

Radar Scientist

Flight ID 20210810II Storm AL94/T06

Radar Scientist Warky/Reasar Radar Technician Richards

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: 20210810T1

Aircraft Number: N43RF

Radar Scientist: Mark / Peacor

Radar Technician: Richard S

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:

HRD Radar Event Log

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Radar Scientist Marks/Lease Radar Technician Richard

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

Time (HHMMSS)	Event
0839	To Lakeland
1212	Started recording TDR descend to 1000ft just outside outer rain bands
1221	① TR 185 1500' pick our way through rain bands
1248	climb to 2500'
1257	g? just on S side of shear line abrupt windshift not sure of g
1313	② TR 030 along islands
1338	③ TR 225 to 601
1344	g? broad weak minima
1424	④ Turn TR 360 upwind to 61
1458	⑤ TR 135 to g
1504	g? broad weakness in winds
1540	Shutdown radar
	no apparent low-level circulation in TDR analyses

1513 end leg
climb head to
Aruba

