

Radar Scientist

Flight ID 20180904H7 Storm TS. Gordon

Radar Scientist S. Munro Radar Technician T. 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

- SM 1. Determine status of equipment and report results to lead project scientist (LPS).
- SM 2. Confirm mission and pattern selection from the LPS.
- SM 3. Select the operational mode for radar system(s) after consultation with the LPS.
- SM 4. Complete the appropriate preflight check list.

In-Flight

- SM 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.
- SM 2. Once at the IP, request that the tilt be adjusted to remove sea clutter. *already adjusted*
- SM 3. Request that the LF radar is set to full scan (non-sector mode) for first Figure 4. *already in full scan mode*
- SM 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

- SM 1. Complete the summary checklist and all other appropriate forms.
- SM 2. Download all Belly (LF) scan radar data files to thumb drive. *MMR*
- SM 3. Download all tar'd (TA) radar data files to thumb drive.
- SM 4. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
- SM 5. Debrief at the base of operations.
- SM 6. Determine the status of future missions and notify HFP Director as to where you can be contacted.

Mission ID 09047A Gordon

HRD Radar Scientist Check List

Flight ID: 20180904 H1

Aircraft Number: N42RF

Radar Scientist: Shirley Murillo

Radar Technician: Todd Richards

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 display froze around

Radar TA none

Other Problems:

1st and 2nd radar analyses pass were a bit noisy despite there being little returns as shown in the dBZ display. Asked Todd Richards if settings were changed/alterred for previous deployment in Lane in the central Pacific. He said no.

A hand-drawn diagram of a circle divided into eight sectors by four diameters. The sectors are numbered 1 through 8 in a clockwise direction starting from the horizontal radius pointing to the right. The sectors are shaded in a repeating pattern of white and grey.

Flight ID 20180904H1 Storm TS. Gordon
Radar Scientist S. Murillo Radar Technician T. Richards

[illegible]

Scientist: Murillo

[illegible]