

RADAR PREFLIGHT CHECKLIST

FLIGHT # 19810907 HI-RADAR

A.C. # 42 RF

OPERATOR Marks/LORD

RADAR TECH Burlis

NUMBER OF DIGITAL MAGNETIC TAPES ONBOARD 40

NUMBER OF VIDEO TAPES ONBOARD 4

NUMBER OF TAPE LABELS ON BOARD > 10<sup>6</sup>

COMPONENT SYSTEMS UP AND CHECKED.

RDSC ✓  
COMPUTER ✓  
DMTR1 ✓  
DMTR2 ✓

VTR ✓  
DSC1 ✓  
DSC2 ✓  
SCOPES ✓

NO ✓  
LF ✓  
TA ✓

Time correction between radar time and digital time \_\_\_\_\_

RADAR POSTFLIGHT SUMMARY

NUMBER OF DIGITAL TAPES USED DMTR 1 6  
DMTR 2 5

NUMBER OF VIDEO Cassetts TAPES USED 2

SIGNIFICANT RECORDER DOWN TIME (other than for tape changes).

DMTR: LF \_\_\_\_\_  
NO \_\_\_\_\_  
TA 160940-1614 down when RDSC in playback mode.

~~VTR: LF \_\_\_\_\_  
NO \_\_\_\_\_  
TA \_\_\_\_\_~~

OTHER PROBLEMS: (stabilization, interference, etc.)

problem with nose when pilot was  
having trouble,

81090741  
Floyd

1981090741-RADAR (1)

120000

Scan thru channels on VTR  
Heading  $90^\circ$ , Wind  $305^\circ @ 5.6$   
m sec<sup>-1</sup> @ 1500 m. Some overcast  
and shallow clouds below

121000

Approaching outer rainband  
wind 16 m sec<sup>-1</sup> from due north.

122100

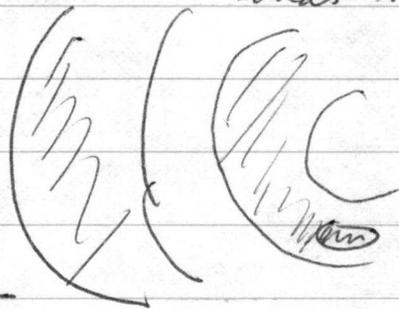
Switched DSC 2 to Tail  
eye 40 n.mi. to ENE.  
In rainband now

123200 VTR counter @ 584. Scan thru VTR  
channels

Stz. Pres 979, winds 29  
m sec @  $217^\circ$ , 1500 m  
altitude

1250

Nice bands to north

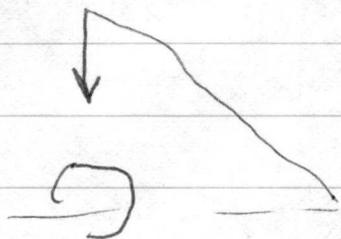


Scan thru  
VTR channel

131000

Heading South towards eye

(2)



1330

Scan thru VTR channels  
VTR at 999.

1340

North back to eye.

Band to SW of eye looks  
good - very black with blue  
shy to the west.

1403

Scan thru VTR @ 1233

1426

Tail Radar down

1432

Scan thru VTR @ 1420.

1458

Scan thru VTR @ 1567.

1510

end of S run at 2400m

1516

end of 2800M run N

1520-1525

loitering north of eye trying  
to repair pilot radar scope

(3)

1528 Step thru VCR @ 1730  
153130 Stop VCR 1  
1535 Step thru VCR 2 @ 005  
during stairsteps we got interference  
from 43RF on the NO and TA  
radars.

1555 S at 5000' RA  
1600 N at 5000' great bump!!

1607 Van thru VCR @ 429

1607 Sat 2000'  
1615 N at 2000'

162500 Sat 500'

1631 turn to N nose vadar out

Nose radar worked fine at pilot we have  
at radars cons. when we had control. didn't if pilot control

1646 Sat 2000'

Convection is getting better looking  
in the ramband we were flying.

1643 Switch thru VCR @ 757

1656 turn to S climb to 5000'

④

data system display down 170000

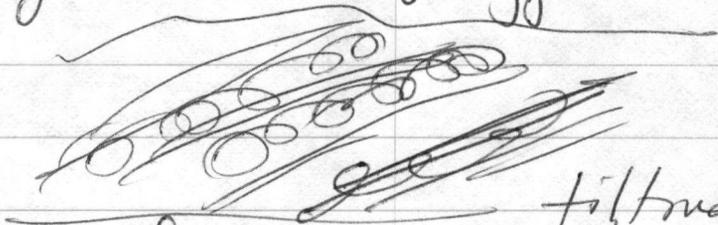
Nose and LF don't appear to be agreeing that well on this penetration.

have to check tail to see which is right. LF has few level 3's nose has few level 5's

diameter ~~20-25~~ mi as opposed to 25-30

much more symmetric first pass stronger convection. 970

eye clear below closed on top eyewall kind of ragged



south side closed in just tilting convection

up  $19 \text{ m s}^{-1}$  down  $-11 \text{ m s}^{-1}$

in west eyewall  $\sim 70 \text{ m s}^{-1}$  tangential

LF tape ran out.

~~28 69.13~~ 29.11N, 68.09 W

1720 step thru VCR @ 1053 west of  
has last 2 penetrations on it eye.

1730 leave pattern head for home.  
it's CAMEL TIME

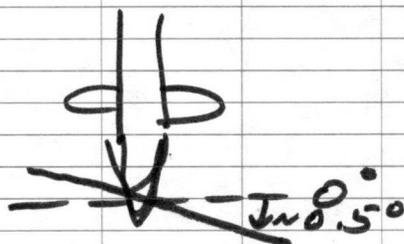
1745 run thru VCR @ 1226

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takeoff 1004Z

doppler testing on Ferry. tape drive not working to well. checked antenna Alignment

appear we get slightly positive velocities of ground on starboard side and slightly negative on the port. ∴ tail antenna is



1152 RAS001 start first east-west run eye about 160 km east of us.

115330 Now has LF playing with Nav. radar.

115940 LF back

1203 Now has LF again.

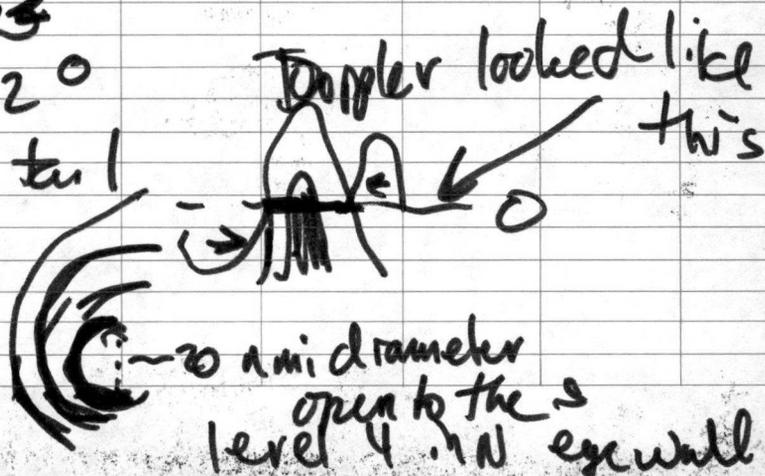
pitch  $\sim 2.0 \pm 0.3$

tilt  $\sim 3.1 \text{ } 3.2^\circ$

Switch DSC2 to tail

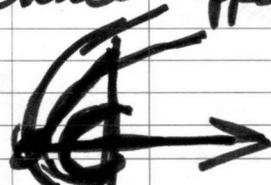
1234Z #504 VTR

28.33N 68.33W



Floyd 81090741

good tangential and radial tilts,  
nice stratiform precip. outside eyewall  
south side very weak - NE eyewall appears  
to tilt inward at the top.  
3 rainbands to the east.



— started doppler tape 130830 132 PRT

North of eyewall turning S through <sup>300 m gates</sup> eye.

132000 doppler tape ran out before  
we went through the eye wall.

eye overcast can't see sea surface  
either.

1413 1000' RA North rainband.  
300 m Secondary wind max

1418 500' RA South through rainband.  
150 m

1426 TA tape ran out.