

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

- MMD 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- MMD 2. Confirm mission and pattern selection from the on-board LPS.
- MMD 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.
- MMD 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

- MMD 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

- MMD 1. Complete the summary check lists and all other appropriate check lists and forms.
- will do 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- will do 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.]
- will do 4. Debrief at the appropriate operations center (FGOC or MGOC).
- will do 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 900920H1
Aircraft # N 42 RF
Operators MIKE BLACK, NEAL DORST
Radar Tech. JACK HANNCHET

Number of digital magnetic tapes on board 20⁺

Number of tape labels on board BEAU COUP

Component systems up and checked:

MARS ✓

Computer ✓

DMTR1 ✓

DMTR2 ✓

LF ✓

R/T# S/N 121

TA ✓

R/T# 42671

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used:

DMTR1 3

DMTR2 2

Significant down time:

DMTR 1 —

Radar LF —

DMTR 2 —

Radar TA —

Other problems:

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HRD Radar Down-Time Log

Operator M BLACK, N DORSTSheet 1 of 1

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
DMTR1	~1507Z	154010Z	WON'T GO 'ONLINE'
MARS	212226Z	—	COMP SYS STOPPED UPDATING — why?
			STOPPED RECORDING DATA

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

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