

## Lead Project Scientist

Flight ID \_\_\_\_\_  
Preflight

Storm \_\_\_\_\_

LPS \_\_\_\_\_

- \_\_\_\_\_ 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 Ingrid Experiment name TDR/Changfest  
 Date \_\_\_\_\_ Aircraft NOAA 43 Flight ID 20130914E1  
 Mission ID 0910A Ingrid

**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Uhlhorn</u>	Flight Director	<u>Henning</u>
Radar <u>Vukicevic</u>	<u>Uhlhorn</u>	Pilots	<u>Nelson</u>
Dropwindsonde	<u>Holbach</u>	Navigator	
Sea-Air		Systems Engineer	
Photographer/Observer/ Guests (give affiliation)		Data Technician	<u>Pana</u>
Cloud Physics		Electronics Technician	
		Other ( )	

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

Take-Off: 1740 UTC Location: Kauffman  
 Landing: \_\_\_\_\_ UTC Location: \_\_\_\_\_

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

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

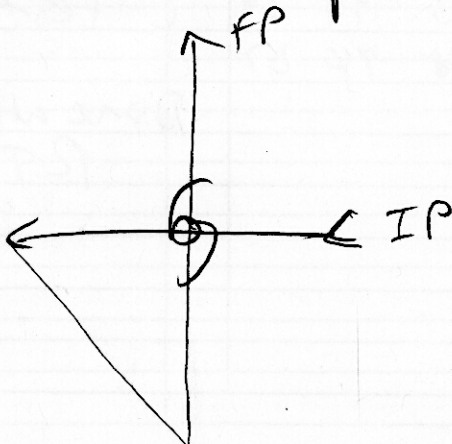
Date/Time	Latitude	Longitude	MSLP	Maximum Wind

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:

- figure 4 in Ingrid
- sondes at turn/mid/center/RMWS
- BT paired with sondes at turn/mid/center
- gratuitous pennies for P.F. at end





2251 93 95

Lead Project Scientist Event Log

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

Time	Event	Position	Comments
1740	T/O	KMCF	
2000	descend to 8'k	21 45 92 17	
201036	Drop (1) BT (1)	21 08 92 37	
202422	Drop (2) BT (2)	21 08 93 34	
203223	Drop (3)	21 09 94 08	E EW
2035	Drop (4)	21 13 94 21	E E/W
203905	Drop (5) BT (3)	21 20 94 32	Center 984 msl/p No W E/W Drop
205029	Drop (6) BT (4)	21 20 95 23	W mid point
205759	Drop (7) BT (5)	21 19 95 59	End leg SST 29.1
212715	Drop (8) BT (6)	19 49 94 29	turn to N SST 26.23
213719	Drop (9) BT (7)	20 31 94 31	mid pt S SST 27.5
214335	Drop (10)	20 58 94 31	S E/W
215026	Drop (11) BT (8)	21 26 94 38	Center 28.7
215454	Drop (12)	21 45 94 38	N E/W
220250	Drop (13) BT (9)	22 16 94 36	
220817	Drop (14) BT (10)	22 40 94 35	
223423	Drop (15)	21 42 94 27	C-fest Begin
224946	Drop (16)	21 45 94 26	C-fest NE/EW
230737	Drop (17)	21 48 94 27	
2320			Done with CFEST RTB

E/W  
convert  
DN NO  
side