Lead Project Scientist

*

2

Date	9-	5-19 Flight ID						
Storn Missie		roject Dorlan Experiment name FIDR - ocean winds 19090542						
Pre-fi	ight-							
	1. 2.	Participate in general mission briefing. 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.	in a copy of serial flight data on thumb drive. Turn in with completed forms.						
[Note: all	data ren	oved 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

Experiment name

Flight ID

Mission ID

A. Participants:

Function	Participant	Function	Participant	
Lead Project Scientist Dunion Radar Rogers Workstation Cloud Physics		Flight Director Lundry Pilot Kibber Pilot Mitchell, Deventus Navigator		
Dropsonde Duhl		Systems Engineer		
Dropsonde Underw	0000	Data Technician		
AXBT/AXCP		Electronics Technicians		
Observer/Guest		10 a 10 a 10 a 10 a		
Observer/Guest		Flight Engineer		

B. Take-off and Landing Times and Locations:

Take-Off: 0820 UTC Location: LAL Landing: 1540 UTC Location: LAL

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
/				
/				
1				
1				0
/				

D. Mission Briefing:

Conduct TDR mission into Humane Dorian. The solorm has beyon it's truck to the N and is Forecast to brush the Curolma coast before heading out to sea. The storm structure has looked better overnight and is now laweak cat 3 (100 kt/115mph). The eye diameter is now ~ 35-45mm across, Plans include 105mmi legs, possibly extending option for a landfall module (SFMR) but are not certain at +/o If coustal teoms are set

Storm or Project_

Experiment name

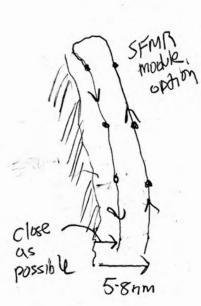
Flight ID

Mission ID

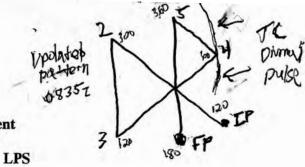
E. - Equipment Status (Up U, Down D, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA	1		14.	
Cloud Physics			and the state of the	
Data System				
GPS sondes				-
AXBT/AXCP			1.5	
Ozone instrument				
Workstation				
Cameras			a sugar and and a second	· · · · · · · · · · · ·

REMARKS:







Lead Project Scientist Event

Date

Flight ID

Time	Event	Position	Comments
08202	4/0	LAL	
08352	puttern change	SW of only IP	num comer of pattern > sever
		5	FO concerns of gotting boxes
09002	NHC 50m - 1000	,010/6K+, 50 nmi	exe
0917	drop	IP.(SE)	. /
0931	drop	mid se-ctr	
0938	SE eyewall	- 55	open ·
094333	ctr	31.74N 79,46	no fix or drop ~959 mb
0955	otrop	WR2 (NW)	
1019	drop	WP3 (SW)	no launch detect, backad,
1030	problems setting		resetting SW IP
1038		1P: 31.40 80,62	5
1049	diop	mid WP3-ctr	
1057	ctr	31,95 79.35	
	drop	miol (ctr-NE)	
	gorp	WPY	outer
	Break puttern, .	tum SE to follow	te Divrnal pulse / band
1136	riding outer ban	drop 6	HED sonde SSE-NW
1140	A 11	drop	17 11 SSE-NNW
14.1	dirap	WP 4	
11592	Ctr	32.12 79.19	1.75
-			1.1
1211	WMM reset by F	P	going out issues for all
13	mid	Ctr-FP	delayed to clear co
1226	Brop	FP /	· · · · · · · · · · · · · · · · · · ·
1226			move to NESDISOCON W
1			

ocean winds

solution for next time: stop sending wmo's, Check with Care me: hittes + wmo ob #, send with adjusted ob # if needed

Lead Project Scientist Event

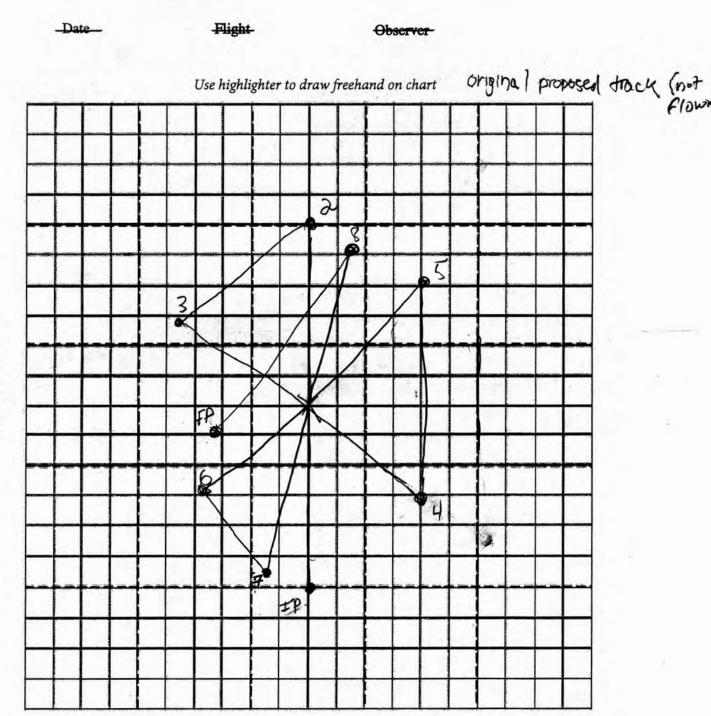
Date

1

LPS

Time	Event	Position	, Co	mments
1243	indound 320°	SE-Ctr	NESDIS Ocean Wints	
125	drop	RMW		1
1253	drop	inside edge of RMW	/ .	V
1259	- ctr	32,25 79,20	R int	
1302	outbound 127°		outbound to	inbound sonal
1310	tracking 20° in	moat at R~35 nm		2
131)	inbound 280°			
1314	drop 280°	RMW		
320	ctr	32.35 79,18		
1327	autional 100°			
1333	inhound 260°			
1336	RMW-ENE	a tong a serie to		
1343	ctr	32.32 79.18		
1346	overbound 60°	1		1
1359	inbound 200°			
1400	sonde	RNW		
1401	sonde	inner edge RMW		
1406	Ctr	132-4 79.1		
1410	pund fro			
1415	rmw 20°			
	inbound 180			
1429	ctr	32.38 79.09	-	
1429	oxtbound 220°			
1433	RMW		'	
				V
	~			

Observer's Flight Track Worksheet



Longitude (*)

Latitude (*)

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 #)

adjusted track Mission Synopsis: (include plot of actual flight track) bevere way + land in ww corner of original Padtery (P7) required track Changes. Adjusted) track completely to remove NW P7 and any N-NW-W down wind legs. Added are cloud module 240 Evaluation: (did the experiment meet the proposed objectives?) Yes, 3+ The test Flown winny required restarting 2x, which throw Appen who messages off sequence. This required several CCA messuges.

Problems:(list all problems)

Expendables used in mission:

	Deployed	Good	Bad
GPS sondes :	21	20	1
AXBTs :	NA		
Sonobuoys:	NA		

UAVs NA