

1992 08 22 H1 - RADAR

Form E-5
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Doppler Radar Scientist Check List

Flight ID 920802H1
Aircraft # 42
Operators M. Black
Radar Tech. Dan Linn

Number of digital magnetic tapes on board 18

Number of tape labels on board More than enough

Component systems up and checked:

MARS _____

Computer _____

DMTR1 _____

DMTR2 _____

Spare 123 LF SN103

R/T# _____

TA SN103

R/T# _____

Time correction between radar time and digital time _____

Radar Postflight Summary

Number of digital tapes used:

DMTR1 _____

DMTR2 _____

Significant down time: 2135 - 2152

DMTR 1 ☒ _____

Radar LF _____

DMTR 2 ☒ _____

Radar TA _____

Other problems: Tail reflectivity seems low, not noisy, though. IS
~ 20dbz low

Tail transmitter swapped after figure 4 pattern and seems ok. No data recorded though. Storm far away.

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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

- Clean 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- Yes 2. Confirm mission and pattern selection from the on-board LPS.
- OK 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.
- What Calibrations 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.

HRD Radar Tape Log

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HRD Radar Down-Time Log

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Operator M. Black

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Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
A11	2135	2152	Bus (power)

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