SEP 23 1007

SEP 23 1987

Form E-5	
Page 1 of 4 Radar Scientist Checklist	
Flight ID 1987092311 RADAR	
Aircraft # <u>43</u>	
Operators DODGE	
Radar Tech Schricker & Jarvi	
Number of digital magnetic tapes on-board $\sim 30$	
Number of tape labels on-board	
Component systems up and checked:	
RDSC DSC1	
Computer DSC2	
DMTR1DMTR2	
LFR/T#101M	
TA R/T#O(	
Time correction between radar time and digital time radar ~ 2 sectast	
Radar Postflight Summary	
Number of digital tapes used DMTR 1	
DMTR 2	
Significant recorder downtime:	
DMTR 1 MONE Radar LF MONE	
DMTR 2Radar TA	
Other problems:	
COMMENT: 1 F run at 1 sweep per 32 ser	/
TA run at MAX vate -	
switched recorded only when)	
(TA stuff there.	

# 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

- 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.

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

- 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.]
  - 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.

every other LF SCAN MIN SEAN every TA selectively MAX SCAN

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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	Check:	list
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Flight ID 870923J
Aircraft # 43RF
Operators Marks / Dodge
Radar TechSchwicker
Number of digital magnetic tapes on-board 725
Number of tape labels on-board 7000
Component systems up and checked:
RDSCDSC1
Computer DSC2
DMTR1 DMTR2
LFR/T#/0/M_
TAR/T#20/
Time correction between radar time and digital time
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_	870923II	AIRCRAH	FT <u>43</u>	c	MARKA SHEET ( O
Tape #	Time On	Time Off	Source I TA	Radar LF	Comments
1-1	1814			~	LF ONLY till we've in stor
					Keeping Sca clutter beg
	,	10:04+1	~		190410 TALL ON
0.1	1010	191897		~	
1-1	1918	2035		~	
2-2	2035	2013	~	~	
an of the		213		ţ,	Stop TA vecon
		2118			576
1-3	2118	12240		~	OK) AT 2257 to reco
2-3	~2240	2323	V		> OFF AT 2324
1-4	2323	000225		~	Tailon
7-4	00358	011520	~	v -	TAILOFF at CO46
	UU SERT				
1-5	01/520	212	V	~	015310 TA on
2-5	212	249	~	-	LAST IMPE LO
		40			
				1	

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HRD RADAR LOG

OPERATOR Dodge/Martles SHEET OF



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

a 4 of 4	HRD	DOPPL	.Eł	K K	ADAR TAPE LOG SEP 2 3 1987
FLIGHT_	870923Z	AIRCRA	FT_	43R	F OPERATOR Marks SHEET / OF /
TAPE NO.	TIME ON	TIME OFF	SO V	H S	COMMENTS**(#pulses,scan rate, range)
1	190430	192230		X	300m 32 sample max vate
		EOT			on he van band Rof center
2	194000	1959		Y.	start on approach to the g
100	/	NOEOT			Center ~ Youm: across in
					Convection on N'side.
					off 25NM west of center
3	200517	201409		×	going downwind.
	Eot	2/3 tap	e		turning N to 5 data on to
4	201855	203635			centa looks like its
		FOT			Slopes NW with Talt.
			-		best of this type since Deble
5	230230	232040	+	)	K tk 340° cold from t band
					2305 tun to 030 29-209
					2309 furn toth o around cel
2					2317/0 turn totk 3280
					0
				340	5
			T	5	12317
			1	11	10

\*Vertical, Horizontal, or Full Sweep Scan

ep Scan 12309

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

C	5	D	0	2	1097
3	Ľ.	٢.	Ñ	J	1201

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HRD RADAR LOG

OPERATOR MARKS

RADAR DOWN-TIME LOG

ITEM	TIME DOWN	TIME UP	PROBLEM
			이는 이상 같은 것이 집에 집했다.

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

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