1987 1010MI_ 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 Preflight

- Determine the status of equipment and report results to the onboard Lead Project Scientist (LPS).
- V
- 2. Confirm mission and pattern selection from the on-board LPS.

tion with the HRD/RS and the on-board LPS.

- _____
- /
- Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.

3. Select the operational mode for radar system(s) after consulta-

E.5.2 In-Flight

- /____
- Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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 Postflight

- V
- 1. Complete the summary checklists and all other appropriate checklists and forms.
- V
- 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- V
- 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.]



- 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.

Form E-5 Page 1 of 4

Radar Scientist Checklist

1987 1010HIL RARAR

1717111	
Flight ID 871010H	
Aircraft # NOAA42	
Operators <u>BURPEE</u>	WILLDUGHBY
Radar Tech JARVI	
Number of digital magnetic tap	es on-board
Number of tape labels on-board	
Component systems up and check	ed:
RDSC	DSC1
Computer	DSC2
DMTR1	DMTR2
LF	R/T# SN-102M
TA	R/T# <u>SN-104</u>
Time correction between radar	time and digital time O seconds
Radar Postf	light Summary
Number of digital tapes used	DMTR 1 5
	DMTR 2 4
Significant recorder downtime:	•
DMTR 1 Mone	Radar LF
DMTR 2 MONR	Radar TA
Other problems:	
	runta dava - CPII walk - no Carer:
replaced boa	system down - CPU problem - al Jarvi ad
0015 LF RIT-failed	must be replaced before
the next flight	must be seplaced before

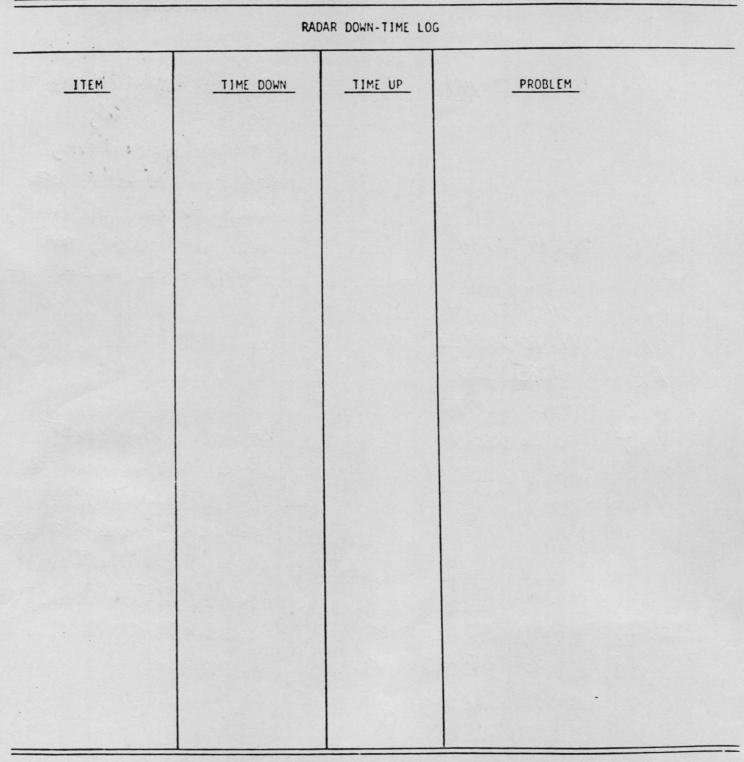
FLIGHT	871010H	,			M FLOYD OPERATOR BURPEE SHEET / OF WILLOUGHBY
Tape #	Time On	Time Off	Source TA	Radar LF	Comments
1/1	192620	200 149	~	~	every other sweep of TA and LF
					for the whole flight.
					radar system down 200149,
					take 1/1 continued to the
					turn on the drive after 20014
2/1	205610	2134	V	V	tilt angle ~ - 0, 5°, 10
\$					flight level pressure ~ 463 mb
1/2	2134	221240	~	~	
2/2		225035	V		
#/3	225035	2330	V	V	
2/3	2330	000700	V	~	
1/4	000700				LF not working 0015
214	0110	10225			stopped recording 001730
1/5	- 0.225				LF RT inoperative
					resumed recording 2023.
					LF recorded by mestake
					Until 0035 after that TA. LF RT turned but still inoperative
2/4	0109	0225	V		LF RT turned but still
115	0225	0340	V		inoperative
4	nd of.	record	ina		
	0		0		

c .

Form E-5 Page 3 of 4

HRD RADAR LOG

OPERATOR_____ SHEET____ OF _____



ITEM LIST: VTR, DMTRI, DMTR2, COMP, ROSC, LF, NO, TA, DSCI, DSC2