

Radar Scientist

Flight ID 2016100514 Storm Matthew

Radar Scientist Hui Christopheren / John Gamache
Radar Technician Mascar

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.)

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.
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.
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: 20161005I1

Aircraft Number: NOAA43

Radar Scientist: Christophersen / Gamache

Radar Technician: _____

Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

There were twice power outage during 1215Z to 1238Z.

Mission ID: WC14A

Doppler Wind parameters

Doppler flight-leg notes (for use in automatic QC and analysis)

Scientist: Christopherson | Gamocha

Flight ID: 20161005I1

Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound track	Outbound track	Max Radius (km)	Horz. Res (km)	Sent ?
		Degrees	Knots	HHMMSS Time	Latitude (Deg/Min)	Longitude (Deg/Min)					
093001	103341	350	8	095432	21°14'	74°39'	120°	120°	175		Y
1050	1115						240°	340°			Y
1118	1131			1118	21°32'	74°46'	270°	70°			
1136	1222			1147	21°26'	74°49'	210°	30°			
1147	120619							0°			
1241	1306				21°51'	74°54'		0°			Y

part: change small radial legs