Lead Project Scientist

		Project Stordon Experiment type TDR
		180903 H1 Mission ID
Prefli	ght	
	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.
$\overline{\nu}$	4.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
	5.	Determine from AOC flight director the mission designation and whether aircraft has operational fix responsibility
/	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 drops.
_/	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-Fli	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.	Request AOC flight director to leave radar in non-sector mode for initial Figure 4.
	5.	Once at IP, request AOC flight director adjust radar tilt to minimize sea clutter.
	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. turns are made when they are supposed to be made).
Post f	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 Dropsonde raw and processed files from the AVAPS operator on thumb drive.
	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.
	6.	Obtain a copy of serial flight data and raw NetCDF file on thumb drive from the data technician.
	7	Obtain a copy of SFMR data on thumb drive from the data technician.
	8.	Obtain a copy of DMT data on thumb drive from the data technician.
	9.	Report landing time, aircraft, crew, and mission status to the Field Program Director.
	10.	Determine next mission status, if any, and brief crews as necessary
	11.	Prepare written mission summary using Mission Summary form.

Lead Project Scientist Check List

	RD	AC	AOC		
Function	Participant	Function	Participant		
Lead Project Scientist Radar/Workstation	Rogers/Christ, Christophorsen/. Rosers	Flight Director Pilots Navigator	Sears Price, Abothor		
Cloud Physics		Systems Engineer Data Technician	Richards Mascaro Greene		
Dropwindsonde AXBT/AXCP Photographer/Observe s/Guests	Hazelfon/Christop. Hazelfon r Ahara (FSV)	Electronics Technician Other	Viderwood		
,					
C. Past and Forecast S	torm Locations:				

D. Mission Briefing: Conduct EMC-tasked mission into TS broadon. Gordon has developed from a wave moving twough FC Keys. Encountering 5; son shoot from upper-level low to 5 and 5w of storm. Orgain on south side too. Broad precips well to WE over EL penishula. For ecast calls for Gerdon to track quick to NW, WWW over castern Gulf into LA/MS border in N 36 hours, Potential for intensification, e specially it shear relaxes and symmetrization occurs. By L-shapel line gloriting N-5 at a grue, then E-W at 25 N at ~18 kft, sopposing millerels, Than descend to look for lifewiral circles, EB would. Then butlerly, Il on steely, in the starting N on weeks, proposat trues, mids, cerder, pissible from Mids, N

Storm or Project TS Gerden	Experiment name_TDR
Flight ID 180903H1	Mission ID 0 207 A

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF	1			
Doppler Radar/TA	1			
Cloud Physics				
Data System	1			
GPS sondes	1			
AXBT/AXCP	1			
Ozone instrument	Charactery,			
Workstation				
Cameras	1			

REMARKS:

Lead Project Scientist Event Log

Date 9/3/18 Flight ID 18090 341 LPS Rogers Corristopheren

Time	Event	Position	Comments
2027	talceoff	Lakeland	
2052	tern, dripl	NU FORM,	Legrove N-S kg a
	,	NU porred,	17 Eft in mostly
		28N 84W	citrusstield
2105	2000	27484W	
2105	ohs	middle at N-S	cloor below, cerrus
		1eg, wifforte	shield above
2116	drop3	26 N Byw	climate to 49,26ft
	1		at v Zilo, souls
			released from text
			altitude
2110	pattern	26.9 N 84 W	climb to 19.2 kft
2121	droy	25.5 N 84 W	
122	athen	25.5N BYW	tern to track 90, beg:
	l v		Not lea
130	drap 5	25,5N83,15W	J
2136	1000 5 2006	25,5N 82-6W	
2138	06,5	25,5N82,4W	oladrops#2-3 show
		SEfrenter	smedy air, were the
			Il, which was wist
2 143	dras 7	75.5N82W	Compted leg from W-1
	a a		now descending to
		10 kf4	hadden formerd 1st por
		on SiE	SF winds to went,
		SO NO CONTO	les here, will maybe by
		on NW si	de.

25°04'N 81°48'W

26.4 82.6 rodor-estcenter

Lead Project Scientist Event Log

Date	Flight ID	LPS-	
Date	1 115111 11	EI 5	

Time	Event	Position	Comments
2156	drop8	90 am SE, 1P	F'L30 lds, 5520 lds
2 206	obs	NUSUMSE	smooth here on SEside, cir
2207	Arap 9, BT	45 mm SE	FL 3064, FZ564
2214.			Some bump close to cen
2219	Droplo.	Onter drop	Some bump close to cen 2629' 82°58'
223	PropII BT		
2240	Drop12		end pnt
	Doing STAR Cin	des 3@ 15°, 3@3	0,50450
	SFMR winds a	at the burder line	(2 m/s
	rodar wsks&D	shown during circles	in the middle of two rainband
2310	BT, didn't	have any good dat	ler en
	contine 45	bank of the STAIR ci	rdes
2320	Has to return	to the base, due to	me chania issue
31.34			

Mission Summary Storm name

YYMMDDA# Aircraft 42RF

Scientific Crew (4 RF) Lead Project Scientist Rogers Christopherson Radar Scientist Rogers Hazelton Cloud Physics Scientist Dropwindsonde Scientist Christopherson Hazelton Boundary-Layer Scientist Workstation Scientist Observers (affiliation) Kyle Ahem (FSU)
Mission Briefing (include sketch of proposed flight track or page #)
Initial 20 kft survey pattern then descend to 10 kft to do a notested butterfly pattern.
Mission Synopsis: (include plot of actual flight track)
Initial 2014 to first 'L'survey pattern, then descend to 1014 totas & side of the storm ~ 90mm away from the storm At the end of leg we did 3@ 15°, 3@ 30°, 5 at 45° SFMR Evaluation. (did the experiment meet the proposed objectives?) circles
Mission has to be aborted due to mechanic issues.
Problems:(list all problems)
Hydralic issues with engine #1
Expendables used in mission. GPS sondes AXBTs: 3 released, only one was working (#2) Sonobuoys: