

Radar Scientist

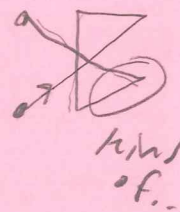
Flight ID 20180909/11 Storm TS Florence

Radar Scientist Reason 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.
- na 2. Once at the IP, request that the tilt be adjusted to remove sea clutter.
- na 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.
- na 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: 20180909141

Aircraft Number: N42

Radar Scientist: Reason

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 20180909H1 Storm TS Florence

Radar Scientist Reason Radar Technician Mascara

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

[illegible]

Doppler Wind parameters

Flight ID: 20180909/1

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

Scientist: Reason

[illegible]