19950919H1.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 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 on-board LPS or as required for aircraft safety as determined by the AOC 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 AOC 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.

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Doppler Radar Scientist Check List

Flight ID 950919H1

Aircraft # 42

Operators Dodge / Black

Radar Tech. Jim Barr, Tim Roles, Terry Lynch

Number of digital magnetic tapes on board enough

Number of tape labels on board enough

Component systems up and checked:

MARS	✓	Computer	✓
DMTR1	✓	DMTR2	
LF	✓	R/T#	121
TA	✓	R/T#	R 201 T 101

Time correction between radar time and digital time

Radar Postflight Summary

Number of digital tapes used:

DMTR1 (1)

DMTR2 none

Significant down time:

DMTR 1	X	Radar LF	X
DMTR 2	X	Radar TA	X

Other problems:

LF seemed to write ~~more~~ noise samples than one per 15 minutes.

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HRD Radar Down-Time Log

Operator Dodge / Block Sheet ___ of ___

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
none	—	—	—

Item List: DMTR1, DMTR2, COMP, MARS, LF, TA.

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HRD Radar Tape Log

Flight _____ Aircraft 42 Operator Dodge/Black Sheet___ of ___

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
1	135053		135253 F/AST ON (sea-surface
			1642: F/AST OFF
			1723 F/AST ON
			1746 F/AST OFF
			182254 F/AST ON
			1851 F/AST OFF
			1918 F/AST ON
		2051	stopped/~~rewind~~ rewound

1603 LF wedgy