Radar Scientist

Flight ID 20160803I2 **Storm** EARL **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: 20160803I2

Aircraft Number: N43RF

Radar Scientist: ALAKA

Radar Technician: NAEHER

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: 0

TA Radar Parameters:

(Single/Dual) PRF _____ F/AST (Y/N) Rotation Rate 10 RPM

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

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

Doppler Wind parameters

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

Scientist: ALAKA

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)	
201000	205200	290	13	203045	17°11'	86°13'	135	130	245	5		Leg 1
205200	212200	290	13				10					Leg 1 DW
212200	220300	290	13	214200	17°9'	86°28'	220	220	245	5		Leg 2
220300	221500	290	13				90					Leg 2 DW
221500	225500	290	13	223700	17°23'	86°35'	0	0	245	5		Leg 3