

Radar Scientist

Flight ID 20140703I Storm Arthur Radar Scientist Jun Zhang

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: 2014070321

Aircraft Number: H3

Radar Scientist: Jun Zhang

Radar Technician: Dana

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

Radar Computer _____

Lower Fuselage (LF) Antenna _____

Tail (TA) Antenna _____

Time correction between LF radar time and digital time: ____

TA Radar Parameters:

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

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

Radar Post flight Summary

Significant down time:

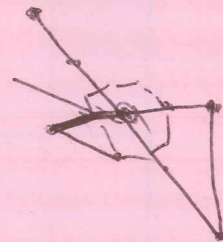
Radar LF _____

Radar TA _____

Other Problems:



74 mol
2 9/80 mol
90



Joseph Patton

HRD Radar Event Log

Flight ID _____ Aircraft P3-43
Radar Scientist _____ Radar Technician _____

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

Time (HHMMSS)	Lat	Lon	Event
202035	33°22.7'N	78°55.1'W	IP
203148	33°21.50'	77°58.50'	CEM
205230	33°21.3'	76°21.6'	TURN
201150	33°52.3'	77°51.5'	EP
211150	33°52.3'	77°51.5'	IP
211820	33°26.2'	77°50.6'	CEM
			TURN
			EP
			1
			2
			3
			4
			5
			6
			7
			8
			IP
			1st Leg CEM
			TURN
			EP
			IP
			2nd Leg CEM
			TURN
			EP

977 mb! WS: 125 kts