Radar Scientist

Flight ID 2015082511 Storm Erika Radar Scientist Reason

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 realtime TDR display, to make sure the Doppler radar is scanning and working normally.
2. 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 Tail (TA) radar data files to thumb drive.
3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
4. Debrief at the base of operations.
5. Determine the status of future missions and notify HFP Director as to where you can be contacted.

FP

truncate if convective
burst avail to target
HRD Radar Scientist Check List

Flight ID: 20158251

Aircraft Number: N47

Radar Scientist: Reason

Radar Technician: Dana Naeher

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

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

Time correction between LF radar time and digital time: __

TA Radar Parameters:

(Single/Dual) PRF ______ F/AST (Y/N) Rotation Rate 10 RPM

Sweeps/File ______ Record 2nd Trip (Y/N) (Circle appropriate status)

Radar Post flight Summary

Significant down time:

Radar LF ________________

Radar TA ________________

Other Problems:
HRD Radar Event Log

Flight ID: 2015082551  Aircraft: N43  Radar Scientist:  Reason:  Radar Technician: Dana Naheber

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

<table>
<thead>
<tr>
<th>Time (HHMMSS)</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1749</td>
<td>Take off</td>
</tr>
<tr>
<td></td>
<td>Radar up soon after takeoff</td>
</tr>
<tr>
<td>180220</td>
<td>IP</td>
</tr>
</tbody>
</table>

Fix 1
193134
1532
5223

Fix 2
211235
1531538

Fix 3
2245
154
5323