## 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 Pre	efligh					
	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-	Fligh	t				
	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 Po	stflig	ht				
/	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:				
		<ul> <li>a. Outside of Miami - to the HRD operations center (FGOC).</li> <li>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.]</li> </ul>				
1	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 940882T					
Aircraft # 43					
Operators 5. Obovion					
Radar Tech.					
Number of digital magnetic tapes on boa	rd				
Number of tape labels on board					
Component systems up and checked:					
MARS	Computer				
LF	B/T#				
TA	R/T#				
Time correction between radar time and	digital time				
Radar Postfl	ight Summary				
Number of digital tapes used:	DMTR1				
Significant down time:					
DMTR 1	Radar LF				
DMTR 2	Radar TA				
Other problems: Should LF upda (TA dd)	te every munite? It dichet.				

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Operator \_

## HRD Radar Down-Time Log

Sheet \_\_\_\_ of \_\_\_\_

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
	1		

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

## HRD Radar Tape Log

Flight	940822T	Aircraft	N43RF	Operator	Aberson	Sheet of _	
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Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
1	~160000		Setup complete LF updating every
	11.000		2-35
	160400		Check woodaling of 4. Storged
	16 1400		Desided porhaps it should not update
			each minute det
			Latt running through Sight with
			only minimal and to change
	1831		Stonged peroreling
	700		Configuration of the second