

## Lead Project Scientist

Storm or Project ERIKA Experiment name SALEX  
Flight ID 20150826II Mission ID WCOSA 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 20150826FI Mission ID \_\_\_\_\_

**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Whitham</u>	Flight Director	<u>Hemming</u>
Radar/Workstation	<u>Klotz</u>	Pilots	<u>Sweeney/Kelley</u>
<u>DWL</u> Cloud Physics	<u>Ryan</u>	Navigator	<u>Gallagher</u>
		Systems Engineer	
		Data Technician	<u>Pickards</u>
Dropwindsonde	<u>Klotz</u>	Electronics Technician	<u>Mascaro</u>
AXBT/AXCP	<u>-</u>	Other	
Photographer/Observer s/Guests	<u>-</u>		

**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 20150826II LPS \_\_\_\_\_

missed  
sonde →

Time	Event	Position	Comments
0550	T/O	BGT	
063217	Drop (1)	15 05 57 16	Begin leg 1
0705	Drop (2)	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 <u>BAD</u>
073040	Drop (6)	14 54 55 31	South of conv
073814	Drop (7)	15 05 55 01	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			<del>then</del> End leg
081814	Drop (10)	16 38 53 41	
083059	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	
0931	Drop (15)	14 43 55 48	
095517		13 29 55 51	End leg
095901	Drop (16)	13 36 55 37	
102623		14 54 54 05	Turn IB to W
104729	Drop (17)	15 02 54 08	
104351	Drop (18)	15 36 55 12	
1113			Head NW along convect
112130	Drop (19)		-NLD-

No  
center  
found

