19870922HI-RADAR

E.5 Radar/Airborne Doppler Radar Scientist (On-board)

The on-board Radar Scientist (RS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

E.5.1 Pr	efli	g ht_
	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/RS and the on-board LPS.
	4.	Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.
C	. []{	aht
E.5.2 II	1-11	ync
	1.	Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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 P	ostf	light
	1.	Complete the summary checklists and all other appropriate checklists 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.]
V	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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Radar Scientist Checklist

Flight ID <u>8809224</u>	_
Aircraft # NOAA 42	
Operators BURPEE/WILLOUGHBY	-
Operators BURPEE /WILLOUGHBY Radar Tech GOLDSTEIN	<u>-</u>
Number of digital magnetic tapes on-board	
Number of tape labels on-board	
Component systems up and checked:	
RDSCDSC1	
Computer DSC2 V	
DMTR1DMTR2	
TAR/T#_SN-104	_
Time correction between radar time and digital time	e NONE
Time correction between radar time and digital time	e <u>None</u>
Time correction between radar time and digital time	e <u>NONE</u>
Radar Postflight Summary	e <u>None</u>
Radar Postflight Summary Number of digital tapes used DMTR 1_ \mathcal{B}	e
Radar Postflight Summary Number of digital tapes used DMTR 1 B DMTR 2 B	e <u>None</u>
Radar Postflight Summary Number of digital tapes used DMTR 1 B DMTR 2 Significant recorder downtime:	e None
Radar Postflight Summary Number of digital tapes used DMTR 1 B DMTR 2 B Significant recorder downtime: DMTR 1 1544-16442 Radar LF	e
Radar Postflight Summary Number of digital tapes used DMTR 1 B DMTR 2 B Significant recorder downtime: DMTR 1 1544-1644 Radar LF DMTR 2 1655-1706 Radar TA	
Radar Postflight Summary Number of digital tapes used DMTR 1 B DMTR 2 B Significant recorder downtime: DMTR 1 1544-1644 Radar LF DMTR 2 1655-1706 Radar TA	
Radar Postflight Summary Number of digital tapes used DMTR 1 B DMTR 2 B Significant recorder downtime: DMTR 1 1544-1644 Radar LF DMTR 2 1655-1706 Radar TA	
Radar Postflight Summary Number of digital tapes used DMTR 1 B DMTR 2 B Significant recorder downtime: DMTR 1 1544-16442 Radar LF	

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HRD RADAR TAPE LOG

	EMILY								
	FLIGHT	880922H	AIRCRAFT NOAA 42			OPERATOR BURPEE SHEET 1 OF 1			
	Tape #	Time On	Time Off	Source TA	Radar LF	Comments			
V	1/1	1519	1544			rador program crashed 1544			
*	2/1	A BROY	1731			restarted 1644 - Thourses			
		1644				radar stopped recording			
						165501			
						restarted 1706			
					17102	decide to leave radar			
						program on tape drive #1			
						Secause radar data system			
						is croshing with every big			
						bump - 17			
						1728 - decided to use both			
			1355			take drives again			
	1/2	1731	1						
	2/2	1755	1821			Fol 1			
	3/1	1821	1846			corrected			
	3/2	1846	1911			about			
	4/1	1911	1937			started spiral mattern 1913			
	4/2	1937	2002			resumed level flight 1952			
٧.	5/1	2002	2027			nadar clock problem add 20 to ho			
X	5/2	2027	2052			10			
	6/1	2052				2/03 even downwintent of oge is very turbulant			
	6/2	2117	2/42						
	7/	2142	2207			2200 only half the eyewall semais			
	3/2	2207	2.00						
	2/1		2258			225 A eyewall better formed 3/40			
0 1	0/0	2258	2323			open 155E			
last	8/2	0000	2247	on bank of a	All manages				

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HRD RADAR LOG

OPERATOR BURPEE

SHEET / OF /

RADAR DOWN-TIME LOG

radar data oystem	TIME DOWN	11ME UP	program bombed when sirvings
swan care g			program bombed when sirvings encountered significant turbulence
rodardata system	1655	1706	same problem as above
rodordsta system clock error	2000	2007	bit was stuck off-lows recorded as "66" rather that
			20
	372.00		