

## Radar Scientist

Flight ID 20180913H1 Storm Isaac

Radar Scientist Christophersen 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: 20180913H1

Aircraft Number: N42RF

Radar Scientist: Christophersen

Radar Technician: Mascaro

Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):

Radar Computer ↑

Lower Fuselage (LF) Antenna N/A

Tail (TA) Antenna ↑

**Radar Post flight Summary**

Significant down time:

Radar LF none

Radar TA none

**Other Problems:**

## HRD Radar Event Log

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

Time (HHMMSS)	Event
1025	off we go!
1123	TP sonde, track 180°, 1848m flight-level 5000ft
1136	1617' 60°36' mid-pnt sonde
1140	Some stratiform rain to the left of the plane
1157	14 <sup>00</sup> 58' 60°45' mark center, center drop
	12kt 130°, 1006 mb from the 'center' drop
1211	End of first leg, turning SE
1226	End of downwind leg
1228	end-pnt sonde
	Track 300 now for the second fix
	Visible imagery shows open wave at the flight-level
1252	center drop 1500 6112' estimated center from sat visible
	Tracking 60
1321	end-pnt drop
1347	end-pnt drop, end of downwind leg
	Now track 160
1414	center drop
1442	last end-pnt drop



