

**Radar Scientist**Flight ID 181010H1 Storm MichaelRadar Scientist Hazeltine Radar Technician \_\_\_\_\_

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: 181010H1

Aircraft Number: NOAA 42

Radar Scientist: Hazleton

Radar Technician: \_\_\_\_\_

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: TA down at 1407-1408

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### HRD Radar Event Log

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Radar Scientist Huzelton Radar Technician \_\_\_\_\_

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

Time (HHMMSS)	Event
082200	Takeoff
091333	Started inbound from N
094900	Center Fix
101725	Started Downwind
105250	Started inbound from E
114930	Started Downwind
115655	Center Fix
115930	Inbound from SW
123030	Center Fix
124500	End of leg, <del>Holding pattern</del> Downwind
125500	Holding pattern
132130	Inbound from NW
134730	Center Fix
135911	Heading Change
141100	End of downwind

## Doppler Wind parameters