

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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

Other problems:

HRD Radar Tape Log

Flight 950826 I Aircraft 43RF Operator Maury Sheet 1 of 1

Tape #	Time On	Time Off	Comments
181145	181145		on Ferry over Bahamas
			LF painting Islands
	181920		F/A Cont $\pm 23^\circ$
	190900		Raised LF tilt to 2.6°
			2133 (check video for stratus at 0° level) as we enter CDO
			2D-P probe useless
			2136 enter cirrus cloud probe look good.
	2138		change tilt on FAST to 17.5°
	2153 G		pass by big cells to E near 500mb center.
	2201		start descent to (MKPB) Barbadoes in band SE of G
			strong shear from 6800m - 5400m E $\rightarrow$ W
			2208 thru the 0° level
			2212 rounded drops at 1.7°
		2226	in ditch drill couldn't turn off till almost on the ground.
	<u>222730</u>		land
			$13^\circ 4.6''$ N $59^\circ 29.4''$ W Barbadoes

pat wtd ws
on channel 11

HRD Radar Down-Time Log

Operator _____

Sheet ____ of ____

Item	Time Down	Time Up	Problem

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