Flight ID 20121027H1 **Storm** Sandy **LPS** Uhlhorn

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.

_____ 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.

_____ 6. Report status of aircraft, systems, necessary on-board supplies and crews to HFP Director.

_____ 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.

_____ 7. Make sure each HRD flight crew member has a life vest.

_____ 7. 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.

_____ 2. Confirm camera mode of operation.

_____ 3. Confirm radar recording set-up.

_____ 4. Confirm data recording rate.

_____ 5. Complete Lead Project Scientist Form.

_____ 6. 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 bag separately from other missions. Turn in to data manager at HRD.

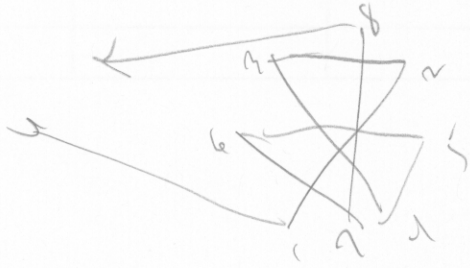
_____ 5. Copy serial flight data, dropsonde files, and radar data onto thumb drive. Turn in with completed forms.

_____ 6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, *etc.*) remaining aboard the aircraft to HFP Director.

_____ 7. Determine next mission status, if any, and brief crews as necessary.

_____ 8. Notify HFP Director 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 Sandy **Experiment name** TDR
Date 27 Oct **Aircraft** N42RF **Flight ID** 20121027H1
Mission ID _____

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Uhlhorn	Flight Director	Henning
Radar	Bucl	Pilots	Halverson Kubey
Dropwindsonde	Sellwood	Navigator	Brakob
Sea-Air		Systems Engineer	
Photographer/Observer/ Guests (give affiliation)	Dr. Jane (NOAA) Admiral Sbore (NOAA)	Data Technician	Bosco
Cloud Physics		Electronics Technician	C. Lynch
		Other ( )	

B. Take-off and Landing Times and Locations:

Take-Off: 0759 UTC Location: KMCF

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

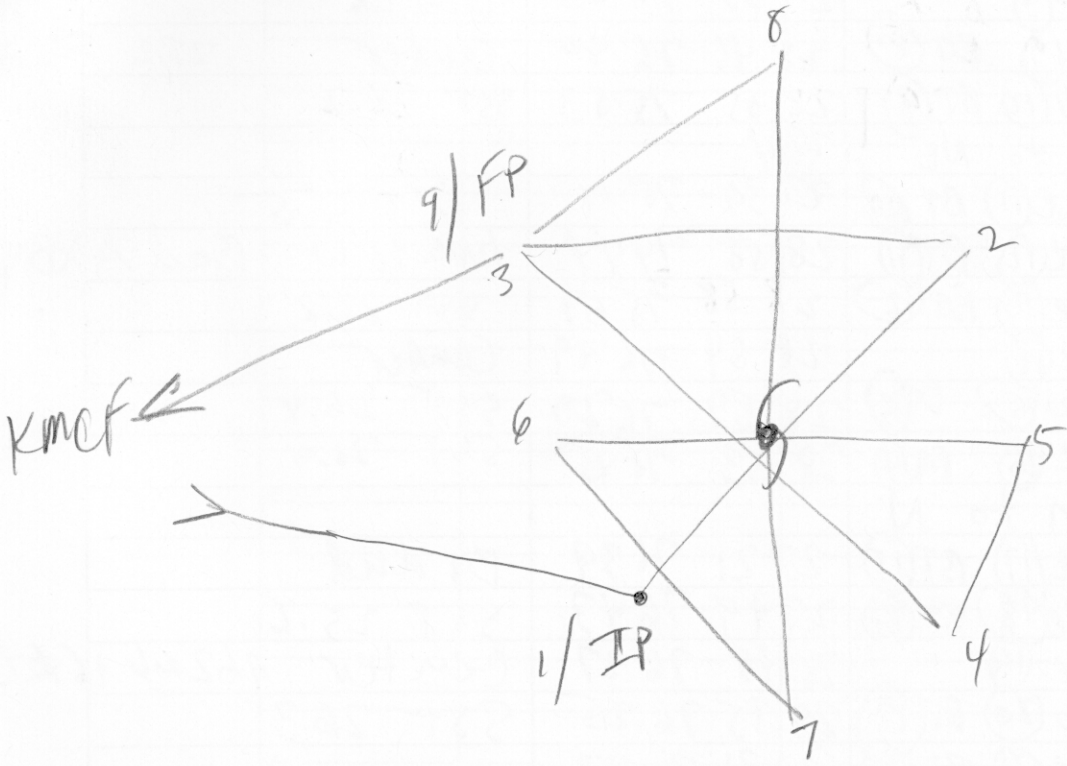
C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

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

Equipment	Pre-Flight	In-Flight	Post-Flight	Number of Expendables
Radar/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Cameras				
Other ( )				

D. Mission Briefing:



Lead Project Scientist Event Log

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

Time	Event	Position	Comments
0759	T/O KMCF		
0850	@IP		Beg leg #1
0851	Sonde ① BT ①	27 45 78 05	SST 25.5
0901	Sonde ② BT ②	28 16 77 29	SST 26.8
0912	Sonde ③ BT ③	28 35 76 45	"Center" SST 27.0
0925	Sonde ④ BT ④	29 15 75 57	SST 26.5
0937	Sonde ⑤ BT ⑤	29 51 75 27	SST 26.3
1003	turn to 135°	29 59 77 59	
1006	Sonde ⑥ BT ⑥	29 51 77 56	SST 26.5
1018	Sonde ⑦ BT ⑦	29 11 77 10	in R/B FL 26.8 SST
1021	Sonde ⑧	29 03 77 03	Backup
1027	Sonde ⑨ BT ⑧	28 46 76 40	Center 27.2 SST
1041	Sonde ⑩ BT ⑨	28 05 75 53	SST 26.2
1051	turn to NE	27 59	
1053	Sonde ⑪ BT ⑩	27 39 75 11	SST 25.5
1110	Sonde ⑫ BT ⑪	28 58 74 44	turn to W. Bad AXBT
1123	Sonde ⑬ BT ⑫	28 58 75 51	SST 26.8
1135	Sonde ⑭	28 54 76 49	Center
1153	Sonde ⑮ BT ⑬	28 59 76 20	SST 26.4
1159	Sonde ⑯ BT ⑭	28 53 78 45	SST 26.4
1229	turn to N		
1230	Sonde ⑰ BT ⑮	27 21 76 39	BT dud
1237	Sonde ⑱ BT ⑯	27 49 76 43	SST 25.6
1253	Sonde ⑲	28 48 76 27	Center 962mb 16kt
1304	Sonde ⑳ BT ⑰	29 35 76 25	SST 26.3
1318	Sonde ㉑ BT ⑱	30 31 76 27	
1319	Begin TURNS for IWRAP		SST 25.7

Motion 010/9 kts

Lead Project Scientist Event Log

Date _____ **Flight ID** 20210727H1 **LPS** _____

Time	Event	Position	Comments
1325	End turns		
1340	Sonde (22)	30 00 77 50	Turn to SE
1404	Sonde (23)	29 45 76 23	EW west
1440	Sonde (24)	29 07 76 02	Center
	turn outbound to W		
1426	Sonde (25)	28 56 77 09	
1438	Sonde (26)	28 56 78 06	
1553	Land	KMCF	