## **Lead Project Scientist**

Date 0/6/20 Storm or Project De | ta Mission ID Flight ID ZOZO 1006 I | Experiment name TAR

Pre-fli	ight	
A	1.	Participate in general mission briefing.
17	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.
Ø,	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.
	7.	Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Director.
1	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.
Image: Control of the	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	
П	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.	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-f	light	Sandana I may be seen That the see to be
	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	data rem	noved 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 Field Program Director
	7.	Determine next mission status, if any, and brief crews as necessary.
	8.	Notify Field Program Director 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 Scientist Check List** 

Storm	or	Project	Delt	u
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Experiment name TAD NHO he

Flight ID	700-	0.0.1.0
Flight ID	20,501	00611

Mission ID

## A. Participants:

Function	Participant	Function	Participant
Lead Project Scientist &	gers Dunion	Flight Director Luddy	
Radar Rogers		Flight Director Ludaly Pilot Possi, Darchus	
Workstation Roses		Pilot	
Cloud Physics		Navigator Freeman	
Dropsonde Dunin, R	uzes	Systems Engineer Richards	
Dropsonde		Data Technician Mc Alister	
AXBT/AXCP		Electronics Technicians	
Observer/Guest			
Observer/Guest		Flight Engineer	

В.	Take-off	and ]	Landing	Times	and ]	Locations:

Take-Off:	UTC	Location:	FLAL	
Landing:	UTC	Location:		•
Number of Eye	Penetratio	ons:	_	

## C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
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/	YE HAVE THE			
/				100
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D. Mission Briefing: NHC-tasked for misrion into Delta has undergone Rt in past Zu 4 and is now a Cat 4. It is a very small sterm glowing polygonal eyenall structure. The environment remains for verable for constraint that intuisification, through small size and fortential ELCs may constrain that intuisification.

Constrain that intuisification.

Constrain that intuisification.

Phy 2 alpha pottons, IP on HW, both alphas on same orientation. 105 nm pay 2 alpha pottons, IP on HW, both alphas on same availed through drep teg lengths. Drop whiles at ord prints, for w, and cuter, plus availed through drep about I min prints to max wind to sample inflows, for each pass. Do gravity wave middle, likely in St quad., for min, of 60 am, Phy 10 tother.

## **Lead Project Scientist Event**

Date OLL(20

Flight ID 201006 DI LPS Rogers, Dumin

Time	Event	Position	Comments
2119	tweept	KEAL	
2350	065	SE outborned	1st pass had very
		lea	different structure
			transacticipated.
		only 105	CFL 105 KtSF. Alm
		a gird-	the exercial appearan
		Possible El	20 7,
0015	065	very broad or	who wind make on NW
	/	side, likel	m britar aster an tren y
		very small cla	
		seems to be stone	19 ling. Not sure why.
0054	065	openeyenal	on S side
0134	pattern	clowwind leg	on cont do a growny w
		5 side	Midule on SE side 6
			ned fix eary. No to
			for wodule now. Will
3		fry	I are term to sw here
0239	obs	downwird leg	swath analyses on W
		on W side	pass shows will max
		1-1	180 da out & phase
			1149 km. Wind nex on
			Ikm, on WE at 9 km
0350	obs	Lighter	ry in S eventur (DSL)
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		- June	i to Ws w from low-lov
		0 0 V	from like much, but the
	L	1 1/554 1	1 5 P 110
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0634	(ouding	KLAL	