### Lead Project Scientist

	Project Purific Experiment type   DC
Flight ID	170964H1 Mission ID
Preflight	The state of the s
1.	Participate in general mission briefing.
2.	Determine specific mission and flight requirements for assigned aircraft from the Field Progra 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.
_V_A.	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 fresponsibility.
6.	Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flig requirements and provide a formal briefing for the flight director, navigator, and pilots.
<u> </u>	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.
<u> </u>	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 he and speak using the headset.
ı-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.	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 mawhen they are supposed to be made).
ost flight	
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.
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.
	Obtain a copy of SFMR data and law NetCDF file on thumb drive from the data technician.
8.	Obtain a copy of DMT data on thumb drive from the data technician.
	and the state of the
9. 10.	Report landing time, aircraft, crew, and mission status to the Field Program Director.
	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_	Irma	Experime	ent name	2
Flight ID 17090	14H1	Mission II	D	
A. Participants:				
	HRD		AOC	
Function	Particip	oant Function	o <b>n</b>	Participant
Lead Project Scien	tist Rogers	Flight I	Director	Ho lups
Radar/Workstation		. Pilots		
				Cibber, Kahn, Ruckman
		Naviga ———		reewas
Cloud Physics			s Engineer	Nactor
		Data Te	echnician	Richards
Dropwindsonde	Sellwoon	Electron	nics Technician	
AXBT/AXCP	Sell wood		· · · · · · · · · · · · · · · · · · ·	
Photographer/Obse s/Guests	erver			Į.
s/Guests				
B. Take-off and La	nding Times and	Locations:		
Take-Off: 0650_U	UTC Location:	Borlsudas		
Landing:			<u>-</u>	
Number of Eye Pene	etrations:			
C. Past and Foreca	st Storm Location	ıs:		
Date/Time	Latitude	Longitude	MSLP	Maximum Wind

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
	.*			
	-			
	. "		,	

D. Mission Briefing: Rectorn TOR mission into Murricome It may a footot universal a relatively steady muricone approaching the northern Demand islands. Storn has worntained a relatively steady intensity for past 48 h, in presence of light to workerste northerly shear and some dry air in the forecast to continue tracking south of west, showly intensitying.

The vicinity forecast to continue tracking south of west, showly intensitying.

The rotated Az-4,105 um legs, in our SE, FPM which Drop soules at all temporates and contentions. Drop sonde/BI combos at max wind on SE, NW, SW, NE legs. fathern has been rotated us degrees contended wind to first SE-NW pass with Crops soverfuss. 10,000 ft.

Storm or Project	Experiment name
Flight ID 1709 ougg	Mission ID
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	V			
Doppler Radar/TA	/			
Cloud Physics	V			
Data System	<i>\sigma</i>			
GPS sondes	/			
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras			1 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	

#### **REMARKS:**

#### Lead Project Scientist Event Log

Date 9 (4/17 Flight ID 170904111 LPS fugers

Time	Event	Position	Comments
0650	takest	TBPB	
0825	065		a approaching (Pon SE
	•		appreciable precipentus
		Side.	CF showever well, IR sat
		Show	s eye warmya
0836	062		center boles to be a
			forther setuce west
		than	what was productor
0835	patton	at 1°	tunto track 315
0890	Lope (HFIP)	105 MUSE	FL 3575F 3069
0848	obs	~85 nm SE	coming a pour broad
		pr	thrown on LFS none rooter,
10		54ca	Aform on LFE nose radar,
-	Δ		supports that to
5902	drop 2, BT	5 E eyewall	FL110, 5F100 Et,
			closed eyerall
0904	drop 3, center	160 47 5206	extrapaya mb
0907	drip 4, BT	UN eyowell	FL 110, 5F 90 kt,
			fust fall
0914	* obx	NW of conter	neither BT worked
0716	obs	NM of confer	see indications of local
			ter wind maxing on both
			+ Musides, stronger
			- core wind field on MW
		Site	- C: - 1.C
0 929	Ono 5	105 am Nw	spassed to west of outer
0946	065	annum legonis	hand I f shows close land

band, Lf shows clear landing, forsible concentric eyerrals. I were eyerrall open to west

## Lead Project Scientist Event Log

Date aluly Flight ID 170904H LPS Roger

Time	Event	Position	Comments
1003	W 0 6	105 mm SW	PLUOS TO Ed
1015	Mission	250 nu SW	howing veturating issues,
rors		-	issues with seb. rogangor
10 25	drp7,13+	swegarall	FULLOW, SP 90, 270
10 27	drop 8	center	116 97 52 21
1029	Jap a,BT	NE-eymall	110 HT, 5F90, BTA
	1 21		no lauch dot of fast fall extending log to M.
1052	pattern	105 nmWE:	extending log to Min
105	1	ext	maine buch a shewing 6
-			NE sido
1054	drop 10	105 nm NE	FL80, SF25 Et
1015	drap 11	105 nm N	FL 50,5F 25 Kd
1129	06	~55 min	LF shows not sprad
			agricults to privary
		Cyen	all on east sido, looks
	-	1.6 v	yst active convectmen
			of side, on N side ( spsho
1135	055	~ YOUNN	passel throughouter,
		com	rective pursion of bourd,
			waxiv Flunds
1141	055	16°46/52°35'	pak FL 115, sf 100 bt
1143	cute	16°46/52°35	
1157	obs	GOUM Socusto	extusive sweld of
1177			procipan S side,
		another	load maximum in precip
1209	drup 12	105 nm 5	FL 25, 5F20
1.13			

# Mission Summary Storm name YYMMDDA# Aircraft 4≥RF

Scientific Crew (47RF)

Dropwindsonde Scientist Sulvoyd

Lead Project Scientist
Radar Scientist\_\_\_\_\_

Cloud Physics Scientist

Boundary-Layer Scientist\_ Workstation Scientist\_ Observers (affiliation)\_\_\_\_

Mission Briefing: (include sketch of proposed flight track or page #)
see previous
Mission Synopsis: (include plot of actual flight track) Flow wission as flawood. Sform fixes
provinced osymmetry in order care precipitation to the south side, precipitations well good confirmed decay of during configurations of provinced osymmetry in order care precipitation to the south side, precipitations well good configurations of eyewall replacement cycle, inner radius 15 mm, order replacement cycle, inner radius 15 mm, order replacement cycle, inner radius 15 mm, order configurations of south south order and side of the province of the standard of the south of the south of the configuration of the south
Cityut. Stranges all but two worked; only on N side. In sordes dropped, all but two worked; only
Evaluation: (did the experiment meet the proposed objectives?)
Marcam did succeed four analyses control and questionable.
transmitted. His wed first pose a functioned and all red City
set sstor ocemprofiles in 3 of 4 quadrants
Set set or ocem profiles in 3 of 4 quadrants.  Problems: (list all problems)  No real problems, except for some networking is sues  Corly in the Plight that were resolved. April 15% BT tailure rate.
Costy in the Plight that were resolved. And 15% BT Failure rate.
Expendables used in mission:  GPS sondes: AXBTs:

Sonobuoys: \_