		roject IRMA	Experiment type TOR
	Flight ID	20170905H2	Mission ID LOILA
	Preflight		
	1.	Participate in general mission b	riefing.
	2.	Determine specific mission as Director.	nd flight requirements for assigned aircraft from the Field Program
	3.	Contact HRD members of crew a. Assure availability for mis b. Review field program safe	sion. ty checklist
		<ul><li>c. Arrange ground transporta</li><li>d. Determine equipment stat</li></ul>	tion schedule when deployed. 18.
	4.	Meet with AOC flight director	and navigator at least 3 hours before take-off for initial briefing.
	5.	Determine from AOC flight di responsibility.	rector the mission designation and whether aircraft has operational fix
	6.		least 2 hours before take-off for crew briefing. Provide copies of flight nal briefing for the flight director, navigator, and pilots.
	7.	Report status of aircraft, system	ns, necessary on-board supplies and crews to Field Program Director.
	8.	Before take-off, brief the on-bo	ard GPS dropsonde operator on times and positions of drops.
	9.	Make sure each HRD flight cre	
	10.		eck with all HRD flight crew members. Make sure everyone can hear
8 - 10 8 - 10	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.		ve radar in non-sector mode for initial Figure 4.
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	5 N (1) 2 5,200		ector adjust radar tilt to minimize sea clutter.
	6	Complete Lead Project Scientist Fo	
ang		C CONTRACTOR OF CONTRACTOR	th director to make sure the mission is going as planned (i.e. turns are made
	Post flight		
	The second se	Debrief scientific crew.	
	1. 2.		n and turn in to data manager at HRD.
	√ 3.		w and processed files from the AVAPS operator on thumb drive.
			from the radar technician on thumb drive.
	$ \begin{array}{c} \checkmark & 4. \\ \checkmark & 5. \\ \hline & 6. \end{array} $		A files from the radar scientist on thumb drive.
	3.		
	6.		nd raw NetCDF file on thumb drive from the data technician.
	$\frac{\sqrt{7}}{\sqrt{8}}$	1.	und drive from the data technician.
		Obtain a copy of DMT data on thu	
	9.	1 0	and mission status to the Field Program Director.
	<u> </u>	아파님 것 이 없을 것 같아요. 아파 이 것 같이 같아요. 이 것	ny, and brief crews as necessary.
.,C	11. co	이 방송 전 전 이 가지 않는 것이 아니는 것이 가지 않는 것이 하는 것이 같이 않는 것이 같이 하는 것이 같이 않는 것이 같이 않아. 것이 않아, 것이 않아, 않아, 것이 않아,	sing Mission Summary form.
84 - 1 j. 1 s	and an east a chuir an east	್ ಕಾರ್ ್ಯವರ್ಷ್ಣ ಸ್ಕಾರ್. ಸ್ಟ್ರಾಂಗ್ ಸ್ಕಾರ್ಟ್ ಸ್ಕಾರ್.	e na sena perenda manyakena anakarana ang polonya. Na minanakan ang panjanan perendahan menangkan kan ji

on azzeta a sara narzenar erendet - Enzaño aner ezen ezen hazetan hazetan han ezen. Erenz mazzeta darezen duran en pazze gazetan ezen ezen sarzeta eta eta ezen ezen ezen zenezen azen gazet

# Lead Project Scientist

### Lead Project Scientist Check List

Storm or Project IRMA

Experiment name TOR

Flight ID 20170905H2 Mission ID 1011 A

#### A. Participants:

HRI	)	AOC		
Function	Participant	Function	Participant	
Lead Project Scientist	ZAWISLAK	Flight Director		
Radar/Workstation	ZHANE	Pilots		
Cloud Physics		Systems Engineer		
		Data Technician		
Dropwindsonde	Zawislak	Electronics Technician		
AXBT/AXCP		Other		
Photographer/Observer s/Guests			r	

### **B.** Take-off and Landing Times and Locations:

Take-Off:	2034	_UTC	Location:	врз	(BARBADUS)	)
Landing:	0247	UTC	Location:	BPB	(BARSADOS)	)

Number of Eye Penetrations: \_\_\_\_

C. Past and Forecast Storm Locations:

SHIPS SHEAR 5/122: 351°/12 KT

MOTIONS 270 1/2 Fr THOUGH COULD BE MOULAN

SOMEWHAT NW/WS

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
TEAL 16382	16.9 16.88 N	×1.1 58,98°ω	926	160 (6190)

#### **D. Mission Briefing:**

NYZ WILL FLY A ROTATED FLE. Y THROUGH URMA AT IOKTE PA (ALTITUDE MAY VARY OVE TO DE CONFLICTION WE TEAL). IUS MAD LEGS. B ARONS AS ENDONTS, Y IN CRIMER, 2 MAY WIND SUMMES, LIKELY ON THE FLEST PASS. LED AN MAN AS IY DROND, NO ARBIT WE WARD ON SIASING CLEDE TO ZIZ. DUR TO LAND, WE MAY HAVE TO CUT THAT LASS LEE SHORT OF TAKE A DIFFERENT ARMUTH.

CURRENT A ONTS WI LOOD SUMMAN, 92 GATH. STORM LANS EVERAMINICED RUNGW JUCK VENERON'S SUMMERENC RAINFALL, NICE CAS, CURSE AT F. POSSIBIN NEAR PROV

Storm or Project	Experiment name TOR
Flight ID 2017 0905H 2	Mission ID_/01/A

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				
Doppler Radar/TA		· · ·	-	
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras			•	

entral sec. I set any

5 3 A A

**REMARKS:** 

🛃 on the constraint of the co

•

Case 4

1. 6

) #20.95. •

SFAR UP ASPEN UP / WHM UP

LF UP

## Lead Project Scientist Event Log

### Date 9/3/17 Flight ID 20170905HZ LPS ZAWISLAK

Time	Event	Position	Comments
2034	T/0		
20548	ENROUTE TU IP	14 27 / 58 "56	TOR 15 ON, GET GROUN BEAREN IN BOTH TH IS AND VELOCOTRY SEMPL 15 UP. ANAPS, ASPEN
			IS UP. PRETTY DEEP CONVECTION
			ATTANTE GATE RONDS
			ACCOMPATINE PAUL ENTRIC REQUEST TO ROTATE FORTELN BUT ONLY RETATING AT 3 + 4
			OSS OSS
21082	10 (SONDE)	15" 52" /58'251	LOD OF CECUR BONNING BUTER. 10000 PIL CTR
21272	INBOUND OFR		100 Kr PL G. FR 20 MM
21352	MAY WINA 1315		
21382	CTR #1	12041 / 39054 /	C7R #1
21422	MAY WIND OUT	с	
22033	wp #2		
		90 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 -	FOR THE MAY WIND OUT BOLD : BELOW JA: 526/62, DEED UP
		NE RECEIPT REPART	
22202	DOWN TO BUT		ON DOWNER TO WAS
	we #3		
22262	wo 43	16 34 / 610 91	TURNIUS INBUUND
27453-	Cm #2	17°7' / 64 °8'	BEAUTFUL CUNC. EXEMPLL.
22437			MAX WING 500 UT
2313 2	We #4	18" 8'/ 58"57'	TRANC DOWNO TO 800°
2313 0	WP - 7		SO THAT WALF M CHANG
			NETRE WE ALLER THAT
			2007 AFI FIR CURE PUR CHENSS - BUTAMEN
		1	10° CLOCKIN IS

-+ NOTE -ON PAUSZ S. WE HAN TO JUNCTION THAT INBUNNE ON @ 275 TO ALLO AN ISVAND.

WELL TER TO GEG QUE THE FNAL PAST TO THE WEST BUT WELL SEE Lead Project Scientist Event Log

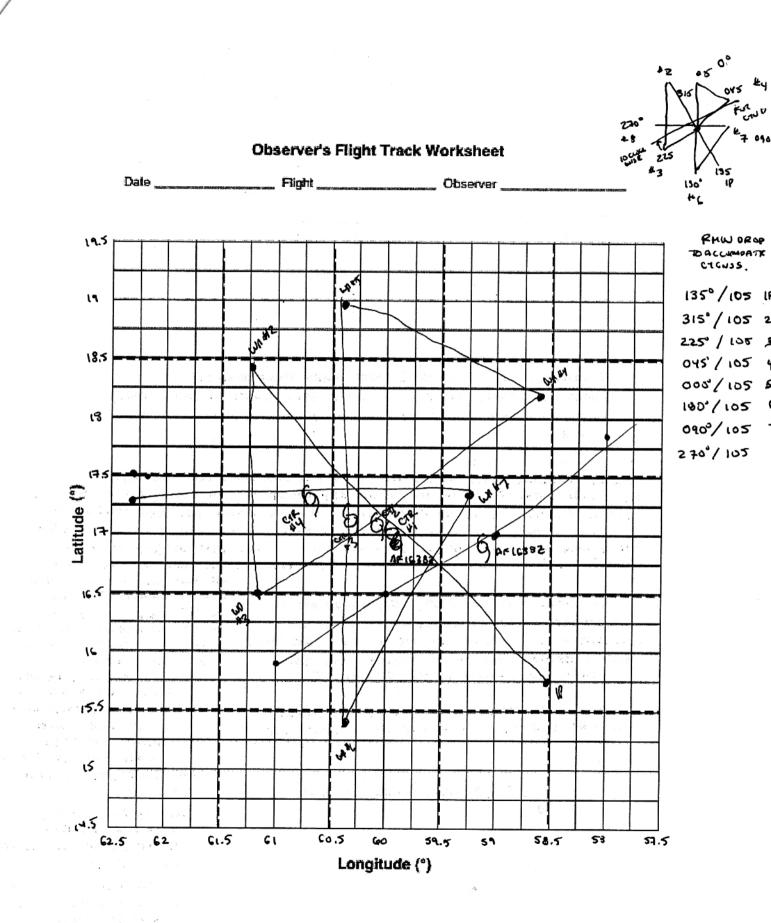
Flight ID\_

Date \_

LPS\_

Time	Event	Position	Comments	
23312	ENROUTE WALS	18 "471 / 60" 61	SUPERNIEME ON 15+ PASS NU EXFURLL, 79MI 158 ET	
			LESS ON THE 2" Pass 915mb ExtRAP. , 916mb LONG	or.
		· ·	BOLLT FL PEDE UN 2nd POSS TO ME NE EVELALL.	
			2 NO PATT OF FINITED WEALER WINDS	
23352	WA #5 /SOME	19 56' / 60'26'	TURMING DOWNWAND TO 000	Son
23512	INCOME TEAN NORTH		NICE CONCENTRIC EXEMALL	•
			PRETTINTING ON NORM SIDE	
00032	CTR 43 /SONOR	170121/10025/		SUN
	OUTBOULD TO WA HE		EN 180" SEUTH TO WP 46	
	îum		JO FOR ANAUTIES LODE 6000, TOR GOOD 1 STHA MEAK IGO KTON	
	Some Lichtmis		PIRST PASS, 913 AN REMAINS	
	IN TIAT UAN UI CONT		LOWEST HEARSUS. PL PEAK	
	E.V.		OVE SONA HAD ING IT AT 915mb	,
			MUST BE A GOT (MAX WILL THESUCH, NOT CONTER)	
00312	WOH 6/Some	15°241 /60° 191		50
	DOWNWIND TO WE HT		RAITH CRUCH OUTO BANS OUT LERK	
		· · ·		
			NEAR WE #7 - WILL	
			CHALLE NEVE INBUIND SHURAR	
01002	Wa #7 /5000F	17° 21 /59° FF	TURN INBOUND	Sam
<b>V</b> 10- <b>D</b>		·+ -· /3· ··	WELL HAVE TO DO CUR DEP.	
•			ON THE OUT BOUND -> CONTEND	
		· ·	w/ 13 URNOS.	
01212	CTR HY	17 20 / 60 431	HONALT REF IN NURTHER	San
OILIE			NUT AS CONCENTRIC TOIL	122
01402	ONJUND TO WI #8		BUT BUTAEN PRETTY GOM IN	
			WRIT REFUGUL. MON- SEV. WILL MAKE IT ALL THE WAY	
01432	WA 4 8 / SONA	Œ.	TO LOSAND	
01150	+	+ 17°19' /62°20'	TURNING HOME	Śu

SU THE LAST PASS HAD ISBER FL ON EDST SIDE, ~142 KG ON LEST 144 KT SEC 6441, MURS SHAMETERC. EXTRUP 914, 900



# Mission Summary Storm name YYMMDDA# Aircraft 4<u>2</u>RF

#### Scientific Crew (4 RF)

Lead Project Scientist	Lawisvak
Radar Scientist Zuga	16
Cloud Physics Scientist	
Dropwindsonde Scientist_	ZAWISLAK
Boundary-Layer Scientist	3. j.
Workstation Scientist	Ę
Observers (affiliation)	

Mission Briefing: (include sketch of proposed flight track or page #)

ROTATED FIG. 4 AT LOWER WHEN WERT ARRIVES) SUNDER AT TURNS, CENTER, POSSIBLE RHW SUNDER (TO NUCLINES) AUGN WERS AY POSS TO BE PARAMENTO CUCHUI TRACK , ORDER A SONDE.

#### Mission Synopsis: (include plot of actual flight track)

PRETY CONSISTENT WINDS IN THE NORTHERN ETEMPLL BEING THE STRUMERST. HAD LEOUS SEMA TO THE IN NW/N POSSES, LOWAR SEC ON SOME BY STLL 1285, FL PENC 170KT TO NORM EXCLUDE AT WELL PASLE 1405 BEEN MOISMO ON BOUR PASS IN DRAM 914 mb. CONSENTRIC EXEMPLES - ONE INNER/ OWARN IN deb 1845 NOT AS MUCH IN WIND? WE PIO A CULOUS & ALLINED ROSS FROM WA3 TO WAY BY RUSATING 10° CLOCKING TO 235" & OSS". SO THAT LEG JUST LEFS OF CICHS TROCK. Evaluation: (did the experiment meet the proposed objectives?) WE ALL DID A MAY WIND PROP

GOT GOOD TOR RHAUSES, GUT ALL OROAS TRANSMATTER (ONE RAW DRAN ON NW SLOR WAS BARA TURZING AND WINDS, BUT WE GUT WHAT WE COUD) TOR WAS BETTER. GOT CHENS ALLINER PASS APTER.

Problems: (list all problems)

ONCH ONE IPPA SOURCE BUR FURT WAS DROPPED IN NEW ETEMAL. OFFICIENTE NO SCIENCE ITUES

Expendables used in mission:

GPS sondes : <u>15 (8 HFIP</u>, GNHC, INESDIS) AXBTS : <u>4</u>

Sonobuoys:

WE ALLO DID A MAY WWD DRUP IN NE ETENSALI FOR PAR CHANG. WE DID MAY WIND SUMPLY ON SEL NW KIEWML ON LAPPOS. Gar GOOD NINDS. NW TONE WALL DRON RM TITRMO. CONCENTRIC BY ELAUS DE WORE - NUT BY CLEAR ON UD YE RAND. GOT PRETTY GOOD TURPULENCE ON WEST SUE . CNOD UR GETTING OUT LOSAN ON WEIT EVEN THOUGH IT MAY HAVE BEEN AN LISUE PARUM. THE LAY POID 144 WT PPC. BON SIDES OF FLEWALL,

158 KT FL ON EASS SINE PER

SO BELON THE DAY W) AF FIN OI 92C ND. WR GF DUNY TO glynd

916 IN SONDES. PERE WANS DON T SCC. TO LACREDIE AT SEC.