

## Radar Scientist

Flight ID 1303H1 Storm Karen Radar Scientist Hazellon/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: N00042

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/N) (Circle appropriate status)

**Radar Post flight Summary**

Significant down time:

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

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

**Other Problems:**



