

198901411-RADAR

OCT 14 1989

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

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

Doppler Radar Scientist Check List

Flight ID 891014I1
Aircraft # N43RF
Operators GAMACHE
Radar Tech. _____

Number of digital magnetic tapes on board 28

Number of tape labels on board ENOUGH

Component systems up and checked:

MARS	<u>✓</u>	Computer	<u>✓</u>
DMTR1	<u>✓</u>	DMTR2	<u>✓</u>
LF	<u>✓</u> All flight	R/T#	<u>S/N 21</u> ← S/N 204 replaced with
TA	<u>✓</u> Done at 1213	R/T#	<u>empty</u>

Time correction between radar time and digital time 1 sec *Doppler reads later*

Radar Postflight Summary

Number of digital tapes used:

DMTR1 2
DMTR2 1

Significant recorder down time:

DMTR 1 None
DMTR 2 None

Radar LF None
Radar TA Last 13 of flight

Other problems:

Form E-5
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Flight 891014II Aircraft N43RF Operator GAMACHE Sheet 1 of

[illegible]

HRD Radar Down-Time Log

Operator GAMACHE

Sheet 1 of

[illegible]

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