Radar Scientist

Flight ID  2016-1005-1  Storm  Matthew  
Radar Scientist  Hui Christopher  Radar Technician  Mascar

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, I/N/E, 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: 2016 1005 11

Aircraft Number: NOAA43

Radar Scientist: Christophersen /Gamache

Radar Technician: 

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:

There were twice power outage during 1215Z to 1238Z.
HRD Radar Event Log

Flight ID: 20161005T9  Storm: Matthew

Radar Scientist: Christopher  Radar Technician: Mosaic

(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>0702</td>
<td>Plane takes off</td>
</tr>
<tr>
<td>0807</td>
<td>Plane loiters for ~40 min due to mechanic issue</td>
</tr>
<tr>
<td>0955</td>
<td>Center drop</td>
</tr>
<tr>
<td>1025</td>
<td>End point drop</td>
</tr>
<tr>
<td>1113</td>
<td>Max wind drop (two drops)</td>
</tr>
<tr>
<td>1143</td>
<td>High wind drop</td>
</tr>
<tr>
<td>1215-1238</td>
<td>Radar power out, data may be questionable</td>
</tr>
</tbody>
</table>