

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:

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 Radar Scientist ALAKA Radar Technician NAEHER

[illegible]

Doppler Wind parameters

Flight ID: 20160803I2				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	
205200	212200	290	13				10				
212200	220300	290	13	214200	17°9'	86°28'	220	220	245	5	
220300	221500	290	13				90				
221500	225500	290	13	223700	17°23'	86°35'	0	0	245	5	

Leg 1

Leg 1 DW

Leg 2

Leg 2 DW

Leg 3