

**Radar Scientist**

Flight ID 20160803I Storm Earl Radar Scientist Hui Christophersen

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: 20160803I1

Aircraft Number: N43RF

Radar Scientist: Hui Christophersen

Radar Technician: Richard

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

Radar Computer \_\_\_\_\_

Lower Fuselage (LF) Antenna \_\_\_\_\_

Tail (TA) Antenna \_\_\_\_\_

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 2<sup>nd</sup> Trip (Y/N) (Circle appropriate status)

**Radar Post flight Summary**

Significant down time:

Radar LF \_\_\_\_\_

Radar TA \_\_\_\_\_

**Other Problems:**



