Lead Project Scientist

		Project_TD03 Experiment type_TDR
Flight	t ID _	20180708H1 Mission ID 0303 achis
Prefli	ght	
X	1.	Participate in general mission briefing.
*	2.	Determine specific mission and flight requirements for assigned aircraft from the Field Program Director.
	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.
X	4.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
X	5.	Determine from AOC flight director the mission designation and whether aircraft has operational fix responsibility
<u>X</u>	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.
X	7	Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Director.
X	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drops.
X	9.	Make sure each HRD flight crew member has a life vest. SWITUK
X	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	
1	1.	Confirm from AOC flight director that satellite data link is operative (information).
X	2.	Confirm camera mode of operation.
XXXXX	3.	Confirm data recording rate.
$-\frac{\chi}{\chi}$	4.	Request AOC flight director to leave radar in non-sector mode for initial Figure 4.
7	5.	Once at IP, request AOC flight director adjust radar till to minimize sea clutter.
$\overline{\lambda}$	6.	Complete Lead Project Scientist Form.
X	7	Check in occasionaly 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	
X	1.	Debrief scientific crew.
X	2.	Gather completed forms for mission and turn in to data manager at HRD.
1	3.	Obtain a copy of the Dropsonde raw and processed files from the AVAPS operator on thumb drive. Obtain a copy of the radar LF files from the radar technician on thumb drive.
Y	4.	Obtain a copy of the radar LF files from the radar technician on thumb drive.
*	5.	Obtain a copy of the tar'ed radar TA files from the radar scientist on thumb drive.
X	6.	Obtain a copy of serial flight data and raw NetCDF file on thumb drive from the data technician.
X	7	Obtain a copy of SFMR data on thumb drive from the data technician.
4	8.	Obtain a copy of DMT data on thumb drive from the data technician.
Z LLZZZZ	9.	Report landing time, aircraft, crew, and mission status to the Field Program Director.
\rightarrow	10.	Determine next mission status, if any, and brief crews as necessary
X	11.	Prepare written mission summary using Mission Summary form.

Lead Project Scientist Check List

Storm or Project_TD3	/TSChris	_ Experiment	name_TDR
Flight ID <u>2018</u> 070	841	Mission ID_	0303 Achris

A. Participants:

HR	D	AOC		
Function	Participant	Function	Participant	
Lead Project Scientist	KRyan	Flight Director	M Holmes	
Radar/Workstation	S Aperson.	Pilots	Kann, Mitchell Dormus	
		Navigator	Richards	
Cloud Physics		Systems Engineer	MixeM	
		Data Technician	Mike M.	
Dropwindsonde	Bachir	Electronics Technician		
AXBT/AXCP		Other AVAS S	Heurtberger	
Photographer/Observer		1/01/6 3	11001 12019 01	
s/Guests	Mignel			

	В.	Take-off	and l	Landing	Times	and	Locations:
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Take-Off: 833 UTC Location: Lakeland Landing: 1703 UTC Location: Lakeland

Number of Eye Penetrations: Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
8Jaly:0545Z	32.2	75.5	1014	25 kts
8July: 12002	32.8	74.9		40Kts
	development	NFZhours		
-> this		ing the		
		J		

D. Mission Briefing:

* Initial figure-4 w/ and center drops, followed by circ. nav. @ 70 nmi w/ drops every 45°; 13 total expected sondes

* Astorm presentation: broad circulation w/ convection to south along

E-W direction; exposed center; frontinto North; motion = 0 kts

Storm or Project TS Chris	Experiment nameTDR
Flight ID 20180708 H2	Mission ID 0303 achins

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	1	1		
Doppler Radar/TA	1	7°		
Cloud Physics		-		
Data System	1			
GPS sondes	1			
AXBT/AXCP	CONTRACTOR AND ADMINISTRATION OF THE PARTY O	articular application and the second	- Author Microsoft Commonwealth	Commence
Ozone instrument	The second second			-14 -0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Workstation	4	I and fixed may	indes -	
Cameras		-		

REMARKS:

* Newest Nevsion of Aspen not on workstation (except flight director) -> downloading from NCAR site (YAY for Sim!) * NO MMR today !!

* multiple issues w/ rador workst. (the part)

* Continuing workstation issues
-LPS * radar
cursor no control
disappears
then
all control

(Kupacud trackpad)

Lead Project Scientist Event Log

Date 7/8/18 Flight ID 20180708H1 LPS VILLY

Event Time **Position** Comments takeoff 10:11 77,6 the situational awar Kan: 11:10 11:12 12:30

EH Sensor: 100% to surface



(obvi not 1001. to surf.) ?

Lead Project Scientist Event Log

Date 78708 Flight ID 20180708H1 LPS KILLY

Time	Event	Position	Comments	*
12:57	531.18 A	17	Sinde reflecte (5)	X
	71.19	NS	4 South and pt	1
1			•	
AND	NOW WE C	MB to 2	10 kft	
	>3196	N7		*
	77410	W S	Sonde rei (4)	
12.23	(11.14		Circumnau #1 drop	× ,
13:33		wing chippe	ed away	×
	FL tem	l ~ 16 kt ti		
	* rurrently	under cirr	us Sheild	
		ound convector		
				b s
13.48 Tis	h) > 0000	32.28N C	Sonde rel (7) circ.#2	
	7	\$ 75.39W	circ.#2	X
13:54	l .	(pilots can't	see blc	*
1101		sheld)		
14:01	**************************************			
	* 10 kf+	due east of 1	ast tix	
MARAUN A	ARRIVA	$\Lambda \wedge \Lambda$	Manuar Marx	
MATTER		XXX	States	*
, \	A LEAD D			V
N.35	>33 9 N	_	sond(8)	X
	773.9 W		Cvc.#3	×
			D	
Cl	JMBING	AGAIN !		

Lead Project Scientist Event Log

Date 8 July 18 Flight ID 20180708H1 LPS Kelly

Time	Event	Position	Comments
14.45) 34.05 N	7	Sonde (9)
	774.99 W	V 5	Circ #4
		~5200 m	ter
	T	~5200 me ~ - 2.8°C	
14.50	>33,71	N	Sonde (10)
) 760 07 V	U	circ. #5
		~ 20 484	
	TN	-3°C	
			1
15:06	532.941	U (Sorde (1)
	17645 N	V	circ. #6
	(- (~6400m	
15,16	< 32.01	NZ	Sonde (12)
	S 32.01 S 76.09	WS	arc. 7
	(
15:20	C 3172	NO	Sonde (13)
	< 75.31	DW 7	circ. 8
,			Section 1
	, , , , , , , , , , , , , , , , , , , ,		

Longitude (°)

It would be nice to have this multiple times since TC changes quite a bit during each mission

Mission Summary Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)
Lead Project Scientist

Radar Scientist_

Cloud Physics Scientist_

Dropwindsonde Scientist
Boundary-Layer Scientist
Workstation Scientist
Observers (affiliation) Miguel
Mission Briefing. (include sketch of proposed flight track or page #)
Figure 4 plus circumna @ 70 naedmi
Mission Synopsis: (include plot of actual flight track) "Much of 1st leg + downwind seent fixing issues (below), but
TDR analyses were not delayed.
· fig 4 completed as planned@ 8xft
& circumary: artitude fluctuated between \$10-20 Kft mobilens arose
due to rack of visual (pilots) more so we descended for a few sondes
Evaluation. (did the experiment meet the proposed objectives?)
Evaluation. (did the experiment meet the proposed objectives?)
*Wapped award east side forms should developed as we started award ranks, j conv. popped in sw quad. *SPME intensity reached -Yokts, malp at "bolomb, estimate that 1st center fix was to fav north, 2nd fix looked spot on Problems: (list all problems) can I list all non-problems? Mike H. processed - ASPIN not wailable on workstations (except FD) The first 5 sondes
" wy a spect around part side through should developed as we
Started river in conv. popped in SW good
· SPMR intensity reached -40kts, msip est ~ bolomb
· estimate that 1st center fix was to few north, 2nd tix looked spot
Problems: (list all problems) can I list all non-problems. I Mike H. processed
- ASPEN not wailable on workstations (except ED) # - This 5 sondes
C/3 horsection in control (and of thank by a Great
Expendables used in mission. I - when copying to external disk,
GPS sondes 13 AXBTS. 0 AXBTS. 13
AXBTs.
=> TDR jobfus (tax, zipped)
Sonobuoys: 0 could not be saved (~5.6)