## 19990913HI\_RADAR

## E.5 Radar Scientist

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
	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.
3	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.
	2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.
E.5.3	Post flight
	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:
٠	<ul> <li>a. Outside of Miami - to the LPS.</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>
	4. Debrief at MGOC or the hotel during a deployment.
	5. Determine the status of future missions and notify MGOC as to where you can be contacted.

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**Other Problems:** 

## **HRD Radar Scientist Check List** Flight 1D: 990913H Aircraft Number: \_\_42 Doppler Radar Operators: Dod 4e Radar Technician: PTim Roles **Component Systems Status:** Computer \_ R/T Serial # \_\_\_ Time correction between radar time and digital time: **Radar Post flight Summary** DAT1 \_\_\_\_\_ Number of digital tapes used: DAT2 Significant down time: Radar LF \_\_\_\_\_ Radar TA \_\_\_\_\_

Radors NEVER Froze up!

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HRD Radar T	ape Log
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Flight 490913H Ai	rcraft 42	Operator	Dodge	Sheet of
	LF RPM	2	TA RPM	10

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
1	YES	1820	
		0003	switched to dual PRF 1600/1200
		0006	switch to single PRF
		015856	switched to dual PRF 1600/1200 Switch to single PRF STOPPED.
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## **HRD Radar Down-Time Log**

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
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Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.