

Lead Project Scientist**Flight ID**
Preflight

080912i

Storm IKE**LPS** DUNNAN

- ☒ 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 Ike Experiment name TDR
 Date 9-12-08 Aircraft 43RF Flight ID 080912i

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>DUNION</u>	Flight Director	<u>Mayeaux</u>
Radar	<u>Dorst/Black</u>	Pilots	<u>Ebhardt, Choy, Throest</u>
Workstation	<u>Dorst/Black</u>	Navigator	<u>Kidder/Bishop</u>
Cloud Physics	<u>-</u>	Systems Engineer	<u>Klippe</u>
Photographer/Observer	<u>-</u>	Data Technician	<u>Lynch/Nacher</u>
/Guests	<u>-</u>	Electronics Technician	<u>SanSouci, Smith</u>
Dropwindsonde	<u>Dorst/Black</u>	Other	
AXBT/AXCP	<u>Benjami</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1032 UTC Location: MacDill

Landing: 1904 UTC Location: MacDill

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>12 Sep 9Z</u>	<u>26.7 N</u>	<u>91.6 W</u>	<u>953 mb</u>	<u>90 kt</u>
<u>12 Sep 11Z</u>	<u>27.2 N</u>	<u>92.6 W</u>		

D. Mission Briefing:

E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF	↑	↑		
Doppler Radar/TA	↑	↑ down briefly		
Cloud Physics	—	—		
Data System	↑	↑		
GPS sondes	↑	↑		
AXBT/AXCP	↑	↑		
Ozone instrument	—	—		
Workstation	↑	↑		
Videography	—	—		

REMARKS:

JASON

Flight 0809121

LPS Dunlop

AXBTs: 20 (5 failures)

GPS sondes: 17 (HRD:11, NCEP6)

Lead Project Scientist Event Log

AXBT failures: 1/6/11/12/16

NCEP Drops: 4/11/13/14-16

Date _____ Flight _____ LPS _____

Time	Event	Position	Comments
	Drop 1 (leg 1-2)		AXBT failed (HRD) sonde 34kt rad
	Drop 2 (leg 1-2)		~50kt (HRD)
	Drop 3 (leg 1-2)		SFMR shallows (HRD)
	Drop 4 (pt 2)	N (pt 2)	NCEP (no scatterers)
	Drop 5	N	SFMR shallows (HRD)
	Drop 6	N	" " (HRD)
	Drop 7	N	" " (HRD)
	Drop 8 / AXBT 1	N	(HRD)
	AXBT 2	N	
	Drop 9 / AXBT 3	N	(HRD)
	AXBT 4	N	
	Drop 10 / AXBT 5	N	(HRD)
	Drop 11 / AXBT 6	S eyewall	NCEP NO AXBT signal
13432	AXBT 7	SE	
1347	Drop 12 / AXBT 8	SE	(HRD)
1358	AXBT 9	E	
1404	AXBT 10	E	
1410	AXBT 11	E	NO signal
1417	AXBT 12	E	NO signal
1416	Drop 13	E eyewall	NCEP ~91kt SFC ~90-92kt SFMR
1429	AXBT 13	W	
1504	AXBT 14	SW out	
1517	AXBT 15	SW in	
1526	AXBT 16	SW in	failed
1453	Drop 14	W corner	NCEP (no scat)
1511	Drop 15	SW corner	NCEP (no scat)
1549	Drop 16	NE eyewall	leg 6-7 NCEP

1541 AXBT 17

NE

1552 AXBT 18

NE

1558 AXBT 19

NE

1646 AXBT 20 / Drop 17 just SE (than outbound E) — NOAA drifter overflight (#75633)