

Radar Scientist

Flight ID 20180912H1 Storm Isaac

Radar Scientist Christophersen Radar Technician Mascaro

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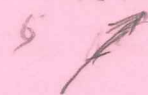
(Include down time and times of when recording ended and was restarted)

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 260° Inbound
1359	descent to 1500ft
1439	climb to 5000 ft
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

1614 205°



Doppler Wind parameters

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Doppler flight-leg notes (for use in automatic QC and analysis)

Scientist: Christophersen

[illegible]