

19871011I1-RADAR

E.5 Radar/Airborne Doppler Radar Scientist (On-board)

The on-board Radar Scientist (RS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists 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 HRD/RS and the on-board LPS.
- _____ 4. Complete the appropriate preflight calibrations and checklists 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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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 checklists and all other appropriate checklists 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.

871011J

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Radar Scientist Checklist

Flight ID 871011J
Aircraft # N43RF
Operators G. Goldstein
Radar Tech Al Goldstein

Number of digital magnetic tapes on-board 17+

Number of tape labels on-board ✓

Component systems up and checked:

RDSC _____ DSC1 _____

Computer _____ DSC2 _____

DMTR1 _____ DMTR2 _____

LF _____ R/T# 101M

TA _____ R/T# 201M

Time correction between radar time and digital time +1 sec

Radar Postflight Summary

Number of digital tapes used DMTR 1 _____

DMTR 2 _____

Significant recorder downtime:

DMTR 1 _____ Radar LF _____

DMTR 2 _____ Radar TA _____

Other problems:

OPERATOR _____

SHEET _____ OF _____

HRD RADAR LOG

RADAR DOWN-TIME LOG

[illegible]

ITEM LIST: VTR, DMTR1, DMTR2, COMP, RO SC, LF, NO, TA, DSC1, DSC2

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

Radar Scientist Checklist

Flight ID 871011I1
Aircraft # 43RF
Operators BAMARHE
Radar Tech GOLDSTEIN

Number of digital magnetic tapes on-board over 30

Number of tape labels on-board Enough

Component systems up and checked:

RDSC _____ DSC1 _____
Computer _____ DSC2 _____
DOPPLER ✓ DMTR1 _____ DMTR2 _____

LF _____ R/T# _____

TA _____ R/T# _____

Time correction between radar time and digital time +2

Radar Postflight Summary

Number of digital tapes used DOPPLER 2
DMTR 1 _____

DMTR 2 _____

Significant recorder downtime:

DMTR 1 _____ Radar LF _____

DMTR 2 _____ Radar TA _____

Other problems:

OPERATOR _____

SHEET _____ OF _____

HRD RADAR LOG

RADAR DOWN-TIME LOG

[illegible]

ITEM LIST: VTR, DMTR1, DMTR2, COMP, ROSC, LF, NO, TA, DSC1, DSC2