

050907 LT

OPhelix

## E.2 Lead Project Scientist

### E.2.1 Preflight

- MB 1. Participate in general mission briefing.
- MB 2. Determine specific mission and flight requirements for assigned aircraft.
- MB 3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
- MB 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.
- MB 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- MB 5. 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.
- \_\_\_\_\_ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).
- \_\_\_\_\_ 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- \_\_\_\_\_ 7. Make sure each HRD flight crew members have life vests
- \_\_\_\_\_ 7. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
- \_\_\_\_\_ 8. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members.

### 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 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).

### E.2.3 Post flight

- \_\_\_\_\_ 1. Debrief scientific crew.
- \_\_\_\_\_ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.

TS Ophelia

Lead Project Scientist Check List

Date 9/7/05 Aircraft 42RF Flight ID 050907H

A. —Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Tom Shepherd</u>
Radar	<u>M. Black</u>	Pilots	<u>Phil Kennedy, Tom Strong</u>
Workstation	<u>M. Black</u>	Navigator	<u>Pete Siegel</u>
Cloud Physics	<u>                    </u>	Systems Engineer	<u>Steve Wade</u>
Photographer/Observer	<u>Melanie DesFlots</u>	Data Technician	<u>Sean McMillan</u>
/Guests	<u>G</u>	Electronics Technician	<u>Mark Rogers</u>
Dropwindsonde	<u>                    </u>	Other	<u>P. Chung, Dunn</u>
AXBT/AXCP	<u>                    </u>		<u>2 others</u>

B. Take-off and Landing Locations:

Take-Off: 1337 Location: Mar 17

Landing:                      Location:                     

Number of Eye Penetrations: 3-4

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>07/15</u>	<u>28 24</u>	<u>79 12</u>		

D. Mission Briefing:

Recco, 5 k ft, 15, 18, 21 z fixes  
105 nmt legs, starting NW-SE  
then W (downwind) to NE-SW  
2 1/2-20 drops 60 nmt, 30 nmt, etc,  
~~mid point downwind leg~~

TS Orhelia 10R2

Lead Project Scientist Event Log

Date 9/7/05 Flight 050709H LPS M. Black

Time	Event	Position	Comments
1427	AT IP	105 nm NW of ctr	hlg
1441		NE wind 30 kt	SE
1445	60 miles NW of ctr	Drop #	
1449	28° 7' 79° 35'	Center -	Drop
144803	Drop #3	15 miles out	Drop
150612	Drop #4	60 mi SE - no wind	Drop
1519	105 nm SE	turn to N	
1553	105 nm NE	turn to SW	
		near active bands/eye	
1602-1605	in strong convection		
160839	Drop #5	60 nm NE	
161350	Drop #6	30 nm NE	
1624	Circling in eye, missed center		
162709	28° 7' 79° 37'	eye	
	eye forming, eye wall open NE		
163948	Drop #7	eye drop	Drop
163948	Drop #8	30 mi SW	Drop
1719	105 nm SE	overturning	to form
	hlg NW to E		
1730	SEMR (both) heading way too		
173710	30 miles SE of ctr	Drop #9	hlg
	52 ATs ALL-144		
1747	Circling in eye for fix		
175105	28° 7' 79° 31'	eye	Drop
180210	Drop #10	35 miles NW	Drop
1821	105 nm	NW - turn around to ctr	

20R2

Date 9/7/05 Flight 05090714 LPS M. B7ad

[illegible]



## NOAA HURRICANE HUNTERS

