

Radar Scientist

Flight ID 20180912H1 Storm Isaac

Radar Scientist Christophersen Radar Technician Mascara

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 Scientist Check List

Flight ID: 20180912H1

Aircraft Number: N42RF

Radar Scientist: Christophersen

Radar Technician: Mascaro

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

Radar Computer ↑

Lower Fuselage (LF) Antenna N/A

Tail (TA) Antenna ;

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:



- 1546 15°9' 53'28" end pnt sonde outbound tracking 90°
- 1557 track 85 to extend to 105 nm
- 1608 end of downwind leg
- 1624 15°47' 54'17" mid-pnt, track 225
- 1643 15°12' 55'17" center drop
- 1653 15°38' 55'47" mid-pnt track NW
- 1702 end pnt

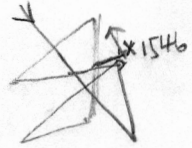
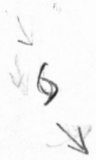
HRD Radar Event Log

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

Time (HHMMSS)	Event
0944	Take off
1134	15°28' 55'46" IP, tracking 135°
1143	15°4' 55'22" mid-pnt
120834	13°59' 54'19" mark center 145° 5kt from center drop sonde
1217	mid-drop 13°35' 53'51"
1225	13°20' 53'28" end pnt sonde
1248	14°53' 53'41" end of downwind leg
1257	14°33' 54'6" mid-pnt, inbound 225 less than 5kt winds in NE inbound leg
1311	13°52' 54'38" mark center sonde
1325	13°14' 55'15" mid-pnt sonde
1331	12°58' 55'31" end pnt sonde
1353	13°46' 54'19" end pnt downwind 50°
1353	track 360° Inbound
1359	descend to 1500ft
1439	climb to 5000ft
1503	14°59' 56'7" downwind end pnt
1517	14°57' 55'19" mid-pnt inbound tracking 90



storm is moving NNW @ 13kt

- 1525 15°6' 54'47" center drop
- 1541 15°8' 53'49" mid-pnt outbound

16kt 205
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