Radar Scientist

Flight ID 20170918 H1   **Storm** Jose

Radar Scientist Zawislak   **Radar Technician**_____

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: __2017 0918 H1__

Aircraft Number: __N 42__

Radar Scientist: __Zawislak__

Radar Technician: _____

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

Flight ID:	20170918 H1	Doppler flight-leg notes (for use in automatic QC and analysis)		Scientist:	ZAWISLAK

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)
0950 WP	1057 WP3	360° NHC	8 09Z	101739	33°23'	71°03'	180°	360°			Y
1059 WP3	1200 WP5	360° NHC	8 12Z	112216	33°29' 33°34'	71°11' 71°14'	270°	090°			Y
1200 WP5	1308Z WP7	360° NHC	8 12Z	122042	33°34'	71°14'	045°	225°			MAY OCCURS DOWN WIND
1309Z WP7	1408Z END	360° NHC	8 12Z	133013	33°36'	71°15'	135°	315°		→ TRUNCATED TO 8 MIN FROM CTR ON INBOUND.	Y