

050909H

## E.2 Lead Project Scientist (On-Board)

Ophelia

### E.2.1 Preflight

MRB

1. Participate in general mission briefing.

Recco

2. Determine specific mission and flight requirements for assigned aircraft.

Yes

3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist and CARCAH unless briefed otherwise by field program director.

Me

4. Contact HRD members of crew to:

- Assure availability for mission.
- Arrange ground transportation schedule when deployed.
- Determine equipment status.

Yes

5. Meet with AOC flight crew at least 90 minutes before takeoff, provide copies of flight requirements, and provide a formal briefing for the flight director, navigator, and pilots.

all good

6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

### E.2.2 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 Form E-2.

### E.2.3 Postflight

- \_\_\_ 1. Debrief scientific crew.

- \_\_\_ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).

- \_\_\_ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

- \_\_\_ 4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.

- \_\_\_ 5. Determine next mission status, if any, and brief crews as necessary.

- \_\_\_ 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

- \_\_\_ 7. Prepare written mission summary.

# On-Board Lead Project Scientist Check List

Date 9/9/05 Aircraft 42RF Flight ID 050909H

H. Ophelia

## A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Jack Parrish</u>
Cloud Physics	<u>—</u>	Pilots	<u>Kennedy, Strong, Wilson</u>
Radar	<u>M. Black</u>	Navigator	<u>Devin Brakob</u>
Workstation	<u>M. Black</u>	Systems Engineer	<u>Greg Best</u>
Photographer/Observer	<u>—</u>	Data Technician	<u>Sean McMillan</u>
<del>GRS</del> Omegasonde	<u>M. Black</u>	Electronics Technician	<u>Bill Olney</u>
AXBT/AXCP/Guest	<u>M. Black</u>	Other	<u>P. Chung &amp; 3 others</u>

Take-Off: 0130 Location: Mac Dill

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

Number of Eye Penetrations: ~5

## B. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>08/21Z</u>	<u>28.6</u>	<u>79.5</u>	<u>985</u>	<u>65 KT</u>
<u>09/06</u>	<u>29.0</u>	<u>79.2</u>	<u>?</u>	<u>70 Kts</u>

## C. Mission Briefing:

9 Sept.

~~0900~~ 03Z, 06Z, 09Z Fixes

— might be cancelled

5Kft, Alpha pattern 105nm, leg, Sander  
at 75nm, RMW, Eye, & maybe some

17K0 AOC AOC

P. Chung drops

6 AXBTs

**D. Equipment Status** (Up, Down, Not Available, Not Used)

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	✓	✓	
Radar/LF	✓	✓	
Radar/TA (Doppler)	✓	✓	
Cloud Physics	—	—	
Data System	✓		
Omegasondes	✓		
AXBT/AXCP 6	✓		
Workstation	✓	✓	
Videography	—	—	

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REMARKS:

# Lead Project Scientist Event Log

Date 9/9/05

Flight 050909A

LPS M. B. Galt

Time	Event	Position	Comments
0130	Takeoff	MacPill	~ 45 miles from
0137	Radar Tape On over land		
0142	Tail noisy - ground radar interference?		
0204	~70 mile SW of ctr-head NE to eye		
020630	Drop #1 60 mi SW of eye - now and		
020944	Drop #2 50 mi SW - re-transmit later		
021948	Drop #3 SW eyewall now winds		
022350	eye 28.70 79.25		
0225	circle 1 eye		
022954	eye drop + BT - no data		
	- no launch detect		
0230	circling in eye again to get a good eye drop		
0235	Someone smells smoke?		
0240	Found problem - launch tape motor		
0253	Still circling		
0300	Started radar data		
031024			
0309			
0357			
0357	circling at NW point Canaveral Bay		

30.05 80° 73° 41012  
 ~20 kts SFMP  
 31 kts Flt 401

(2)

## Lead Project Scientist Event Log

Date 9/9/05 Flight 050909H LPS M. Black

N. O / phetic

Time	Event	Position	25 k Comments	no Mental
040417	Drop #6 at Bay 42014		30 kts SRT run	
040430	AXBT #3	27.1°N	long time	
040534	Drop #7	Backup	good scene	
042412	NW Eyewall	Drop #8	no winds	
043050	Eye 28°N 76°W	79°31'W	Drop #9	
0413423	SE eyewall	BT #1 - Bay		
		-55 kts SFC, 50 kts SFMR		
045800	105 mi SE	turn to North		
053245	105 mi NE	turn to SW		
053920	Drop #11	60 mi NE	no winds	
054816	Drop #12	NE eyewall	no winds	
055927	Drop #13	eye		
060316	Drop #14	SW eyewall		
061859	~70 mi SW of eye	near coast - hdg E		
061939	Drop #15	no winds except on Charis	2	
0617-0633	0633	Radar Down		
06	SW FC			
07				
0716	~40 miles SE of eye	hdg to eye		
073219	29°N 79.28°W	eye	no launch delay	

0746 eye 29°N 79°17' Drop 17

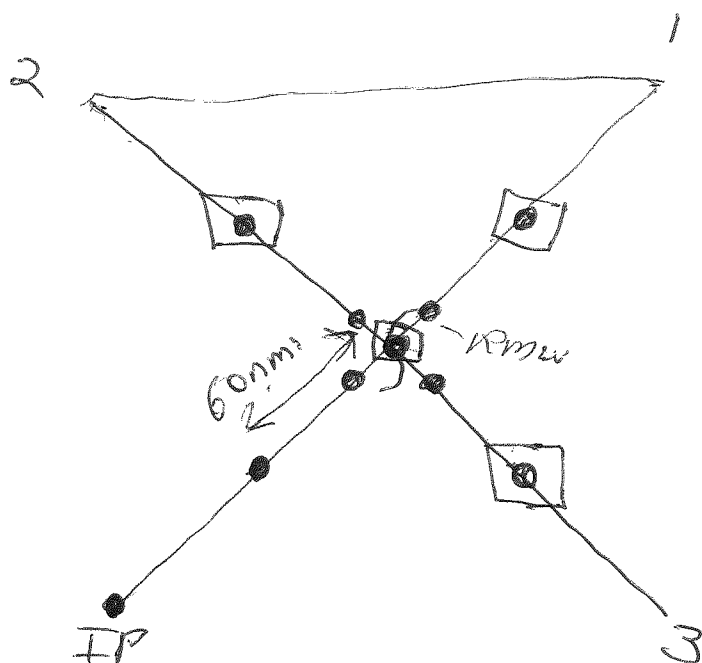
0746 Radar down w. eye - SFMR leg at 10 kts

080130 - At Bay

0811 - Hdg to MacDill

0813 - Radar off

050909H  
Sondes + BTs



• sonde  
□ BT

Rmw, eye sondes - AOC  
IP, 60nm from ctr - HRP  
plus any for P. Chang