## **Radar Scientist**

Flight ID_	2016/10087 Storm Walther
Radar Scie	entist Christophoson Gama Chadar Technician Mascarn
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).
2.	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.
<u></u> 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.
<u> </u>	Download all Belly (LF) scan radar data files to thumb drive.
<u> </u>	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:2016 1008 I
Aircraft Number:
Radar Scientist:
Radar Technician: Mascaro
Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):  Radar Computer  Lower Fuselage (LF) Antenna  Tail (TA) Antenna   Tail (TA) Antenna
Radar Post flight Summary
Significant down time:
Radar LF
Radar TA
Other Problems:

## **HRD Radar Event Log**

Flight ID_	2016/00811	Storm_	Matthew	
Radar Scie	ntist Christopherson (	Gamachadar T	Technician	Mascaro
	(Include down time	and times of when	recording ended a	and was restarted)

Time (HHMMSS)	Event
0633	#1 sonde end drop
0629	center pass time 80,6, 31.8 31.48", 80,36" 955
0724	#2 Sonde, end drop
0744	#3 Lligh wind drop; inbound 270°
8/80	#\$ sond, end drop
08 37	#5 soule, and point downward leg (30°)
0934	#6 sonde, max wind dry
0 = 40	#7 sonde, downwind lea
1112	#8 sonde, end point
1200	49. contendrap
	1

**Doppler Wind parameters** 

Flight ID:	20161008I	1	Doppler flight-leg notes (for use in automatic QC and analysis)  Scientist: Christopherson   G							herson   Ga	amache
Leg Start Time	Leg End Time	Storm	Motion	T:	Center Fix	1	Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent
· HHMMSS HHMMSS	Degrees	Knots	Time HHMMSS	Latitude (Deg/Min)	Longitude (Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)	
0633	0724	(0	10	0659	31°48"	30° 36"	o°	66°			
6724	8180	[0	10	0750	3200	કું કુડ્ય	225/270	135°			
0818	0912	10	10	0901	32°7°	80° 22'	270°	600			
10240	(225	12	[8	(900)	32° &7"	79°\$4"	246	210*			
			32 Cap 10 Cap 1 44 Cap								
										1	