

## E.5 Radar Scientist

The on-board Doppler radar scientist (DRS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and check lists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

### E.5.1 Preflight

COMPUTER  
APPEARS  
UP

✓

FREQUENCY  
ANTENNA

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 check lists 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.

## HRD Radar Down-Time Log

Flight \_\_\_\_\_ Aircraft \_\_\_\_\_ Operator \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

[illegible]

**Item List:** DAT1, DAT2, COMP, MARS, LF, TA.

**Include serial numbers of any new R/Ts.**



## HRD Radar Tape Log

Flight 030819A Aircraft 42 Operator SAINT LUKE/HENSON 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)

[illegible]

### HRD Radar Scientist Check List

Flight ID: 030819H

Aircraft Number: N42RF

Doppler Radar Operators: GAMACHE

Radar Technician: SEAN McMILLAN

Number of digital magnetic tapes on board: AOL HOLDS THE M

#### 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  
CLOCK IS 1 1/2 SEC  
later (ahead)

#### Radar Post flight Summary

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

DAT2 \_\_\_\_\_

#### Significant down time:

DAT1 \_\_\_\_\_

Radar LF \_\_\_\_\_

DAT2 \_\_\_\_\_

Radar TA \_\_\_\_\_

#### Other Problems: