

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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.

Radar Scientist Checklist

SEP 29 1987

Flight ID 870929H1

Aircraft # 42

Operators DODGE

Radar Tech JARVI, HAN & HEET

Number of digital magnetic tapes on-board 20

Number of tape labels on-board plenty

Component systems up and checked:

RDSC ☒

DSC1 ☒

Computer ☒

DSC2 ☒

DMTR1 ☒

DMTR2 ☒

LF R/T# 102 M

TA R/T# 104

Every 4 TA
Every other LF
both antennas
max ROT

Time correction between radar time and digital time

radar time ~ 2 seconds fast

Radar Postflight Summary

Number of digital tapes used DMTR 1 4

DMTR 2 4

Significant recorder downtime:


DMTR 1 none

Radar LF none

DMTR 2 none

Radar TA none

Other problems:

None - TA display looks a little SPOKEY 
Also - what is ring about 2 mm around TA display?
Side lobes?

FLIGHT 870929H1 AIRCRAFT 42 OPERATOR Dodge SHEET 1 OF 1

[illegible]

870929H1

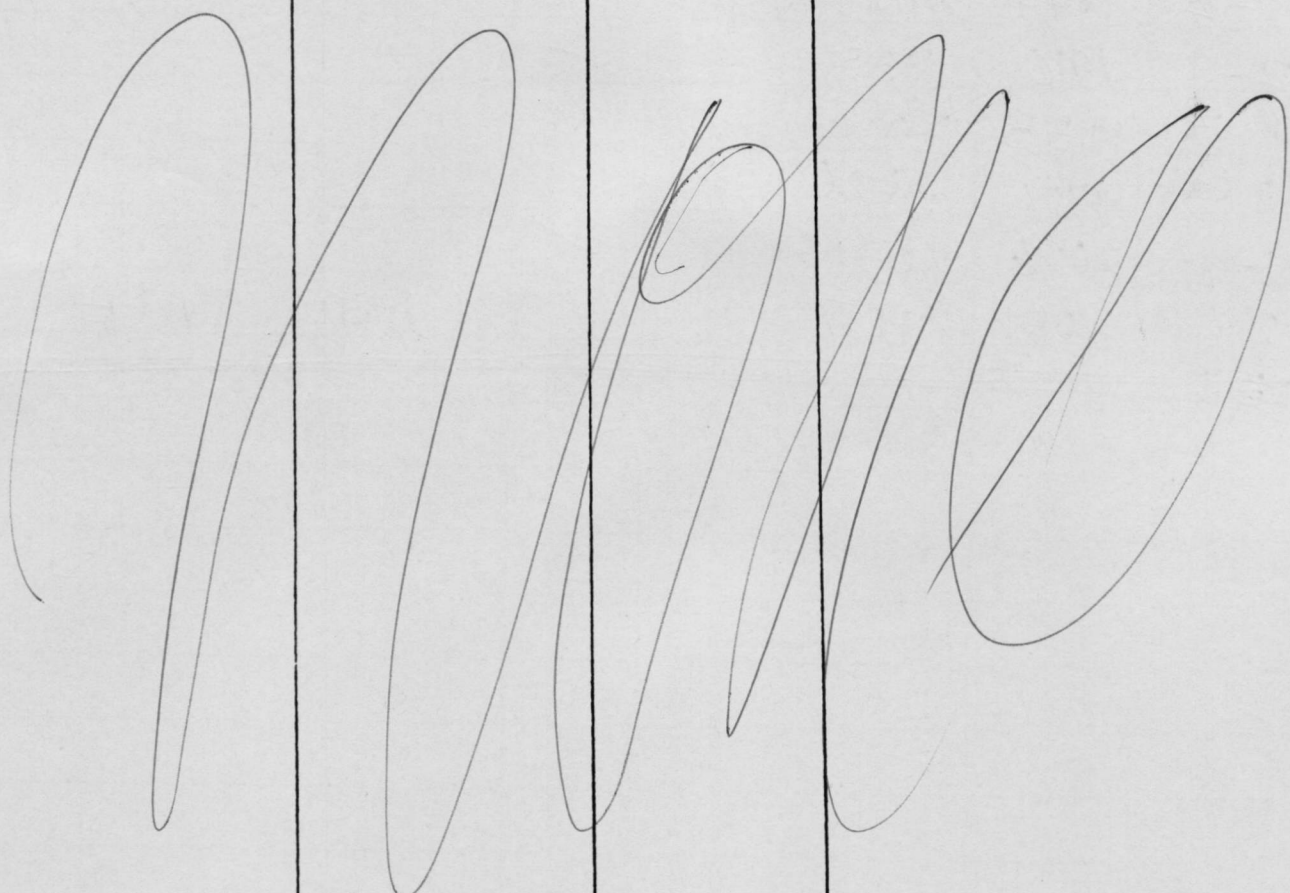
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OPERATOR Dodge
SHEET 1 OF 1

HRD RADAR LOG

RADAR DOWN-TIME LOG

<u>ITEM</u>	<u>TIME DOWN</u>	<u>TIME UP</u>	<u>PROBLEM</u>
			

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