

Kohler/Moritz

H G. / Bart

N43RF

A88091512-RADAR

SEP 15 1988

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 Operate the system(s) as specified in the operator's manual and as directed by the HRD/RS unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO/Flight Director or Aircraft Commander.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

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Radar Scientist Checklist

Flight ID 8809815 IZ
Aircraft # 143 RF
Operators Kohler / Marks
Radar Tech Du Grouart

Number of digital magnetic tapes on-board enough

Number of tape labels on-board 10 + 6

Component systems up and checked:

RDSC ✓

DSC1 ✓

Computer ✓

DSC2 ✓

DMTR1 ✓

DMTR2 ✓

LF ✓

R/T# 101M

TA ✓

R/T# Terry's New Boy

Time correction between radar time and digital time _____

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 ✓ see log

Other problems:

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OPERATOR Kohler/Marks

SHEET 1 OF 1

HRD RADAR LOG

RADAR DOWN-TIME LOG

ITEM	TIME DOWN	TIME UP	PROBLEM
Tail Radar	B. O. F.	well before 0	required analysis & solder job by Du. G. (loose cable)
Tape drive 2	0250	0253	rewrite errors (reading/writing)
tail radar	0435	0455	J. Du. G. rebooted
" "	0511	0513	" "
" "	0516	0516	" "

ITEM LIST: VTR, DMTR1, DMTR2, COMP, ROSC, LF, NO, TA, DSC1, DSC2

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88 091512

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Kohler / Marks

Began recording at 2302 (42?)

radome was up - dropped at 2356!!

The eye is nicely visible

0010 began descent to 500 - eyewall
50 ~~100~~ miles away

headray SE 01:01:45

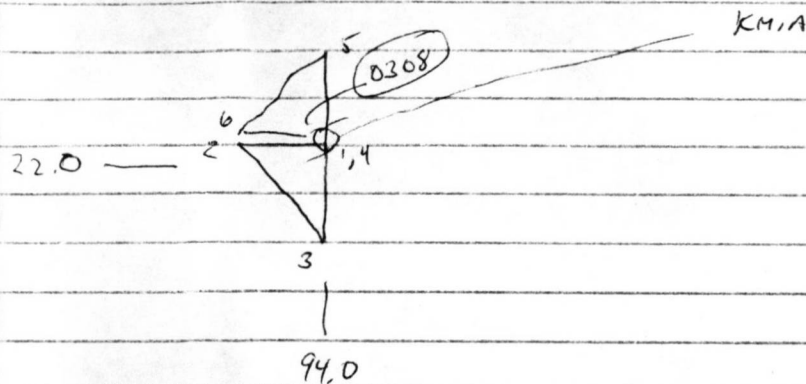
Tail radar - J. Duh. replaced a cable,
but it still is getting fuzzy every so often.
But when it works, the doppler in this
rain band (01:21) is beautiful!

0127 - turn to 360° - fog & back in

022150 NEW VCR tape

Cold one ran out at some point
(noticed)

slowing down - to 9 mph



0250 reading / writing flashing on / phase 2 /
[KOT] [BOT] lights are off / tape #3 /
at 3 markers into tape (20%)

0253 [KOT] [BOT] flushed back on
2 markers now show (20%)

0301 Zoom on doppler

0426 Switch thru channels 13-15
nice rain band 50 dbz ramp fall
0418 113 knots wind

0435 Tail radar out
CHECK on D1

0455 reboot tail - still getting check

0511 - penetrating eye - lost tail

0513 reboot tail

0516 lost tail again & back