

Lead Project Scientist

Storm or Project TS KARL Experiment name RAPX

Flight ID 20160924 I2 Mission ID WL12A KARL

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

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A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>BUCCI</u>	Flight Director	<u>BELSON / SEARS</u>
Radar/Workstation	<u>KLOTZ</u>	Pilots	<u>PRICE</u> <u>KAHN, REES</u>
		Navigator	<u>SIEGEL</u>
Cloud Physics		Systems Engineer	<u>HEYSTER</u>
		Data Technician	<u>NAEHER</u>
Dropwindsonde	<u>CHRISTOPHERSEN</u>	Electronics Technician	<u>PEEK</u>
AXB T/AXCP		Other	<u>JEL ENAK, SAPP</u>
Photographer/Observers/Guests			

B. Take-off and Landing Times and Locations:

NWIP: 34° 19' 62" 13'

Take-Off: 1740 UTC Location: STX

Landing: 0225 UTC Location: STX

Number of Eye Penetrations: 0?

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

TS Karl is 55 kts 994 mb accelerating to the North Atlantic at 50° (NE) at 16 kts. It is beginning ET with the max winds shifting to the east side of the storm. One figure-4 is planned w/ IR/ BT combs at the end points. No regular sondes, 60 nm legs, 7000 ft radar. After figure-4, 1 WRAP will fly radials in high wind regions, possibly high incidence SFMR module

