Lead Project Scientist

Storm	or P	roject Matthew Experiment type IFEX TOR/I av 161007II Mission ID
Flight	ID_	Mission ID
Prefli	ght	
	1.	Participate in general mission briefing.
	2.	Determine specific mission and flight requirements for assigned aircraft from the Field Program Director.
<u>/</u>	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.
<u> </u>	5.	Determine from AOC flight director the mission designation and whether aircraft has operational fix responsibility.
<u>/</u> / <u>/</u> /	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.
V	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drops.
1	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.
V	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.
In-Flig	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	
	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.
	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

	Leau I Tojec			- 1.1
Storm or Project	1 at them	Experiment	nameTFE	XIDR
Flight ID 1600	TI	Mission ID_		
A. Participants:				
I	HRD		AOC	
Function	Participa	nt Function		Participant
Lead Project Scienti	st fogurs	Flight Dir	ector	Williams/Parn
Radar/Workstation	Katina			Keans/Kahu/V
		Navigator		
Cloud Physics		Systems I	Engineer	Nacher
Cloud I hy sies		Data Tech	nnician (Nacher
Dropwindsonde	RYCIN	Electronic	Electronics Technician	
AXBT/AXCP		Other		
Photographer/Obsers/Guests	Jolly (CE)			
B. Take-off and La	nding Times and l	Locations:		
Take-Off: 1756 U	ITC Location:	MacDill		
Landing:U				
Landing	TC Location.			
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

Storm or Project Mother	Experiment name_	IFEX TOR/(andfall
Flight ID 16100751	Mission ID	
F Fauinment Status (Un A Down	Not Available N/A Not I	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		1	-	
Doppler Radar/TA				
Cloud Physics		V		
Data System		/		
GPS sondes		V		
AXBT/AXCP	•• Symmetric Constitution of the Constitution	aparteriological state and any		
Ozone instrument				
Workstation		\checkmark		
Cameras	J	V		

REMARKS:

Lead Project Scientist Event Log

Date 10 1/16 Flight ID 16 1007 1 LPS Reges

Time	Event	Position	Comments
1756	takeoff	KMCF	
1810	takeoff	on way to (P,	g tratiform deak below
		on way to (P, sw of center	clear above
1834	pattern	ATIP, GOAM	Cycuall ofen SW,
		5W of oaks	rub cloud possibly
			ilside
1841	center	conterolstom	sonde I released
		29° 53′ 80° 45′	Betting SLP 946
			sonde 949
1851	055	abutricle NE	Sine convertion
		eyerall	in NE eyewall,
			deviated orand it,
			then wooding back
10011	(. 140	toward tenck 45
1854	055	ME dege	widesproad shortform
			precip S, OSL;
			iedos topo v 10-(z tm)
1908	obs	n goum NE	approaching the of
1000	005	WWW. 102	cellular educes, ntris
			outer hand
1913	sonde, 105 nu NE	Correll 2	FL NOOLF, SF 150 kt,
	10 Mee 100 Mee pe	7000	turn to start downwal
		· ·	129
1941	pullen	N 105 Run MAN	begin inbrand by
1958	pattern	NN eyentall	F1 90,5 80 ++)
	1		

Lead Project Scientist Event Log

		T 700	
Date	Flight ID	LPS	
Daic	1		

Time	Event	Position	Comments	
2026	Jop 3	SE end pornt,	FL 50 5F40	
- 7/		10.5 nm		
2029	pattern	downs.vd leg	TOP notor is burned	
		exst of storm	out: Abort Az-4	
			pattern after drop at	
			Eprint, than do	
·			Ocean winds radials, the	n
			coastal ran, then	
			was home early to sive	
			fine to tix the TOR	
			before 2 AM mission	
400	01/5	J NOTONA		
1050	dap4,5	103 Nin E	FL 70,5 50 (28)	m.
2/09	drep 6	6 mm MM an	FL 85 sf 70	
		Esido (For Day		
		w,vds)		
2171	dat.	Ruw on St side	FL 100,5F 80	
		(Ocean rivids)		
2152.	3006	enw E	P2 100, Sf 90.	
	Syrp 9 (mini)			
2200	dap 10	enw sE	FL 80-85 SF 70	
	((miki)			
1223	obs	NW eyenall	storm highly asymmetr	
			Precipin Nardo, Open	15
2273	drap 12)	N eyerral	KL 80, SF80	-
	13(win))		

Lead Project Scientist Event Log

Date 10/7/16 Flight ID 16/00 71 LPS Rogers

Time	Event	Position	Comments
2746	drap 14	WE of center,	dropped sorde during
		~ 100 nm	a satelite overlass
\			FL70 SF 50
2256	pattern	N of center	turned back to
			head downwird,
			set up for coaster lea
2308	pattern	at coast ~	set ip 10 nm
	0	60 nm Not cent	- Not sticket, 12
			drop soude at latitus
		of shi	k, then soude at RM
			le austore, tren
			mage on S side.
			stickaet distance for
2310	begin coastalle		flow.
7314	Barp 15	at street	near sticknet boat
		3352'	PL-70 5F55
		8112	
	drop 16	30 43	FL 70,5F 60
		81012	
		RMW at coast	
		onshore from	
2372	drof 17	30°07′	FL 70,54 40
	V	81004	offshore
2324	81 garb	81°04' 29°54' 81°01'	FL60,5F35
			offshore
2330	and coastalle	RTB	
0015	land	KMCF	





Mission Summary Storm name YYMMDDA# Aircraft 42RF

Scientific Crew (49RF)

Lead Project Scientist

Radar Scientist_

Mission Briefing: (include sketch of proposed flight track or page #)
See previous
Mission Synopsis: (include plot of actual flight track) flew pattern generally as plane through first figure 4. TDR water failed on zadinsonud pass, Finished that
through first figure of TDR motor failed on zadinsoned pass, Finished that
Frough first figure 4. TDR water failed on 2 seinsound pass, trushed that Figu, then went down wild to point E of oth, then did ocean winds radials, or wedges; until 2247 2, when there was a satulte overposse After that,
19 1 1 2747 9 when there was a saturble overposse After that
int driving to point Not sticket 12 nm at shore, it of coastal
Evaluation: (did the experiment meet the proposed objectives?)
reduces; until 2747 2, when there was a saturate or passent of coastal west downing to paint ~ (One Mot sticknet 12 nm afshore, Ond coastal Evaluation: (did the experiment meet the proposed objectives?) Survey wedner, dropping with failure of TDR less than halfware the proposed objectives?) Survey wedner, dropping with failure of TDR less than halfware the proposed objectives?) Survey wedner, dropping with failure of TDR less than halfware the proposed objectives?)
bid accomplish some science w/coastor/ withde fRMW, and on i mage softward endrough considered on S side (offs hope flow).
Problems: (list all problems)
TDR Douter Failur
Expendables used in mission:
Expendables used in mission: GPS sondes:
Sonobuoys: