## Radar Scientist

**Flight ID** 180904H2 **Storm** Gordon

**Radar Scientist** Rogers **Radar Technician** Mascaro

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: 180904H2

Aircraft Number: N42RF

Radar Scientist: Rogers

Radar Technician: Mascaro

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:**


## HRD Radar Event Log

**Flight ID**_____ **Storm**_____

**Radar Scientist**_____ **Radar Technician**_____

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

| Time (HHMMSS) | Event |
|---|---|
| 2310 | HP, begin inbound leg, track 315 |
| 2336 | 29°42' 87°51' – center |
| | turn to track 45 |
| 2348 | end outbound leg, turn track ~270, beach patrol |
| 0006 | end E-W leg, ~~turn to track 135~~ |
| | orbiting at NW point while FD takes care of some flags |
| 0014 | turn south, then will set up toward east to |
| | center |
| 0021 | turn to track 90 to center |
| 0029 | 29°50' 87°54' mark center |
| 0030 | turn to track 45, outbound |
| 0035 | end outbound, turn to track 270 |
| 0045 | turn to track 180 |
| 0053 | turn to track 90, inbound |
| 0100 | 29°59' 88°03' mark center |
| | turn to track 45, then 90 |
| 0112 | turn to track 180 |
| 0123 | 30°01' 88°07' mark, track 270, then loiter |
| 0149 | turn track 90, inbound |
| 0159 | 30°07' 88°15' mark, outbound 090 |
| 0211 | turn 180 to track 270 |
| 0219 | 30°07' 88°21' turn to 270, circle/loiter |
| 0238 | turn to track 90, inbound |

0314 30°19' 88°27' mark center, track 90

Rainband leg

0354 start rainband leg track 180, then 195, now 140

0907 end of RB radar