Radar Scientist

Flight ID 20161005I2

Storm Moffhew

Radar Scientist Evan Kaling Radar Technician Dang Meher

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.)

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Preflight		_	
1.	Determine status of equipment and report results to lead project scientist (LPS).	IP	*1
2.	Confirm mission and pattern selection from the LPS.	*	
3.	Select the operational mode for radar system(s) after consultation with the LPS.		3
4.	Complete the appropriate preflight check list.	315	135
In-Flight		45	225
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.	180	0
2.	Once at the IP, request that the tilt be adjusted to remove sea clutter.		
<u></u> 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			
1.	Complete the summary checklist and all other appropriate forms.		
<u>/</u> 2.	Download all Belly (LF) scan radar data files to thumb drive.		
3.	Download all tar'd (TA) radar data files to thumb drive.		
<u>J</u> 4.	Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.		
<u></u>	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

HRD Radar Event Log

Flight ID 201	U1005I2 Storm Matthew
Radar Scientis	et Evan Kaling Radar Technician Dang Nacher
	(Include down time and times of when recording ended and was restarted)
Time (HHMMSS)	Event
201000	Eyewall is comma shaped, open NW (5)
213000	Eyewall is comma shaped, open NW (5) Eyewall now circular, open SW

Doppler Wind parameters

	M	7
4		2

Flight ID: 20161005I2			-	Doppler flight-leg notes (for use in automatic QC and analysis)				Scientist: Evan Kalina			
Leg Start Time	Leg End Time	Storm	Motion		Center Fix	I	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)
195230	204530	2 09.000	Miloto			75347	120°	120°	Delault - 240	Delault - 3	Y
210930	215630			213654	22°42′41″	75°39′59″	245°	240°			Y
221300	225200			222730	22°48′43″	754517"	3 6 0°	3400	i i		Y
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