Lead Project Scientist

Storm	or P	roject 75 mas Experiment name 70 C
Flight		Mission ID
Prefli	ght	
	1.	Participate in general mission briefing.
4	2.	Determine specific mission and flight requirements for assigned aircraft.
-/	3.	Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
	4.	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.
	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.
1	7.	Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.
7	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
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-Flig	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.
1	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 fl	ight	
	1.	Debrief scientific crew.
1	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	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	data rem	loved 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.

HRD		2	AOC		
Function	Partici			Partici	
Lead Project Scie	100		Director		
Radar/Workstatio	n	Pilots			
	feasor	Navig	ator		
Cloud Physics			ns Engineer		
Photographer/Obs	server	Data	Technician -		
/Guests Dropwindsonde			onics Technician		
	Flotz				
Take-Off: 1948 Landing: 0255 Number of Eye Per	UTC Location:	TISK			
AXBT/AXCP B. Take-off and L Take-Off: 1949 Landing: 0255 Number of Eye Per C. Past and Forec	UTC Location:	I Locations: TISX			
B. Take-off and L Take-Off: 1949 Landing: 0255 Number of Eye Per	UTC Location:	I Locations: TISX		The state of the s	
B. Take-off and L Take-Off: 1948 Landing: 0255 Number of Eye Per C. Past and Forec	UTC Location: _ UTC Location: _ netrations: _ ast Storm Location	I Locations: TISX TIGK ons:		The state of the s	
B. Take-off and L Take-Off: 1948 Landing: 0255 Number of Eye Per C. Past and Forec	UTC Location: _ UTC Location: _ netrations: _ ast Storm Location	I Locations: TISX TIGK ons:		Maxim Win	
B. Take-off and L Take-Off: 1948 Landing: 0255 Number of Eye Per C. Past and Forec	UTC Location: _ UTC Location: _ netrations: _ ast Storm Location	I Locations: TISX TIGK ons:		The state of the s	
B. Take-off and L Take-Off: 1948 Landing: 0255 Number of Eye Per C. Past and Forec	UTC Location: _ UTC Location: _ netrations: _ ast Storm Location	I Locations: TISX TIGK ons:		The state of the s	

Storm or Project	Experiment name	
Flight ID	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				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

REMARKS:

Diti.

Lead Project Scientist Event Log

Date 11/4(10 Flight ID 101104H1 LPS Regus

Time	Event	Position	Comments
1948	takeoff	TISX	touce of from 5th Corn
2137	dos	16.8 72.6	passing by bourds of
		110 nm E of IP	deep convection on
			east side of storm.
	E.	I. We	fligh-reflectivity on LF
			5 d BZ peak values
2204	Job 1	90 nu Ed outer	EL N 35 LK SFA 30184
			in precip on £ ado
			55 £ 1 at was SA, 40 (a)
			atsfe
2212	dos	BS am E of Ar	in always conditions
			here, To showing echo
			tops to 12-14 king LF
			slowing red 750dBZ
22/8	065	30 nm Eafere	ment through converte
			band, time ares of Fla
			St wind showed signifant
		dop	-off in winds
2233	665	16.7 76.53	It showed a clear availor
		feature	, olmost looked like me svor
2242	form		out westformed leg short; us
	dop2	(6.62 77.17	PL 27, 3f 30 bt
1256	tern	15.85 76.71	FL 28, SFn 30 Kt
2256	drop 3		A
2300	200	16,176,46	er shows mie com.
		burst.	
		center	right along Shed edge of

cloud-top temp gradient; Center est four 1st pass was 16°47' 75°44' @ 2224 2

16

Lead Project Scientist Event Log

Date 11/4/10 Flight ID 10 1104 H 1 LPS- Rogers

Time	Event	Position	Comments
2316	pattern	16°51' 75° 40',	Search for contruous
		ext	searchers for outer 40W, rap ste 1895. 989
23(7	, drop 4		Friends at but dropp
			tory of my wapterdrep;
		5 FW	nd's interest before FL,
		Sugged	sfc. couter a bits wif
10		Fla	uter; 41 bt at 6 maltitude
7328	obs and which w	17°28' 75 9' 3 dast	(R. wage shows argular
-		NES outer	shield of cold cloud fors
			&-80C, LF images homes
		111111111111111111111111111111111111111	nuedire are but mostly
		Sto	et, rain on NE side
2340	fun : 10 made	18.06 74.58	two to downwind la
12-1		fw	shed out bound log to NE
2342	drop 5	18.12 74.76, NE	FL 38 H SF36 H
ğ		for	
2347	085	18.24 75.18, NE	radar andy si fram 12 kg
		of dr.	shows tilt much less today
			than yesterday, CDO by
			blu 1 \$5 km alt. pak
72-7	-,		1.5 km of 30-34 m/s
		18,3775.63	turn to track 180
2355	drop 6	18.3 75.66	FL23, SF36H
0014	a vop	16°56′ 75° 41°	100, sfzott
		447	torgeting lowsturings
26 - 7	n a Argetannaan As		here
0025	065	us uns of the	no scatterers anywhere

75 42

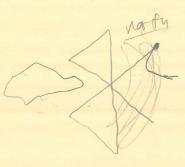
16.11 75.67

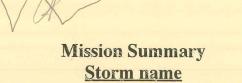
on this side, considering authors leg 30 mm short

Lead Project Scientist Event Log

Date 11/9/10 Flight ID 10404 HI LPS- Rogers

Time	Event	Position	Comments
0030	pattern	17,78 75.61	turning to track 135;
			ming 180 would have
			cress -> twis change briss
			Some precip SE of contr
0036	065		at SEpoint, two bands
			mg, is dath convertive congs
0038	drap 8	15.5 75,16	at end offattorn SE
	- 110		for, FL 2964, 5 F 34 k
0255 1	land	atis	bund at T(SX.
			athabat pate to add the second
	2 10 / Line ().		
	- receive the made		
1			
	J Trip A		
ű	, i		
*			
			<u> </u>
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		New control of the co	
	n o Contamion As	11	





SANIA	Storm name
YY	MMDDA# Aircraft 4_RF
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Scientific Crew (4 RF)
Lead Pro	ject Scientist Kuge S
Radar So	cientist leasor
Cloud Pl	nysics Scientist
	dsonde Scientist Clotz
	y-Layer Scientist
	tion Scientist UF &
Observer	'S
Mission Briefing: (include sketc	ch of proposed flight track or page #)
	See a Se via o
	See previous
	C . 101 1
Mission Synopsis: (include plot	of actual flight track) Generally flew puttern as planted
1 Land 1 There for	the c south thou we thought and as a result
Ceres of the ceres	storted on E, frew to W, then down to SW, out to NE 5, but no scotterers so after 30 nm turned to track (36
Couldn't do NW leg. 50	3 494 LCD ON E 1 COMME 40 20) of 10 COMME 40 20) of 10 COMME 10
Ido to N. Flew some to	5, but no scotterers so after 30 nm turned to track 136
then to I was to	extended as CR side of storm.
to sample a whe of precip.	extending on SE side of storm.
Evaluation. (ata the experiment	meet the proposed objectives?) The experiment hid accomplish
the objectives as planned. The	re rodor legs were analyzed, as well as 8 drags, including 2 organized forday - during flight, a connective burst
is a Sunteur is perfer-	organized follow - during Flight, a competite burst
center draps. 43	of the day to be to the time of the Carry of the time of time of the time of time of time of the time of t
occurred, originally to NE or cons	er, out that has librar i lea over 12 min of to mis sorming.
A small-scale arcular feature on L	er. On first pass looked like a dear RMW at Fl westerning. I rador looked like it could be a mesovorten though not certain.
Problems:(list all problems)	Burst developed into circular cold doud shield with added temps & 80°C. Duitially EL center was on swedge of
i reasonis (ties est proceedis)	Lemis & 50°C, Duitially EL contervos on subside &
no problems	a will also a loss of the soul filled
. 0 4.02	s wield, along slopp gradient. by evol of flight center
	appeared to be the the positioned under some of the
	cold tops on 5W side, Lifshowed most aparen
Expendables used in mission:	under shield was stratifien with a few isolatel
GPS sondes :	and sold and short the second short
GPS sondes :	cores, system appears to be getting better
Sonobuoys:	organized. Vortex tilt is nucle less thon
	Of General Book of the Control of the Electrical
	it was yesterday (c 20 km/s/w (2 51cm)
	1 . Als et u.s Em are 20 13 mils
	and pak winds at 0,5 km are 30-35 m/s.
	I muse at 1 peggore trove some
	for protex slowly
	This appears to be a case of a vortex slowly
	IN EMS FULLO DIEM IN INSEMCE 6
	could be retaining some, though, ast It is decross,
	Charles and a series of