

RADAR PREFLIGHT CHECKLIST

SEP 11 1981

FLIGHT 19810911H2 - RADARA.C. # N42RFOPERATOR GRIFFIN / MARKSRADAR TECH AL GOLDSTEINNUMBER OF DIGITAL MAGNETIC TAPES ONBOARD ~~27~~ 29NUMBER OF VIDEO TAPES ONBOARD 4NUMBER 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 secRADAR POSTFLIGHT SUMMARY

NUMBER OF DIGITAL TAPES USED

DMTR 1 4
DMTR 2 4NUMBER 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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SHEET 1 OF 1

[illegible]

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GRIFFIN

OPERATOR MARKS

NHEML RADAR LOG

SHEET 1 OF

RADAR DOWN-TIME LOG

ITEM	TIME DOWN	TIME UP	PROBLEM
			<u>6at wings</u> evident at 5000' 1500 m <u>~ 35 degrees either side of the tail</u> <u>azimuth.</u> doppler problem appears to be pulse pair processor still appears that the LF reads ~ 2.0' higher than its pointing I'm not sure where the stop is probably recorded on the tape 2.0' higher than it should be. 1087 VCR cycle VCR 2-0857 0504

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 ^{DSC} 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 m sec⁻¹. Wind at 5000 ft is 330 at ~~30~~ ¹⁶ m sec⁻¹ inside band.

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

1512 Turn to 65° . 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 by down rainband.

1554 Turn back to center (2).

1600 Scn thru VCR @ 948

Entering north band. Very light 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⁻¹ peak, - 4 m sec⁻¹ 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⁻¹, - 11 m sec⁻¹,
a couple of bumps.
wind center tucked up
against NW convective wall.

flight level winds
about 50 knots.
Clear below

Possible large 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 ⁱⁿ ~~on~~ NE band
2-3 m sec⁻¹ 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!
max out. vel.

1900 Scan thru VCR @ 465.
min SLP = 988

1930 Turn to 030
Scan thru VCR @ 756

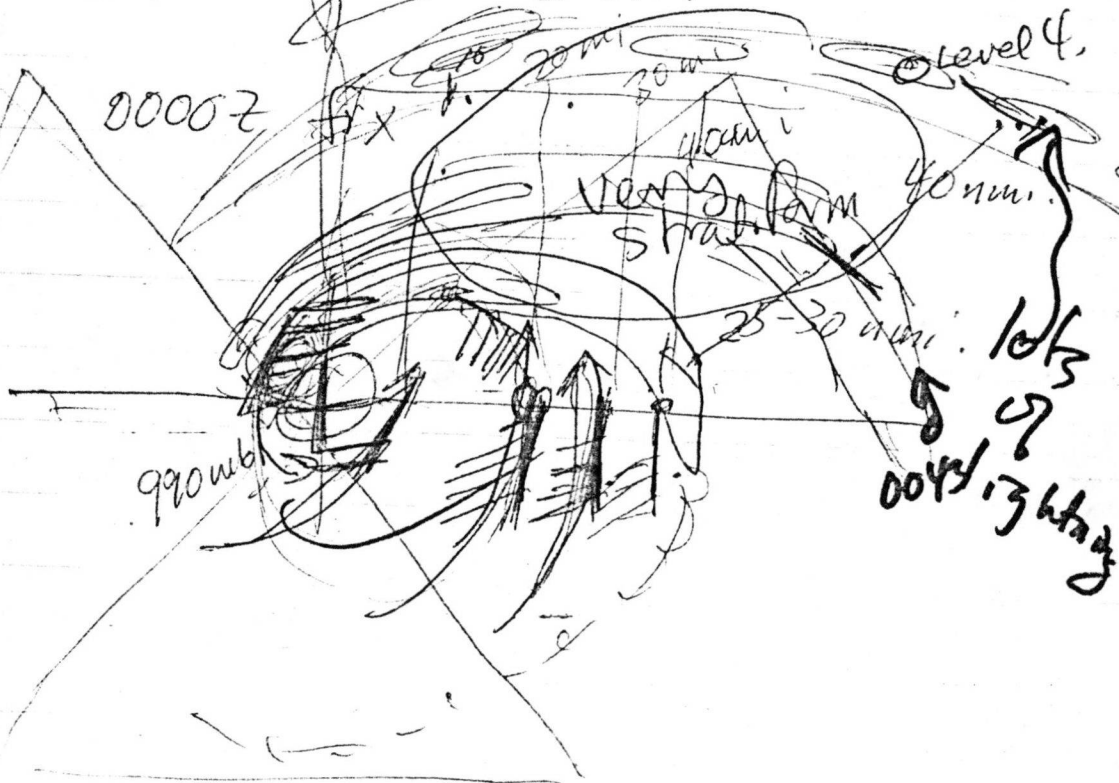
1950 TURN to 270 for E/W penetration

2000 Scan thru VCR @ 995.

2016 Hit eye center. Min SSP = 988 mb

81091142

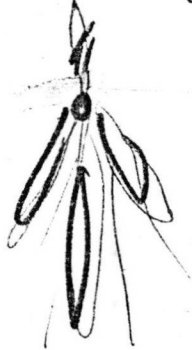
GERT



Go thru VCR1 at 003800 @659

good tilt of statiform rainbands
north of eye wall

Go thru VCR1 at 013700 @1087

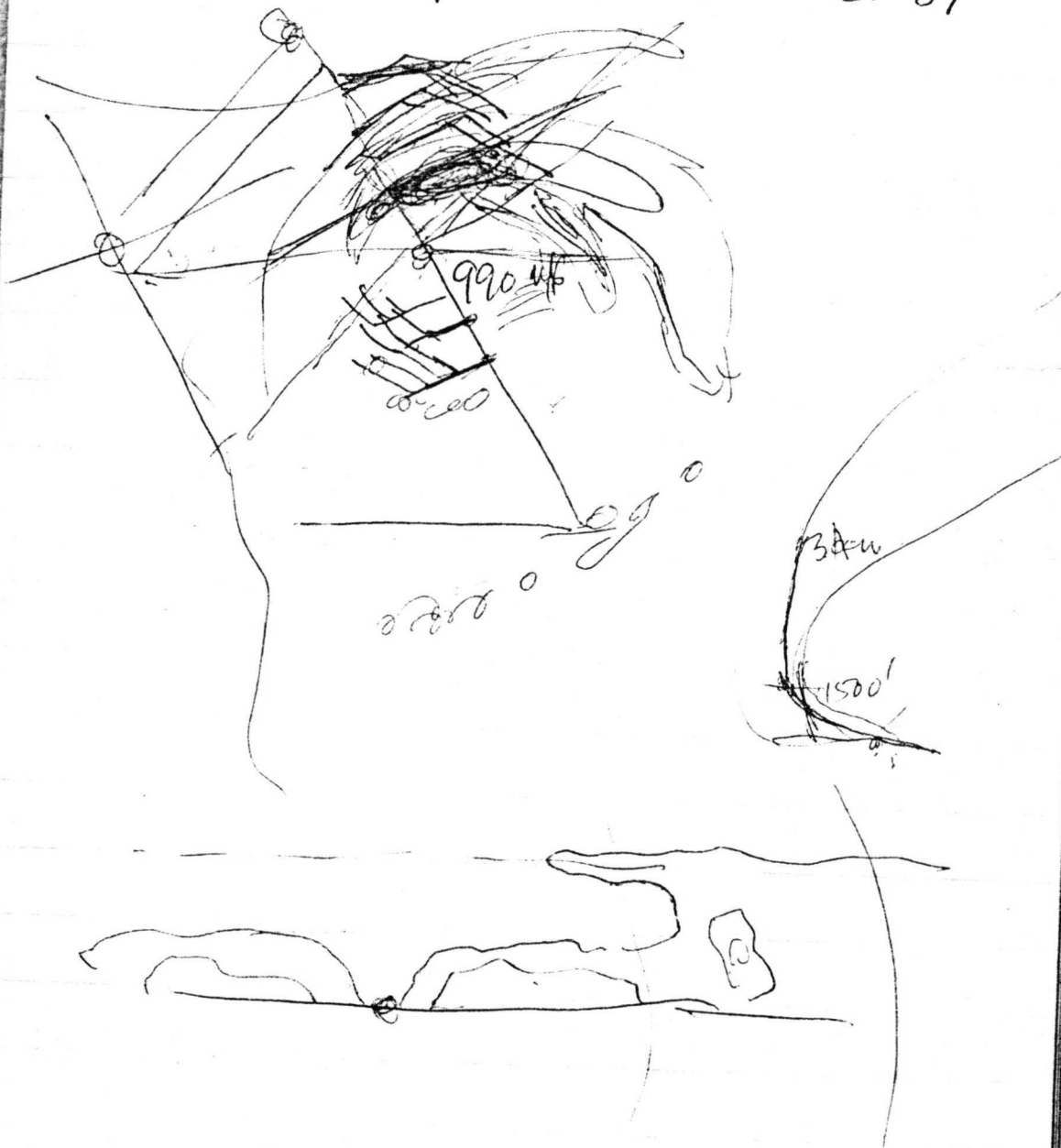


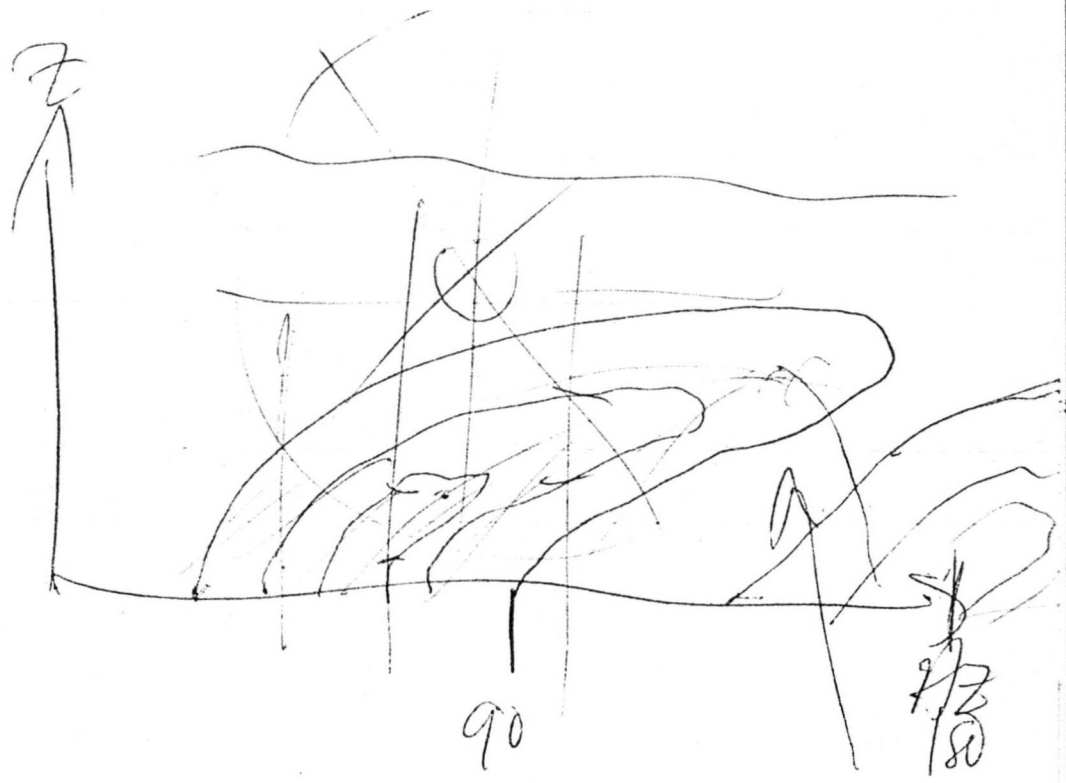
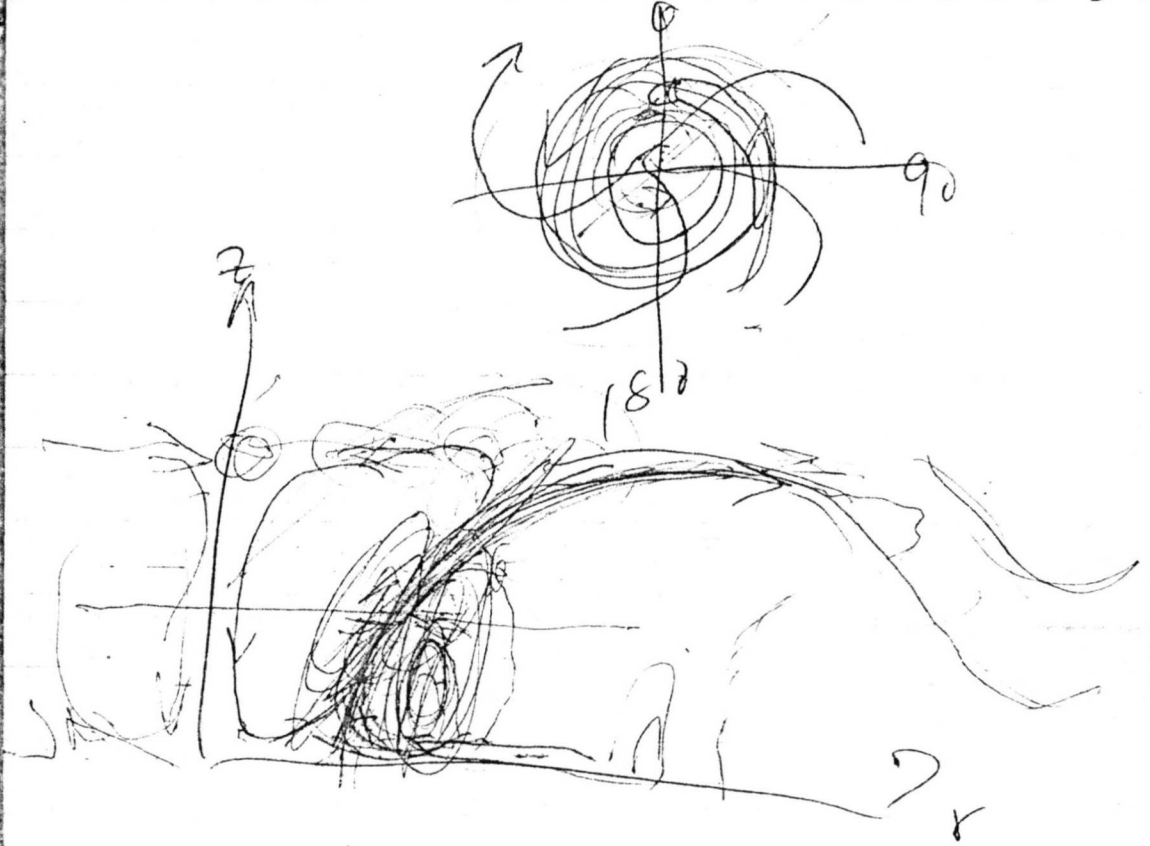
810911H2

GERT

②

01:56 step thru VCR C1259



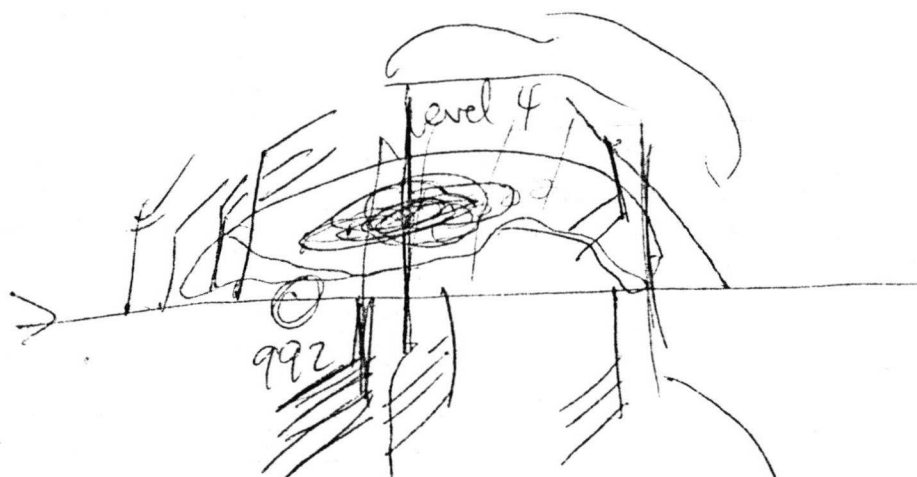


~~8110~~ 810911 H2 GERT

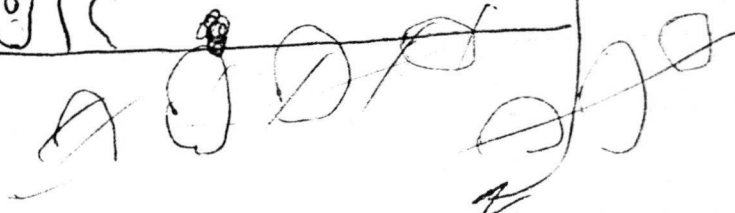
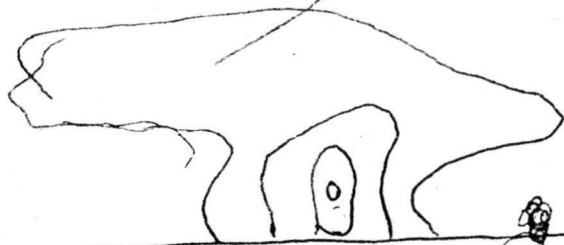
③

VCR1 03:21 step thru

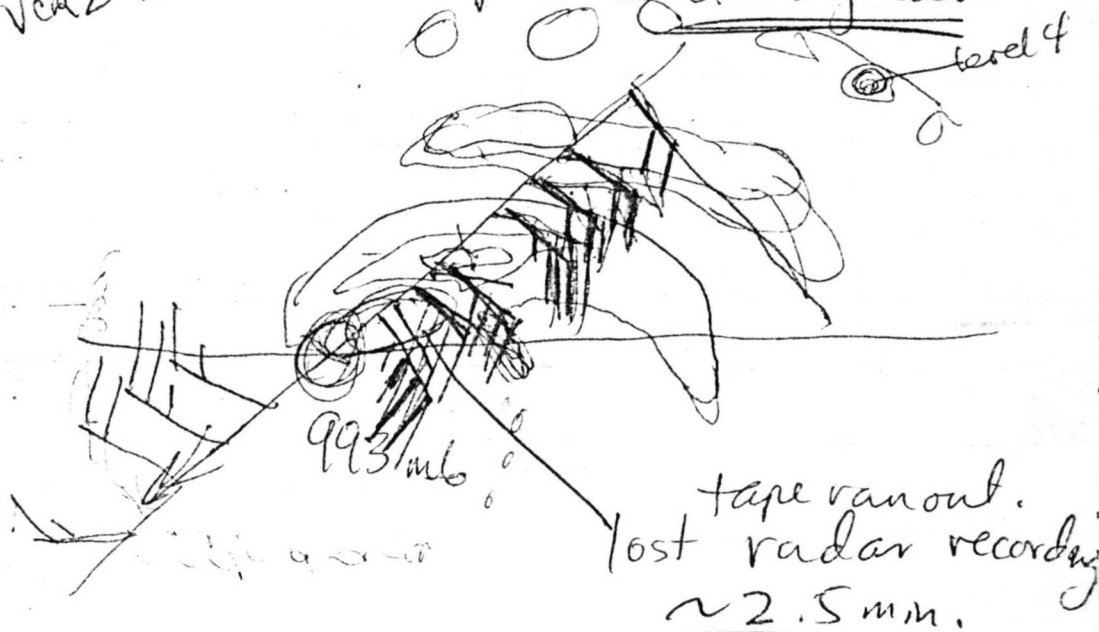
@ 1762



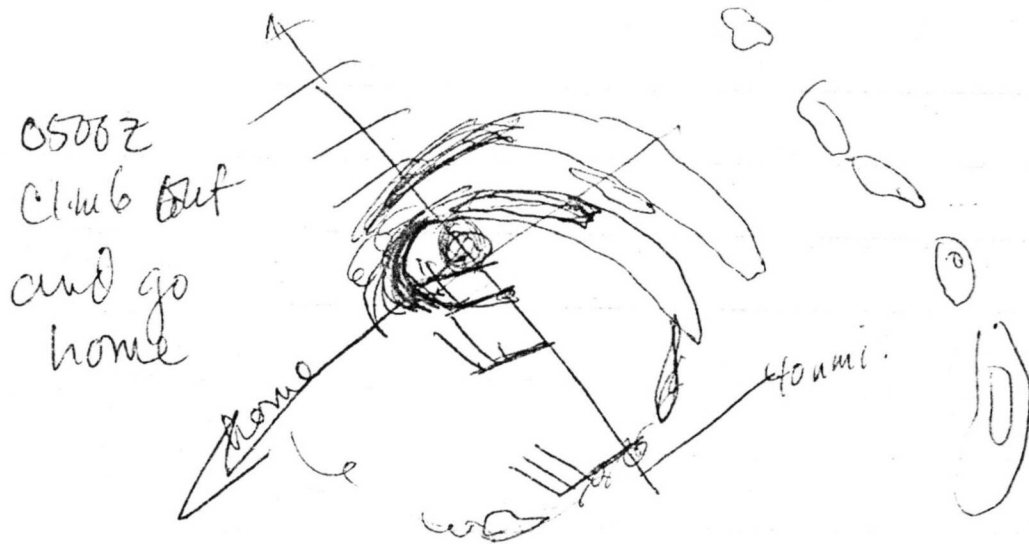
great tail data VCR1 @ 1800 → 1862
VCR1 0340 step thru. @ 1862
VCR2 0344 step thru @ 0002



810911H2 GERT (4)
near 035250 VCR2 @ 0132 switch from NO to LF
beginning of VCR2 to see intercomparison looks great



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



on VCR2 @ 854

good watch in sea clutter

from LF radar

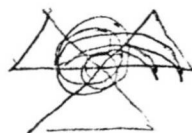
Defining but wing sector whole
chubing out with antenna pointing
down.

VCR2 ran through 055400Z @ 857

Stop VCR 053100 @ 1058

8/0911 HZ

GERT



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

VCR1	1st pass	^{TA not on VCR} W → E	Tape ^{beginning} 1-1	0018-0028
	2nd pass	NE-SW	end 2-1	0115-0125
	3rd pass	SE-NW	end 2-2	0230-0240
VCR1 VCR2	4th pass	W → E	^{beginning} 2-3	0332-0345
	5th pass	^{TA not on VCR} NE-SW	end 1-4	0400-0407
	6th pass	SE - Center	end 2-4	0518-0528 0453-0503

tape ran out