5.

AUG 2 0 1998

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). Confirm mission and pattern selection from the on-board LPS. Select the operational mode for radar system(s) after consultation with the on-board 3. LPS. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual. E.5.2 In-Flight 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. **Postflight** E.5.3 Complete the summary check lists and all other appropriate check lists and forms. Brief the on-board LPS on equipment status and turn in completed forms to the LPS. Hand-carry all radar tapes and arrange delivery 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.] Debrief at the appropriate operations center (FGOC or MGOC). 4.

(FGOC or MGOC) as to where you can be contacted.

Determine the status of future missions and notify the appropriate operations center

Doppler Radar Scientist Check List

Flight ID Aircraft # Operators Radar Tech. Number of digital magnetic tapes on board Number of tape labels on board	ard >10
Component systems up and checked:	
MARS DMTR1 LF TA	Computer
Time correction between radar time and	digital time
Radar Postf	light Summary
Number of digital tapes used:	DMTR1
Significant down time:	
DMTR 1 O	Radar LF
Other problems: Waked for	n faste 111

Form	E	-5	
Page	3	of	3

HRD Radar Down-Time Log

98082041

Operator _	Marles	Sheet of	

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

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

Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight 980820H/ Aircraft 42RF Operator Marks Sheet of ___

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
1	175616		TA operate dual PRF
			may vange 71 km
	201300		FIAST Sof Centa 472 bins
	204330		40 mm 5 x 6 continuous
	210300		FAST 40 nm Nof 6 of
	211315		40 nm Wof & continuous mo
	213930		FAST 40nm Edg at
	0	015900	off recording Kasta

1756

AUG 2 0 1998



HRD Radar Tape Log

Flight <u>9808</u> 2	ioil	Aircraft 903 NY	3KF Operator 6	AMACHE	Sheet / of /
LF RP		2	TA RPM _		
(Include start a equipment state	nd end us)	times of DATs, as we	II as times of F/A	AST legs and	any changes of rada
1.	F/AST	Event Time	Parameter A		

Tape #	F/AST On?	Event Time (HHMMSS)	Event
		17 3732	7/0
DITI	Y	175330	Start Recording 1600/1066
	Y	181800	Stopped updating
	Y	183000	Storted recording coherently
	Y	195130	Recording restarted ofter glich
		001003	Recording restarted often glich TA stopped at 000000 VTC?
		001147	& 4 OFF TO FIX
344	Y	001300	RADAKS BACK ON
		025725	END RECORDING ATBERMUDA
			NO30300 CANDING BERNUD
	The second second		
		700	
			A A

HRD Radar Tape Log

				Sheet of
LF	LF RPM		TA RPM	
nclude star quipment s		times of DATs, as w	vell as times of F/AST leg	s and any changes of rad
Tape #	F/AST On?	Event Time (HHMMSS)	Eve	ent
				and the second
		N _ 20 (2.8) _ 2		
		2 A 6 9		
			4	

HRD Radar Tape Log

clude sta	rt and end	times of DATs, as v	vell as times of F/AST legs	and any changes of ra
uipment s	tatus)			
Tape #	F/AST On?	Event Time (HHMMSS)	Even	t s

HRD Radar Down-Time Log

Operator		Flight ID	Sheet of
Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
•	1818	1830	Davo
	5000	1830 00 B 00	Down
6 8			
	218	1	

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

Include serial numbers of any new R/Ts.

980820 H 1 son Bonnie " 980820 H 1 San Commine

3-plane Synoptic-flow

from St Cruix

17°42" 64° 48"

radan (Marks/Bracken)

To 174624TIC LPS PiBlack

GPS M Black

walestaban leighban cld physics Ciene Set us radan system and Saved menus HURRZ for LF Color tables adjuted 2013 switch to FAST crossing islands 260 nm Sof 6 15things

202230 enterity small bomb 2200 running along Sedge of vooster tail 100mm Engl 5 good FAST in cells. 18°23 60°30" 570 my 17°56" 60 40" 850mb Start leg 2044 0159 Mape of6 FAST deranund to 400m W76 good vainboard- my h reflectivity Start log 2114 2115 pearl Wolf 9 start leg 212345 nice little hook like 15000 St. Guillarup 1991 2129 1830" 6036"

when HURRICANE SEASON Drops; Where Winds Comm 1948 Ves 130 Kts SFC N. exewall Wes 120 Kts 2 1950 middle Nerewill 980819HI Ferry to St. (vory NO 3 1953 outer Nevenall No 4 2120 SE execull Playing w. th PRF 184747 320/2133 middle Stevensy Yes 100 Kts 5 2123 6 2125 inner Stevens Nes 110 Hs 7 2342 SW eyewall YPS N185006 Switch to 3200/2400 inner NE eyeugh Yes 125 Hts 8 2348 middle NE executions 9 2351 10 2354 orter NE exercit No - OA's screwby up to N 1850 0028 - eastern eyewell 114 htmns - groupel at 10°C 115 kts RA fold during formation . He all to lot at 1858 170 0036- climb out 911 switch to 2100/1400 pack to Puerta Vallento 1923 "Small fire" Sean Mc Millan 0137 - end recording ACU problem Good byte Gullermo 1941 LF down to the flight 194250 was a little something to

194700 a little kly vanne 212340 END RECORDING 200130 2400/1600 206440 2400/1800 N2007 Wont through for two tillo of 2400/1800 1 201730 Switch ball to 2160/1400 N 22002 222230 aprior into Fine AFT 203230 Switch to 2100/1575 ~ 2,09 Switch fo 2100/1400 211688 No grand grane