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E.5 Doppler Radar Scientist (On-Board)

ANR 27 1995

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

- V
- 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 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 delively 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.]

- 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.

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Doppler	Radar	Scientist	Check	List
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	Flight ID	950827	II			
	Aircraft #	43RF				
	Operators	Marks				
	Radar Tech.	Lynch				
Number	of digital magn	netic tapes on boar	dS			
		on board	>50			
Compon	ent systems up	and checked:				
	MARS	V	Computer			
	DMTR1	<u> </u>	DMTR2			
	LF	V	R/T#	103		
	та	~	R/T#	201 201		
Time co	Time correction between radar time and digital time					
		Radar Postflig	ght Summa	ry		
Number	of digital tapes	used:	DMTR1 DMTR2	2 DATS		
Significa	nt down time:					
	DMTR 1	Omin	Radar LF Radar TA	210 min 212min		
Other problems: System hung up from 164236-1652 TAProcess TAProcess TAProcess Description 23357=2338						

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IRIS

HRD Radar Tape Log

Flight <u>95082771</u> Aircraft <u>43RF</u> Operator <u>Maulus</u> Sheet of ____

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
	163030		The to & fran Barbadoes
			163230 switch to FAST ± 18.0°
			164236 radarsystem failed
		144630	Terry Lynch working on it
2	165200		backon -
			165530 switch to F/AST = 19,00
	1000		40 ym fran 6
			204720 switch to I scan 25 um fra 214515 switch to F/Ast ±19.50
			214515 Switch to F/Ast ±19.50
			233525 TA froze up Terry wali 233755 TA back.
		002343	56
		1	
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HRD Radar Down-Time Log

Operator _____

Sheet ____ of ____

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ltem	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
	C.		
		1201	
		and the second second	
			•
7. 19			
		T AST P	

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

NA NU'O BITNARAD Clame Phyrics roks -950827I IRIS (Mailer) 20:52 tape & stas Tropical Cycledenesis Mission NY43RE lange Fizy at 16kft. To record! A. Birs - Normal Equ- Normal Plan ANRS- Off In put - Att. B. Reave Levela Left - Max pt - Max C. Record Masterpartin -> (-15uW)?? price in Right ong pri. pre -> steves 160315 Z Banbadoes 10 eld setting were - porks - Souper Fright > Mic/sin Fic. naifer> (5) 1621-1627 flying through status decles on climb near O'C (moter pyod) evel - check video and T, Td on ascent - at base of anvil turbulance 1632 started veronding FAST + 180 Set up LF with 2,1° +it.

IRIS 165630 FAST \$19° 1657 over Island TA goes Wild 1636 100mm C 170230 7 Neal velletinto 00 Barbadoce Arougest dBZ 3920 another status deel good bump cliend of is on 12 under client of 1.4°C 484am lind Jup durlass decli Stowb O Barbadoes - 164115 in status dech + 659 1001 5 youd 1=009°C in cloud 802 onter vanband storg anvagence/divergence Signal 161236 Raday system lockedup Terry Lynch waling out. 1810 nice bumps on outer edge of band. ~1646 good beimp + 12m/s

5 1947 turn TKN >6 1954 4 in cells in ramburged -hard ells 50 200015 big up ~12 m/s 202510 -> 202640 good up 2 and downs + 6, +11m/ -3 m/s Secluty 2034 225 to pt S 150 1816 Turn T 1938 Bubb frongcolles Island. 204720 Normal stren Phriday N coast if

1994 93 1 - 10m/s on N 5 57 6 2258 climb to 17kft, for ATC 6.9 2303 shut down video 205430 - 2055 2307 discend to 15kft. 214115 Switch to FAST 214353 turn TK 225 to pt 1096 223050 turn TK 290 forg= 232057 turn TK to Banbadoes 15 K.F.t . 2329 Biscell 2240 150 10 05700 Seculter PR with real Stevoix Interest NNR/SSW orrenta 233527 TA down 233755 TA up 002330 Shut down 2214 Skirting along to of this stratus 4829 m 224540 turn TK 040 to