Lead Project Scientist

Storm	or P	Project MATIHEW Experiment type IPR
		2010100571 Mission ID WC14A
Preflig	ht	
	1.	Participate in general mission briefing.
	2.	Determine specific mission and flight requirements for assigned aircraft from the Field Program Director.
	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 operational fix responsibility.
	6.	Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of fligh 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 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 can hear and speak using the headset.
In-Flig	ht	
	1.	Confirm from AOC flight director that satellite data link is operative (information).
<u> </u>	2.	Confirm camera mode of operation.
<u> </u>	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.
	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 made when they are supposed to be made).
Post fli	ght	
	1.	Debrief scientific crew.
<u> </u>	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.
	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.
	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.
	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

Storm or Project Mathew	Experiment name (DK		
Flight ID 2016 1005I1	Mission ID WC14A		
A. Participants:			

HR	D	AOC	
Function	Participant	Function	Participant
Lead Project Scientist	Bucci	Flight Director	Sears
Radar/Workstation	christophersen	Pilots	Price, Abribol dider, Rees
		Navigator	Siegel
Cloud Physics		Systems Engineer	
		Data Technician	Mascaro
Dropwindsonde	Alaka	Electronics Techn	rician Richards
AXBT/AXCP Photographer/Observer s/Guests	Komisarjevsk Shittko	Other Lynich under	n, san souci, erwood, chang

B. Take-off and Landin	g Times an	d Locations:	
Take-Off:UTC	Location:	MacDill	_
Landing:UTC	Location:		
Number of Eye Penetration	ons:		
C. Past and Forecast Sto	orm Locati	ions:	

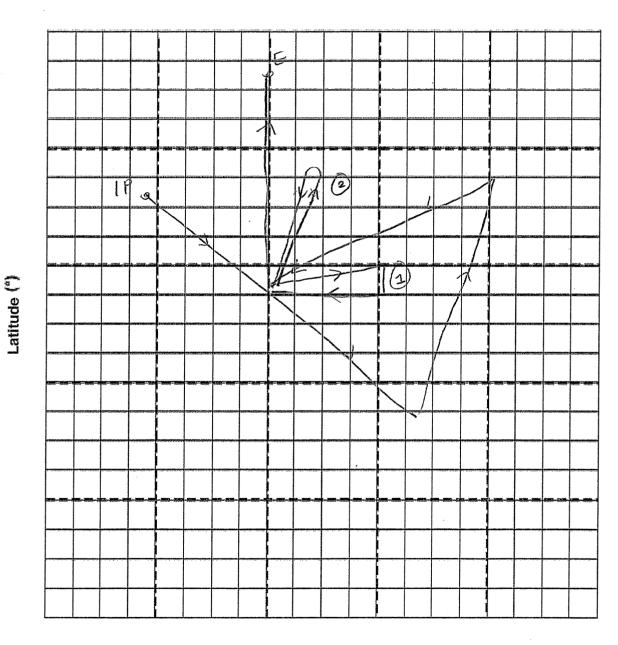
	Date/Time	Latitude	Longitude	MSLP	Maximum Wind
Ì					

D. Mission Briefing: Alt: 7000 radar modules: Ocean winds
Hurricane Matthew is a category 3 storm moving NNW out 7kts
It is just north of the SE tip of Cuba under 10-15kts of NW
Shear. After it's interaction with Haiti and Cuba, the circulation
has been disrupted and based on radar, the eastern eyewall remains
entact. Pattern is a butkerfly, will truncated southern logs. Drops @ end pts.

Lead Project Scientist Event Log

Date Oct. 5, 2016 Flight ID 2016 1005 II LPS Buca

Time	Event	Position	Comments
0603	engine 4 not s	tart MacDill	late take off
0702	take off	MacDII	
0907	FOUO	24°11'N 78°15'W	FD Station divot
0855	continue to IP		, ,
0930	drop 1	<u>IP</u>	
0955	censer dro2	al°15' 74°37'	
1025	end aropy end aropy max wind ano	end pt 201914 7.	3 15
10 48	end arop4	NWpt	
41113	max wind anp	5 inbound	50.3 m/s
1117	center u	2122 740461	NHC
1123	max wind 7	outbound	Che no
1143	Max wind 8	in bound	chang
1200	max wind days	a outbound	chang Chang
1304	end drap	N	
	•		
Radials	•		
l	1117 -> 1147		
2	1158 -> 1222		



Longitude (°)

Mission Summary Storm name YYMMDDA# Aircraft 4_3RF

	Scientific Crew (43RF)
	Lead Project Scientist Bucl
	Radar Scientist CHRISTOPHER SEN / GAMACHE
	Cloud Physics Scientist
	Dropwindsonde Scientist A LA KA
	Boundary-Layer Scientist
	Workstation Scientist
	Observers (affiliation)
Mission Br	iefing: (include sketch of proposed flight track or page #)
*	
Mission Syn	nopsis: (include plot of actual flight track)
	in not far enough off shore to have a

extend. Completed Xs, down, inbound, the did

Evaluation: (did the experiment meet the proposed objectives?)

a Ocean wind radious, out bound to north

Problems:(list all problems)
- Engine 4 dudn't stort
- FOUD (dew pt sensor)
Expendables used in mission:
GPS sondes: 10
AXBTs:
Sonobuoys:

southern