

Flight ID 20121026H1 Lead Project Scientist Storm Sandy LPS Whithorn  
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 26 Oct 2012 Aircraft N42RF Flight ID 20121026TT  
 Mission ID \_\_\_\_\_

**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Whitton</u>	Flight Director	<u>Damiano/Henning</u>
Radar	<u>Bucci</u>	Pilots	<u>Halmerson</u>
Dropwindsonde	<u>Sellwood</u>	Navigator	<u>Brakop</u>
Sea-Air		Systems Engineer	
Photographer/Observer/ Guests (give affiliation)		Data Technician	<u>Bosko</u>
Cloud Physics		Electronics Technician	_____
		Other (                    )	_____

**B. Take-off and Landing Times and Locations:**

Take-Off: 0756 UTC Location: KMCF  
 Landing: \_\_\_\_\_ UTC Location: \_\_\_\_\_

Number of Eye Penetrations: \_\_\_\_\_

**C. Past and Forecast Storm Locations:**

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

### Lead Project Scientist Event Log

Date \_\_\_\_\_ Flight ID \_\_\_\_\_ LPS \_\_\_\_\_

Time	Event	Position	Comments
0756	T/o	KMCF	
0850	Power Surge		
0858	Sonde (1) BT (1)	27.26 77.57	SST 27.5 <u>No Sand</u>
0859	Power Surge		
0909	Sonde (2) BT (2)	26.54 77.22	BT died
0925	Sonde (3) BT (3)	26.08 76.44	Center SST 27.4
0929	Sonde (4) BT (4)	25.57 76.32	SST 26.5
0938	Sonde (5) BT (5)	25.30 76.03	SST 27.5
0950	Turn DW to N		End Leg #1
0953	Sonde (6) BT (6)	25.00 75.20	SST 27.2
1023	Sonde (7) BT (7)	27.34 75.24	SST 26.2
1040	Sonde (8) BT (8)	26.51 76.16	SST 26.9
1053		26.12 76.49	Center
1109	Sonde (9) BT (9)	25.27 77.38	
1119	Sonde (10) BT (10)	24.57 78.16	End of Leg #2
	Turn DW to East		
1136	Turn IB to North		
1138	Sonde (11) BT (11)	24.35 76.55	Begin Leg #3 SST 26.5
1152	Sonde (12) BT (12)	25.31 76.59	SST died
1204		26.20 76.54	Center
1211	Sonde (13) BT (13)	27.12 76.54	Dud
1229	Sonde (14) BT (14)	28.02 76.55	SST 26.0
1259	Sonde (15) BT (15)	26.29 78.59	Dud BT
1308	Sonde (16) BT (16)	26.26 76.22	
1319	Sonde (17) BT (17)	26.26 77.37	
1330		26.32 76.51	Center
1343	Sonde (18) BT (18)	26.33 75.49	SST 27.0

