

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.

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 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 ~~AUG 2-7~~ 1993

Flight ID 930827I
Aircraft # 43RF
Operators Markes
Radar Tech. Lynch

Number of digital magnetic tapes on board 712

Number of tape labels on board 730

Component systems up and checked:

MARS	<u>↑</u>	Computer	<u>↑</u>
DMTR1	<u>↑</u>	DMTR2	<u>↑</u>
LF	<u>9</u>	R/T#	<u>124</u>
TA	<u>9</u>	R/T#	<u>201</u>

Time correction between radar time and digital time +1s

Radar Postflight Summary

Number of digital tapes used: DMTR1 _____
DMTR2 _____

Significant down time:

DMTR 1 _____ Radar LF _____
DMTR 2 _____ Radar TA _____

Other problems:

HRD Radar Tape Log

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Flight 920827E Aircraft 43RF Operator Marks Sheet 1 of

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
	185206		TO MIA
1-1	191508	203904	on over Bahamas to map islands and take tape for geometry test
2-1	211820	2200	200 nm W of G TK 090°
			TA F/A CONT $\pm 20^\circ$
			2138 change F/A CON ± 18.40
			214344 CONT scan
1-2	220338	223350	2209 F/A Cont.
			222230 CON on TK 180
2-2	223350	~2340	in eye TK 180
			lost data because DI is not pulling
1-3	23455	002313	not much missed out S
			F/A CON at start
			0004 Point left SE of G
			0009 F/A CON $\pm 19^\circ$
			001230 CON
2-3	002313	20110	on the way thru N G wall
		almost to Bermuda	

pulling
tape
on line
on
load.

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Operator Marks

Sheet 1 of

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.