19920924I1.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.

SEP 2 2 1992

Form E-5
Page 1 of 3

Doppler Radar Scientist Check List

Flight ID 920924I1

Aircraft # 43 rf

Operators Leighton P.A.

Radar Tech. Al Goldstein

Number of digital magnetic tapes on board 16 +

Number of tape labels on board enough

Component systems up and checked:

MARS	✓	Computer	✓
DMTR1	✓ of BOT	DMTR2	✓ of BOT
LF	✓	R/T#	S/N 102
TA	✓	R/T#	S/N #201

INE#1

Time correction between radar time and digital time —

Radar Postflight Summary

Number of digital tapes used:

DMTR1 4

DMTR2 4

Significant down time:

DMTR 1	N/A	Radar LF	
DMTR 2	N/A	Radar TA	

Other problems:

1626 Adjusted tail for RA Height

SEP 2 4 1992
Pal

Form E-5
Page 2 of 3

HRD Radar Tape Log

Flight 920924I1 Aircraft 43RF Operator Leighton Sheet 1 of ___

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
~~1-1~~	~~161230~~		Starts w/ Painting Coast etc. FAST on
1-1	1626??	my mistake	Reset to adjust tail height wrote on
~~2-1~~	Guess at time	173400?	Still have Sea Surface
2-1	1734??		Missed tape change Sea Surface
	182440	1824??	Switched to Cont.
1-2	1824??		Missed tape change
		1850	Switched to fast w/15° tilt (see down)
		190515	
2-2	190515		
		192415	Switched to Continuous
		193630	
1-3	193630		
		195250	Switched to fast
		202250	Switched to Cont
~~2-3~~		202426	
2-3	202426		
		205030	Switched to fast
		205450	
1-4	205450		
		205950	Switched to Cont
		212530	
2-4	212530	~~2126~~	
		212600	Switched to fast
		215300	Turned off about ½ tape Nothing Really there

Margin notes: "Missed Start time" (beside 1-2); "when started with still" (beside Still have Sea Surface); "for Ferry Home" (beside last rows).

SEP 2 2 1992

Form E-5
Page 3 of 3

HRD Radar Down-Time Log

Operator Leighton Sheet 1 of ___

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem

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