

Radar Scientist

Flight ID 20180822 H1 Storm Lane

Radar Scientist Kelly Radar Technician Mike

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

- X 1. Determine status of equipment and report results to lead project scientist (LPS).
- X 2. Confirm mission and pattern selection from the LPS.
- X 3. Select the operational mode for radar system(s) after consultation with the LPS.
- X 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: 20180822H1

Aircraft Number: 42

Radar Scientist: Kelly

Radar Technician: Mascaro

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

[illegible]

Doppler Wind parameters

[illegible]