

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:

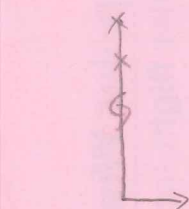
HRD Radar Event Log

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Radar Scientist Christopher Sen Radar Technician Mascaro

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

Time (HHMMSS)	Event
1025	off we go!
1123	7P 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	1458' 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



Doppler Wind parameters

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

Scientist: Christophersen

[illegible]