

Lead Project Scientist

Flight ID _____ Storm _____ LPS _____
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 Gustav Experiment name _____
 Date 29 AUG 2008 Aircraft N42RF Flight ID 080829H

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>GAMACHE</u>	Flight Director	<u>DALIANO</u>
Radar	<u>GAMACHE</u> <u>LORSOLO</u> <u>ANNANE</u>	Pilots	
Workstation	<u>LORSOLO/GAMACHE</u>	Navigator	
Cloud Physics		Systems Engineer	
Photographer/Observer		Data Technician	
/Guests	<u>CARSEY</u>		
Dropwindsonde	<u>LORSOLO/GAMACHE</u>	Electronics Technician	
AXBT/AXCP	<u>GAMACHE</u>	Other	

B. Take-off and Landing Times and Locations:

Take-Off: 2019 UTC Location: MACDILL

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

10.42.16.187

Lead Project Scientist Event Log

Date 08082941 Flight LPS GAMACHE

Time	Event	Position	Comments
#1 2215	BT/SONDE COMBO	20°17' 81°5'	FAST FALL
2227	BT	19°48' 80°35'	29.1°C
2223	SONDE		FAST FALL
2234	SONDE	19°30' 80°16'	FAST FALL
2243	BT	19°5' 79°49'	28.8°C 35 sec
2245		19°5' 79°58'	6
2255	BT	18°33' 79°16'	28.9°C 38 sec
(2) 2310	BT & SONDE	18°12' 78°36'	28.8°C
2318	BT	18°47' 78°35'	28.4°C 40 sec
2327	BT	19°31' 78°36'	28.6°C 43 sec
(3) 2337	BT/SONDE	20°11' 78°43'	29.1°C 38 sec
2350	BT	19°35' 79°20'	29.1°C spotty
2355	BT/SONDE	19°22' 79°38'	7
			SONDE FAST FALL
2357	SONDE	19°20' 79°40'	FAST FALL AGAIN
2412	SONDE/BT	18°49' 80°30'	29.0° 35 sec
2415	BT	18°42' 80°38'	29.0° 30 sec
(4) 2427	SONDE/BT	18°9' 81°7'	28.7° 30 sec
2502	SONDE/BT	19°30' 79°42'	
2534	SONDE/BT	19°30' 79°46'	28.7°C
2601	SONDE/BT	19°48' 79°16'	29.0°C 55 sec

2401 19°15' 79°58'