Radar Scientist

Flight ID 20150823I7 **Storm** Danny **Radar Scientist** Reasor

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.

1st pass center -> 15.21N 58.44 @ 182202

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

102126

Radar off 1247

0304A DANNY

Doppler Wind parameters

Flight ID: 20150823I1	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: 082700 End 3D: 085800	275	13	080410	15° 33'	55° 50'	315	315	245	5	Y
085800	XS: 094643 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	