# 19980919H1-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

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- 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.
- 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 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 Field Ground 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.]

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- 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

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Flight ID: 98 0919 H 1	
Aircraft Number: N 42 R F	
Doppler Radar Operators: CAMACHE	
Radar Technician:BARR RELES	0
Radar Technician: <u>BARR/RELES</u> Number of digital magnetic tapes on board: <u>(</u>	> + 2 for today's flight
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF	R/T Serial # <u>102</u>
ТА	R/T Serial # 202/123
Time correction between radar time and digital time:	RADAR 15 1.5 SECS ALLEAD OF DATA SYSTEM
Radar Postflig	ght Summary
Number of digital tapes used:	DAT1
	DAT2
Significant down time:	
DAT1	Radar LF
DAT2	Radar TA
Other Problems:	

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# HRD Radar Tape Log

Flight 980919H1	Aircraft _	N42RF	_ Operator _	GAMACUE	Sheet	of
LF RPM	1		TA RPM	1	and the second	

(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
	y na handad	175220	- T/O at GRANTLEY ADAMS
7171	Y	1802 05	2100/1400
		193905	RADAR DOWN
		195050	RADARUB
		1957	shows alls to an south
		225646	RADAR COMINGUP FROMBEING DO
		225730	RECORDING RESTARTED
		235830	SINGLE PRI= 2100 51 PER JAMES RECO
	1000	002018	LEFT TURN TRACE 1800 NWOF
		in the second	EVEWALL VERY USHAPED)
			PROFILE ON IST PASS
		005730	2100/1400 ON 3RD PASS 10,000 AJ
			SEE WHICH UNFOUDS BEFTER
			11 STRONG STORM
a dana a		012250	TEP RETURNING TO FUGHT LEVEL
in the second		0208	END RECORDING
		No.	
		9.000	

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## HRD Radar Down-Time Log

Õperator		Flight ID	Sheet of
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
	4 1 mm		
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	Constant and		and the second
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	a sana a sa		and the second
			a and a subset of the part of the second
		***	
		·····	

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.

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HRD Radar Tape Log

Flight 98091911 Aircraft 43 RF odge. Operator \_\_\_\_ Sheet of 2 LF RPM TA RPM

(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
	NO	175800	
	YES		
	NO	191030	FLAST off form VTD leg 1
	YES	193216	downwind leg
	NO	194503	to start VID bg 2 (194600)
	YES	200903	FLAST ON for 350 PASS (200820 End of Radar Tape
		2231	End of Radar Tape
	1.00		
	1.1.1.1.1		
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
			and the second
	+		
			A

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### HRD Radar Tape Log

Flight Airc	raft Operato	or Sheet of
LF RPM	TA RPI	м

(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
		Star in the second	
ling and the	A	and a second second second	and the second
in the second	Section Sec		and the second
	- Second	for the second second	
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	1.1	and a start of the	
-		and the tapket of the second second	
		materia and the second	
	S. 10-1		
	1.1.1.1.1.1.1		
	A Starting	and the second	
1.18			
1.5		a set a star of a star	
			a star
A. Berl	1	Capper and services and services	A