

E.5 Doppler Radar Scientist (On-Board)

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.

E.5.3 Postflight

- _____ 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 HRD operations center (FGOC).
 - 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 the appropriate operations center (FGOC or MGOC).
- _____ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

SEP 28 1993

930928I1

Doppler Radar Scientist Check List

Flight ID 930928I1
Aircraft # 43
Operators Do Jge, Marks
Radar Tech. Terry Lynch

Number of digital magnetic tapes on board 20

Number of tape labels on board enough

Component systems up and checked:

MARS ✓

Computer

DMTR1 ✓

DMTR2

LF

R/T# #124

TA ~~SN101~~

R/T# #SN101

Time correction between radar time and digital time

Radar Postflight Summary

Number of digital tapes used: DMTR1

DMTR2

Significant down time:

DMTR 1

Radar LF

DMTR 2

Radar TA

Other problems:

SEP 28 1993

HRD Radar Tape Log

Flight 930928 I 2 Aircraft 43 Operator Dodge Sheet 1 of 1

[illegible]

SEP 28 1993

Form E-5
Page 3 of 3

HRD Radar Down-Time Log

~~09~~ 930928 I1

Operator

Dodge

Sheet

1 of 1

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
	1748	1808	Tail not off, but
			smearing. Tech rebooted
			and that seemed to fix it

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.