

990914 ~~IBH~~ Floyd
19990914 IL RADAR 3

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

- MB 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- MB 2. Confirm mission and pattern selection from the on-board LPS.
- MB 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.

Doppler Radar Scientist Check List

Flight ID 990914 ~~AI~~
Aircraft # 43
Operators M. Black / F. Marks
Radar Tech. Richard McNameary / Jorge

Number of digital magnetic tapes on board ~10
Number of tape labels on board None

Component systems up and checked:

MARS	<input checked="" type="checkbox"/> <u>Venus</u>	Computer	<u>HAL 9000</u>
DMTR1	<input checked="" type="checkbox"/> _____	DMTR2	_____
LF	<u>Low dBZ (~12)</u>	R/T#	_____ ?
TA	<u>Low dBZ</u>	R/T#	_____ ?

Time correction between radar time and digital time 0

Radar Postflight Summary

Number of digital tapes used: DMTR1 _____
DMTR2 _____

Significant down time:

DMTR 1 _____ Radar LF _____
DMTR 2 _____ Radar TA _____

Other problems:

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HRD Radar Down-Time Log

Operator M. Black / F. Marts Sheet 1 of 1

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
Tail	185000		Tail reflectivity too low
Tail	1905		no reflectivity
Radar System	19100		- system frozen
Tail	193000		
LF		193100	LF up but low reflectivity
		1934	start leg North-to eye
		1942	eye
		1956	turn to WE downward
		2013	Turn to West
	Tail up	2028	1935-1945 LF emp
		2029	eye
		2040	turn to south
		2047	Fast
		2110	FAST
			ID 34 - LF comp 2026-2028
			LF comp 3 2029 ID 043

1 ID 21

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

0145 Radar System Down
 0149 Radar up - low reflectivity
 0235 - radar for MWR radar
 0300Z - end radar FAST

Floyd SYN flow (King 4)

HRD Radar Tape Log

Flight 990914I Aircraft 4.3 Operator M. Black Sheet of
Fi marks

Tape #	Time On (HHMMSS)	Time Off (HHMMSS)	Comments
1	1846		leaving coast to Floyd
2			see back page
3			
4			
		0306	Stopped radar
		0322	landed

Needs
times
in
table