

Radar Scientist

Flight ID 20190928I1 Storm Lorenzo

Radar Scientist Holbach/Gamache Radar Technician Naehar

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 No radar issues detected pre-flight

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** No issues detected during steps 4-7. Waiting for step 6 until first analysis is checked for issues. Plenty of time to transmit data for 182 cycle
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

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

Time (HHMMSS)	Event
ferry	lots of SAL Present. Some
1515Z	low-level cumulus clouds
1643Z	Thicker cumulus clouds
1659Z	under the CDD
1712Z	in a cloud layer
1734Z	Rainband off left wing echos to ~5km
1739Z	entering rain band
1746Z	entering rain band just outside eyewall
1748Z	entering eyewall
1752Z	center fix
1757Z	entering eyewall outbound
1830Z	echo tops in eyewall ~10-12km
1854Z	stratiform region outside eyewall
1904Z	turned back inbound in stratiform region
1945Z	turning downwind outside stratiform region
1948Z	turning inbound just outside stratiform
2050Z	TOR off

