Lead Project Scientist

Date 8/29/19 Storm or Project Doxion Mission ID

Flight ID 1908 29 H 2 Experiment name TOR

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 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	A
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 Dorian

Experiment name

Flight ID 1908 29 47

Mission ID

A. Participants:

Function	Participant	Function	Participant
Lead Project Scientist	Rugers	Flight Director Por	ish Corpenter
Radar Hazelta	M	Pilot Kibbey,	.5 .) Cal
Workstation		Pilot Kahn, Ross	;
Cloud Physics —	_	Navigator Richor	İş
Dropsonde Selly	oud	Systems Engineer	ek
Dropsonde		Data Technician Me	Histe
AXBT/AXCP —		Electronics Technicians	
Observer/Guest How	se statters	^ .	
Observer/Guest 900	PINESOIS	Flight Engineer	4

B. Take-off and Landing Times and Locations:

Take-Off: 8057 UTC Location: Labeland

Landing: 0454 UTC Location: Lakeland

Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
1				
1				
1				
1				
/			*	30.

D. Mission Briefing: Conduct TOR mission, who then Dorian, approaching the CE Balamas as a 75-kt-cat. I. Dorian has been andually get the diserter presented as its truggles with some possible shoot and remnant dry oir, storm is a untermal. It was mission found a 15 nm Raw and control wind max extrass a untermal. Exc. Eye has yet to clear out; it was during this this lis suggestive a possible ERC. Eye has yet to clear out; it was during this this is if outer eyeurly contracts. Environment is expected to improve our vext 24h, RI is if outer eyeurly contracts. Environment is expected to improve our vext 24h, RI is if outer eyeurly contracts. Environment is expected to improve our vext 24h, RI is if outer eyeurly contracts. Environment is expected to improve our vext 24h, RI is if outer eyeurly contracts, Environment is expected to improve our vext 24h, RI is if outer eyeurly contracts, Environment is expected to improve our vext 24h, RI is if outer eyeurly contracts, environment is expected to improve our vext 24h, RI is if outer eyeurly contracts, environment is expected to improve our vext 24h, RI is if outer eyeurly contracts, environment is expected to improve our vext 24h, RI is if outer eyeurly contracts, environment is expected to improve our vext 24h, RI is in the environment of
Storm or Project_	Donan	Experiment name TO	2
Flight ID 1908	2947	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	V	The Committee of the Committee of the		
Doppler Radar/TA	J			
Cloud Physics	V			
Data System	V			
GPS sondes	U			
AXBT/AXCP	NIA			
Ozone instrument	NIA			
Workstation	N.	and the second s		
Cameras	Ü			

-	-	# A	\mathbf{r}	TZO
v	H. IV	Λ	v	KÇ.

Lead Project Scientist Event

Date 8/29/19

Flight ID 190829 HZ LPS Rogers

Time	Event	Position	Comments
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2327	665	interned lea,	widespread strati
	· //	N 75 mm	arried us no edu
	115		fups higher-from & ki
		Some sh	allow Modeste convet
*		in this out	bound
2336	drop 2	midet, NW,	PL 18,5F18m/s
		us nu from it	to the second second
2340	065	25 NW NWEST	gotellite suggests
		Source	
2396	855	1 Sun from of	multiple bonds on
			affire Powel war
De		high reflect	ivity on W site
2350	drap 3, centr	- 22,20, 62,28,	expowall open on SES
4		Me asy	metry w'red. wax out
1	100	consistent w/	
2359	obs	protound instis	de peak FL winds we
-			no trousE, peak sf
- CAP		were 801	
2003	drop 4; wid	45 am SE	FL 18, 3F 17 m/s
0605	פלט א	outs only to &	cent draps housed
		winds of 16 tet	from 130, suggestin
-		of con when orally	, i.e., tit toward working
	1	ru height also cons	istart w/S sheet
0014	drop 5, end	out S E a ann	PL 16,8F17,11/s
0036	drip 6 perd	ROUM NE	FL19, 5F17m/s

22.9 22.9 22.80 67.58

Time	Event	Position	Comments
0037	obs	gourNE.	1 feet, shows cloud
L 121	1.		ld moving back over broad
			ar; suggesting some
NA B	Alle La	convertion p	possidy gething upshey
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0052	dos	NZSNUNF	let presentation sho
	1.05,45 1	openegen	all SE, multiple bould in
J 1 3	30 T	features or	
2057	(NES PLS)	NE eyemall	419F48FL
	(NES DIS)		
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0118	oss	nearswand	todal assume of premip
N. C.	1 1		out here
0120	dop 10, and	gu end st	FLIE, SF 10 mls
0139	drap 11, and	Sempt	PL 12,54 10mb
olus	gh's	insometer S	shallow convection in
	1	an	A STATE OF THE PARTY OF THE PAR
0148	0/5	50 KM SOFOT	
93	8.6.4	oulk	little Holation of
		precip; no	office alft(smultipe?)
AV CTO	days 12, mid	Swaren, a	FLID, SF16m6
0156	dos , mig		
0(10	02	~ 25 NM SSE	solid-looking stratifica
		a mile so	y stals at 12-14/our
THE STATE OF THE S			
			lar bond just outside
		11 2 Edange	Jan - and Just am state

23°00 68005'

LPS

238 68°19'	•		_		\sim
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Time	Event	Position	Comments
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0210	drop15 CNESCIS)	Northand	way chrafter where wis
100 100 100	CLES OIS)		
2120	data		lost telemony for but
	The Control of the Co		Araps 13, 14 for nos FL 24, SF 14 m/s FL 17, SF 12 m/s
0213	drop 16, hid	90mm N	FL 24, SF 14 mls
	drop 17, and	90mm N	FL 17,5812MS
0454	drop 15, did drop 17, and land		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
F NAC TO			
19 19			
			The Control of Marie
3/:			
U.			P. L. C.

Mission Summary

Scientific Crew (4 RF)

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 #)

see pocurious

AXBTs:

UAVs

Sonobuoys:

instruments a	worked well attacky show the of the	of, worder is	of French of confer a TDE	en pathrnasplomed. All in better everal and, externa was en on SE, other insuremental of the toward	5/5
Fittisat is so missions a fransatted, l	valuation: (did the way success Torops bu	the experiment meet the ful, TO Lonalyse webs. 2007	the proposed objective s crade. s lost the metry	filling in svallowland could up seen winds up near 90 to	מל
n lower batt. G Pr 2d		of a TC orsi mobilems, hear, clearly (tast ey		Exturgive bounding features on limited precipions except no context.	N
Εχ	spendables used		Good 15	Bad 2 (hating down)	