## Radar Scientist

Flight ID_	20180708HZ Storm 75 Chris
Radar Scie	entist Marky Christopherseys Radar Technician Peale
on his/her a	board radar scientist is responsible for data collection from all radar systems assigned aircraft. Detailed operational procedures and checklists are contained ator's manual. General supplementary procedures follow. (Check off or initial.)
Preflight	
1.	Determine status of equipment and report results to lead project scientist (LPS).
	Confirm mission and pattern selection from the LPS.
3.	Select the operational mode for radar system(s) after consultation with the LPS.
4.	Complete the appropriate preflight check list.
In-Flight	
1.	Monitor the Tail Doppler Radar function regularly, using the real-time TA display, to make sure the Doppler radar is scanning and working normally.
2.	Once at the IP, request that the tilt be adjusted to remove sea clutter.
3.	Request that the LF radar is set to full scan (non-sector mode) for first Figure 4.
4.	Maintain the Doppler Wind Parameter form as well as a written commentary in the Radar Event Log of event times, such as ending and restarting of radar recording. Also document any equipment problems or changes in R/T, INE, or signal status.
Post flight	
<u></u>	Complete the summary checklist and all other appropriate forms.
2.	Download all Belly (LF) scan radar data files to thumb drive.
3.	Download all tar'd (TA) radar data files to thumb drive.
4.	Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
5.	Debrief at the base of operations.
6.	Determine the status of future missions and notify HFP Director as to where you can be contacted.

HRD Radar Scientist Check List
Flight ID: 2018 0708 HZ
Aircraft Number: N4ZR=
Radar Scientist: Marks / Chistophersen
Radar Technician: Peale
Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):
Radar Computer
Lower Fuselage (LF) Antenna MMR
Tail (TA) Antenna
Radar Post flight Summary
Significant down time:
Radar LF
Other Problems:  - Need to resolve issue with
on-aircreft Jobbile app (details
are morred of radarsync - a ferminal
- nad to come and jobile, once we
on-aircreft, jobfile app (defaults  are worked)  - nad to restant radar sync - n fremind  window to receive 2nd jobfile. Once we restarted it worked fine jobfile getting offer  still issue with realthur jobfile getting offer

## **HRD Radar Event Log**

Flight ID 20180708#2 Storm TS Chris								
Radar Scientist Marks/Chrkfophrem Radar Technician Peak								
(Include down time and times of when recording ended and was restarted)								

Time (HHMMSS)	Event
2332	70
2355	start to set up TDR
0001	TDR set up complete
20333	TDR shut down
_	- all TDR date put on partole
	harddrive
	manitored MMR devile flight
	took a number of pictures of
	display on charlel 13 along
	with Dictures of concident
	Nose vadar.

**Doppler Wind parameters** 

Flight ID: 20180708 H2  Doppler flight-leg notes (for use in automatic QC and analysis)  Scientist: Marks / Christopho								phore			
Leg Start Time	Leg End Time	Storm Motion		Time	Center Fix  Latitude	Longitude	Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent ?
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)
0057	015830	135	2	013140	32,5	745	090	090	717		vke
015830	023200						315		245		
023250	032940	135	2	0301	32.4	74.4	180	180	245	5	7 H
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K	radan	Sync	WIN	radars	ic who	dow a	nd rest	at 6	7865/le	to wat	5