

## 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

- SW 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- SW 2. Confirm mission and pattern selection from the on-board LPS.
- SW 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.
- SW 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

### E.5.2 In-Flight

- SW 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.
- SW 2. Maintain a ~~written commentary in the radar logbook~~ <sup>Here</sup> 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

- SW 1. Complete the summary checklists and all other appropriate check lists and forms.
- SW 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- SW 3. Hand-carry all radar tapes and arrange delivery as follows: *Give to LPS*
  - 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.]
- SW 4. Debrief at MGOC or the hotel during a deployment.
- SW 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: I030914H1  
Aircraft Number: 42 rf.  
Radar Operators: Leighon  
Radar Technician: S. McMillan  
Number of digital magnetic tapes on board: ?

*Delgado drops*

Component Systems Status:

MARS up Computer up  
DAT1 up DAT2 up  
LF up R/T Serial # LF 121  
TA up R/T Serial # TA 123 *see 201*

Time correction between radar time and digital time: Run Detect stat

Radar Post flight Summary

Number of digital tapes used: DAT1 \_\_\_\_\_  
DAT2 \_\_\_\_\_

Significant down time:

DAT1 \_\_\_\_\_ Radar LF \_\_\_\_\_  
DAT2 \_\_\_\_\_ Radar TA \_\_\_\_\_

Other Problems:

HRD Radar Tape Log

Flight 1030914H Aircraft 42rf Operator Leight 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
1	Prnh Ant.	150922	Talk off
	"	1625	Sector mode on Sonar out
		1645	Radar down
		1647	up Full Scan
		1716	<del>Full Scan</del> Sector mode start
		1730	Cont. on
		1749	on and off toggle
		1759	sector (wedge) started
		1825	cont. on
		~1900	wedge on
		1930 ?	wedge off
		1935 ?	wedge on
		20--	wedge off
		20 10	wedge on
			wedge off
		2035	wedge on
		2210	wedge off for on sweep
		2230	sector mode off.
		2316	Radar downed and started

2048



