

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

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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
114430	started Downwind
111655	Center Fix
115930	Inbound from SW
123030	Center Fix
124500	End of Leg, Holding Pattern Downwind by
125500	Holding pattern
132130	Inbound from NW
134730	Center Fix
135911	Heading Change
141100	End of downwind

Doppler Wind parameters

Flight ID: ~~18101041~~ 18101041

Doppler flight-leg notes (for use in automatic QC and analysis)

Scientist: Hazellon

[illegible]