

PP80823I - RADAR

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 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 on-board LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.
- ☐ 2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

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 Field Ground 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.

Doppler Radar Scientist Check List

Flight ID: 980823I1
Aircraft Number: N43RF
Doppler Radar Operators: GAMACHE
Radar Technician: ROLGS, CYNCH
Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS <u>✓</u>	Computer <u>✓</u>
DAT1 <u>✓</u>	DAT2 <u>✓</u>
LF <u>✓</u>	R/T Serial # _____
TA <u>✓</u>	R/T Serial # _____

Time correction between radar time and digital time: _____

Radar Postflight Summary

Number of digital tapes used: _____
DAT1 _____
DAT2 _____

Significant down time:

DAT1 _____	Radar LF _____
DAT2 _____	Radar TA _____

Other Problems: _____

Flight 980823II Aircraft N43RF Operator GAMACHE Sheet 1 of
LF RPM 2 TA RPM 10

[illegible]

HRD Radar Down-Time Log

Operator _____ Flight ID _____ Sheet _____ of _____

[illegible]

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.