

19870925II-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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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.

94049-1122POT8P1

Radar Scientist Checklist

Flight ID 870925 I

Aircraft # NOAA 43

Operators Burpee

Radar Tech Berles, Duffman

Number of digital magnetic tapes on-board _____

Number of tape labels on-board _____

Component systems up and checked:

RDSC ✓

DSC1 ✓

Computer ✓

DSC2 ✓

DMTR1 ✓

DMTR2 ✓

LF _____ R/T# SN-101M

TA _____ R/T# SN-201

Time correction between radar time and digital time 0

Radar Postflight Summary

Number of digital tapes used DMTR 1 4

DMTR 2 3

Significant recorder downtime: None

DMTR 1 _____

Radar LF _____

DMTR 2 _____

Radar TA _____

Other problems: None

[illegible]

OPERATOR _____

SHEET _____ OF _____

HRD RADAR LOG

RADAR DOWN-TIME LOG

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

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