

## Radar Scientist

Flight ID 181010H1 Storm Michael

Radar Scientist Hazelton 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: Hazelton

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

2.1

### HRD Radar Event Log

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

Time (HHMMSS)	Event
082300	Takeoff
091333	Started inbound from N
094900	Center Fix
101725	Started Downwind
105250	Started inbound from E
114930	Started Downwind
111655	Center Fix
115930	Inbound from SW
123030	Center Fix
124500	End of Leg, <del>Holding Pattern</del> Downwind by
125500	Holding pattern
132130	Inbound from NW
134730	Center Fix
135911	Heading Change
141100	End of downwind

