

Radar Scientist

Flight ID 20160802II Storm EARL Radar Scientist ALAKA

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 realtime TDR display, to make sure the Doppler radar is scanning and working normally.
- ☐ 2. 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 Tail (TA) radar data files to thumb drive.
- ☐ 3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
- ☐ 4. Debrief at the base of operations.
- ☐ 5. Determine the status of future missions and notify HFP Director as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: 2016080211

Aircraft Number: 43

Radar Scientist: ALAKA

Radar Technician: DANA

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

Radar Computer Up ↑

Lower Fuselage (LF) Antenna Up ↑

Tail (TA) Antenna Up ↑

Time correction between LF radar time and digital time: ____

TA Radar Parameters:

(Single/Dual) PRF _____ F/AST (Y/N) Rotation Rate _____ RPM

Sweeps/File _____ Record 2nd Trip (Y/N) (Circle appropriate status)

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

1) Reflectivity KMZ issues on MTS

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

Scientist: ALAKA

[illegible]