Lead Project Scientist

Storm o	or Project Coma Experiment name 10kl
Flight I	D 101106 H4 Mission ID 2221A TOMAS
Prefligl	
	1. Participate in general mission briefing.
	2. Determine specific mission and flight requirements for assigned aircraft.
	 Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
	 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.
5	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
-	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.
	Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.
8	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
9	Make sure each HRD flight crew member has a life vest.
1	 Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
In-Fligh	nt .
1	Confirm from AOC flight director that satellite data link is operative (information).
2	
3	. Confirm data recording rate.
4	. Complete Lead Project Scientist Form.
5	. Check in 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 flig	tht control of the co
1	. Debrief scientific crew.
2	Gather completed forms for mission and turn in to data manager at HRD.
3	Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
4	Obtain a copy of the radar DAT tapes. Turn in with completed forms.
5	Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.
[Note: all da	ta removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
6	Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
7	Determine next mission status, if any, and brief crews as necessary.
8	Notify MGOC as to where you can be contacted and arrange for any further coordination required.
9	Prepare written mission summary using Mission Summary form.

	Lead Project Scient		
Storm or Project_	5 Tomas	Experiment 1	name TOR / ET
Flight ID 1010	H1	Mission ID_2	2221A Tomas
A. Participants:			
	HRD		AOC
Function	Participant	Function	Participant
Lead Project Scient	ist Rob Rosus	Flight Dire	
Radar/Workstation	O	Pilots	Carl Newman Justin Kibbey Eathy Martin Plan Kidden
		Gran Bart	Lathy Martin Ryan Kidden
Especial Commit		Greg Bact Navigator	Sim Warnicke
Cloud Physics		Systems E	

Parish

B. Take-off and Landing Times and Locations:

Photographer/Observer Shirty Murillo

Take-Off: 1949	UTC	Location:	TISK	1000
Landing ASTO				

Number of Eye Penetrations: _

/Guests

Dropwindsonde

AXBT/AXCP

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
	Since the proper basely	a menina and IAS.	diser add to 15 to a meast.)	
	Activity knowledgen on their particular			
	2000		3030M of Security	
1788 1500				

Data Technician

Other

Electronics Technician & |

D. Mission Briefing: Ply FMC-tasked TOL mission into TS Tomas; located in the gruthern behamas. Tomas is slowly weakening as it tracks NE, but it should replicately weaken as strong shour and dry air encroach on storm in next 74 h. Fh Prop soudes at end prints and on 2 m and 4 center pass.

Storm or Project	Experiment name
Flight ID	_ Mission ID
E - Equipment Status (Up † Down I N	ot Available N/A Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA	V			
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

REMARKS:

B

Lead Project Scientist Event Log

Date 116610 Flight ID 10 1106 41 LPS Rigers

Time	Event	Position	Comments
iqua	take off	TISX	to fun PSX
2103	065	75 nm from (A	going through bands of
	Barth		deep converting thoust explan
		V.	-5 on the Stocke of Story
2122	Lopel	at 19 23.0 N	FL 26 pt St 24 pt
	200	68.75 W	The passage of the second
2126	dss	78 mm sEfet	non-precipitating anvil
			boerte, even though
			whin inver core; sot of
7			If show that convention worthy
		3 3	on N Side consistent western
	f	. 5	sw shor; there is region
	325		convertin on st side dose
			autr
2155	pattern	center to	Not lea, missed conternathis
2207	twn	25:15 71.06	at end of outbound by ferr
		Sec.	of downwind leg
2208	drop 2	25,10 71,12	FZ 13 SF 40 H
2215	form	24.68 71.35	turn to track 90, next
			radar leg
2216	drop 3	24.66 71.28	F1 16 SF4Z
2233	065	25006	FLESFallon thisside
2236	drop 4	center 24,8269.78	PL MGG, SF 35 ER,
			tilted system
2243	obs	just outside outer	very ogygnuetic wild field.
		onEside	very ogygnustric wildfield, vortex appears tilted to
		east	. It winds very from peak

10,0

of 45 kt on W side to 80 kt on E side; SF vot as asymmetric peak SF-60 65 kt on E side

Lead Project Scientist Event Log

Date W660 Flight ID 10 4 OGHI LPS Rgers

Time	Event	Position	Comments
2248	obs	v 50 nm Bof	instly stration Eside,
		center	some embedded convection
2152	obs	near turn prod oy	center drop \$89 mb
		E	but minds were 33 bet
			at 518 m, with directo
			of 80°
2360	turn	24,73 68.11	then to downwhat lead,
2302	drop 5	24.87 68.06	FL3014 St 40 Ht
23/7	turn	25,98 58.53	turn to track 225,
		* * * *	next radar leg
2319	drop 6	25,98 68,62	FL 35 6 5 5 3 2 k+
2325	ols with	25.65 68.95,	wilespread frecip on
	7 10 11 m	approaching center	NE side, mostly strat
		from NE	out some convertire
			elements
2333	165	130 mm N/z enter	
			NEofanter
2339	065	in NE "eyewall"	peak fer 75th, stras
		1.0	or NE sicle
2342	drap 7	in other	targeted stc outer laps
	+		Imp was when 5t words a
			10-15/et, about 5 nm
			gur of franter
2349	655	5 Wood center	large asymmetry in the
		No.	- winds to set pareon
	ho () minimum	NE	
2001	tun	befreast of orthorned SW leg	

2007 (2008)

2 8 15

0201 El conser 2454

of contact of the state of the

YTOK

Lead Project Scientist Event Log

Date 11/6/10 Flight ID 10 1106H 1 LPS- Rogers

Time	Event	Position	Comments
0003	drop 8	90 nm Sw of eye	PC256+ SF ~ 356+
0015	tun	20 mm 5 of eye	turn to track O
0020	drop 9	To un sof eye	FL30 SF 22 K4
0034	obs		positive -
0038	drop 10	Negewall drop	Pl 65, \$ 255-60 pt
0039	olos		couldn't do center
		A2,8/c	Fluinds were from the
	To the	Sou the i	assume leg from the 5,
	4.		all sale resovantes
		formed in NW	part of center, so wissel
		center for ofe	ad Adadop in the
	7 310,6	Negerial	
0054	tura I brindo	Applony Not otr	turn to track 248, and
1/			of puttern
0056	dropping	KME P DOWN	PC20Ff 5F 30b4
0350	land	Knet	level at rear
	111		
	<u> </u>		
		100000000000000000000000000000000000000	i fir hear veldishiri-grifi
		4.2	izvoudokok .
	to a Contamination As	7	

200

Mission Summary Storm name YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Dropwindsonde Scientist_ KLTZ

Cloud Physics Scientist

Boundary-Layer Scientist__

	Workstation Scientist
	Observers
16: . D . 6: /:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	nclude sketch of proposed flight track or page #)
TORNI	sson, se previous
The first better been payable	
	professed
Mission Synopsis: (ii	e center on the first pass ble did not dereate when it was ser that storm was now by faster from originally planned, gery that storm was now by faster from originally planned, seement passes, except for final pass, where we wissed asserted was forming, in Nort of courter, providing for wind a center was forming, in Nort of courter, providing for wind
I h Missel for	e center on the first pass ble did not derivate will dannel
Trace.	agent that storm was non no taster wan organized
apparent non co	Legarent passes, exempt for Favor pass, ware me most
Creeded Prest error on si	as found in Now part of courser, providing I wind
of outer ble a mesos sals	losequent passes, except for Februl pass, where we missed to sequent passes, except for Februl pass, where the missed anter was forming in Now part of course, providing to wind incresistant with our location.
Evaluation: (did the	experiment meet the proposed objectives?) The experiment did not
une opposed a sjectives to	an 4 rodor avely ses, transmitted all 4. Be cause we missed seed some winds on the ME side of system. But out sequent
to a frest pass, was	; sed some winds on the MS side of system. But cul segunt
end or the	ioner was listly assumentity with peak for winds on ME
Ilas coptured men,	intended in the charmenty as much a symmetry. Precip. without
Eside of storm,	uns was highly asymenetoir, with peak for winds on MF. wils did not show dearly as such asymmetry. Precip wistly or coblems) Not Fielde. Storm managed to reintensiff
A Problems:(list all pr	obiems)
None	to a hurricone dering our flight, despite
V -30	presence of shear frost was 5 w and strong. Should be an interesting case to evolunte for
	should be an inference case to evaluate of
Europe dables wood in	this reason.
Expendables used in	
GPS sondes :	
AXBTs:	
Sonobuoys:	