

## **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**

RR

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

RL

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

RR

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

RR

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

### **E.5.2 In-Flight**

LL

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.

RL

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: 0309 03 I

Aircraft Number: N43RF

Doppler Radar Operators: Rogers

Radar Technician: Leach

Number of digital magnetic tapes on board: \_\_\_\_\_

#### Component Systems Status:

MARS \_\_\_\_\_

Computer \_\_\_\_\_

DAT1 \_\_\_\_\_

DAT2 \_\_\_\_\_

LF \_\_\_\_\_

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

TA \_\_\_\_\_

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

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:

## HRD Radar Tape Log

Flight 030903L Aircraft N430F Operator Rogers Sheet      of     

LF RPM \_\_\_\_\_ TA RPM \_\_\_\_\_

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

[illegible]

possible  
steel  
defect

948  
NE 9000

122  
KTS  
Full level  
100 KTS  
Bit  
level