

Lead Project Scientist

Storm or Project Trane Experiment name TPR
Flight ID 11082611 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 Irene Experiment name TDR
 Flight ID 110826I1 Mission ID _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Whitman</u>	Flight Director	<u>Daviano</u>
Radar/Workstation	<u>Reasor</u>	Pilots	<u>Halmerson, Nelson</u> <u>Martin</u>
Cloud Physics	_____	Navigator	<u>Kedder</u>
Photographer/Observer /Guests	<u>Marks</u>	Systems Engineer	<u>Klippel</u>
Dropwindsonde	<u>Sellwood</u>	Data Technician	<u>Naher</u>
AXBT/AXCP	<u>X</u>	Electronics Technician	<u>Sansouci</u>
		Other	<u>Wameke</u>

B. Take-off and Landing Times and Locations:

Take-Off: 0805 UTC Location: KMCF

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

1
2
3
4
5

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>0932</u>	<u>29 31'</u>	<u>77 22'</u>	<u>943 mb</u>	
<u>1044</u>	<u>29 45'</u>	<u>77 19'</u>		

D. Mission Briefing:

TDR, Rot-fight with one additional
 pass (5 pennies in all).

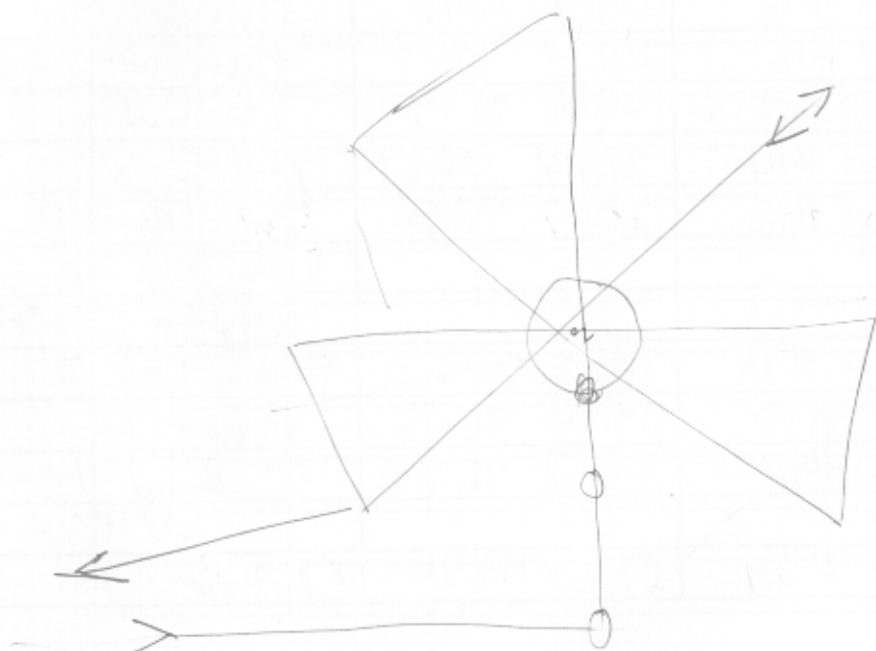
Storm or Project _____ Experiment name _____

Flight ID _____ 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				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

REMARKS:



Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

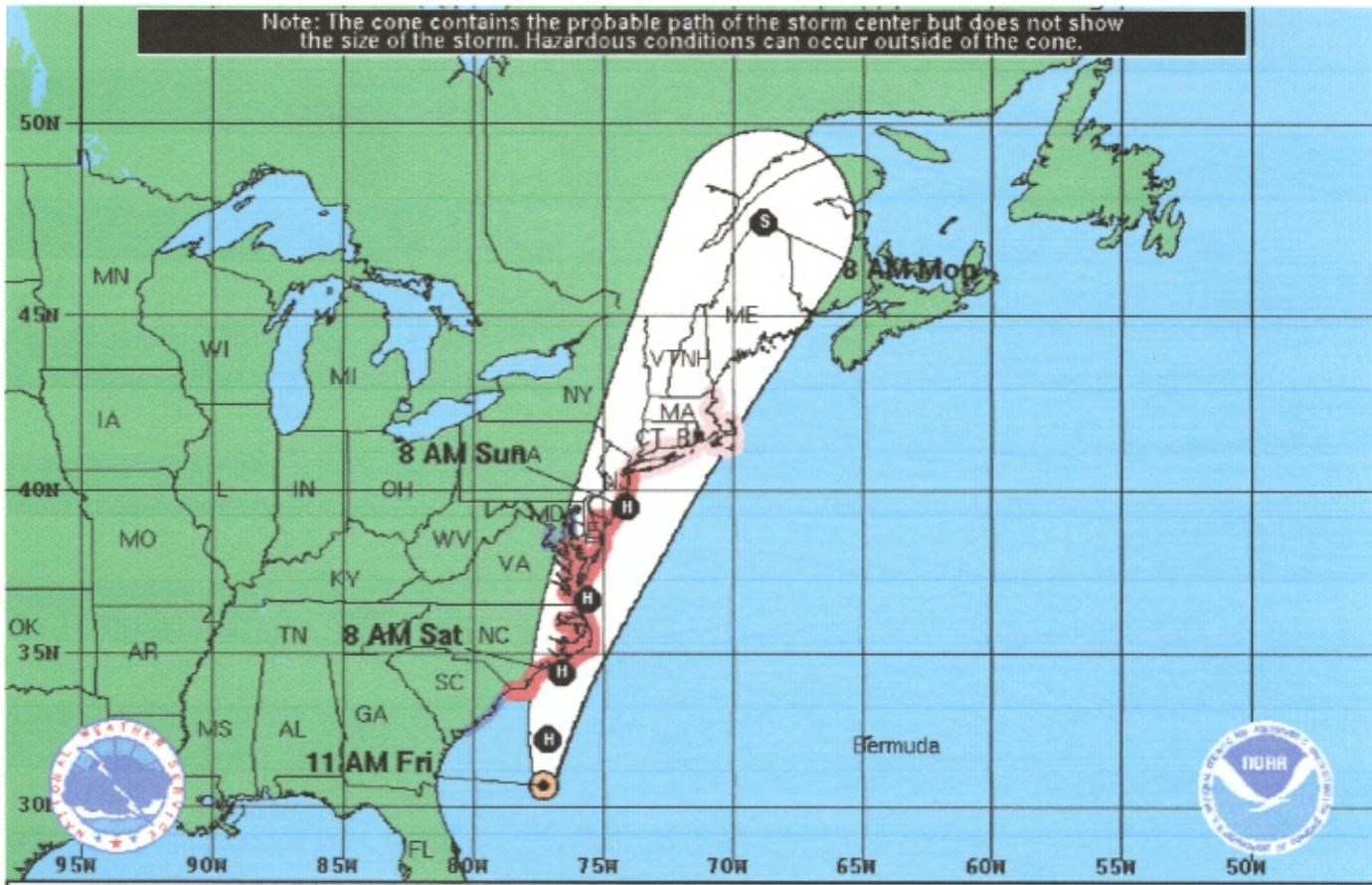
Time	Event	Position	Comments
0805	T/O	KMCF	
0906		27.72 77.34	Turn to 1000' H
0907	Drop #1	27.79 77.30	Begin Leg #1
0913	Drop #2	28.18 77.30	*Weak* RB
0919	Drop #3	28.63 77.31	Midpt. S
0926	Drop #4	29.13 77.31	S EW (open)
0931	Drop #5	29.51 77.36	Center 29.31' 77.22'
0936	Drop #6	29.82 77.36	N EW (heavy precip)
0943	Drop #7	30.33 77.36	Midpt N. (RB)
0950	Drop #8	31.44 77.35	End Leg 1
1007		30.75 77.67	Turn Downward to NW
1017	Drop #9	30.85 77.67	Turn to 1350' H Begin Leg #2
1034	Drop #10	30.19 77.89	Midpt NW RB
1041	Drop #11	29.84 77.48	(Outer EW/NW)
1044	Drop #12	29.74 77.31	Inner EW (clear)
1048	Drop #13	29.55 77.09	SE EW
1059	Drop #14	29.09 76.58	Midpt SE
1112	Drop #15	28.67 75.96	End Leg #2 Turn DW to E
1133			Turn to 2600' H
1138	Drop #16	30.02 75.37	Begin Leg 3
1151	Drop #17	29.94 76.33	Midpt W.
1201	Drop #18	29.97 76.99	E EW heavy precip
1206	Drop #19	30.07 77.36	Center 94'

355 @ 15kt
943 mb

943 mb

946 mb

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Hurricane Irene
 Friday August 26, 2011
 11 AM EDT Advisory 25
 NWS National Hurricane Center

Current Information: ●
 Center Location 30.7 N 77.3 W
 Max Sustained Wind 105 mph
 Movement N at 14 mph

Forecast Positions:
 ● Tropical Cyclone ○ Post-Tropical
 Sustained Winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110mph

Potential Track Area:
 Day 1-3

Watches:
 Hurricane Trop.Storm

Warnings:
 Hurricane Trop.Storm