

Lead Project Scientist

Storm or Project Inch 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>William</u>	Flight Director	<u>Dawano</u>
Radar/Workstation	<u>Reaser</u>	Pilots	<u>Hahnerson, Nelson</u> <u>Martin</u>
		Navigator	<u>Kiddner</u>
Cloud Physics		Systems Engineer	<u>Klippel</u>
Photographer/Observer /Guests	<u>Marks</u>	Data Technician	<u>Naher</u>
Dropwindsonde	<u>Sellwood</u>	Electronics Technician	<u>Sans Souci</u>
AXBT/AXCP	<u>X</u>	Other	<u>Werneke</u>

B. Take-off and Landing Times and Locations:

Take-Off: 0805 UTC Location: KACE

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

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-fig4 with one additional
pass (5 pennies in all).

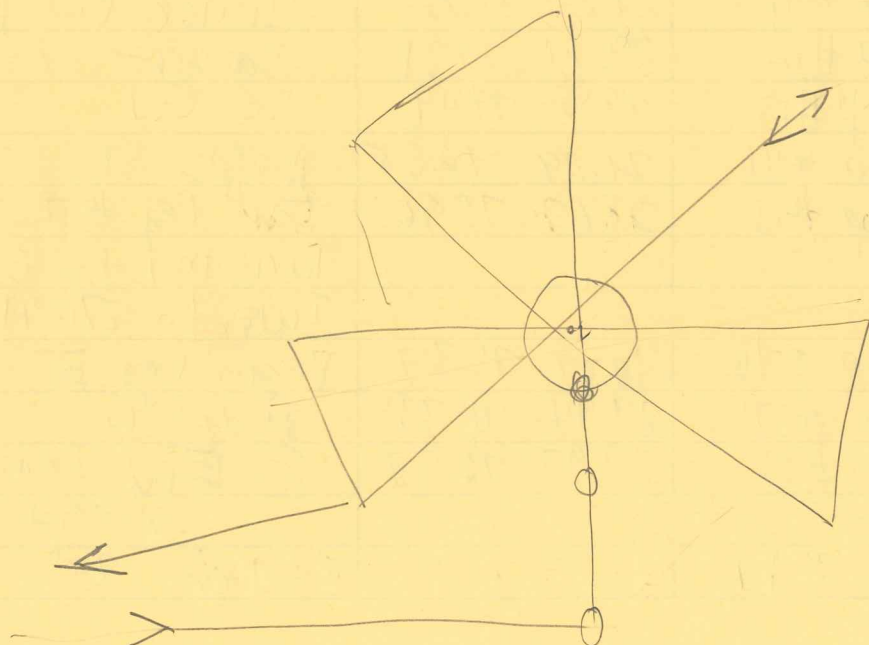
Storm or Project _____ Experiment name _____

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)
0959	Drop #8	31.44 77.35	End Leg 1
1017	Drop #9	30.85 77.67	Turn Downward to NW Turn to 1350' H Leg 2
1034	Drop #10	30.19 77.89	Begin Leg #2 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	Center 29.45' 77.19'
1059	Drop #14	29.09 76.58	SE EW
1112	Drop #15	28.67 75.96	Midpt SE
1133	Drop #16	30.02 75.37	End Leg #2 Turn DW to E
1138	Drop #17	29.94 76.33	Turn to 2200' H
1151	Drop #18	29.97 76.99	Begin Leg 3
1201	Drop #19	30.07 77.36	Midpt W.
1206			E EW heavy precip
			Center 94'

355 @ 15kt
943mb

943mb

946mb

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

[illegible]

