

Lead Project Scientist

Storm or Project Earl Experiment name RI
Flight ID 100829HI Mission ID _____

Preflight

- 1. Participate in general mission briefing.
- 2. Determine specific mission and flight requirements for assigned aircraft.
- 3. Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
- 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.
- 6. 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.
- 7. Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.
- 8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- 9. Make sure each HRD flight crew member has a life vest.
- 10. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.

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. Gather completed forms for mission and turn in to data manager at HRD.
- 3. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- 4. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
- 5. Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.

[Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

- 6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- 7. Determine next mission status, if any, and brief crews as necessary.
- 8. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
- 9. Prepare written mission summary using Mission Summary form.

Lead Project Scientist Check List

Storm or Project Earl 2010 Experiment name RI

Flight ID 100829H1 Mission ID NOAA2 WX07A EARL2

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Gamache</u>	Flight Director	<u>DAMIANO / WILLIAMS</u>
Radar/Workstation	<u>Lorsolo</u> <u>Uhl horn</u>	Pilots	<u>NEWMAN, MARTIN</u> <u>SWEENEY</u>
Cloud Physics	_____	Navigator	<u>BRADDA</u>
Photographer/Observer	_____	Systems Engineer	<u>BOSKO, OLNEY</u>
/Guests	<u>Uhl horn</u>	Data Technician	<u>LYNCH</u>
Dropwindsonde →	_____	Electronics Technician	_____
AXBT/AXCP	_____	Other	_____

FLT ENG. KLIPPEL
DARBY RICHARDS
WARNECKE

B. Take-off and Landing Times and Locations:

Take-Off: 0804 UTC Location: Barbados

Landing: 1506 UTC Location: Barbados

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

Re fitting figure-4 pattern. 105nm radial legs.
Drops at 105nm and 52.5, unless moving
slightly for convection. max winds.
May see a convective burst pattern.

Storm or Project Earl 2010 Experiment name RJ

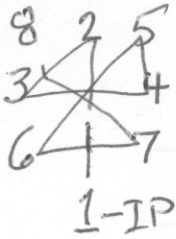
Flight ID 100829H/ Mission ID _____

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs / Expendables / Printouts
Radar/LF	✓			
Doppler Radar/TA	✓			
Cloud Physics	N/A			
Data System	✓			
GPS sondes	✓			
AXBT/AXCP	N/A			
Ozone instrument				
Workstation	✓			
Cameras				

REMARKS:

NOAAZ WX07A EARLZ



Lead Project Scientist Event Log

Date Aug 29, 2010 Flight ID 100829#1 LPS Gamache

Time	Event	Position	Comments
081049	IP		
081049	T/O	BARBADOS	
084340	CONV BAND	14°21' 57" 32'	
085750	WINDS	155 56 54	B 240/25 kts
090010	IP/DROP 1	15°16' 56" 48'	232/21 - Good - ONLY TO ZWD
0908	DROP 2	15°30' 56" 48'	239/24 - Good
0923	9 DROP 3	16°50' 56" 58'	35 kts max FL wind Side
0931		17°35' 56" 55'	60 kts max FL WS N
0936	DROP 4	17°57' 56" 55'	63 kts
0938	IP	18°08' 56" 55'	BROAD BREAK NEAR 60 kts
0947	POINT 2/DROP 5	18°43' 56" 56'	64/107/64 kts SFMR 20 PARTLY SUNNY
			PARTLY SUNNY
0955		18°18' 57" 27'	45 kts both SFMR & FL
0959		18°00' 57" 39'	GOING THRU GAP IN RAIN BAND FL 35 kts
			SFMR 40-47 kts
102055	POINT 3/DROP 6	16°58' 58" 47'	B 018/35 kts SFMR 32
1029	DROP 7	16°58' 58" 10'	238 340/32 BAD SOND
1035	DROP 7a	16°58' 57" 47'	BAND SONDE - NO CANCEL DETECT
1042	9 APPROX	17° 57" 15'	
1048	DROP 8	16°59' 56" 44'	
1043-	1050	RADAR DOWN	
			40 kts W side 62 kts E side
			SFMR NEARLY SAME
1103		16°59' 55" 45'	FL still 60 kts, SFMR 38
1108	PT 4 DROP 9	16°59' 17°3' 55" 22'	155/56 kts SFMR ~ 38 kts

986 SONDE
B kts 167

BAD }
}

282 14 kts

Lead Project Scientist Event Log

Date _____ Flight ID 100829H/ LPS- Gamache

Time	Event	Position	Comments
1127	DROP 10	18 21 56 9	132/56 38 SFMR
1130			70 kts MAX NESE
1130	DROP 11	17 44 56 49	50 kts SFMR
1152			SFMR ON NE SIDE
			REACH 60 kts AT 1147
1208	DROP 12	16° 24' 58 25'	330/36
1220	DROP 13	15° 47' 58 53'	300/24 kts
1252	DROP 14	15° 51' 56 34'	177/32 kts ~ 40 kts SF
1304	DROP 15	16° 29' 59 12'	
1319	DROP 16	17° 2' 59 56'	6
1335			62 SFMR SE side
			53 SFMR NW side
1337	DROP 17	17° 45' 58 57'	050/50 kts
1344	DROP 18	18° 4' 59 25'	065/44
	19 SOUNDS ^{SOUNDS} TOTAL		
1506	LANDING	BARBADOS	

1702'
5758
987mb
181/10 kts