# 19910818H1. 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

 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.]

- . 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.

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Doppler Radar Scientist Check List								
	Flight ID	9108181	41					
	Aircraft #	N42RF						
	Operators Cristo Dors f & Gamache							
	Radar Tech.	Jim Koles						
Number of digital magnetic tapes on board								
Number of tape labels on board Enough								
Component systems up and checked:								
	MARS		Computer					
	DMTR1	~	DMTR2					
	LF		R/T#	SN 10Z suitable to				
	та		R/T#	S/N 101 broputy# 42671				
Time correction between radar time and digital time <u>Lader clock</u> 2 secs a head								
Radar Postflight Summary								
Number	of digital tapes	used:	DMTR1	2				
			DMTR2	2				
Significant down time:								
		me	Radar LF	0334-034				
	DMTR 2	Some	Radar TA	0334-0341				
Other problems:								
Blose R/Tahange TA tronsmitter was interentled								
11 No RI- aling this however under sound								
Somewhat ling Sensitive afterward.								
			V					

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HRD Radar Tape Log

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Flight 910818H Aircraft N43RF Operator Ba

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
DITI	194640	2026	at 194640 - LE only have the in the
NITI	002/07	2000	LF only at 002602 0030
DITI	0030	anner 0253	014035 TH recordings kuted
DZTI	0253	024645	0334 recording office Lever
DITA	024645	043003	0341 Recording started again
0212	04303	054600	053120 - RecordyLF only (lesving the
- Clark	-15		v some
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	a survey and		All and the stand of the stand
1.4.2			
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HRD Radar Down-Time Log

Operator \_\_\_\_\_ Gamadu \_\_\_\_\_ Sheet \_\_\_\_ of \_\_\_\_

ltem	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
LF 74	0334	0341	Radars on standby ac R/T charge was made
	1.		
	a serie a		
	1		
		-	
	100		
	a special and the		

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