Radar Scientist

Flight ID 20170905H2 Storm Irma

Radar Scientist Jun Zhang Radar Technician Mike Maccaro

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 Event Log

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

Time (HHMMSS)	Event
	Radar worked well
	four passes
	mission successful
	TDR data sent to Tail

Doppler Wind parameters

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

Scientist: Jun Zhang

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)
2108	2205	280	13	2138	59/54	17/04	315	315			
2226	2314	280	13	2245	60/08	17/07	45	45			
2335	2432	280	13	2403	60/23	17/12	180	180			
2501	2544	280	13	0520	60/41	17/20	270	270			