

## **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**

- \_\_\_\_\_ 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 Scientist Check List

Flight ID: 030821/41

Aircraft Number: 42

Doppler Radar Operators: GANDCHE

Radar Technician: MACMILLAN

Number of digital magnetic tapes on board: AAC HAS THEM

#### Component Systems Status:

MARS /

Computer /

DAT1 /

DAT2 /

LF /

R/T Serial # \_\_\_\_\_

TA /

R/T Serial # \_\_\_\_\_

Time correction between radar time and digital time: RADAR STILL  
1.5 SECS AHEAD

#### Radar Post flight Summary

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

DAT2 \_\_\_\_\_

#### Significant down time:

DAT1 \_\_\_\_\_

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

DAT2 \_\_\_\_\_

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

#### Other Problems:

RADAR APPEARS TO HAVE WORKED  
VERY WELL. WILL CHECK TAPES UPON  
RETURN TO MIAMI.



## HRD Radar Tape Log

Flight 030821H Aircraft 42 Operator GAMA CHZ 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 Down-Time Log

Flight 030824 H Aircraft 42 Operator GAMMAE Sheet 1 of 1

[illegible]

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

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