Lead Project Scientist

Storm or Project Earl **Experiment name** TDR/Ocean Winds
Flight ID 10990111 **Mission ID** WX07A Earl9

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_____ **Experiment name**_____

Flight ID _____ **Mission ID**_____

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Clone	Flight Director	Flaherty
Radar/Workstation	Leighton/Murillo	Pilots	Nelson/Kelley
		Navigator	
Cloud Physics	—	Systems Engineer	Bast
Photographer/Observer /Guests	Murillo	Data Technician	
Dropwindsonde	—	Electronics Technician	
AXBT/AXCP		Other	

B. Take-off and Landing Times and Locations:

Take-Off: 1930 UTC Location: Barbados

Landing: 0320 UTC Location: MacDill

Number of Eye Penetrations: 2

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

932 mb

330 11 17

Lead Project Scientist Event Log

Date ______________ Flight ID______________ LPS ____________________

Time	Event	Position	Comments
1922Z	Takeoff	13.08 59.49	Barbados -> MacDill
D1 23:22Z	Drop 1	27.05 71.23	Begin figure 4
D2 23:40Z	eyewall	27.01 73.04	Eyewall (East)
	Note: closed	eyewall (F)	SFMR pk 53/130
D3 2352	Eye	26.98 73.44	Very pretty eye
			dark so can't see but
			def has stadium action
D4 2352	W eyewall	26.98 73.63	100kts/95kts
	Big E	w 95 mb	esp FL
	130 E	100 W	// 105 E 95 W
D5 0016	end pt west	26.9 75.36	Turn pt ... dance to FK
heading	(from	NAV -> 33	0 deg @ 11 kts
D6 0046	end pt (south)	25.42 73.50	Begin last S-N run...
D7 0110	Eyewall South	27.20 73.59	sfmr 85 FL 120
D8 0117	eyewall North	27.63 73.59	SFMR FL
0115Z	Center est	27.35 73.60	
	NOTE:	S. eyewall now	~ open on S. side
D9 0137	North edge	28.95 73.71	Last Drop
0300Z	LAND	MacDill	Shlayter!

ey

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____________________

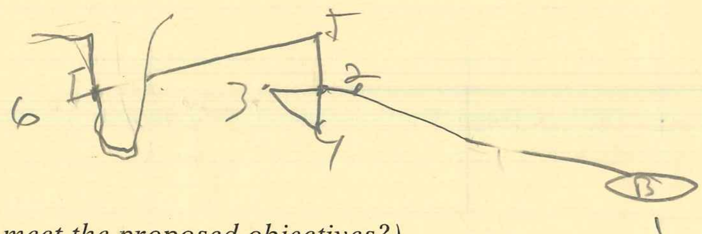
Mission Briefing: (include sketch of proposed flight track or page #)

Ferry flight from Bados → MacDill planned Fig 4 in transit

Mission Synopsis: (include plot of actual flight track)

within Fig 4...

12K ft thru 3 then 7K (ocean or ...)



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

yes exactly pop

Problems:(list all problems)

None

Expendables used in mission:

GPS sondes : ____9____ (no failures)

AXBTs :____0____

Sonobuoys: ____0____