

MB

## 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: 030914I  
Aircraft Number: 43  
Doppler Radar Operators: M. Black / Sam Aherson  
Radar Technician: Terry Lynch  
Number of digital magnetic tapes on board: AOC

Component Systems Status:

MARS ✓ \_\_\_\_\_ Computer \_\_\_\_\_  
DAT1 ✓ \_\_\_\_\_ DAT2 \_\_\_\_\_  
LF ✓ \_\_\_\_\_ R/T Serial # \_\_\_\_\_  
TA ✓ \_\_\_\_\_ R/T Serial # \_\_\_\_\_

TAIR Elev. Angles all over the place  
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:



