Radar Scientist

Flight ID _20180927 H1_   **Storm** _Epac Genesis_

Radar Scientist _Zawislak/Reasor_   **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: __20180927H1__

Aircraft Number: __N42__

Radar Scientist: __Zawislak/Reasor__

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:

HRD Radar Event Log

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Radar Scientist Zawislak/Reasor   **Radar Technician** Mascaro

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

Time (HHMMSS)	Event

Doppler Wind parameters

| Flight ID: 20180927 H1 | | 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 ?
		Degrees	Knots	Time	Latitude	Longitude	track	track	Default = 245	Default = 5	(Y/N)
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track	Default = 245	Default = 5	(Y/N)
TRANSIT LEG. 1354	END TRANSIT 1449 TOII			TRANSIT LEG THROUGH A LOT OF PRECIP							
NE PT BOX OUTER 1449 IP	NW PT 1529 E0 OF			FIRST LEG OF OUTER Box E→W AT 12.5N B/W 94.5 AND 97.5							
NW PT BOX OUTER 1529	SW PT 1618			2ND LEG OF OUTER BOX N→S AT ~97.5W → 12.5N TO 9.5N							
SW PT BOX OUTER 1618	SE PT BOX 1659			3RD LEG OF OUTER BOX W→E AT 9.5N FROM 97.5 TO 94.5							
SE PT BOX OUT 1659	NE PT2 BOX OUTER 1726			4TH LEG OF OUTER BOX S→N AT 94.5W FM 9.5N TO 11.5N							
1726 INBOUND TO INNER BOX	1739 Z NE PT OF INNER BOX 1752 Z NW PT INNER BOX			1ST LEG OF INNER BOX E→W AT 11.5N FROM 94.5W TO 96.5W							
1752 Z NW PT INNER BOX	1806 Z SW PT INNER BOX			2ND LEG OF INNER BOX N→S AT 96.5N FROM 11.5N TO 10.5N							
1806 Z SW PT INNER BOX	1818 Z SE PT INNER BOX			3RD LEG OF INNER BOX W→E AT 10.5N FROM 96.5 TO 95.5W							
1818 Z SE PT INNER BOX	1834 Z NE PT2 INNER BOX			4T LEG OF INNER BOX S→N AT 95.5N FROM 10.5N TO 11.5N							
1834 Z E2 OF INNER BOX	1930 Z END OF TRANSIT PORTION			TRANSIT LEG HOME THROUGH A LOT OF PRECIP							