Lead Project Scientist

Date 8/15/21

Flight ID 2021091511

Storm or Project ALO7/GRACE

Experiment name NHC Fix

Mission ID 0207A

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Pre-fli	gnt	
	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 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-Fli	ght	
	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-f	light	
	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 ren	noved 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	ALDA	1	GRACE
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Experiment name NHC Fly

Flight ID

Mission ID

0207A

20210815 I1

A. Participants:

Evention	Participant	Function	Participant
Function Lead Project Scientist		Flight Director CARPENTER	
Radar REASOR Workstation		Pilot MITCHEL/LEGARECE Pilot	COPARE
Cloud Physics Dropsonde Servoo	งก	Navigator FREEHAN Systems Engineer	
Dropsonde AXBT/AXCP	. •	Data Technician MASCARO Electronics Technicians	
Observer/Guest Observer/Guest		Flight Engineer Ones /	WYSINGER

Take-Off: <u>1553</u>	UTC Location: ARUSA	4.6 M	FUGIT	TIME
Landing: 2031	UTC Location: ARUTA			
Number of Eve Per	netrations:			

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
1	17.2 N	66.0 W	1010	35 KT
15 / 15002				
/				
			 	
/				
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D. Mission Briefing:

NHC FIX MISSION WI POTENTALLY 3 PASSES NW > SE NE + SW, THEN ANOTHER PASS IMPROVISED. SOWOFE. OR DAY OF ENDOUND AND CEVER.

STORM IS STILL GUITE DISTRIGAMEND. LOOKING AT POSSIBLE MLC THAT A BROWN LLC WINCH MAY BE FURTHER SOME THON EXECUTION. LOTS OF DEB CONVECTION, BUT WERE 15 IT IN REVALUE TO THE CIRCULATIONS.

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Storm or Project	Experiment name	
Flight ID	Mission ID	
1.75		

$E. - Equipment \ Status \ (Up\ U, Down\ D, \ Not\ Available\ N/A, \ Not\ Used\ O)$

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA				
Cloud Physics			ļ	
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

REMARKS:

Flight ID

LPS Zawsok

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Flight ID

LPS

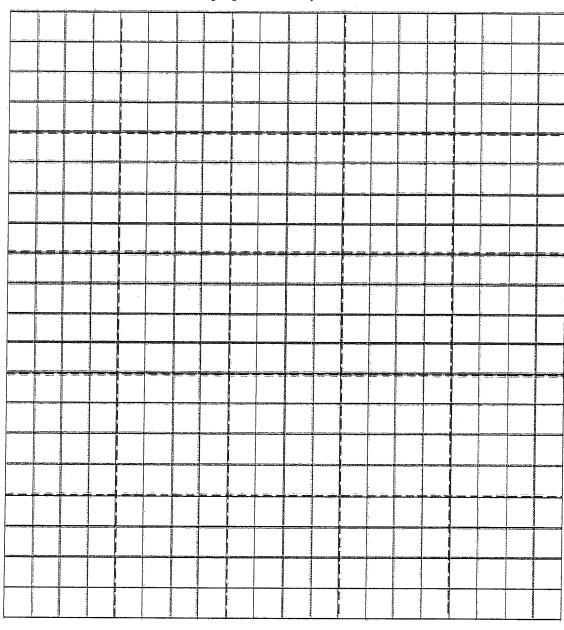
Time	Event	Position	Comments
	٧		

Flight ID

LPS

Time	Event	Position	Comments
-			

Use highlighter to draw freehand on chart



Longitude (°)

Mission Summary

Lead Project Scientist Radar Scientist Cloud Physics Scientist Dropwindsonde Scientist Boundary-Layer Scientist Workstation Scientist Observers (affiliation) Mission Briefing: (include sketch of proposed flight track or page #) Mission Synopsis: (include plot of actual flight track) Evaluation: (did the experiment meet the proposed objectives?) Problems:(list all problems) Expendables used in mission: Deployed Good Bad GPS sondes: AXBTs: Sonobuoys: UAVs

Scientific Crew (4 RF)