

## Radars Scientist

Flight ID 20170824#1 Storm Harven

Radars Scientist Jun Zhang Radar Technician Bobby Peek

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 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: 20170824H1

Aircraft Number: N42

Radar Scientist: Jun Zhang

Radar Technician: Bobby peek

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:**

