Lead Project Scientist

Storm or Project Erika **Experiment name** SALEX
Flight ID 150825I1 **Mission ID** WB05A 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.

plan
T 2pm ✓
W 2am
W 2pm
R 1am
F 1am to TPA
Sa 2am
Sa 2pm

Lead Project Scientist Check List

Storm or Project ERIKA **Experiment name** SALEX

Flight ID 150825I1 **Mission ID** WB05A ERIKA

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Aberson	Flight Director	Sears
Radar/Workstation	Reasor	Pilots	Price/Didier/Kuhn
		Navigator	Siegel
Cloud Physics		Systems Engineer	Klippel
		Data Technician	
Dropwindsonde/DWL	Bucci	Electronics Technician	
AXBT/AXCP		Other	Lalonde Naeher Peek Smith
Photographer/Observers/Guests			

B. Take-off and Landing Times and Locations:

Take-Off: 1749 UTC Location: Barbados

Landing: 0020 UTC Location: Barbados

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP 1004 mb drop	Maximum Wind
19:27:20	15 32	52 23	1005 XTRAP	32kt SFMR 36kt FL
21:13:42	15 27	53 10	1003 mb	32kt SFMR 42kt FL
21:20:10	15 45	52 50	1004 XTRAP	37kt SFMR 42kt FL
22:46:09	15 06	53 27	1007 mb	33 kt SFMR 42kt FL

D. Mission Briefing:

Need ASPEN accoutrement @ station 2
Apps have different names on different computers
Some computers can print, some can't
Different OSs on different computers

Lead Project Scientist Event Log

Date _____ **Flight ID**_____ **LPS** _____

Time	Event	Position	Comments
1846	Begin descent		
1902	Sonde #1 circled first because AVAPS was down		
1931	"Center" sonde, reached near center		
1935 1938	humidity gradient, exactly where winds sped up from E extra sonde due to dry air		
1945	mid point sonde		
1959	end point sonde @ turn, dry @ turn		
2005	very moist sonde extra		
2016	very dry eyewall dropped in hole in cloud		
2032	Sonde N point, turn inbound		
2048	mid point sonde, in humidity gradient, dip in flight level wind		
2112	center sonde after much hunting		
2131	mid point dry		
2148	end point leg	moist	
2201	mid pt very dry		
2217	end point after correction		
2232	mid pt moistest air in flight		
2245	center sonde		
2259	mid pt moist		
2313	end point dry again		