

## **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: 031205I1

Aircraft Number: N43

Doppler Radar Operators: Eastin

Radar Technician: Terry Lynch

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

#### Component Systems Status:

MARS ✓

Computer ✓

DAT1 ✓

DAT2 \_\_\_\_\_

LF ✓

R/T Serial # 102

TA ✓

R/T Serial # 102

Time correction between radar time and digital time: \_\_\_\_\_

#### Radar Post flight Summary

Number of digital tapes used: DAT1 1

DAT2 ~~1~~

#### Significant down time:

DAT1 \_\_\_\_\_

Radar LF 2035 - 2059

DAT2 \_\_\_\_\_

Radar TA 2035 - 2059

#### Other Problems:

**Form E-5**  
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## HRD Radar Tape Log

Flight 031205Z Aircraft N43 Operator Eastn Sheet 1 of 1

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 031205J1 Aircraft N43 Operator Eastm Sheet 1 of 1

[illegible]

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

Include serial numbers of any new R/Ts.