19890930II_ RADAR

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).

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-Flight

1. Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.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 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 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.

Doppler Radar Scientist Check List

SADAR

Flight ID 8909	30I1
112 1	sean Cumulus
Operators B. Wrig	ht M. Black
Radar Tech. Terry Ly	neh,
Number of digital magnetic tapes on boar	rd
Number of tape labels on board No	HRD, ~20 OAO Label
Component systems up and checked:	
MARS	Computer
DMTR1	DMTR2
LF	R/T# 121 / changed 10 ym at 182
TA	R/T# <u>244</u>
Time correction between radar time and	digital time Radar + 1 sec fas
	ght Summary
Number of digital tapes used:	DMTR1
	DMTR2
Significant recorder down time:	
DMTR 1/254-1834	Radar LF X
DMTR 2	Radar TA
Other problems: Specks of utranges	24 dot
ut ranges	>200 KM

Form E-5 Page 2 of 3

HRD Radar Tape Log

Flight 8909361 Aircraft 430 Operator R WRIGHT Sheet of ___

Tape #	Time On	Time Off	Comments
DITI	173550	200024	1754 lost AF / 18 & switching RTS/18202
D2T1	200024	213780	
DITZ			
D2T2			
		•	



Form E-5 Page 3 of 3

HRD Radar Down-Time Log

Operator	R.	Wright	Sheet	of
Operator -		7	Sheet	01

Item	Time Down	Time Up	Problem
LF	1754	1834	Switched 1/75 121-10
		44.	
		Company of the control of the contro	

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