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.
- 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.]
 - Debrief at the appropriate operations center (FGOC or MGOC).
 - 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: 980923II	
Aircraft Number: N/4/3R/F	
Doppler Radar Operators: <u>CAMACHE</u>	WORKSTATION: DODGE
Radar Technician:IERRY LYNCH	
Number of digital magnetic tapes on board:	10+
Component Systems Status:	
MARS	Computer
DAT1	DAT2
LF	R/T Serial #
та	R/T Serial # 201 /201
Time correction between radar time and digital time:	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 <u>98092371</u> Aircraft <u>N43RF</u> Operator <u>GAMACHE</u> Sheet <u>1</u> of ____ 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
D2 T1	YES	220520	1600/1066 FAST
		220100	STOPPED TO MAKE LESKIP-1
		220715	RESTARTED RECORDING
D271		013008	RADAR DOWN
D272	YES	014100	RED RECORDING NEW TAPE
207		\$043004	RADAR DOWN
D273		0437-0443	RECORDING RESTARTED
D2T3		0527	RAMAR RECORDING STOPPET)
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			A

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HRD Radar Tape Log

1

Flight	Aircraft	Operator	Sheet of
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
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	Sec. Sec.		
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HRD Radar Tape Log

Flight	Aircraft	Operator	Sheet of
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)

	F/AST Event Time On? (HHMMSS)	Tape #
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		and the second
<u>alan selako</u> T		
		1. 198.4 19

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HRD Radar Down-Time Log

Down Time Up MSS) (HHMMSS)	Problem
1 the set	

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

Include serial numbers of any new R/Ts.

980923I1 5 Gaarges 9809251 GGeorges Recco Reconnaissance Flight The NIGHT CREW, PART IL "PS" P. Douge 's, WKSTN : P Poder, D Cecil LPS, 2 : J. Gamache Westn. P. Dodger WARDS: Wen-Chan Lee, SAR (?) Wuyne Wright 012305: Type off from Tampa Intl Apt to do recomp in & Georges as he has exited the coast and hole for the KEYS. 2320 ; Just passing through 1st convective band ~22°, 75°W, Some electricity) 0153 started recording F/AST dual PRF 1600-1066 heavy rain. We're at 4650 m. center NofConst? 2341 0255 0258 23004:7 790 37:4 85 KTS on E Side spaye 0428 617 hightning, 9m/s A in the eastern eyenall main band skelchso 711 Band ~ 1 coust N of 250 80°34' - scallopy ,... 1+51+