Radar Scientist

Flight ID 2016100711	_Storm_	Mathew			
Radar Scientist Evan Kalina	Radar '	Technician Dana	Naeher		

The on-board radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual. General supplementary procedures follow. (Check off or initial.)

Prefligh	nt	
	1.	Determine status of equipment and report results to lead project scientist (LPS).
2	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-Fligh	nt	
1	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	2.	Once at the IP, request that the tilt be adjusted to remove sea clutter.
3	3.	Request that the LF radar is set to full scan (non-sector mode) for first Figure 4.
4	1.	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 flig	ght	
1	. •	Complete the summary checklist and all other appropriate forms.
2	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	٠.	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: 20101007I1
Aircraft Number: N43RF
Radar Scientist: Evan Kaling
Radar Technician: Dang Nacher
Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):
Radar Computer
Lower Fuselage (LF) Antenna
Tail (TA) Antenna $\frac{1/4}{3}$ $\frac{3}{4}$
Radar Post flight Summary
Significant down time:
Radar LF none
Radar TA 200347 - 01 Ward

TDR motor burnout at 200347 utc

Other Problems:

HRD Radar Event Log

Flight ID 20161007II	_Storm_	Matthe	N	
Radar Scientist Evan Kaling	Radar '	Fechnician_	Dana	Naeher

(Include down time and times of when recording ended and was restarted)

Time (HHMMSS)	Event
193800	TDR motor burned out
	Some files until 200347 but antenna was struggling to complete scans
	was strugaling to complete scans
191400	N43RF deviated on both the inbound & outbour
	leas due to convection As a result no
	legs due to convection. As a result no radar cross sections will be generated for these legs.
	Tadm C1092 SCOTION 12 MILL NO SCHOLANCE TO
7	these legs.

Doppler Wind parameters

Flight ID:	2016100=	711		Doppler	flight-leg	notes (for and analys	use in	Scier	ntist: Elav	Kalino	(
Leg Start Time	Leg End Time	Storm M	Motion	T!	Center Fix	T 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)
183400	191400	345	10	184100	29°53′	80°441	45	45			YX
193851	202651	345	10	195851	30°4'	80°45′	155	155			N
									-		