

Radar Scientist

Flight ID 100916H1

Storm Name Hurricane Karl

Radar Scientist LORSOLO

Radar Technician BOSKO

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

- 8U 1. Determine the status of equipment and report results to the 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 calibrations and check lists as specified in the radar operator's manual.

In-Flight

- ✓ 1. Remind the AOC data technician to start the radar capture files.
- ✓ 2. Operate the system(s) as specified in the operator's manual and as directed by the LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.
- ✓ 3. Maintain the Radar Scientist's form as well as a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

Post flight

- ✓ 1. Complete the summary checklists and all other appropriate forms.
- ✓ 2. Obtain from the AOC data technician all radar tapes and give him a thumbnail drive to download the radar capture files.
- ✓ 3. Brief the LPS on equipment status and turn in completed forms, the thumbnail drive, and all radar tapes to the LPS. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ✓ 4. Debrief at the base of operations.
- ✓ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: 10091041

Radar Operators: _____

Radar Technician: _____

Number of DAT tapes on board: _____

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

Device	Pre-flight	In-flight	Post-flight	R/T Serial #
Radar Computer				
DAT drives				
Lower Fuselage antenna				
Tail Antenna				

Time correction between radar time and digital time: _____

Radar Post flight Summary

Number of DAT tapes used: _____

Significant down time:

Radar Computer _____ Radar LF _____

DAT drives _____ Radar TA _____

Other Problems:

HRD Radar Event Log

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 Radar Scientist LORSOLO Radar Technician BOSKO

LF RPM 10 TA RPM 10 PRF 2400 Hz

(Include start and end times of recording as well as times of F/AST legs and any changes of radar equipment status)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
	Y		Take off : 1536Z
		1808Z	Descent to 12000 ft Pres
		181700	Start leg #1
			@ 21.77° , - 92.56°
			Issues w/ LF : calib
			or just Scale issues.
			TA Stopped updating
		1950	for a few minutes
		1942	Center line leg 1
			19°40' N 93°15' W
			Motion 789/8kt
		1858	End of penetration
		1915	End of downwind leg
			Start of leg #2
		193079	Center leg #2
			19°42' N 93°28' W
			Motion : 785°/10kts

HRD Radar Problem Log

Flight ID _____ Storm Name _____ Sheet ____ of ____
 Radar Scientist _____ Radar Technician _____

(Include times of when recording ended and was restarted)

[illegible]

Doppler Wind parameters

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

FLIGHT ID: 10091614

Scientist: LeRusso

[illegible]