Radar Scientist

Flight ID 20160825 I2 **Storm** 99L **Radar Scientist** ALAKA

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: 20160825I2

Aircraft Number: N43

Radar Scientist: ALAKA

Radar Technician: MASCARO

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

Radar Computer Up

Lower Fuselage (LF) Antenna Up

Tail (TA) Antenna Up

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

Doppler Wind parameters

Flight ID: 20160825I2	Doppler flight-leg notes (for use in automatic QC and analysis)	Scientist: ALAKA

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)
201205	205800	270	14	203353	21°33'	72°57'	90	90	245	5	

WBWXA AL99

Doppler Wind parameters

Flight ID: 20160825I2

Doppler flight-leg notes (for use in automatic QC and analysis)

Scientist: Reasor

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)
201211	205845	275	15	203653	21.43	72.73	90	90	245	5	Y
				Flew	Just south of cloud swirl center						
Maintenance issue RTB											