Lead Project Scientist

Storm or Project ERIKA   **Experiment name** SALEX

Flight ID 20150826I1   **Mission ID** WC05A ERIKA

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 ERIKA **Experiment name** SALEX

Flight ID 20150826I1 **Mission ID** _____

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Whithorn	Flight Director	Henning
Radar/Workstation	Klotz	Pilots	Sweeny/Kilbey
DWL	Ryan	Navigator	Gallagher
Cloud Physics		Systems Engineer	
		Data Technician	Richards
Dropwindsonde	Klotz	Electronics Technician	Mascaro
AXBT/AXCP		Other	
Photographer/Observers/Guests			

B. Take-off and Landing Times and Locations:
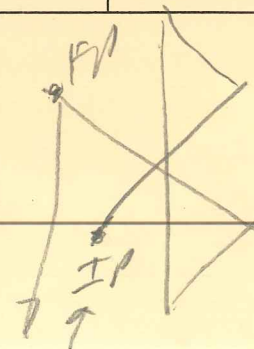
Take-Off: 0550 UTC Location: BGI

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____ −0.0

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

- Rotated fig-4
- 120-150 mile legs
- sondes= turn, mid, center

Lead Project Scientist Event Log

Date _____ Flight ID __20050826I__ LPS _____

Time	Event	Position	Comments
0550	T/O	BGI	
063217	Drop ①	15 05 57 16	Begin leg 1
0705	Drop ③	15 31 55 23	" (center) "
0716		15 40 55 03	Begin Burst Mol
0715	Drop ④	15 44 55 25	North end
072345	Drop ⑤	15 18 55 38	West of Conv BAD
073040	Drop ⑥	14 54 55 31	South of Conv
073814	Drop ⑦	15 05 55 06	SE of Conv
074134	Drop (8)	15 17 55 14	E of conv
074645		15 32 55 31	End Conv Burst
080243	Drop ⑨	16 06 54 27	
0817			This End leg
081814	Drop ⑩	16 38 53 41	
083054	Drop ⑪	17 13 54 30	RH boundary
0847		18 01 55 34	Turn to S
084905	Drop ⑫	17 57 55 36	
090632	Drop ⑬	16 44 55 36	
091832	Drop ⑭	15 56 55 40	
0936	Drop ⑮	14 43 55 48	
095517		13 29 55 51	End leg
095901	Drop ⑯	13 36 55 37	
102623		14 59 54 05	Turn IB to W
102729	Drop ⑰	15 02 54 08	
104351	Drop ⑱	15 36 55 12	
1113			Head NW along Convect
112430	Drop ⑲		—NLD—

(left margin note, pointing to row 063217): missed sonde →

(left margin note, pointing to row 104351): No center found ✱

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
114310	Drop (22)	1638 57 02	Mid pt NW
115241	Drop (21)	1700 54 41	+ RTB