Radar Scientist

Flight ID 20170904H1   **Storm** Irma

Radar Scientist Jun Zhang   **Radar Technician** Mike Mariero

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

Flight ID_____ Storm_____

Radar Scientist_____ Radar Technician_____

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

Time (HHMMSS)	Event
	TDR not sent
	Software and hardware
	INS Altitude problem
	Radar data should be good need to
	fix flight level data

2

Doppler Wind parameters

Flight ID: 20170904H2				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)
2115	2206	255	11	2140	54/35	16/41					
2240	2334	255	11	2207	54/52	16/41					
2354	0048	255	11	0020	55/08	16/41					
0128	0216	255	11	01:50	55/30	16/40					