

Radar Scientist

Flight ID 20180709H2 Storm Chris

Radar Scientist Marks/Alaka Radar Technician Peak

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.

MMR should work better as Delta engineer adjusted settings

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.

MMR was great, lots of photos

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: 20180709H2

Aircraft Number: 42RF

Radar Scientist: Marks/Alaka

Radar Technician: Peck

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

Radar Computer ↑

Lower Fuselage (LF) Antenna MMR settings should be improved

Tail (TA) Antenna ↑

Radar Post flight Summary

Significant down time:

Radar LF ~~○~~ MMR was very good

Radar TA ~~○~~

Other Problems:

NA

HRD Radar Event Log

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Radar Scientist Marks/Alaka Radar Technician Peak

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

[illegible]

Doppler Wind parameters

Flight ID: 20180707H2

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

Scientist: Marks/Alaka

Leg Start Time	Leg End Time	Storm Motion		Center Fix			Inbound	Outbound	Max Radius (km)	Horz. Res (km)	Sent ?
				Time	Latitude	Longitude					
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)
2202	2252	0	0	2225	32.25	74.5	0	0	245	5	y
2252	2325						225	225			
2325	001445	085	7	2253	32.25	74.33	090	090			y
0015	003115										
0031	0117	0	0	0055	32.16	74.34	225	225			y
0117	0147										
0147	0225	0	0	0213	32.25	74.33	315	315			y
0229	0311	0	0	0244	32.3	74.3	135	225			y

5 analyses sent