

Lead Project Scientist

Storm or Project Rona

Experiment name TDR

Flight ID 111027H1

Mission ID 1218 A RINA

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 Rima Experiment name TDR
 Flight ID 1218A RINA Mission ID 111027#1

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Aberson</u>	Flight Director	<u>Williams/Parnish</u>
Radar/Workstation		Pilots	<u>Nelson/Sweeney/Martin</u>
	<u>Markovic</u>	Navigator	<u>Kiddier</u>
Cloud Physics	<u>—</u>	Systems Engineer	<u>Darby</u>
Photographer/Observer /Guests	<u>Tom Fitz/Jennifer Passman</u>	Data Technician	<u>Lynch</u>
Dropwindsonde	<u>Vukicevic</u>	Electronics Technician	<u>Wamerke/Carpenter</u>
AXBT/AXCP	<u>—</u>	Other	

B. Take-off and Landing Times and Locations:

Take-Off: 1144 UTC Location: Macbill
 Landing: 1727 UTC Location: Macbill

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing: Half TDR mission due to land. Takeoff delayed due to yesterday's issues and fire warning on previous flight.

19.5 80.6

Lead Project Scientist Event Log

Date _____ Flight ID 111027#1 LPS Abersan

Time	Event	Position	Comments
1114	Takeoff		
Radars	Cancun		
			possible mid level or second center May investigate if still there when we get there
	Belize		
11145	Radars on	TA problems	230N
By 1230Z			
	Cancun		
	Belize		
1	125350	Drop in rainband	for SFMR high rain rate low wind
2	125800	Second drop same reason	large wind speed spike
		Drop did not get to HAPS	
	1304	IP turn inbound	
3	1304 38	Sonde 90 min NNE	

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

	Time	Event	Position	Comments
	1245	Satellite - center of W tip of convection	18.91 86.91	
	1310	Turn toward satellite center		
4	131100	Sonde 60 mi	N	
5	131726	Sonde 30 mi	N	
	1382	Start hunting		
6	132655	Center	Lightning flash	Start convection box
	13277	19 04	86.51	
	1336	Turn to N, slight delay		
7	133930	Sonde SE pt		
	1343	Turn to W		
8	134423	Sonde NE pt		
	1356	Turn to S		
9	135702	Sonde SW pt		
	1401	Turn to hunt center		
10	140324	Sonde, surface center visual		
11	141107	Sonde 30 mi	S	
12	141145	Sonde 60 mi	S	
	1425	Turn inbound 135°		
13	142635	Sonde 60 mi	SE	
	143136	Sonde 30 mi	SE	
14	143959	Sonde eye	start darkness convection model	
	1451	Turn inbound 19 10.1	86.50.5	144107
15	145236	Sonde NE pt		
	1455	Turn inbound 225°		
16	145253	Sonde SE pt		
	1504	Start hunting center	(315°)	
17	150547	Sonde SW pt		

