# **Lead Project Scientist**

Storm	ı or P	Project Gordon Experiment type NHC 106 Engl	
Flight	t ID _	20180904H2 Mission ID	
Prefli	ght		
	1.	Participate in general mission briefing.	
	2.	Determine specific mission and flight requirements for assigned aircraft from the Field Pr. Director.	rogram
	3.	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.	
	4.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.	
	5.	Determine from AOC flight director the mission designation and whether aircraft has operation responsibility	nal fix
	6.	Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of requirements and provide a formal briefing for the flight director, navigator, and pilots.	f flight
	7	Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Direct	ctor.
	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drops.	
	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 ca and speak using the headset.	ın hear
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.	Request AOC flight director to leave radar in non-sector mode for initial Figure 4.	
	5.	Once at IP, request AOC flight director adjust radar tilt to minimize sea clutter.	
1	6.	Complete Lead Project Scientist Form.	
	7	Check in occasionaly with the flight director to make sure the mission is going as planned (i.e. turns are when they are supposed to be made).	e made
Post fl	light		
1	1.	Debrief scientific crew	
	2.	Gather completed forms for mission and turn in to data manager at HRD.	
	3.	Obtain a copy of the Dropsonde raw and processed files from the AVAPS operator on thumb drive.	
1	4.	Obtain a copy of the radar LF files from the radar technician on thumb drive.	
	5.	Obtain a copy of the tar'ed radar TA files from the radar scientist on thumb drive.	
1	6.	Obtain a copy of serial flight data and raw NetCDF file on thumb drive from the data technician.	
	7	Obtain a copy of SFMR data on thumb drive from the data technician.	
	8.	Obtain a copy of DMT data on thumb drive from the data technician.	
1	9.	Report landing time, aircraft, crew, and mission status to the Field Program Director.	
	10.	Determine next mission status, if any, and brief crews as necessary	
	11.	Prepare written mission summary using Mission Summary form.	

#### **Lead Project Scientist Check List**

Function Participant Function Participant  Lead Project Scientist Radar/Workstation  Christophersen Pilots Price Abitbul Richards Price A		HRD		AOC
Radar/Workstation  Radar/Workstation  Radar/Workstation  Radar/Workstation  Radar/Workstation  Radar/Workstation  Radar/Workstation  Ravigator  Systems Engineer  Data Technician  Mascarb  Heystek/Sanch  Mascarb  Description  Data Technician  Mascarb  Heystek/Sanch  Mascarb  Chard, Sapp, Zawislak, Desolo  Rake-Off and Landing Times and Locations:  Pake-Off: 22   UTC Location:	Function Participant		nt Function	Participant
Radar/Workstation    Rogers	Lead Project Scien	tist Christophers	Flight Director	Tan Sears
Navigator Systems Engineer Data Technician  Dropwindsonde AXBT/AXCP Photographer/Observer s/Guests  Charg Sapp Zawslak De 5010  B. Take-off and Landing Times and Locations: Cake-Off: 221 UTC Location:  Landing: \( \subsetem \) UTC Location:  Landing: \( \subsetem \) UTC Location:  Landing: \( \subsetem \) Latitude   Langitude   MSLP   Maximum	Radar/Workstation			Price.
Cloud Physics  Systems Engineer  Data Technician  Mascarb  Dropwindsonde  AXBT/AXCP  Photographer/Observer  S/Guests  Charg, Sapp, Zawislak, De 50 lo  B. Take-off and Landing Times and Locations:  Cake-Off: 22   UTC Location:  Landing: 565 UTC Location:  C. Past and Forecast Storm Locations:  Date/Time  Latitude  Langitude  MSLP  Maximum		O	Navigator	
Dropwindsonde  AXBT/AXCP Photographer/Observer s/Guests  Chang, Sapp, Zawolak, De 50 to  Chang	Cloud Physics			
Dropwindsonde  AXBT/AXCP  Photographer/Observer s/Guests  Charg, Sapp, Zawidak, De 5010  B. Take-off and Landing Times and Locations: Cake-Off: 221 UTC Location:  Location:  Location:  C. Past and Forecast Storm Locations:  Longitude MSLP  Maximum				HEYSTER/SUNOW
AXBT/AXCP Photographer/Observer s/Guests  Charg, Sapp, Zawislak, De 50 lo  3. Take-off and Landing Times and Locations: Cake-Off: 22   UTC Location: LAL  anding: 505 UTC Location:AL  Sumber of Eye Penetrations:  C. Past and Forecast Storm Locations:  Date/Time Latitude Longitude MSLP Maximum	Dropwindsonde	Haralton	Electronics Techn	nician Mascarb
Photographer/Observer  s/Guests  Charg, Sapp, Zawislak, De solo  3. Take-off and Landing Times and Locations:  Cake-Off:Z2   UTC Location:  anding: UTC Location:  Sumber of Eye Penetrations:  C. Past and Forecast Storm Locations:  Date/Time	A VDT/A VCD	1 wellow	0.1 A. M. X	ansalms II lass and
A. Take-off and Landing Times and Locations:  Sake-Off: 22 UTC Location: LAL  Landing: Sof UTC Location:  Sumber of Eye Penetrations:  C. Past and Forecast Storm Locations:  Date/Time Latitude Longitude MSLP Maximum	AXB1/AXCP		Other Avoys	Operator: What work
	Photographer/Obses/Guests  7. Take-off and Latake-Off:22   _1 anding:5651	anding Times and Laure Location:	ocations:	Ofer caron. Whater cooper
	Photographer/Obses/Guests  Take-off and Laake-Off:22  Uanding:	anding Times and Laure Location:  etrations:  st Storm Locations:	ocations: AL	Mayimum
	Photographer/Obses/Guests  Take-off and Laake-Off:	anding Times and Laure Location:  etrations:  st Storm Locations:	ocations: AL	SI P Maximum
	Photographer/Obses/Guests  3. Take-off and Lacake-Off:	anding Times and Laure Location:  etrations:  st Storm Locations:	ocations: AL	SI P Maximum
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Storm or Project Gordon	Experiment name NHC Tasking
Flight ID 20180904 H2	Mission ID
E. —Equipment Status (Up ↑, Dov	vn ↓, Not Available N/A, Not Used O)

## 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	1			
Doppler Radar/TA	1			
Cloud Physics				
Data System	1			
GPS sondes	1			
AXBT/AXCP				
Ozone instrument				
Workstation	1			
Cameras	1			

**REMARKS:** 

#### Lead Project Scientist Event Log

Date \_\_\_\_\_\_Flight ID\_20180GOLHZ\_LPS\_Ohnstopherson\_

Time	Event	Position	Comments
21-50	Some crack on the	outside of the plane,	easy fix
2211	Take off		
2220	Gordon on wsr8	go radar shown a b	roading of the convection
	close to center,		0
2300	TP, descend to	lokft	
2311	Drop 1. SE eno	I pat, track 315°	
2336	29°42, 87°52'	senter drop	
2347	NE track 45°, [	10p3	
3929	250, 87,23, 1	1004 center dro	2,
	Storm kenter has	noved NEabit from	the previous pass
	SFMR nut record	of getting surface i	inds be close for land??
	Mike said it still	records brightness t	emperature .
0034	Drop 5 end p	nt	
0100		drop, 29°59°, 81	103'
0103	Drop 7, max		
0110		NE side of the s	Sm
	Just south of Re		
11/16		ast drop ( Forom.	(an)
8110	mex wind sonde	, Prop 8	
1/22		30° 1. 88°7! Prop	
0149	literal for 3	irdes, now head	back in track 90°
0/54	3007/08814	center drop. Dro	210
6217	some ebkm ec	nos to the NE sic	le of storm, thight
	level winds 50		V
0219	30°7 88'21" C	enter drop. Prop	16
0248	Track 770°	st passes!	
050	Track 90,	9thpasses now	



1 200#

Surfore pressure 1000; what 23kt

1145° tilted storm



# Lead Project Scientist Event Log

Date	Flight ID_	20180904HZ	LPS_C	hristop	horsen.
	_			- 8	

Time	Event	Position	Comments
0313	3018'88'27' 3	cost mark center	SEN
	LOOKS WE - LR	Atoms wake land f	all near that point
0345			offshore convection much
0355	3005 877	~ 10 miles at the 1.	
	the rainband		0 1
0355	3012°. 87°7'	Prop 11 Sonde 10	Cor the module
8280	303' 87'2'		for the modele
0402	29°53' 8651	Drop13. sonal (	I forthe module
	Module was a	onducted just south	of pensaule,
	Fhash warn	ing has been issued for	r Ho area
040	end the mode	ule .	
	climb up and	len vt home	
	V and the second		

# Mission Summary Storm name

### YYMMDDA# Aircraft 4\_RF

Scientific Crew (4 RF)
Lead Project Scientist Christophersen
Radar Scientist Rogers
Cloud Physics Scientist
Dropwindsonde Scientist Hazelton
Boundary-Layer Scientist
Workstation Scientist
Observers (affiliation) Change NESDIS) Sapp. (NESDIS)
Mission Briefing (include sketch of proposed flight track or page #)  Left was the plan after delarief. Mic adjusted pattern.
tet was the plan after delerief, Mic ody voted pattern.
or other TD Look in 227 to mover, then NEOUX,
Track west to the NW side of the Storm, Head Duck on
conter, then repeat NE > W > SE > conter > NE
Mission Synopsis. (include plot of actual flight track)
Actual track is SE side of the storm - center - NE out
Then many w>E>W passes for the conter fixes
Then planop 3 more sondos to offshore intende convection module
Evaluation. (did the experiment meet the proposed objectives?)  It is the tasking. I believe all object are meet,
We got some chance to do a module!
Problems:(list all problems)
None

Expendables used in mission.

GPS sondes \_\_\_\_\_\4

AXBTs .\_\_\_\_\_\0

Sonobuoys: