

### Lead Project Scientist

Storm or Project Edouard Experiment name KEE  
Flight ID 20140915 I Mission ID WBOGA EDUARD  
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 Edouard Experiment name MFE  
 Flight ID 20140915 I I Mission ID WB06A EDouARD

#### A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Uhlhorn</u>	Flight Director	<u>M. Holmes</u>
Radar/Workstation	<u>Abrison</u>	Pilots	<u>Sweeney</u>
		Navigator	<u>Gallagher</u>
Cloud Physics		Systems Engineer	<u>Maher</u>
		Data Technician	<u>1</u>
Dropwindsonde	<u>Zhang</u>	Electronics Technician	<u>Sansucci</u>
AXBT/AXCP	<u>James</u>	Other	
Photographer/Observer			
s/Guests			

#### B. Take-off and Landing Times and Locations:

Take-Off: 1151 UTC Location: STX

Landing: \_\_\_\_\_ UTC Location: \_\_\_\_\_

Number of Eye Penetrations: \_\_\_\_\_

#### C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

#### D. Mission Briefing:

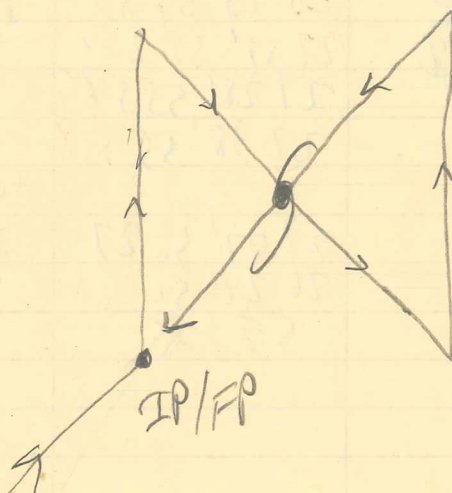
Storm or Project \_\_\_\_\_ Experiment name \_\_\_\_\_

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 20140915I1 LPS \_\_\_\_\_

Time	Event	Position	Comments
1151	T/O	STX	
1356	Descend	25 26' 57 15'	
1412	Combo ①	26 10' 56 37'	SST 28.0 SWS ~ 20 m/s
1455	turn to SE	28 09' 56 27'	
1456	Combo ②	28 06' 56 25'	SST 28.0
1502	Combo ③	27 49' 56 12'	SST 28.4
1508	Combo ④	27 27' 55 54'	EW NE
1512	center		965 splash 5 m/s
1517	Combo ⑤	27 03 55 27	SE EW SWS 40 m/s
1521	—	?	Mid pt SE
1531	Combo ⑦	26 26' 54 47'	End leg.
1532			turn to N
1600		28 42' 54 48'	turn to SW
1607	Combo ⑧	28 25 54 53'	Begin leg
1617	Combo ⑨	27 59' 55 23'	SST 27.6
1627	BT	27 28' 55 54'	SST 27.6
1634	side	27 38' 55 35'	NE EW
1640			turn back to SW
181126	Combo	27 07' 56 27	Mid pt SE
182402	Combo	26 24' 56 55'	End pt SE
2043	Land	STX	

SST 27.7  
→

EW  
NE  
drop →

&

1A

1B

## Mission Summary

Storm name

YYMMDDA# Aircraft 4\_RF

### Scientific Crew (4 RF)

Lead Project Scientist \_\_\_\_\_

Radar Scientist \_\_\_\_\_

Cloud Physics Scientist \_\_\_\_\_

Dropwindsonde Scientist \_\_\_\_\_

Boundary-Layer Scientist \_\_\_\_\_

Workstation Scientist \_\_\_\_\_

Observers (affiliation) \_\_\_\_\_

*Mission Briefing: (include sketch of proposed flight track or page #)*

Fly single Fig-4, Combo drops throughout 90 mi legs,  
fix center, coordinate w/ 42

*Mission Synopsis: (include plot of actual flight track)*

*Evaluation: (did the experiment meet the proposed objectives?)*

*Problems: (list all problems)*

*Expendables used in mission:*

GPS sondes : \_\_\_\_\_

AXBTs : \_\_\_\_\_

Sonobuoys: \_\_\_\_\_