Lead Project Scientist

Storn	n or P	roject Chris Experiment type TDR	
Fligh			
Prefli	ight	The state of the s	
1	1.	Participate in general mission briefing.	
1	2.	Determine specific mission and flight requirements for assigned aircraft from the Fi Director.	ield Program
1	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.	
1	4.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial bri	efing.
*	5.	Determine from AOC flight director the mission designation and whether aircraft has of responsibility.	perational fix
*	6.	Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide corequirements and provide a formal briefing for the flight director, navigator, and pilots.	pies of flight
X	7.	Report status of aircraft, systems, necessary on-board supplies and crews to Field Program	n Director.
XXX	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of dro	ps.
X	9.	Make sure each HRD flight crew member has a life vest.	
7	10.	Perform a headset operation check with all HRD flight crew members. Make sure every and speak using the headset.	one can hear
In-Fli	ght		
1	1.	Confirm from AOC flight director that satellite data link is operative (information).	
X	2.	Confirm camera mode of operation.	
XXX	3.	Confirm data recording rate.	
X	4.	Request AOC flight director to leave radar in non-sector mode for initial Figure 4.	
X	5.	Once at IP, request AOC flight director adjust radar tilt to minimize sea clutter.	
X	6.	Complete Lead Project Scientist Form.	
+	7.	Check in occasionaly with the flight director to make sure the mission is going as planned (i.e. to when they are supposed to be made).	urns are made
Post f	light		all FL
X	1.	Debrief scientific crew.	
X	2.	Gather completed forms for mission and turn in to data manager at HRD.	SAMR1
X	3.	Obtain a copy of the Dropsonde raw and processed files from the AVAPS operator on thumb drive.	SAMR2 TOR
X	4	Obtain a copy of the radar I F files from the radar technician on thumb drive.	TOR
A	5.	Obtain a copy of the tar'ed radar TA files from the radar scientist on thumb drive.	AVAPS .
× ×	6.	Obtain a copy of serial flight data and raw NetCDF file on thumb drive from the data technician.	4 microphysics
×XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7.	Obtain a copy of SFMR data on thumb drive from the data technician.	AVAPS microphysics
1	8.	Obtain a copy of DMT data on thumb drive from the data technician.	MAR
-	9.	Report landing time, aircraft, crew, and mission status to the Field Program Director.	
1	10.	Determine next mission status, if any, and brief crews as necessary.	

Prepare written mission summary using Mission Summary form.

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Lead Project	t Scientist	Check	List
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Storm or Pr	ojectC	inis	Experiment	name_TDR
Flight ID	2018070	941	Mission ID_	1132018

A. Participants:

HRI)	AOC		
Function	Participant	Function	Participant	
Lead Project Scientist	Kelly	Flight Director	Mike H.	
Radar/Workstation	Sim .	Pilots	Kahn Mitchell Dommis	
Cloud Physics		Navigator Systems Engineer Data Technician	MIKEM. Dans Mikem. Lator	nd
Dropwindsonde	Bachir	Electronics Technician		
AXBT/AXCP Photographer/Observer	-	Other AVAPS	Harrouger	
s/Guests			Circle	

B. Take-off and Landing Times and Locations:

Take-Off: 8:32 UTC Location: Lakeland Landing: 1552 UTC Location: Lakela

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Z A	Date/Time	Latitude	Longitude	MSLP	Maximum Wind
U	9 July 18 ~ 62	32.5	24.5	1002	50 kt
	124	32.4	74.5		looket

D. Mission Briefing:

- Ships & Lacin estimate 36th rs until Cat I strength

* VWS: 11kts @ 354°

* conv. to east of center; obvi entrain.dry air(s, sw)

* Stationary-ish 2 et@ 110

* pretty any (~40-1-12H) *

* center exposed * * x signif. dry air west/north of TC * x rotated fig 4 (108KA, 1010kH orhight)

* potential sonde on transithone

8 sondes expected

Storm or Project	Chris	Experiment	name_TDR
Flight ID 2019	80709 HI	Mission ID_	AL32018

E. —Equipment Status (Up ↑, Down ↓, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight		# DATs / CDs /Expendables/ Printouts
Radar/LF	MMR	testing w	lengineers	
Doppler Radar/TA	1	1		
Cloud Physics	+	1		
Data System	1	1		
GPS sondes	1	1		
AXBT/AXCP		-		
Ozone instrument				
Workstation	Ŷ	1		
Cameras	4	1		

remarks:

initial network issues due to MMR testing + resolved

ipotential bug in aspea (NAHO MISSAGE SAVES

- Malle sure you click save if WMO messege
is changed (i.e. to add "CENTER")

- 10st station 2 (ASPEN)-frozen
- We need Drives sent to LPS station to check wmo messages & dictate spicish sip & wind to FD

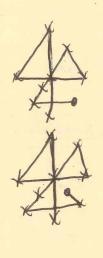
Lead Project Scientist Event Log

Date 9 July 18 Flight ID 20180709H1 EPS KOLLY

Time **Event** Position Comments laxeland 8:31 8:57 beginning to South-Side elevall on nos 10:05 sonde 3 north * can see partial eyewall or west side (MMR!)

* seeing lightning

Lead Project Scientist Event Log 954418 Flight ID 2018 0909H1_PS Kell **Position** Comments Time Event Sonde 4 dispped stringest variaband * pretty creer out here ate SW end Date BOBBBB Flight ID 2018070711_LPS_



Time	Event	Position	Comments
1337	3118 NS	sonde 11	SE end
	77337WS	= t Shiwates	
	L	144-7	
911-97		Hardy on	- A
1347)31.68 NG	sonde 12	SE MID
AN	773,91W)	The Robert Contract C	
	Xin	strat rain	
NO	CONTER SO	NOE this leg	
*3\+A	0 32.11	The trace	
	Boad N. C	centerpo	sition
	7450W	,	
		of Marie V	Comment of the second
	(000)	n n	
CIT - A+V	>3468 NG	Sonde 13	mid NW
- 4 + W.	77579 WS		
			THO /
1 24/40	C-12117		
1419	7584 WZ	Sonde	14 end NW
1101	533 IN		V
S. Paril	2	A. T. T. S.	
1001	531,07 N	Candaly	0 2210
1454	5780110	2 50 nde 15	a chart
The State of	778.01 W	How	Set
	* near	ary region as	(ording to TPW)

justmorth of convection along-boundary (SN near-TC en.)

Observer's Flight Track Worksheet

Date Flight Observer	
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Longitude (°)

Took pics of env. conditions instead of drawing be presentation enanged significantly during stight

Latitude (*)

Mission Summary Storm name YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)
Lead Project Scientist Kelly
Radar Scientist Sim

Cloud Physics Scientist_

Cloud I hysics belenust
Dropwindsonde Scientist Bachir
Boundary-Layer Scientist
Workstation Scientist
Observers (affiliation)
Nission Briefing: (include sketch of proposed flight track or page #)
dission Synopsis: (include plot of actual flight track)
- 3 rescarch sonder (mid-pt) *MMR 190KS - 1 transit Much better!
* TDR & sondes successful
valuation: (did the experiment meet the proposed objectives?)
TC started (Fended) asymmetric, but charged
of the state of th
orientation throughout mission. Begin: heavy come w/s of center
and heavy come also departed Saw marks I misked
end: heavy conv. e/n of center. Saw partial rainbands throughout fright cooresponding to said convection roblems: (list all problems)
a Anna wardetelling hose 1x
a -A US moved to this seat t aspen used on US workstaction
-> Using station? For LPS is not recommended in furver
expendables used in mission: (could not load Satellite or
CDC 1
AXBTs: O any whist Under to 30 min
AXBTS: any website under 20-30 min even NHC homopage)
Sonobiovs:
Gonobuoys.