Radar Scientist

Flight ID 20160923I2 **Storm** Karl **Radar Scientist** Klotz/Gamache

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: 20160923I2

Aircraft Number: NOAA43

Radar Scientist: Klotz / Gamache

Radar Technician: D. Naeher

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

Radar Computer ↑

Lower Fuselage (LF) Antenna ↑

Tail (TA) Antenna ↑

Radar Post flight Summary

Significant down time:

Radar LF ~30 min during high incidence module

Radar TA _____

Other Problems:

- Note IWRAP on, LF wedge set
- performed SFMR high incidence module on NW side
- had issue getting superob files to NCO on 3rd pass

HRD Radar Event Log

Flight ID 20160923I2 **Aircraft** N0AA43
Radar Scientist Katz/Camache **Radar Technician** D. Naeher

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

Time (HHMMSS)	Event
1740	Tail radar on
1745	LF radar on
2118	LF off
2148	LF on
2436	TA shut down
2511	LF shut down

Takeoff: 1735

Doppler Wind parameters

Flight ID: 20160923I2	Doppler flight-leg notes (for use in automatic QC and analysis)	Scientist: Klotz/Gamache

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)
194643	XS: 204755 3D: 211846	360	10	201513	29/55 N	65/25 W	0°	0°	245	5	Y
214801	XS 204050 3D: 231159	360	10	221630	30/04	65/32	90°-145	120°	245	5	Y
231252	XS: 240657 3D 240657	360	10	233700	30/12	65/17	240°	240°	245	5	Y
	↳ ~/tmp/jobfile/20160923I2-233700_jobfile.tar.gz										