Lead Project Scientist

Storm or Project________________ **Experiment name** Ed. Post Storm
Flight ID 20140917I **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.

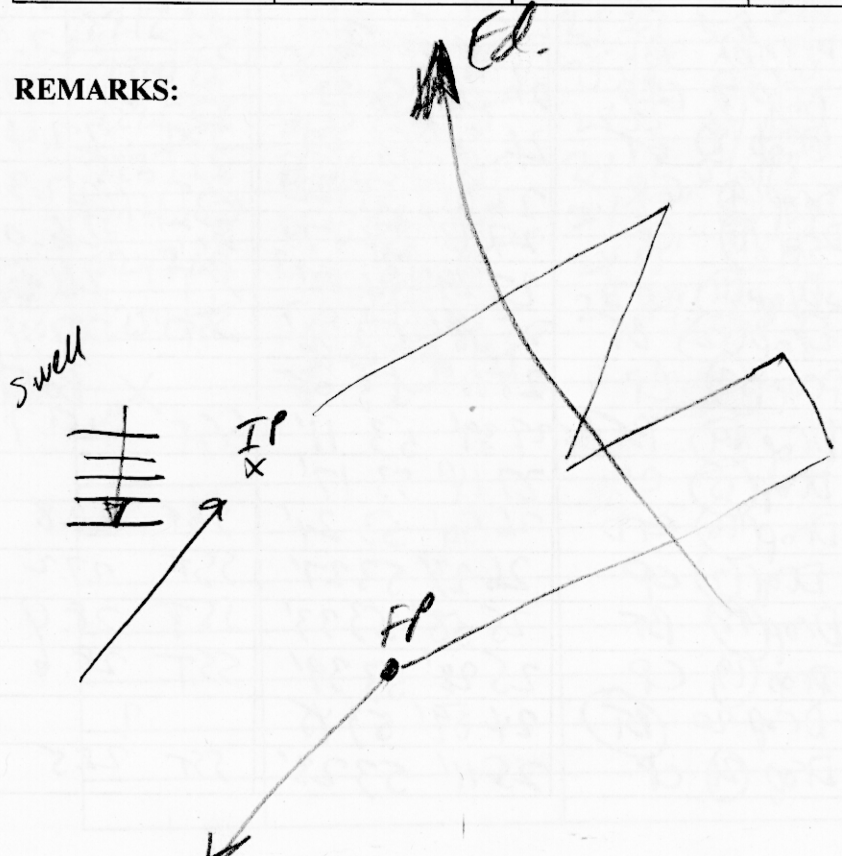
Storm or Project________________________ **Experiment name**____________________

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/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

REMARKS:



Lead Project Scientist Event Log

Date ________________ **Flight ID** ______________ **LPS** ____________________

Time	Event	Position	Comments
	T/O		
180250	Begin turns	24 27 59 03	
181910	Begin 30°		Video 1 full turn @ 30°
			8K ft
~1835	End 45°		
184242	Drop 1 CP	25 00' 58 23'	SST 29.3
184850	Drop 2 BT	25 20' 58 09'	SST 29.3
185330	Drop 3 BT	25 37' 58 00'	
185942	Drop 4 BT	25 49' 57 36'	SST 29.2
190500	Drop 5 CP	26 01' 57 11'	SST 28.9
191213	Drop 6 BT	[illegible] ?38'	SST 27.9
191833	Drop 7 CTD	26 26' 56 23'	2 MLs SST 28.9
192504	Drop 8 BT	26 38' 56 00'	SST 27.4
193107	Drop 9 CP	26 55' 55 22'	SST 27.3
194300	Drop 10 CP	27 13' 54 47'	SST 26.0
195150	Drop 11 CTD	27 29' 54 12'	SST 26.5
200042	Drop 12 BT	25 46' 53 36'	SST 27.4
200820	Drop 13 CP	28 00" 53 05	X Bad
201437	Drop 14 BT	27 39' 53 11'	SST 27.7
202057	Drop 15 CP	27 14' 53 17'	
202713	Drop 16 CTD	26 50' 53 21'	SST 27.8
203355	Drop 17 CP	26 23' 53 27'	SST 27.2
204031	Drop 18 BT	25 58' 53 33'	SST 28.4
204746	Drop 19 CP	25 28' 53 39'	SST 28.6
205514	Drop 20 BT	24 59' 53 45	?
210152	Drop 21 CP	25 11' 53 23'	SST 28.5

Lead Project Scientist Event Log

Date ______________ Flight ID______________ LPS ______________

	Time	Event	Position	Comments
	210900	Drop 22 BT	2523' 5256'	
	21602	Drop 23 CTD	2538' 5228'	
	212224	Drop 24 BT	2549' 5203'	27.7 SST
	212850	Drop 25 CP	2601' 5137'	SST 27.5
	213502	Drop 26 CP	2612' 5112'	SST 27.6
turn to SE	214140	Drop 27 CP	2624' 5047'	SST 28.1
	214804	Drop 28 CTD	2610' 5025'	SST 28.7
	215422	Drop 29 CP	2555' 5002'	SST 28.2
turn to SW	220010	Drop 30 CP	2541' 4941'	X BAD
	220628	Drop 31 CP	2533 5000'	X BAD
	221252		2521 5024	
	221926	Drop 33 BT	2508 5050'	23.5 SST
	222558	Drop 34 BT	2455 5115	28.5 SST
	223315	Drop 35 BT	2441 5143'	SST 28.4
	224007	Drop 36 CP	2427' 5209'	SST 28.5
	224709	Drop 37 BT	2413' 5235	SST 28.7
Simultaneous	225415	Drop 38 CTD	2359 5303	SST 29.1
		~~Drop 39 BT~~		