

Lead Project Scientist

Storm or Project _____ Experiment name _____
Flight ID _____ 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 Ingrid Experiment name EMC-TDR
 Flight ID 20130913I1 Mission ID 0410A INGRID

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Whithorn</u>	Flight Director	<u>Henning</u>
Radar/Workstation	<u>Vukobratovic</u>	Pilots	<u>S</u>
	<u>_____</u>	Navigator	<u>Siegel</u>
Cloud Physics	<u>_____</u>	Systems Engineer	<u>_____</u>
	<u>_____</u>	Data Technician	<u>paner</u>
Dropwindsonde	<u>Whithorn</u>	Electronics Technician	<u>_____</u>
AXBT/AXCP	<u>_____</u>	Other	<u>_____</u>
Photographer/Observer	<u>H. Holbach (FSU)</u>		
a/Guests	<u>_____</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1814 UTC Location: KMCF

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

- Figure -4 for TDR in TS Ingrid
- Sonde /BT combo drops
- Legs shortened on W + S side due to Mexican coastline

Storm or Project _____ Experiment name _____

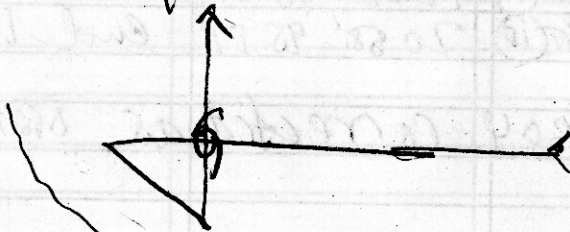
Flight ID _____ Mission ID _____

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs / Expendables / Printouts
Radar/LP				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

REMARKS:

Flight pattern:



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FTP pub/brd/mblack/N43_0913_2013_wmo

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
1814	T/O	KMCF	
2050	Descend to 8K	19 57 93 20	
210001	Drop ① BT ①		@ IP
2101			Begin leg ① IB
211128	Drop ② BT ②		
211848	Drop ③ BT ③		
			wedge off @
212554	Drop ④ BT ④		Center
			Turn outboard to
			North
213445	Drop ⑤ BT ⑤		
214010	Drop ⑥ BT ⑥		turn to SE
215114	Drop ⑦ BT ⑦	19 45 94 40	turn to SW
220430	Drop ⑧ BT ⑧	19 14 95 17	center
			turn to N
221808	Drop ⑨ BT ⑨	20 03 95 23	
22420	Drop ⑩ BT ⑩	20 58 95 17	end leg
	sent 0304 corrected as 0313		

OB03 xmit
 OB04 xmit
 OB05 xmit
 OB02 xmit
 OB06 xmit
 OB07 xmit
 OB08 xmit
 OB09 xmit
 OB11 xmit
 OB12 xmit