

## Radar Scientist

Flight ID 14080241 Storm BS Bertua Radar Scientist Rogers

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 realtime TDR display, to make sure the Doppler radar is scanning and working normally.
2. 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 Tail (TA) radar data files to thumb drive.
3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
4. Debrief at the base of operations.
5. Determine the status of future missions and notify HFP Director as to where you can be contacted.

### HRD Radar Scientist Check List

Flight ID: 140802H1

Aircraft Number: N42

Radar Scientist: Rogers

Radar Technician: Borko

Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

Time correction between LF radar time and digital time:    

TA Radar Parameters:

(Single/Dual) PRF     F/AST (Y/N) Rotation Rate     RPM

Sweeps/File     Record 2<sup>nd</sup> Trip (Y/N) (Circle appropriate status)

### Radar Post flight Summary

Significant down time:

Radar LF    

Radar TA    

Other Problems:

1845

16°55'

1831 UTC

68°03'

Center

### Doppler Wind parameters

Flight ID: 14080241				Doppler flight-leg notes (for use in automatic QC and analysis)				Scientist: Rogers			
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)
1756	1837	270	20	1831	1655	6803	260	270			
1837	1847										
1855	1934	280	20	<hr/>			0	0			

