Radar Scientist

Flight ID 20150823I1 **Storm** T.S Danny **Radar Scientist** Klotz

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: _20150823I1_

Aircraft Number: _NOAA 43_

Radar Scientist: _B. Klotz_

Radar Technician: _Todd Richards_

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

Radar Computer _Up_

Lower Fuselage (LF) Antenna _Up_

Tail (TA) Antenna _Up_

Time correction between LF radar time and digital time: __

TA Radar Parameters:

(Single/Dual) PRF _2100_   F/AST (Y/N)   Rotation Rate ____ RPM

Sweeps/File _____   Record 2nd Trip (Y/N) (Circle appropriate status)

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

HRD Radar Event Log

Flight ID 20150823I1 Aircraft NoAA 43
Radar Scientist Klotz Radar Technician Richards

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

Time (HHMMSS)	Event

Doppler Wind parameters

Flight ID: 20150823 I₁				Doppler flight-leg notes (for use in automatic QC and analysis)			Scientist: B. Klotz				
Leg Start Time	**Leg End Time**	**Storm Motion**		**Center Fix**			**Inbound track**	**Outbound track**	**Max Radius** Default = 245	**Horz. Res** Default = 5	**Sent ?**
				Time	Latitude	Longitude					
HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	Degrees	Degrees	(km)	(km)	(Y/N)
073800 Z	End XS : 082702 End 3D: 085800	275	13	080410	15° 33'	55° 50'	315	315	245	5	Y
085800	XS: 094613 3D: 100505	275	13	092139	15° 34'	56° 10'	50°	45°	245	5	Y
100510	XS: 105200 3D: 112230	275	13	103020	15° 36'	56° 24'	180	180°	245	5	Y
112300	XS: 121500	275	13	115150	15° 38'	56° 44'	270°	270°	245	5	