

M. Black

Lead Project Scientist

070921I
TD13/Jerry?

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

EMC/NHC/HRD

Storm or Project

Experiment name

Date 9-21-07

Aircraft

43

Flight ID

070921I

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	M. Black	Flight Director	T. Shepherd
Radar	P. Leighton	Pilots	Mark Nelson, Al Grlimner
Workstation	Guy	Navigator	Joe Bishop
Cloud Physics		Systems Engineer	Jeff Smith
Photographer/Observer	Bret Johnson	Data Technician	Terry Lynch
/Guests	Pilot's crew		Dormen Smith
Dropwindsonde	Guy Casella	Electronics Technician	
AXBT/AXCP		Other	

B. Take-off and Landing Times and Locations:

Take-Off:

UTC

Location:

McDill

Landing:

UTC

Location:

McDill

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
21/2030	29°57'	86°18'	1004	30 kt

D. Mission Briefing:

TD13 Near Landfall just west of Appalachicola, moving 300° @ 8 kt parallel to coast.

- 1) Figure 4 If 105 nm SE of fix legs cut on north side of storm - 00Z fix
- 2) Box Pattern around rainband or convective burst
- 3) 2nd Figure 4 for 03Z fix
- 4) 2nd Box Pattern

Lead Project Scientist Event Log

Date 9-21-07 Flight 070921I LPS M. B. Galt

Time	Event	Position	Comments
2225	Descent to 5 Kt		
2235	At IP SE ^{28.17} _{84.96}	IP Drop #1	26 Kt FL, 22 Kt SFMR
2256	RB oriented W to E - woyk wind before - 25 Kts in	Drop #2, 29.9, 86.23	40 Kts SFMR
2307	Center	30.19, 86.38	1006 - near cell
2325	Turn around to East, South of Mobile Bay		
2327	Drop #3	South of Mobile Bay	offshore winds
2329	Turn back to East		
2340	CPUA to center		
0003	Radar Power		
0005	Radar Up		
0006	South of Appalachia turn to west to		
	Intercept North portion of Radar band		
001840	Drop at NE corner of band - stratiform		
003420	Turn to W along line of R/B - convective		
003908	South of conv cell - drop 28.47, 87.25		
	Small convective burst module		
0048	North of R Cell		
005106	E R Cell - drop		
005709	W edge of cell - drop		
0100	turn to North		
	turn to West inside of band		
0113	turn to SE - back to conv. cell		
011640	Turn to NE inside of band - conv. cell		
011739	29.56, 87.14 Drop		
012549	Drop #10 inside of R band		
0133	South of Pensacola - end patterns		

head for MacRill