E.5 Radar Scientist

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 supplied to each operator. General supplementary procedures follow. (Check off and initial.)

E.5.1 Preflight

_____ 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).

_____ 2. Confirm mission and pattern selection from the on-board LPS.

_____ 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.

_____ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

_____ 1. Operate the system(s) as specified in the operator's manual and as directed by the on-board LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.

_____ 2. Maintain 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.

E.5.3 Post flight

_____ 1. Complete the summary checklists and all other appropriate check lists and forms.

_____ 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.

_____ 3. Hand-carry all radar tapes and arrange delivery as follows:

a. Outside of Miami-to the LPS.
b. In Miami-to MGOC or to AOML/HRD. [**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

_____ 4. Debrief at MGOC or the hotel during a deployment.

_____ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

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HRD Radar Scientist Check List

Flight ID: 030918H1

Aircraft Number: N42RF

Radar Operators: GAMACHE

Radar Technician: McMILLAN et al.

Number of digital magnetic tapes on board: AOC HAS THEM

Component Systems Status:

MARS _____ Computer _____

DAT1 _____ DAT2 _____

LF _____ R/T Serial # 121

TA _____ R/T Serial # 123

Time correction between radar time and digital time: ___

Radar Post flight Summary

Number of digital tapes used: DAT1 _____

DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

ISABEL

HRD Radar Tape Log

Flight 030918H1 **Aircraft** 42RF **Operator** GAMACHE **Sheet** 1 **of** ___

LF RPM 2 TA RPM 10

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

Tape #	F/AST On?	Event Time (HHMMSS)	Event
—		120245	T/O MACDILL
1		<120700	RECORDING STARTED
1		1315-1315	~~GA~~ RADAR OFF START TIME - RECORDING
1			EVERY 4F SWEEP.
1		~1407	WE ARE DOING LF sector
1			Scanning
1		~1427	sector off
1		~1435	sector on
1		~1533	Sector off
1		~1543	sector on
1		1611	Sector off
1		~~12~~ 1724-1725	TA FROZE
		1736-1741	RADAR FROZE
		1946	out of storm - ferry home
		2006	END recording

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