

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

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- _____ 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 HRD/DRS and 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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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 OAO 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.

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Doppler Radar Scientist Check List

Flight ID 890915H1
Aircraft # 42
Operators Dodge / Burpee
Radar Tech. Schricker

Number of digital magnetic tapes on board ~~22~~ 22

Number of tape labels on board lots

Component systems up and checked:

MARS ✓

Computer ✓

DMTR1 ✓

DMTR2 ✓

LF ✓

R/T# 103 M

TA ✓

R/T# 9320 (?)

Time correction between radar time and digital time ~

Radar Postflight Summary

Number of digital tapes used:

1

DMTR1 1

DMTR2 0

Significant recorder down time:

DMTR 1

Radar LF

DMTR 2

Radar TA

Other problems: A mean HUGO!

HRD Radar Tape Log

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[illegible]

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HRD Radar Down-Time Log

Operator Dodge / Burpee

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Item	Time Down	Time Up	Problem
System	~ 1614	1658	AL Goldstein Fixed HP (bad cache control on CPU card)

Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.