

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: 031206I1

Aircraft Number: N43RF

Doppler Radar Operators: Eastin

Radar Technician: 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 _____

DAT2 1

Significant down time:

DAT1 _____

Radar LF _____

DAT2 _____

Radar TA _____

Other Problems:

No significant down time in storm.

HRD Radar Down-Time Log

Flight 031206T Aircraft 43 Operator Eastin Sheet 1 of

[illegible]

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

Include serial numbers of any new R/Ts.