

19990913HI - RADAR

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: 990913H
Aircraft Number: 42
Doppler Radar Operators: Dodge
Radar Technician: Jim Roles
Number of digital magnetic tapes on board: sufficient

Component Systems Status:

MARS	<u>↑</u>	Computer	<u>✓</u>
DAT1	<u>↑</u>	DAT2	_____
LF	<u>↑</u>	R/T Serial #	<u>154 102</u>
TA	<u>↑</u>	R/T Serial #	<u>2104 / 201</u>

Time correction between radar time and digital time: none

Radar Post flight Summary

Number of digital tapes used: DAT1 _____
DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____
DAT2 _____ Radar TA _____

Other Problems:

Radars NEVER froze up!

