Radar Scientist

Flight ID 20180910H1 **Storm** AL06 / FLORENCE

Radar Scientist ZAWISLAK **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: 20180910H1

Aircraft Number: N42RF

Radar Scientist: ZAWISLAK (NANCY/JOE GRIFFIN CREW)

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

Time (HHMMSS)	Event
1323	TAKEOFF, BERMUDA

Doppler Wind parameters

Flight ID: 20180910H1	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)
1512	1556 END END OF DOWNWIND 1617	270	11	153518	24.99	60.14	240° AZI	060 AZI			
1617	1702 END POINT 1716 TURN INBOUND	270	11	164237	25.07	60.31	360° AZI	180° AZI			
1716	1757 NO DOWNWIND	270	11	173610	25.15	60.50	~~3~~135°	315°			
	LEG AS WE'RE COMING BACK INBOUND.										
1800	1840 OUT 180°			181851	25.20	60.62	305°	180°			
				191832	25.26	60.79					