

Radar Scientist

Flight ID 20180927H1 Storm EPAC GENESIS

Radar Scientist ZAWISLAK/REARDOR 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: 2018092741

Aircraft Number: N42

Radar Scientist: ZAWISGAL/REISS

Radar Technician: MASCARO

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:

Doppler Wind parameters

98.5
11/0
11.5

Flight ID: 20180927H1		Doppler flight-leg notes (for use in automatic QC and analysis)					Scientist: ZAWISLAK (AIC) REASOR (GROUND)				
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)
TRANSIT LEG 1354	END TRANSIT 1449										
NE PT BOX OUTER 1449 IP	NW PT 1529 EO OF										
SW PT BOX OUTER 1529	SW PT 1618										
SW PT BOX OUTER 1618	SE PT BOX 1659										
SE PT BOX OUTER 1659	NE PT 2 BOX OUTER 1726										
1726 INBOUND TO INNER BOX	1739 Z NE PT OF INNER BOX 1752 Z NW PT INNER BOX										
1752 Z NW PT INNER BOX	1806 Z SW PT INNER BOX										
1806 Z SW PT INNER BOX	1818 Z SE PT INNER BOX										
1818 Z SE PT INNER BOX	1834 Z NE PT 2 INNER BOX										
1834 Z EO OF INNER BOX	1930 Z EO OF TRANSIT PORTION										

1.3
4.9
7.6

TRANSIT LEG THROUGH A LOT OF PRECIP

FIRST LEG OF OUTER BOX
E → W AT 12.5N B/W 94.5 AND 97.5

2nd LEG OF OUTER BOX
N → S AT 97.5N → TO 9.5N

3rd LEG OF OUTER BOX
W → E AT 9.5N FROM 97.5 TO 94.5

4th LEG OF OUTER BOX
S → N AT 94.5N FROM 9.5N TO 11.5N

1st LEG OF INNER BOX
E → W AT 11.5N FROM 94.5W TO 96.5W

2nd LEG OF INNER BOX
W → S AT 96.5W FROM 11.5N TO 10.5N

3rd LEG OF INNER BOX
W → E AT 10.5N FROM 96.5 TO 95.5W

4th LEG OF INNER BOX
S → N AT 95.5N FROM 10.5N TO 11.5N

TRANSIT LEG HOME THROUGH A LOT OF PRECIP