

## Radar Scientist

Flight ID 1303H1 Storm Karen Radar Scientist Hazelton/Sellwood

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: 20131003H1

Aircraft Number: N04442

Radar Scientist: Hazelton / Sellwood

Radar Technician: Bosko

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 2100 F/AST (Y/N) Rotation Rate \_\_\_\_ RPM

Sweeps/File 1 Record 2<sup>nd</sup> Trip (Y) (Circle appropriate status)

#### Radar Post flight Summary

Significant down time:

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

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

Other Problems:



To 1805

## HRD Radar Event Log

Flight ID 20131003H1 Aircraft NOA42

**Radar Scientist** Harshika / Sellwood **Radar Technician**

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

[illegible]



## Doppler Wind parameters

[illegible]