## Lead Project Scientist

Storm	Storm or Project   Dordon   Experiment type   D				
Flight	tID_	180903 H1 Mission ID			
Prefli	Preflight				
	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.			
V	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-Flight					
	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

Storm or Project	5 Garden	Experime	ent name	R	
Flight ID 18090	3 HI	Mission I	D 0207A		
A. Participants:					
Н	RD		AC	OC	
Function	Particip			Participant	
Lead Project Scientis	t Rocerci	Christ Flight	Director	Sears	
Radar/Workstation	CALL LAND	1 SEU/ . 1 110ts		Q: M. 41 1 1	
	Ro	als N	Anna de la companya d	^	Dore
CI I DI		Naviga		Richards	
Cloud Physics			s Engineer	Mascaro	
	***************************************		echnician	Greene	
Dropwindsonde	Hazelfonla	-191510/-	nics Technician	Underwood	
AXBT/AXCP Photographer/Observ	Hazelfer	Other			
s/Guests	er Avanci	-307_			
B. Take-off and Land Take-Off: 2026 UT	C Location:	IAL			
Landing: 6000 UT	C Location: _	LAL	-		
Number of Eye Penetr	ations:				
C. Past and Forecast	Storm Location	ns:			
Date/Time	Latitude	Longitude	MSLP	Maximum Wind	
	i je ma				

D	Date/Time	Latitude	Longitude	MSLP	Maximum Wind
				That have	
-					

D. Mission Briefing: Conduct EMC-tasked mission into TS brandom. Gordon has developed from a wave moving twoogh FC Keys. Encountering 5; 5W shoot from upper-level low to 5 and 5w if storm. Dry oir on south side fro. Brood precips head to WE over EL penishula. Forecast could for Gordon to track quick to NW, WWW over castern Gulf into LA/MS border in N 36 hours. Potential for intensification, e spreadly it shear relaxes and symmetrization occurs.

Ay L-shapel line starting N-5 at a grow, then E-W at 25 N at -18 keft, soprophing millends. Then descend to locat locate for pitaitial circles. EB would. Then butlefly, If on site it at will a content of the property.

Storm or Project_TS Gardon	Experiment name TOR
Flight ID 180903KG	Mission ID 0707 A

#### E. —Equipment Status (Up $\uparrow$ , Down $\downarrow$ , Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF	1			B1 2
Doppler Radar/TA	1			
Cloud Physics				
Data System	1			
GPS sondes		,		
AXBT/AXCP	T			
Ozone instrument	Climatermanage			
Workstation				
Cameras	1			

**REMARKS**:

### Lead Project Scientist Event Log

Date 9/3/18 Flight ID 18090341 LPS Rogers Christopheren

	Time	Event	Position	Comments
	2027	takeoff	Lakeland	
	2052	tern, drop	Nu parel,	beginning N-S legat
		,	17 Eft.	beginning N-5 legat
			28N 84W	Corruspireld
	2105	drop 2	27N84W	
7	2105	obs	made of NS	clear below, cerrus
			leg, w, forter	shieldabre
-	2116	drop3	26 N 84W	elimbel to 49,26ft
		1		at ~ Z110., souls
				released from that
				altitude
/	240	pattern	26.9N 8UW	climb to 19.2 kft
	2121	dropy	25.5 N 84 W	
	2122	pattern	25.5N BYW	turn to trook 20, begin
		1		Not leg
	2130	drap 5	25,5N83,15W	J
	2136	drop6	25,5N82-6W	do
	2138	065	25.5N82.4W	olgolops#2+3 show
			SEnfewter	Somedy art, were then
	1.64			Il, which was noist
	2143	drop 7	25.5N82W	complete leg from W-E
		0		now descending to
			10 kP4,	leading toward ist point
			on Sie,	SF winds for weat,
				les here, will maybe fry
			on NW si	de.

7504N 8198W IP

26.4 82.6 rodor-estcents

### Lead Project Scientist Event Log

Date	Flight ID	LPS
Date		

	Time	Event	Position	Comments	
	2156	diop8	90 am SE, 1P	F'L30 ldf, sf20 ldf	
	2206	obs	NUSUMSE !	smooth here on SEside , cir	٢
	2207	Arap 9, BT	USunSE	FL 3014, 472514	<
1			•	Made experience (2)	-
10	2214.			some bump close to cent	
	.2219	· Droplo,	anter drop	2629' 82 58'	
m	223	PropII. BT			
in	2240	Drop12		end pnt	
			3 @ 150 3@ 30		
)			the burder line 1		
	<u> </u>	rodar wsks&D 5	nown during circles in	the middle of two rainbands	
	2310	BT. didn't he	re any good dater		
			k of the SFMR circ		
	2320	Has to return to	the base due to	me chamic issue	
		* * * * * * * * * * * * * * * * * * * *			
			· · · · · · · · · · · · · · · · · · ·		
				,	

# 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 Chrispherson / Hazelton
Boundary-Layer Scientist
Workstation Scientist
Observers (affiliation) kyle Ahem (ESU)
Mission Printing (in study of suggested of suggest track or nace #)
Mission Briefing: (include sketch of proposed flight track or page #)
Initial 20 kft survey pattern then dexend to  What to do a rotated butterfly pattern.
loket to do a rotated butterty patient.
Mission Synopsis: (include plot of actual flight track)
THE IAI
Initial south to finish "L" survey pattern,  gonn then descend to 10 kH todosE side of
gonn then descend to 10 kH todasE side of
and the state of t
At-12 end of log we did 30 15°, 30 50°, 5 at 45° SFN
Entering (1:14) and in the managed chication (2)
Evaluation: (did the experiment meet the proposed objectives?)
Mission has to be aborded 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 morking (#2)
Sonobuoys:
20110010,01