

Lead Project Scientist

Date 8/12/21

Flight ID 20200812 H2

Storm or Project 6706A

Experiment name EMC TASK

Mission ID ALOG/FRED

Pre-flight

- ☐ 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 Field Program Director.
- ☐ 8. Before take-off, brief the on-board GPS dropsode 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 Field Program Director
- ☐ 7. Determine next mission status, if any, and brief crews as necessary.
- ☐ 8. Notify Field Program Director 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 ALOG/FRED

Experiment name ENC TASK

Flight ID 20210812H2

Mission ID 0706A

A. Participants:

Function	Participant	Function	Participant
Lead Project Scientist		Flight Director	
Radar		Pilot	
Workstation		Pilot	
Cloud Physics		Navigator	
Dropsonde		Systems Engineer	
Dropsonde		Data Technician	
AXBT/AXCP		Electronics Technicians	
Observer/Guest			
Observer/Guest		Flight Engineer	

B. Take-off and Landing Times and Locations:

Take-Off: 2003 UTC Location: LAKELAND

5.3 FLIGHT TIME

Landing: 0118 UTC Location: LAKELAND

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
/				
/				
/				
/				
/				

D. Mission Briefing:

Storm or Project _____ Experiment name

Flight ID _____ Mission ID

E. — Equipment Status (Up U, Down D, 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

21 12 7504

Date 8/12/24

Flight ID 20210812H2 LPS ZAWLISAK/ROBERT

Time	Event	Position	Comments
2003 Z	TAKEOFF		
PT1 SOUNDR #1 2129Z	AT PT1 CH1	22°32' / 77°34'	
MP SOUNDR #2 2140Z	AT MID PT1 → CR CUR	22°0' / 76°44'	
	A CONVECTIVE BURST HAS BEEN DEVELOPING OFFSHORE OF		
	CUBA'S (OR EASTERN TIP, ON OUR OUTBOUND VEC STAYS RIGHT		
	IN THE MIDDLE OF IT, SO WE'VE EXTEND OUR SOME TO THE SE		
	TO ENSURE WE GET THE OVERHEAD. THAT'S UNLIKE THE CROWD		
	MAY BE SO THE CR SOUNDR ISN'T REACH THE CENTER. BUT		
	THE MIDPOINT OUTBOUND MAY BE.		
"CR" SOUNDR #3 2152Z	CR SOUNDR CH3	21°41' / 75°58'	→
MP SE SOUNDR #4 2207Z	MP SOUNDR CH4	21°12' / 75°04'	
EP SK SOUNDR #5 2219Z	EP SOUNDR CH5	20°42' / 74°15'	
2225Z	TURNING DOWNWIND.		
	PAINTING THE PRECIPITATION ONLY THE WE WENT THROUGH - DEFINITELY		
	A MIDLEVEL CENTER.		
	AND THE SURFACE CIRCUMSTANCES MAY BE THERE		
EP NE SOUNDR #6 2259Z			
EP NE SOUNDR #7 2300Z	BACK AT NE EP	22°51' / 73°30'	
MP NE SOUNDR #8 2313Z	MP NE CH8	22°0' / 74°24'	
CR SOUNDR #9 2327Z	CR AT MP CH	21°7' / 75°6'	
MP SOUNDR #10 2340Z	MP OUT NW	21°52' / 75°43'	
	SO GET 2 GOOD LOOKS AT THE PRECIPITATION		
	WAS WERE WORKING A MIDLEVEL CENTER		
	THE LLC IS STILL WEST OF CR, BUT ALL NOT TOO FAR		
	OFF TO THE EAST OF US. SO MORE CONVECTION NEAR THE		
	SURFACE CENTER.		
EP SOUNDR #11 2353	EP NW END OF NW OUTBOUND CH 3	22°32' / 76°18'	

SOME RESULT GOOD LOOKS FROM THE TOP TODAY.

0118 Z LANDING