## **Lead Project Scientist**

		roject trma talii Experiment type tok
Flight		2017-0903 H 1 Mission ID OILLA
Prefli	gnt	
	1.	Participate in general mission briefing.
e.	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.
<del>17</del> .	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 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 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-Fliş	ght	Carrier Control of the Control of th
	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.
<u>-</u>	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 fl	light	section of the sectio
	1.	Debrief scientific crew.
	2.	Gather completed forms for mission and turn in to data manager at HRD.
4	3.	Obtain a copy of the Dropsonde raw and processed files from the AVAPS operator on thumb drive.
<u> </u>	.4.	Obtain a copy of the radar LF files from the radar technician on thumb drive.
1	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.

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#### Lead Project Scientist Check List

Storm or Project_	IRMA (ALII)	Experiment name TDR	
Flight ID _2017 (	0903 H 1	Mission IDOIII A	_

### A. Participants:

HRI	)	AOC		
Function	Participant	Function	Participant	
Lead Project Scientist	Zawiscak	Flight Director	BELSON / PORRIS H	
Radar/Workstation	ZHANG .	Pilots	PRICE MITCHELL/REES	
		Navigator	URATE	
Cloud Physics		Systems Engineer		
		Data Technician	MIKE MASCARD	
Dropwindsonde	ZAWIELAK	Electronics Technician	MCAUSTER (AVAIS)	
AXBT/AXCP		Other		
Photographer/Observer_s/Guests	ALVEY (UTAH)			

BUTTERFUY:

105 /210 105/0300

105/3300

105/150

105/0900

105/2700

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

Take-Off: 1911 UTC Location: BPB (BARBAR OS)

Landing: 0230 UTC Location: 898

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

Co: 258/125

SHIPS SHEAR : 350 / 9KT 9/3 127

#### C. Past and Forecast Storm Locations:

03/15002	(7.F)	48.4 W	969 Mb	100 kT
Data/Tima	Latituda	Tomaitudo	MCI D	Maximum

FCST

Latitude	Longitude	MSLP	Maximum Wind
17.1 N	50.1 W		
したらん	49.8W	95900	LOOKT
	いしょ	17.1 N 50.1 W	17.1 N 50.1 W

FRUH UR FIXE

#### D. Mission Briefing:

WANT DATA B/W 21003 (1700 LOCAL) & 0300 & (2300 L) ... TARCETING GOZ CICLE OF HWER DEUT IF NECESSARY TO ARMUE ON STATION 2100 Z. BUT NOT BEFORE DROP ON PERRY HOME FROM HIGH ALTITUDE, SOMEWHERE HOLFWAY

PURE IS FOR A BUTTERFUN TOKEL, WE'LL DO EMPORAT DROPS (IN BACKS), AND CONTRO DROPS PULS A FIX ON EACH OF THIS 3 AMENTS. PASSES. THEN WHILL GO OUT TO WEST AT HOLET TO DO A WORTH & SOUTH, AYET RUN WET AYETS AT LOKEL THEN CLIMA TO GLOTUDE AND DEOP A SONGE AT TRANSIT BUTTNOR, WELL- OFFINAS BIE.

Storm or I	Project <u>lema</u>	(ALII)	Experiment	name_TOR
Flight ID _	20.0903H1		Mission ID_	OIIIA
E Fanis	nmant Status (IIn	A Danua I Ma	t Armilabla Ni	/A Not Hand O

### **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				

# REMARKS:

STMR CALIBRATION DONE ON FERRY OUT TO BARBOOUS BU INSTRUMENTS IN PRINCIPLE OF START OF MISSION Date 9/3/17

Flight ID 20170903H1 LPS ZAWISCAK

Time	Event	Position	Comments
(9117-	Tlo		
19332	ELROUTE TO 19	` 6	CHECKING THE FOREINFT
19522			JUN VERIFIET TOR GOOD TO
			Qu. REFERENCE FILES (SIZES) ALSO SWEED SHOW VELOCIE!
19582			SATELLITE SHOWS THAT THE EYE
			THERE IT FORE CE ACCOUNTS IN THE EFERMAL. OVERSHOOTHS
			THE COO. SMALL HAVE COR. MICHTER W AND OUT PRETTY
			GUCK, SINE OUTER BANDING  *200-JODEN FROM CTE, BUT  CLUMPER BRITISHEN ACTUALT  LOCK LIKE D DRY RAI TO THE
			ENT OF CIR MODE, BUT THAT
·			APPROACHING FIRST CLITER BAND UP 117MA WEAR SY/SSTU
21002	IP OF STURM	1001, \20,21,	SUME AT 18, THEN INSOLUP
	म सम्बद्धासकी है। है। १५,५ सकू	Hi of white wine	MALE CONTINUE FOR BOHOLIN
v		and the second	Phalley, regle many
21203	approaching ensuran		20 nms HOUR HURRICANE STREAMS
			BEN FYEWALL CONVECTION OF
			John , somethin
21262	CTR #1	17°231/49°5216	Bolor star inboard sw.
			959 ENTRAPUL
		•	
-			ASPEN NOT PREDUCING A UND MENTIGETO TRANSMIT.
21512	WA # 2	4 19°561/40°551	ON TO DULLIUM TO 730'
2			Non bommaind to me A3
22172	WP#3	18,281n 21.81 m	AF WA HT TURN INBOUND ON 338 TO CTR
55185	SONOE AT UP AY	18°531/51.61	INBOTHO ON 33.
			SO IN THE NE HYELDIL,

WE HAD 106 KT JAME SEC 102 FL OV ME FURWALL BELL PRECA S/ SE EVEWALL.

Spring

ZUNGE

960ni Centar 643 180

COVAR

Somos

# Lead Project Scientist Event Log

Flight ID 20170903 HI LPS ZAWISLAK Date \_

Comments	Position	Event	Time
PUT A LOT US PRESEN OF THUS USE, OR PUT GUNDRAMT	17° 49'N/60° 26'	INBOUR CLE #5	2237
tight of 25 and		, <del>1</del> 5.	£
A LETTLE OPEN TO THE			
PUNT to Zonni			
1004 At ~ 1012 and			2241 3
COUR WILL HIGHES REF	r.*	.iv	
958 M. INTERPL	17 21 /5061	CT2 2	22452
44 PM SEME ON THAT PASS	. 4		7. *
BETTER CONTROLA ON THE			
HICHTER BRIT. OUTBOURD ON	1.0		
SE OF CENTER PERMON RAINED		7 A	1 , 4 1
STILL ~ 150° TO WE BY	16°21 / 49°51'	erron mo # 4	23022
A CITILE STEANCED WIND AT			e i i e a a a a a a a a a a a a a a a a
		eps t	
DREIVED WO # 4	15041 /47011	Mi #4	23117
090		TURN POWNWARD	
TOWARD CTR	130 161 /480 321	พ. หรา	23332
FL Some + 64 km	17"17" / 49"33)	PORT I INBOUND	2347 2
EXPLUDIT IN THE LOAM DECEMP REPORT WE FRANT		soft auter	2354 2
NOT TOO BURN NOT TOO ORK	i de la companya de l		• 14 % , 1
OF CONFUECTION			ş-°
ETE. PICE CHECUM DE	170181/500221	CtR 43	2358Z
OF W FLEWALL I THOUGH			
PASI IN WASHIT WENT DEEPS	<u> </u>		
LOOKS LIKE TO KT JEMP OF THE PASS MAK. NOT OF LINGUL	17°17 1/51°531	OUTBOWN TO WARE	0-0182
Saves or we +C	17'171 /520 121	WA HE SOME 9	2 2200
	• -		

SUME 9

# **Lead Project Scientist Event Log**

Date 9/3/13 Flight ID 20170703HI LPS Zauscau

Time	Event	Position	Comments
3 0400	BT #1	17 29 /57°30'	BEGINNA N > 5 BT RIN SHIR.
			This RUN ALONG SS. 50 W.
			BY PULL IS IN THE CLEAR
25100	8T#2	17°5'/53"29'	87 42- 28.8c SST
2 0300	8743	16 40 / 53 30	8r + 3
00553- :	BF#4	16 16 /53 301	81 4
	r a s		
2 colo	BTHS	15"521/53"291	Br 45
		-	SO INBOWN TRIM COM.
	in the state of the		SAVA DECOMPLY WHA PART
			AMPLE SPILLE AT THE LILLIER LIMIT TO GATO (LEFT OF THEM)
			WEST, THUCH SHELLY
1 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		· · · · · · · · · · · · · · · · · · ·	MONTO ON WAST AT FO
52010	BT#6	15" 291/53" 291	
01102	BT #7	15° 51 / 53°291	
3 4 / 12	1	40.00	HITTING SUME OLDER BAND
<b>पाय क</b>		140491/52035	out before he clime
01343	Soure 10	14.501/22,101	HIGH OUTLINE DRUP HOUSEN
			EMC. 23 650' ROOM.
andro organization			-
	4.1		
N 1 T			

BT # No

8T 47 28.8

600

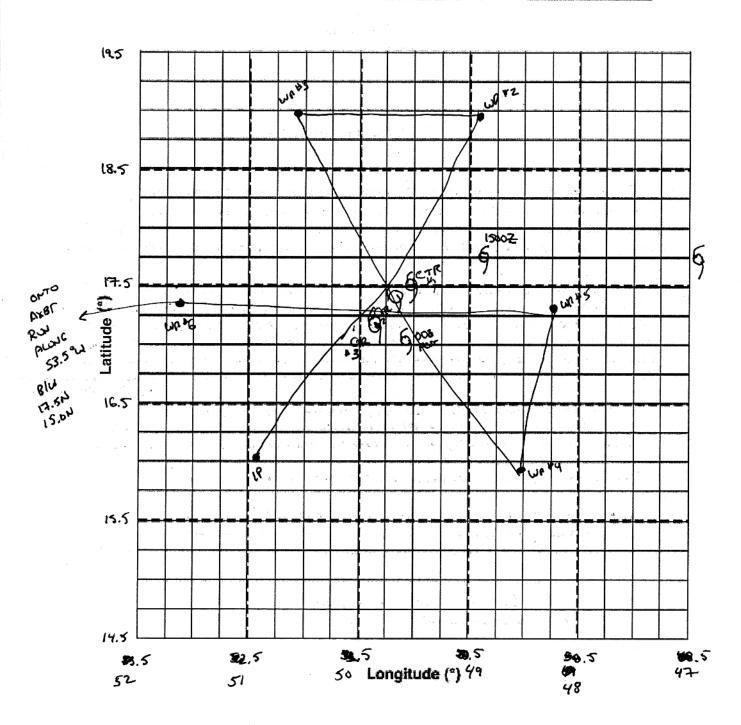
BT (

Br#7 Br#7 Br#7 Br#7

Sown

## **Observer's Flight Track Worksheet**





## Mission Summary Storm name YYMMDDA# Aircraft 42 RF

Scientific Crew (44KF)	
Lead Project Scientist _ عديمه عليه المعادية المعادية المعادية المعادية المعادية المعادية المعادية المعادية الم	
Radar Scientist ZHANG	
Cloud Physics Scientist	
Dropwindsonde Scientist Zawskak	

Boundary-Layer Scientist

Workstation Scientist Observers (affiliation) ALVEY (UTAL)

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

FUT A THE BUTTERALL AT LOKEL TO RMA. SONDES UNUE AT TURN POINTS, 3 Schoes IN CIP. ( 3 FIXES. THEN EXIT TO WEST AND ORDER 7 DXRT OLING LUNCTUDE 53.5" TO BU D PRE-STURM SIEVEY. BETTER GETTING TO FERRY author proportion sende for EMC AT HICH BUTTOR AFTER BUNG 3PX FOR NHC

Mission Synopsis: (include plot of actual flight track)

FLEW THE BUTTERFLY DATERN D . DROWN UP. DIO SCHOET OF ENCU TURNDOINTI & CENTER SONDET. THE BT; WHITE DUNG A "LON LINE OF 53.5°W (PRE-STURM SURVEY) NO AVERS IN STORM. FURW ICKET PA THE WHOLE PUCHT, INCLUDING FOR BY ROW. STORK WOT NOT INTENSIFUING. STEADY SIGST. SUME ENDENCE OF ERL (SEP) ON WIT POU TO THE GOID. HORR WIND OUT TO 50 ama . PROK FL WIND ~ LOGER LOGER SEC WHID FROM STIME MISH FROM FINED ~96000, BATROD 9581 NO CHOICE, NO EVENSIFICATION Evaluation: (did the experiment meet the proposed objectives?)

GOT 3 GOOD ANALYSES FROM THE TOR, TRANSMITTED TO MIC. TO SOLDED , DIL 6000 ( ALTHOUGH PAR PASI CELTER DIDET WILL SECTION), 18A0 TO TAILE 16m WIND ). 6/7 BTE, SO SUCCESSFUL, PRE-STURM SURVEY OF CHESTS ALOJG 53.50 (SEEKS WIRE THE STURM SHOULD PODD TUROUCH 17)

FURN SOUR FROM 24 25 RAPPE RAPPE DETINE ROOM DRUGUMY HOME

Problems:(list all problems)

40

AMA! ASAEN 33504 ON S3X WOULD NOT GENERATE WHO FILES JO SUITCHED TO STATUL Z TO DO QC. DIVIT I AYET DON'T PROVIDE DATA THAS ASKE TO SEND FILES TO FTO TO GROWN FROM STATION 2.

Expendables used in mission:					
	GPS sondes :	0 (3 NHC, 7 HFIP)	عود دهمه		
	AXBTs: 3	( C 6000, 1 8 An)			
	Sonobuoys:	- Alexandria			