

Lead Project Scientist

Preflight

- _____ 1. Participate in general mission briefing.
- _____ 2. Determine specific mission and flight requirements for assigned aircraft.
- _____ 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.
- _____ 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.
- _____ 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.

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. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- _____ 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. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
- _____ 6. Obtain a copy of the all VHS videos from aircraft cameras (3-4 approx.). Turn in with completed forms.
- _____ 7. Obtain a copy of CD with all flight data. Turn in with completed forms.
- _____ 8. Determine next mission status, if any, and brief crews as necessary.
- _____ 9. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
- _____ 10. Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List

Storm or Project RITA / IFEX Experiment name IFEX / RAINEX
 Date 9/19/05 Aircraft 43 Flight ID 080919I

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Marty Maxey / Barry</u>
Radar	<u>M. Black</u>	Pilots	<u>Mike Silah</u> <u>M. Nelson, Rindi Tebaest</u>
Workstation	<u>M. Black</u>	Navigator	<u>Pete Siegel</u> <u>Dewie Floyd</u>
Cloud Physics	<u>—</u>	Systems Engineer	<u>Terri Lynch</u> <u>Joe Klipp</u>
Photographer/Observer	<u>Cherry Rob</u>	Data Technician	<u>Pyle Carpenter</u> <u>Ravi Tong</u>
/Guests	<u>Paul Denny</u>	Electronics Technician	<u>—</u>
Dropwindsonde	<u>M. Black</u>	Other	<u>Tom McFadden</u>
AXBT/AXCP	<u>—</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1455 UTC Location: St. Croix

Landing: 2300 UTC Location: Maidell

Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>19/18Z</u>	<u>23.1</u>	<u>76.0</u>	<u>~995</u>	<u>~50 kt</u>

D. Mission Briefing:

SFMR Takeoff 145500Z
8,000ft, RAINEX coordination
w NRL #3 attend - will join us
acapt - 3 - do rainband work
on NW - NE quadrants

Lead Project Scientist Event Log

DoR U

Date 9/19/05 Flight 050919I LPS RM. Black

Rita

Time	Event	Position	Comments
1455	Takeoff	St. Croix	
1513	Radar On		
1527	FAST ON		
1714	Drop #1	105 nm. SE of R or	
1732	SE eyewall	65 KTS SFMR RH-100-52	21
1738	Eye	23.09 75.86	991.5 Kts
1744	NW eyewall	45 KTS RH-100-50 KTS SEC	
1754	In Rainband NW of eye	65 KTS RH-100	
1804	NW point	105 nm. out	-55 KTS SEC
1806	Drop #2	NW point	
1817	Drop #3	Rainband west side	
1837	Drop #4	SW point	
1850	Drop #5	SW eyewall	
1856	Eye	23.02 76.11	
1857	Drop #6	inside edge eye SW	
1928	Drop #7	NE point 105 nm. NE	
1934	Drop #8		
1941	Drop #9	Rainband N side	
1948	Drop #10		
1958	Drop #11		
2008	Drop #12		
2018	Drop #13		
2028	Drop #14		
2042	275 miles south of eye	turn north to eye	
2052	Eye	23.1 76.37	Drop 15
2124	Drop #16	NW side	

Rainband
Crumble
NE
N
W
SW

2124 - Drop 16 near band NW side