## **Lead Project Scientist**

Date 10/8/20
Storm or Project A. ...
Mission ID

Flight ID 2020 100821
Experiment name TDR + kitchen sink

IVIIOSIO	11 11	
Pre-fli	ght	
	1.	Participate in general IIIefing.
	2.	Determine specific mission and flight requirements for assigned
	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.
	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 drop times.
	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.
	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	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 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	oved from the aircraft by HRD personnel should be cleared with the AOC flight director.]
S	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 Delta

Experiment name TNO

Flight ID 70201008 11

Mission ID

#### A. Participants:

Function	Participant	Function	<b>Participant</b>
Lead Project Scient	ist Mosers, amm	Flight Director Lundy	
Radar Gamach		Pilot Pussi	
Workstation Res	ers	Pilot Dorewus	
Cloud Physics	and the state of t	Navigator Freewon	
Dropsonde Qui	ou, Roses	Systems Engineer Richard S	
Dropsonde		Data Technician Ma Alliste	
AXBT/AXCP		Electronics Technicians	
Observer/Guest			
Observer/Guest	•	Flight Engineer	

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

Take-Off: 202	UTC	Location:	KLAL	
Landing: Odl 7	_UTC	Location:	KIAL	

Number of Eye Penetrations:

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

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
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1				
1				1999

D. Mission Briefing: TOR mission into Delta. Dolta vas slowly strungtioned in the nestern Gulf. Environment is still somewhat forerable, with most of six shear and norm waters. Carrent sutellite mayer showing clay convertion firing his ide follow with waters. Carrent sutellite mayer showing clay convertion firing his ide follow for N side, FF on SENR. EMC hops a Portated fig. 4, 18 on N side, FF on SENR. EMC hops a Portated fig. 4, 18 on N side, FF on SENR. EMC hops a land, mid, 1st Mts ander 18 sould 2nd contractor from Superable. It sends display diagon for term to propose on RMW SW, NE; FTCP Fingle RMW dop NW, SE. IR sends display diagon for term to the transfer on the superable of the 250s print to endpts. BT drop at Eendpt. Overfly Dwy 42360 on fearly, Fly straight level for 250s print to endpts. BT drop at Eendpt. Overfly Dwy 42360 on fearly, Fly straight level for 250s print to reaching buoy then 90° term, drops or delice) It has 250s.

Storm or Project	Experiment name
Flight ID	Mission ID

E. - Equipment Status (Up U, Down D, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cus /Expendables/ Printouts
Radar/LF			6.00	
Doppler Radar/TA				
Cloud Physics	Print Add Add			3.6
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

#### **REMARKS:**

AF loves sturn, then climb to 10 Fet. 105 nm by basytra

## **Lead Project Scientist Event**

Date ty 8/20

Flight ID2020 MR TI

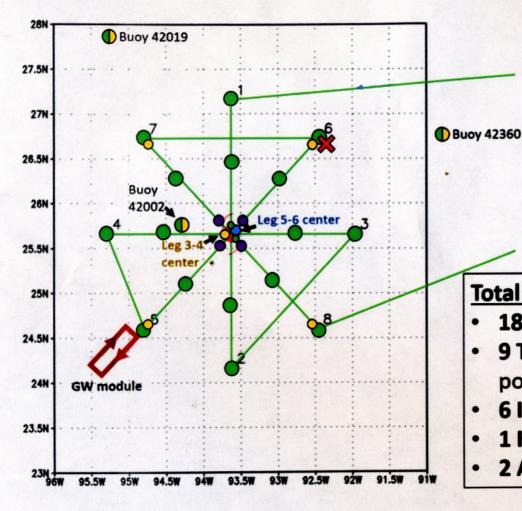
IDS GREETE DILLEM

Time	Event	Position	Comments
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	coult of o	ed not overful bu	94.
2308	Pattern	atir	4
0001	065	1st Lownwird L	ey, highly asymmetric,
		5	
		on h	I side, both FL of SF;
		open exemple	I on 5, SE; nearly pre-
			los > obvious sw
		shor stra	
2118	Alight	lostinterne	+
2121	065	order wend p	on (SL, precip-free
7135	pattern	at 5W end of	beging gravity wave wo
			go outland to Sw, then
		<u> </u>	return
5153			begin reciprocal leg of wave module
00.00	antle or	- 1	wave module
2206	pattern	end granty was	
3338	olss	ilsomed NW	radar analyses show with
			ent. Very little if any
		filt, but	show is 115 Hard
134	1	Carlina How	and precipe distribution
> > 9	065	pary ume	Good mission, almost al
03,6	expes accom	pushed, runp	and precip. distribution Good mission, almost al autor of 4 rador analyses, 33 noy overflights. About 24.
us in a	its tailure of w	13 KA prevented P	noy overdights. He must 21.
ses mone	it is tome for	00 7 cycle; rost	sed, it could generally on may have been cretainly

expendo worked ex turkel wer

exprecip. It soule on SE also showed 25.7. That may be early in right rear und. Storm is resiliant. Even though profiles of radial flow and precipalist. Even though profiles of radial flow and precipalist.

# NOAA43: October 8, 21Z takeoff



- EMC drop (16 end/midpoint+2 center)
- IR drop (5)
- Buoy drop (IR drop if no precip) (1)
- TCRI center drop: leg 5-6 (1)
- TCRI RMW drop: legs 5-6, 7-8 (4)
- X AXBT double drop: point 6 (2)
- Gravity Wave module: 10kft for 40-60nm southwest from point 5, turn around and continue pattern. (also possible from point 8)

## Total expendable payload:

- 18 EMC drops (16 end/mid, 2 center)
- 9 TCRI drops (4 RMW, 1 Center, 4 for possible rapid sequence on leg 5-6)
- 6 IR drops (4 end, 1 center, 1 buoy)
- 1 HRD drop (for buoy drop, if not IR)
- 2 AXBT (for double drop at point 6)