

Lead Project Scientist

Storm or Project Earl Experiment name TDR/Ocean Winds
Flight ID 10090111 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 MGO 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 MGO.
- ___ 7. Determine next mission status, if any, and brief crews as necessary.
- ___ 8. Notify MGO 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	<u>Cloe</u>	Flight Director	<u>Flaherty</u>
Radar/Workstation	<u>Wideman/Wrillo</u>	Pilots	<u>Nelson/Kibbe</u>
Cloud Physics	_____	Navigator	_____
Photographer/Observer /Guests	<u>Mwrillo</u>	Systems Engineer	<u>Bast</u>
Dropwindsonde	_____	Data Technician	_____
AXBT/AXCP	_____	Electronics Technician	_____
		Other	_____

B. Take-off and Landing Times and Locations:

Take-Off: 1930 UTC Location: Bahos

Landing: 0320 UTC Location: Madill

Number of Eye Penetrations: 2

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

Mwrillo

932 mb

33011Kb

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
19:00	Takeoff	13.00 59.49	S - last -> MacDill
23:22	Drop 1	27.55 71.23	Begin figure 4
23:40	eyewall	27.00 73.04	Eyewall (East)
	Note: closed	eyewall (F)	SFMR PK 53/130
2352	Eye	26.98 73.44	Very bright eye dark so cat's paw det has a shln act
2352	WEyewall	26.98 73.63	100kts/95kts Big E w 95mhz 130 E 100 W // 105 E 95 W
0016	end Pt west	26.9 75.36	Turn Pt - last to (AK)
	Woodsy (F)	NAV ->	330 deg @ 11kts
0467	end Pt (South)	25.4 73.50	Begin last s-N run...
0110	Eyewall South	27.20 73.59	SFMR 85 FL 120
0117	eyewall north	27.63 73.59	SFMR FL
01153	Circle east	27.35 73.68	NOTE: s. eyewall now ~ open on s. side
0137	North of 6g	28.95 73.7	Last Drop
0302	LAND	MacDill	Shelton!

er
D1
D2

D3

D4

D5

D6
D7
D8
D9



Mission Summary

Storm name

YYMMDDA# Aircraft 4_RF

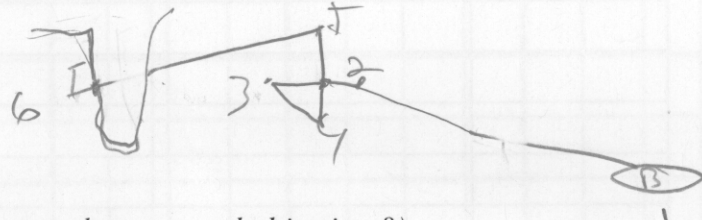
Scientific Crew (4 RF)

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
Bechos → Mac Dill
planned flight
intras.

with flight...
12K FT
turn 3
the 7K (over 0.2 mi)



Mission Synopsis: (include plot of actual flight track)

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

yes exactly per

Problems: (list all problems)

none

Expendables used in mission:

GPS sondes : 9
AXBTs : 0
Sonobuoys: 0

(no failures)