

Radar Scientist

Flight ID 170904HZ Storm IRMA

Radar Scientist Aberson/Gamache 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 Event Log

Flight ID _____ Storm _____

Radar Scientist _____ Radar Technician _____

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

| Time (HHMMSS) | Event |
|------------------|--|
| 0649 | Takeoff |
| 0821 | Begin descent to 10,000 ft. Lots of weather on downwind leg. |
| 0839 | Turn inbound 315° |
| 0904 | Center fix |
| 0928 | Turn downwind |
| 1001 | Turn inbound |
| 1027 | Center |
| 1053 | Start downwind leg |
| 1115 | Start inbound |
| 1142 | Center |
| 1201 | Turn downwind |
| 1228 | Turn inbound left to avoid weather |
| 1246 | Inbound turn |
| 1313 | Center |
| 1339 | FP |
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