1987101011 - 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.)

OCT 1 0 1987

E.5.1 Preflight

- 1. Determine the status of equipment and report results to the onboard Lead Project Scientist (LPS).
- AMAN 2. Confirm mission and pattern selection from the on-board LPS.
- NMD 3. Select the operational mode for radar system(s) after consultation with the HRD/RS and the on-board LPS.
- ALMO 4. Complete the appropriate preflight calibrations and checklists as specified in the radar operator's manual.

E.5.2 In-Flight

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

- NMD 1. Complete the summary checklists and all other appropriate checklists and forms.
- <u>NMD</u> 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- NMD 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.]
- NMO 4. Debrief at the appropriate operations center (FGOC or MGOC).
- NMO
- 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

1861 0 I 100

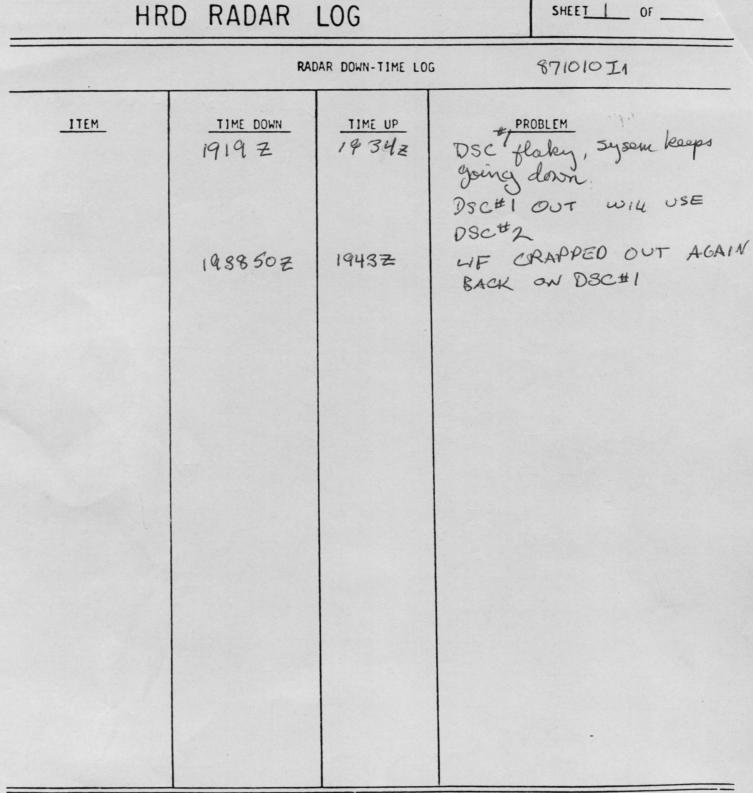
19871010II- RADAR

Flight ID 871010 I1
Aircraft # N43 RF
Operators DORST GAMACHE
Radar Tech GOLDSTEIN
Number of digital magnetic tapes on-board <u>BEAU COUP</u>
Number of tape labels on-board SAME
Component systems up and checked:
RDSC DSC1 INFLIGHT
Computer DSC2
DMTR1 DMTR2
LF
TA
Time correction between radar time and digital time ± 2 SEC
Radar Postflight Summary
Number of digital tapes used DMTR 1 5
DMTR 2 5
Significant recorder downtime:
DMTR 1 Radar LF
DMTR 2 Radar TA
Other problems:

Form E-5 Page 2 of 4	4	HRD F	ADA	R TA	PELOG OCT 1 0 1987
FLIGHT_	8710101	AIRCRA	AFT 43	3	OPERATOR DORST SHEET OF
Tape #	Time On	Time Off	Source TA	Radar LF	Comments
DI/TI	185145		K	V	LF ONLY 'TIL SOF CUBA
			1 de la		1912 34 Radar System down
					1913 50 Up agam
		201033	V	V	195100 START TAIL
02/TI	201033	204200	~	/	
D1/T2	204200	211200	\checkmark	~	
D2/T2	21/2	2142	~	~	
DI/T3	2142	2206	V	1	
D2/T3	2206	2236	V	V	
D1/T4	2236	2307	~	~	
02/14	52307	2328	~	~	
	(2328	0011		~	LF ONLY
D1/75	00 11	0241		/	
D2/T5	0241	0315		~	
					and the second se
				1	

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OPERATOR DORST



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

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

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E.5.1 Preflight

- 1. Determine the status of equipment and report results to the onboard 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.
 - Complete the appropriate preflight calibrations and checklists 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 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

- Complete the summary checklists and all other appropriate checklists and forms.
- ~

 Brief the on-board LPS on equipment status and turn in completed forms to the LPS.

1/

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.]
- 1
- 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.

Form E-5 Page 1 of 4 Dopple Radar Scientist CheckligtCT 10 1987 OCT 10 1987

(based-nU) 12:1001

	001 10 100
Flight ID 87101011	
Aircraft # 43RF	-
Operators <u>GAMACHE</u>	
Radar Tech GOLDSTEIN	
Number of digital magnetic tapes on-board $30+$	
Number of tape labels on-board Enough	
Company sustants up and shecked.	
RDSC DSC1	
Computer DSC2	
Computer DSC2 DOPMER DMTR2	
LF 10/M R/T#	
TA N201 R/T#	_
Time correction between radar time and digital time	+2
Radar Postflight Summary	
Number of digital tapes used DMTR 1	
DMTR 2	
Significant recorder downtime:	
DMTR 1 Radar LF	
DMTR 2 Radar TA	
Other problems:	

FLIGHT	87101021	AIRCRA	FT_	43RF	OPERATOR GAMACHE SHEET 1 OF 1
TAPE NO.	TIME ON	TIME OFF		URCE*	COMMENTS** (#pulses, scan rate, range) 32, mAX, 199 300 m
1	195135	200230		V	Some parity problems, connection
2	201400	203000		2	1 30
3	203530	205230		1	
4	205430	211100		1	
5	213935	215825		1	
6	220925			V	
7	222245	223415		L	
r		224505		1	
9	224705	231/00		V	in the second
10	232000	232010		1	• • •
#					
		4			

*Vertical, Horizontal, or Full Sweep Scan

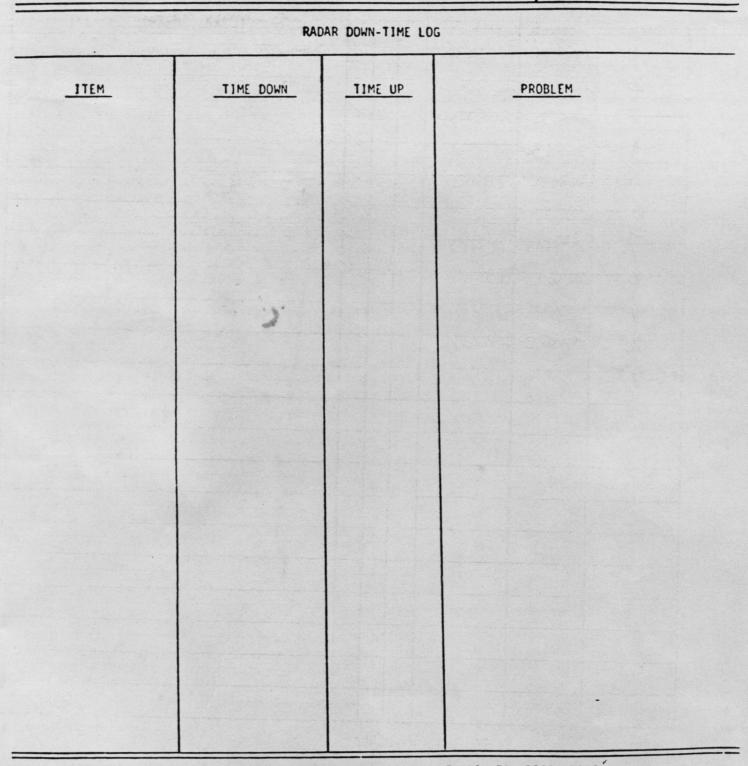
** # of pulses averaged (32,64,128,256); scan rate (Min, Max); range resolution (150m, 300m)

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HRD RADAR LOG

OPERATOR____

SHEET___OF____



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