

RADAR PREFLIGHT CHECKLIST

SEP 11 1981

FLIGHT # 810911H2

A.C. # N42RF

OPERATOR GRIFFIN / MARKS

RADAR TECH AL GOLDSTEIN

NUMBER OF DIGITAL MAGNETIC TAPES ONBOARD ~~29~~ 29

NUMBER OF VIDEO TAPES ONBOARD 4

NUMBER OF TAPE LABELS ON BOARD ✓

COMPONENT SYSTEMS UP AND CHECKED.

RDSC ✓  
COMPUTER ✓  
DMTR1 ✓  
DMTR2 ✓

VTR ✓  
DSC1 ✓  
DSC2 ✓  
SCOPES ✓

NO ✓  
LF ✓  
TA ✓

Time correction between radar time and digital time +1 sec

RADAR POSTFLIGHT SUMMARY

NUMBER OF DIGITAL TAPES USED DMTR 1 4  
DMTR 2 4

NUMBER OF VIDEO TAPES USED 2

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

DMTR: LF none  
NO ..  
TA ..

VTR: LF none  
NO ..  
TA ..

OTHER PROBLEMS: (stabilization, interference, etc.)



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MARKS

## NHEML RADAR LOG

SHEET 1 OF     

## RADAR DOWN-TIME LOG

<u>ITEM</u>	<u>TIME DOWN</u>	<u>TIME UP</u>	<u>PROBLEM</u>
			<p><u>6at wings</u> evident at 5000' 1500 m ~ 35 degrees either side of the tail <u>azimuth.</u></p> <p>doppler problem appears to be pulse pair processor</p> <p>still appears that the LF reads ~ 2.0° higher than its pointing</p> <p>I'm not sure where the slope is probably recorded on the tape 2.0° higher than it should be.</p> <p>1087 VCR cycle</p> <p>VCR 2-8857 0504</p>

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

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GERT

9/11/81

1428: Began VCR1 and flipped thru channels.

There was some debate about <sup>DSC</sup> toggle switch settings since they are different from Harlan's. I double-checked.

1500: Scn thru VCR @ 440

1508: Entry to NW band. Sfc. wind looks very strong 80 knots approx. Moderate turbulence. Downdrafts to  $-4 \text{ m sec}^{-1}$ . Wind at 5000 ft is 330 at ~~30~~ <sup>16 m sec<sup>-1</sup></sup> knots inside band.

Bands surrounding eye - closed eye on radar, but relatively weak to south.

1512 Turn to  $65^\circ$ . Large band to E and SE at 55-60 nm.

1530 Scn. thru VCR @ 700

Storm moving at about 21 knots; fast.

1535 Exit from band on ~~NE~~ NE side. Turn west for North E/W leg down rainband.

1554 Turn back to center (2).

1600 Scn thru VCR @ 948

Entering north band. Very little turbulence

1612 Entering eye region, overcast but scattered cloud below. Winds 30 m sec from 225° sea below is rough.

1631 Turn to 030 heading. Scan thru VTR @ 1180

1649 Moderate turbulence, + 4 m sec<sup>-1</sup> peak, -4 m sec<sup>-1</sup> peak downdraft. Heading 270 for pass to center. Strong vert. shear on east side. Sfc winds 35 knot.

1700 Scan thru VTR @ 1354  
min. Sfc. pressure 990 mb

1711 West side story:  
+8 m sec<sup>-1</sup>, -11 m sec<sup>-1</sup>,  
a couple of bumps.  
wind center tucked up  
against NW ~~is~~ convective wall.

flight level winds  
about 50 knots.  
Clear below

Possible ~~a~~ large ~~a~~ vert. shear here too  
35 knots at flight level, looks stronger at sfc

1730 Heading Track 130 to point 4.  
Scan thru VCR @ 1540

1750 Turn to 30° Back to Center

1802 Scan Thru VCR @ 1700.

1809 very heavy rain <sup>in</sup> ~~on~~ NE band  
2-3 m sec<sup>-1</sup> updrafts

1823 Changed to VCR #2  
Some nice updrafts to +11 m sec

1825 Change to West at #5.

1831 Scan thru channels @ 136

1840 Turn to 150° toward center.

1858. Penetrating north eyewall +12.11 sec<sup>-1</sup>  
max. vert. vel.

1900 Scan thru VCR @ 465.  
min SLP = 988

1930 Turn to 030  
Scan thru VCR @ 756

1950 TURN to 270 for F/W penetration

2000 Scan thru VCR @ 995.

2016 Hit eye center. Min SSP = 988 mb

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GERT



Go thru VCR1 at 003800 @659

good tilt of stabform rainbands  
north of eye wall

Go thru VCR1 at 013100 @1087



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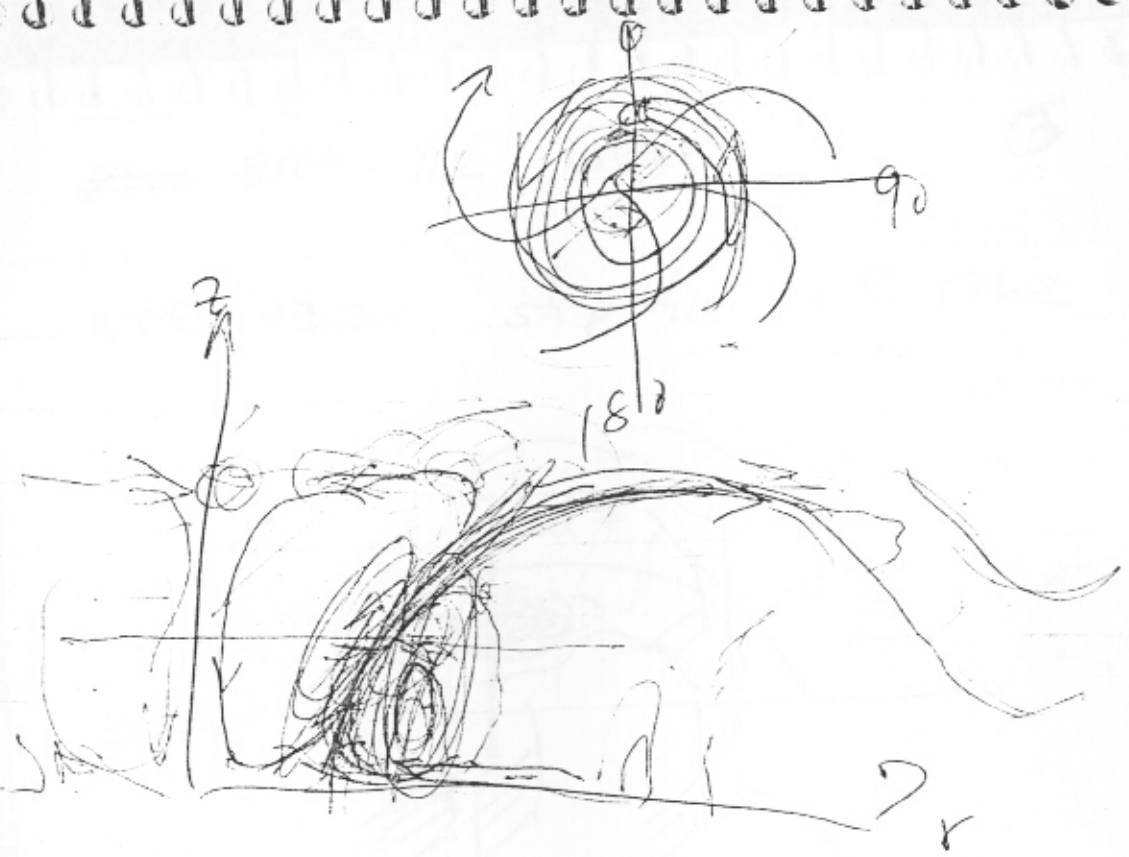
GERT

(2)

01:56 step thru VCR @1259



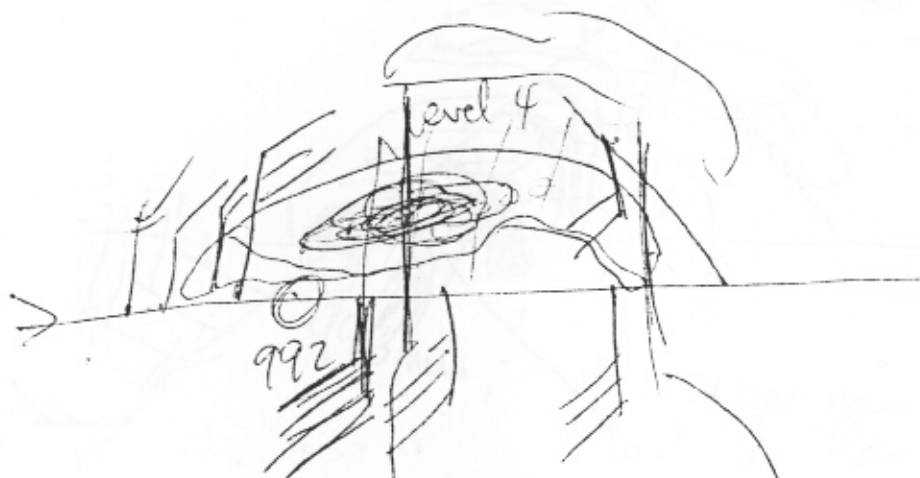




~~810~~ 810911 H2 GERT

(3)

VCR1 03:21 step thru @ 1762

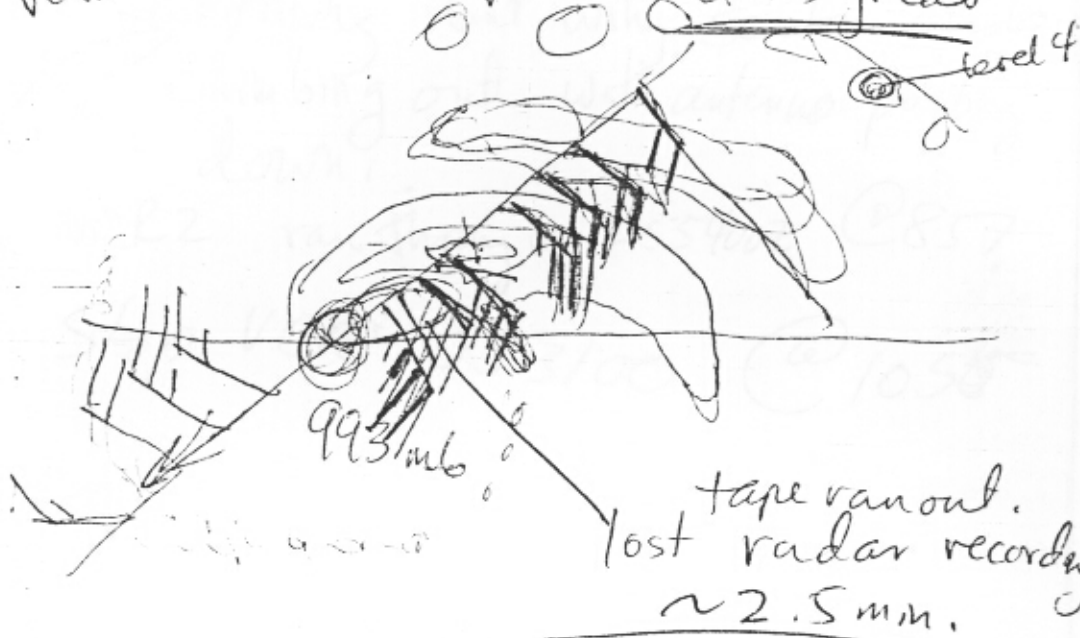


Great tail data VCR1 @ 1800 → 1862  
VCR1 0340 step thru. @ 1862  
VCR2 0344 step thru @ 0002



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near beginning of VCR2 to see intercomparison looks great



VCR2 go thru ~~plots~~ 041600Z @ 426

0500Z  
Club out  
and go  
home



on VCR2 @ 854

good watch in sea clutter  
from LF radar

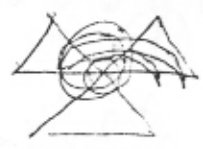
defining but wing sector whole  
churning out with antenna pointing  
down.

VCR2 ran through, 055400Z @ 857

Stop VCR 053100 @ 1050

81 0911 Hz

GERT



Good Tail profiles of convective  
rainband N of ~~the~~ Center

VCR1	1st pass	<sup>TA not on VCR</sup> W → E	Tape <sup>beginning</sup> 1-1	0018 - 0028
	2nd pass	NE-SW	end 2-1	0115 - 0125
	3rd pass	SE-NW	end 2-2	0230 - 0240
	4th pass	W → E	<sup>beginning</sup> 2-3	0332 - 0345
VCR1 VCR2	5th pass	<sup>TA not on VCR</sup> NE-SW	end 1-4	<del>0400 - 0400</del>
	6th pass	SE - Center	end 2-4	<del>0518 - 0528</del> 0453 - 0503

Go thru VCR at 003300

stop at station

work

at 03100

