19940820II-RADAR

Hirricane/TS Chris

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	Prefligh	t
	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 HRD/DRS and 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-Fligh	ıt
	Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.	
E.5.3	Postflig	ht
4	_ 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 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 OAO 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.

INE =	2	
LF R/T =	124	170000
TA. R/T =	201/202	From Borr

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	Doppier Radar Sc	ientist Chec	CK LIST	
Flight ID Aircraft # Operators	9408Z RF43 Samsury	COI		
Radar Tech.	Jim Barr	/ Tern	Lynd	
Number of digital mag	netic tapes on boar	rd 9 D	ats	
Number of tape labels	on board	N/A		
Component systems u	p and checked:	Used	HURRI	setup.
MARS		Computer		_
DMTR1		DMTR2		_
LF	<u>New Control of the C</u>	R/T#		_
TA		R/T#		_
Time correction between	en radar time and	digital time .		
	Radar Postfli	ght Summai	ry	
Number of digital tape		DMTR1		
Significant recorder do	DAT own time:	DMTR2		
DMTR 1		Radar LF		2237-2242
DMTR 2		Radar TA		2338-2340
Other problems:				,

HRD Radar Tape Log

Flight 940820 I Aircraft 43 Operator Samury Sheet of ___

_				
	Comments	Time Off	Time On	Tape #
	-1900 not showing ecloses, by Jimbers - on MFC Father	262310	174530	1
	Jimbors - on MFC Father			
	than AFC. LF Looks OK			- 68
10	200807 radar (LF+TA) ceased to upd			
	201225 TA reset + Fine			
	201310 LF reset + fine.			
	223757 rader stopped updating			
ck	224240 reset DSP - raders bac			
	kept tilt of LF most of flight at 2:3. This was in an altempt to limit sea clutter. So			
NO				
	unsuccessful unfortunately.			
(9)	2338 rater stopped updative			
0	2340 rado 40			
1				

HRD Radar Down-Time Log

Operator Samsury Sheet of 1

Item	Time Down	Time Up	Problem
	200807	201310	roder stopped updating,
0	223757	2242	rader stopped updating
3	2338	2340	11 11 21
		1	
5			

Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.

940820 I RF43 Chms Takeoff: 172407 UTC Video time off from julynd clock ~8 sec fast s eventually 1900 felt at 1.0, noticed 78 2309 1903 titl at 1.3 1906 11 11 2.0 1809 Despite tilt = 2.0 still fair - ant of sea cluther ketwern 5º 150 AMi. - Little Stoll of the Story ca radar - cold low convection may be of our position). 1943 - kinting for centr Max and speed >40. 1946 - wied down to 6. white cass below 1952 - 1ht wind. center boland to be near SW extension of precipi

Wind speed up to 8 223757 rader stopped updating again.
Jim Borr reset the Dept + it ~ 2005 Started up again @ 224240. 200807 clock stopped 20025 TAMSet 2338 rader stop again 2340 reset tup again. 201310 LF MESET ~ 2042 2352 Turn to West 2045 9 symbol used loosety. Dospite bell of scatherers will change to FAST 2409 Last bout w/ convection 105 = 53 HS pretty decent his of precip. 022310 212833 Tun to 150 back to 0 till on TA a book to (262310) rada Shundown. continuous 2734 Landed Son Juan. 2220 convective cell which TH down sot dBZ near alleged centr of Chris to 6+1 (€) of a/c. Good downdraft (>6)