

RADAR PREFLIGHT CHECKLIST19820914I - RADARFLIGHT # 820914I (DEB34)A.C. # 43OPERATOR PARASH / MARKS

SEP 14 1982

RADAR TECH SCHRICKENUMBER OF DIGITAL MAGNETIC TAPES ONBOARD 20NUMBER OF VIDEO TAPES ONBOARD 4NUMBER OF TAPE LABELS ON BOARD LOTS

COMPONENT SYSTEMS UP AND CHECKED.

RDSC ✓
 COMPUTER ✓
 DMTR1 ✓
 DMTR2 ✓

VTR ✓
 DSC1 ✓
 DSC2 ✓
 SCOPES ✓

NO ✓
 LF ✓
 TA ✓

Time correction between radar time and digital time +1.5 sRADAR POSTFLIGHT SUMMARY

NUMBER OF DIGITAL TAPES USED DMTR 1 4
 DMTR 2 8

NUMBER OF VIDEO TAPES USED 2

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

DMTR: LF X
 NO X
 TA last 6 minutes because of Azimuth motor failure

VTR: LF X
 NO X
 TA X

OTHER PROBLEMS: (stabilization, interference, etc.)

at 004130z the tail azimuth ^{motor} quit.
 shut it down at 0046

SHEET 1 OF

SEP 14 1982

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

NHRL DOPPLER RADAR TAPE LOG

OPERATOR MARKS/PAGE 84 SHEET 1 OF 1

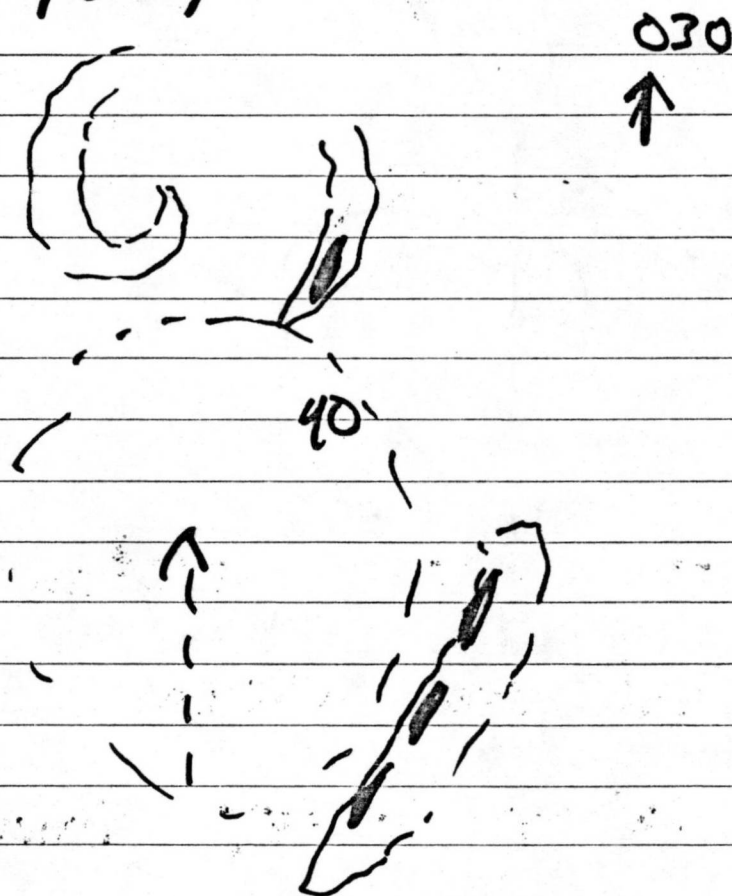
TAPE #	TIME ON	TIME OFF	SOURCE			#	COUNT	COMMENTS
			V	H	S			
1	194310	200205			X	32	MAX	300m gates S- ^{going} eye
2	200500	202230			X			
3	202339	204440			X			
4	205150	210647			X			
5	210937	212850			X			
6	213457	215200			X			
7	215550	221550			X			
8	221847	223600			X			
9	225955	231800			X			
10	233250	234540			X			
11	234935	000325			X			
12	000637	002500			X			
13	002800	003730			X			STOPPED TAPE IN EYE
13	004120	? 0044			X			RESTARTED AS WE APPROACH S. EYE WALL

020914Z T.S. Debby

3 DDW drops before storm / Doppler - PBL exp
T.O. 1727 Z No fixs / Research

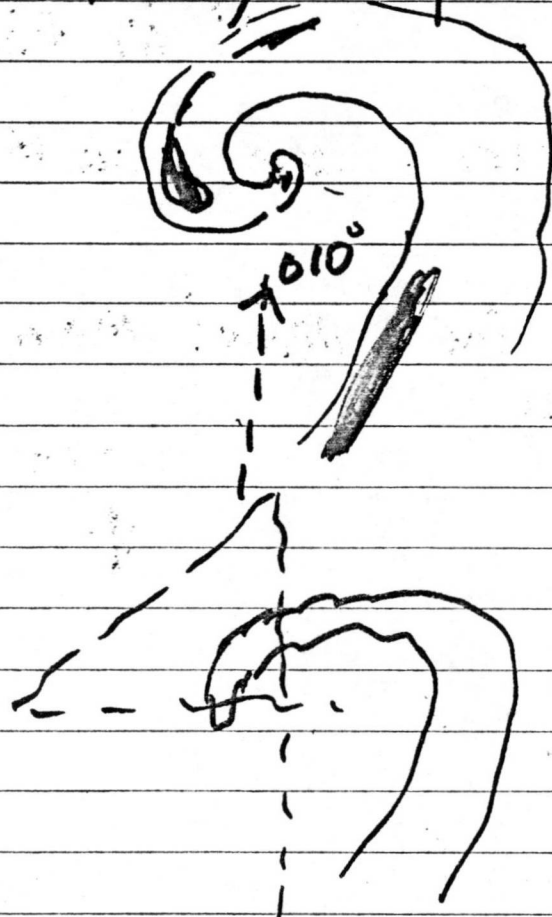
Finished both sondes - omega on H1 and H2
looked bad

192845 - Trk 36° for opponent radar center
wnds 263/8 m/s



194310

~~1942~~ - Starting Dop recording



1955 24.18 71.18 990^{mb} Carter

End of North run 200430

End of SW run 202047 turning W

Center 204050 25.05 71.12

Eyewall looks ragged band SE cellular

TRK 196 204100

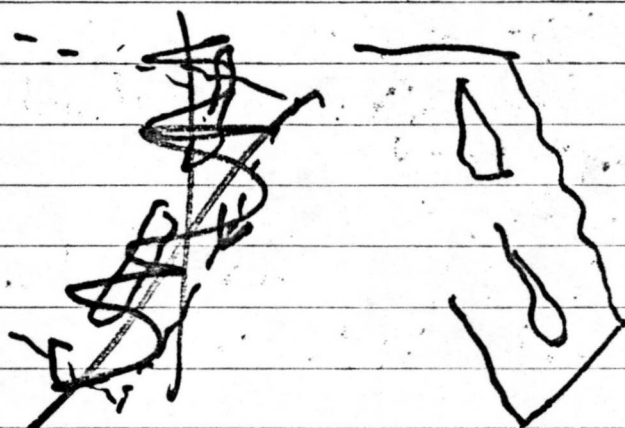
2044 TRK 90

looks like ~50 knots 2fc wind 60 at fl.

205125 trk 90° across band

End 205340

205420 trk 160° 23.4°/22.2 T/Td



End 205921 turning 250°

st 210000

End 210200 turning 340°

st 210230

End 210644 climb to 5 kft

st 90° leg 210930

line very broken and cellular

End leg 211325 turning 90° begin starstep

leg 21400 start trk 179

End leg 211540 descend to 2500

2500 ft 211730

End 211905

Descending to 1200 ft
start 212020 1200 ft leg

only level 3

End 212210

turning 30° right to parallel band

Start 500 ft run 212400

End 212600 descending to 200 ft

good cells leaning outward with height
to right

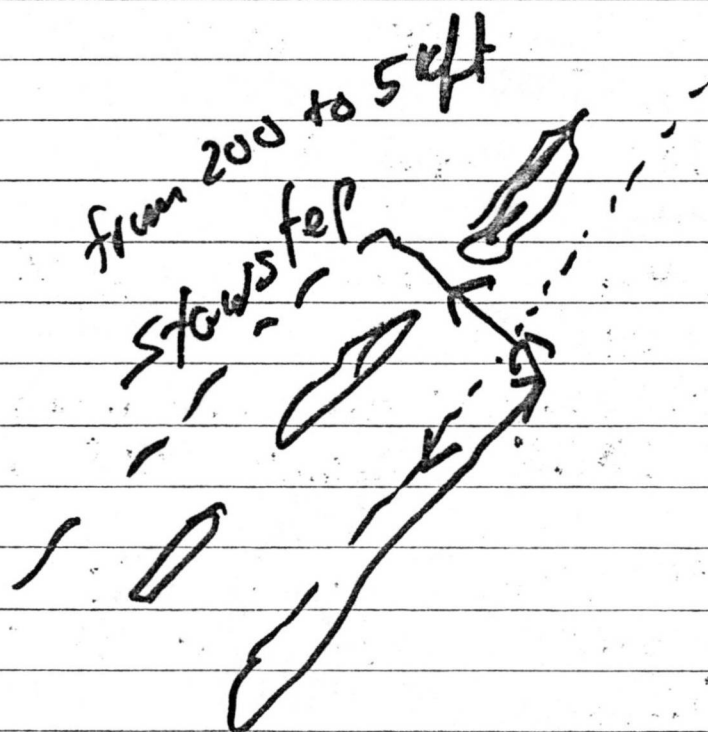
End leg 212920 climb to 500 ft

turn 180°

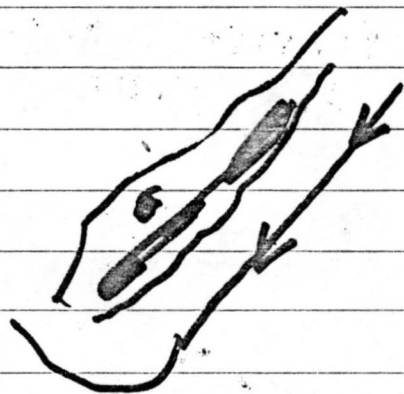
TRK 28.10 213120

End 213503 turn 70° to left

TRK 30' 213600



End 214000 descend to 200 ft.
 Start 214100 at 500 ft might be good
 descend to 200 ft 214250 dual here
 Start 200 ft run 214310
 End 214445 climb to 500 ft
 Start 214510
 End 214655 climb to 1200 ft
 Start 214730 at 1200 ft
 End 214912 climb to 2500 ft
 Start 215030
 End 215220 climb to 5000 ft
 St 215345
 band left ~ 20 miles
 some lut 3
 good linear band
 Start 5000 run 200010 +k 221°



End 220535 turn 90° to left

Good dual

start run 220630 trk 127°

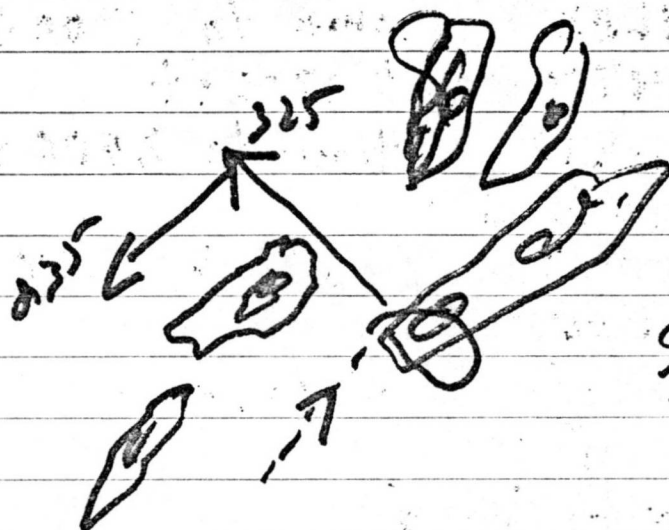
End 221010 turn 90° left

start 221103 trk 34°

End 221550 End descend to 1500

for another box - 270 to right

start 221850 trk 325°



good shears
tilt & outward

End 222130 turning 90° left

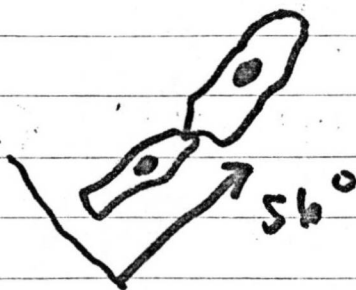
start 222235 trk 235°

End 222604 turning 90° left

start 222730 trk 144°

End 223053

start 223210 trk 56.5

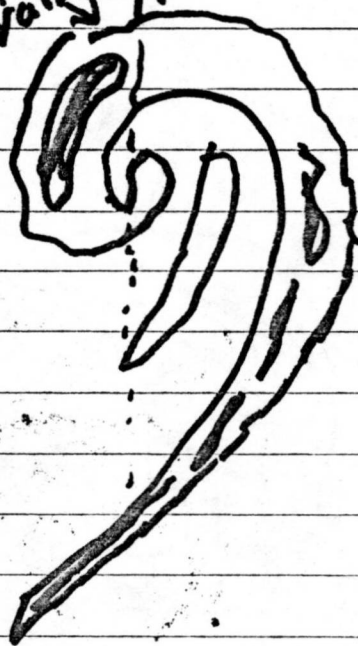


End of leg 223600

start form
rainy A

going back
to Eye

N
↑

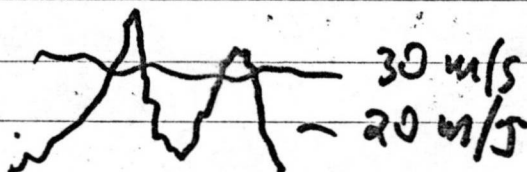


data system down 2300 up 2302

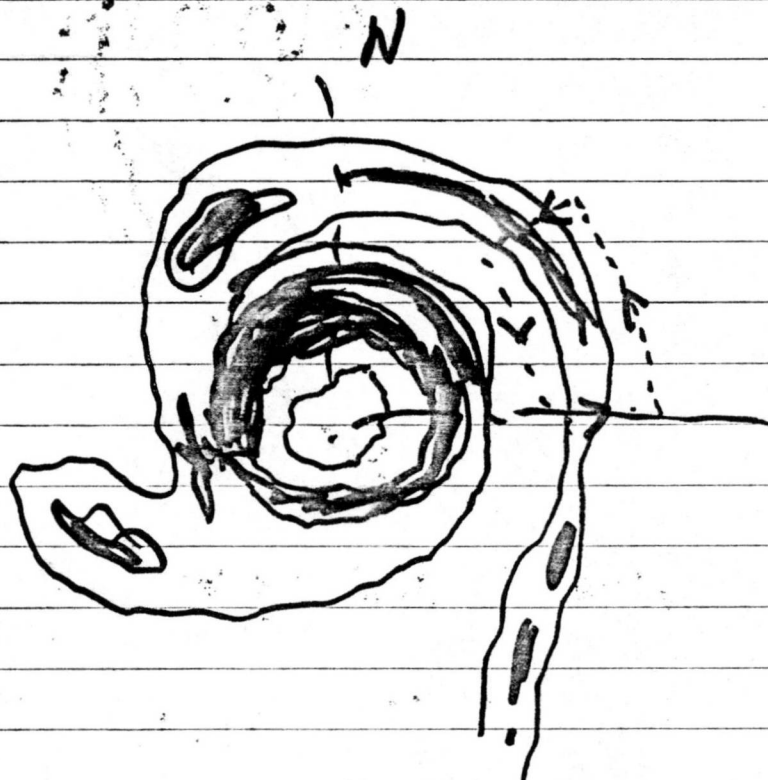
Center 230700 25.56 70.96 992

turn 180 turn 180 232900
to storm Center

Double wind maxima.



Center 25.56 70.95 993 234800



End 000340 climb to 5000

start 000640 good strong band
strong outward tilt

End of line 001158

start 001251

good cells
inside wind map

End 011635 turn 90°

End 002025 turn 00

level 002122 trk 070
End 002500 turn 180°
+rk 250° 002715

Center 003900 25.69 70.82 971

004130 tail antenna stopped at
~90° Az.

005300 - climb out of 5k ft 9k

NHRL DOPPLER RADAR TAPE LOG

OPERATOR MARKS/PARRISH SHEET 1 OF 1

[illegible]

820914 I1

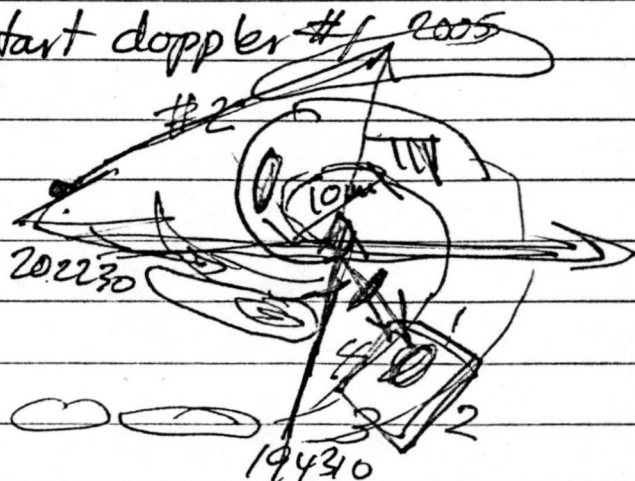
T.S. Debby
Doppler feasibility flight

194310 S → eye start doppler #1 2005
390m → N

200205 #1 off

2005 heading SW

202230 #2 off



202539 #3 on heading E

204440 #3 off tracking 120

205150 #4 on start box ESE

205337 end of leg 1 ESE 76° turn

205434 start leg 2 SW

205920 end leg 2 turn ~~SW~~ 90° turn

2100 start leg 3 ~~SW~~ 267

2102 end leg 3 turn NNW 90° turn

2103 start leg 4 heading ^{track} 337

210647 end of tape 1 ascend to 1500m

210937 1500m start leg 1 again tape 5 head 185°

211315 turn S do stair steps 185 heading

2114 start 5000' run

211550 descend to 2500'

211730 start 2500' run heading south

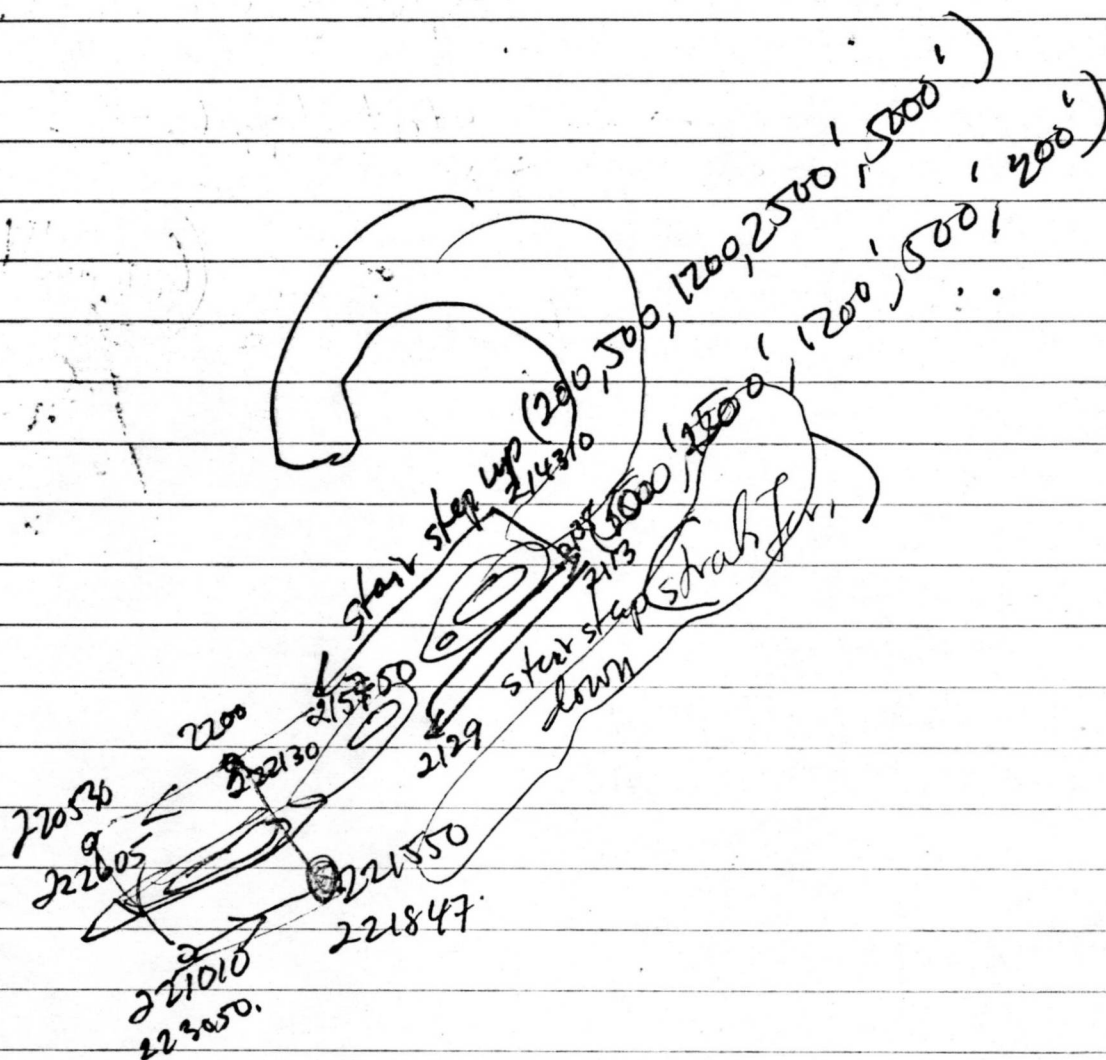
211905 descend to 1800' heading south

212020 start 1200' run south S

212400 start 500' run

212600 descend to 200' heading SW

212740 200' run Goddard Peter Black



24

20

2

2

2

2.

2

2

2

2

—

1

#2

820914 J1

213451 start tape #6

213500 turn left 90°

500'

214000 descend to 200' turn SSW 2.200'

stair step inside rainband

214300

start 200' run heading 216°

214510 start 500'

214650 climb to 1200' turn 20° to right.

214730 start 1200'

214905 climb to 2500'

215030 start 2500'

2152

climb to 5000' End tape 6

215550

start 5000' run start tape 7

215720

end of pellets 5000' run

215740

doppler ~~off~~ set up box

220010

start box 5000' track 210° ①

220530

turn 90° to track 142° ②

221010

turn 90°

221110

heading track 046 ③

221550

end tape 7 descend to 1500'

221847

1500' box

start tape 8 track 325°

222130

turn 90° to track 235°

222605

turn 90° to track 145°

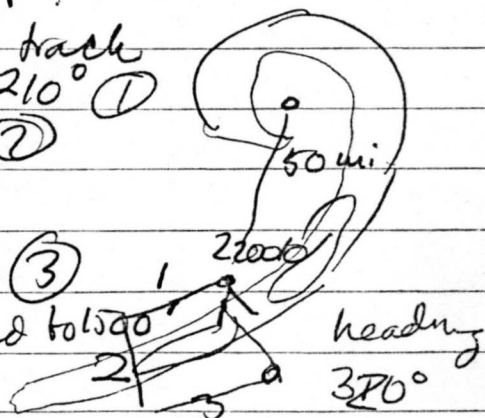
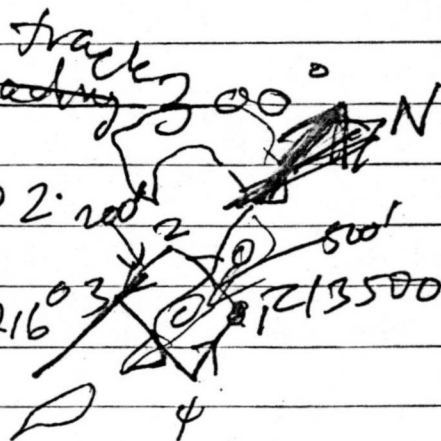
223050

turn 90° to track 055°

223600

head for the eye Whopee!!! end tape #8

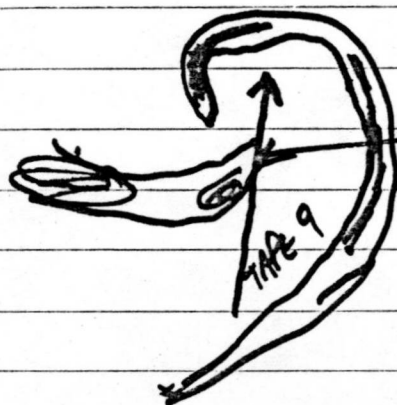
end 1500' box head for the eye



820914T

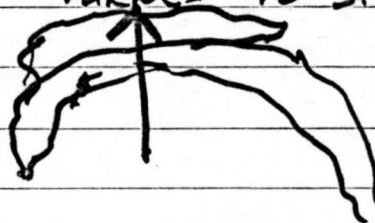
Hurricane Debby

#3



STARTED DOP #9 225555

TURNED TO 345 @ 230530



~ 2310

GOOD BUMPS IN
D. EYEWALL

STOPPED REC WHILE D. OF EYEWALL

TAPE 10



ACTIVATED DOP #10 @
233250

BUMPY

DOWNRIGHT UNBUMPY 234015-30

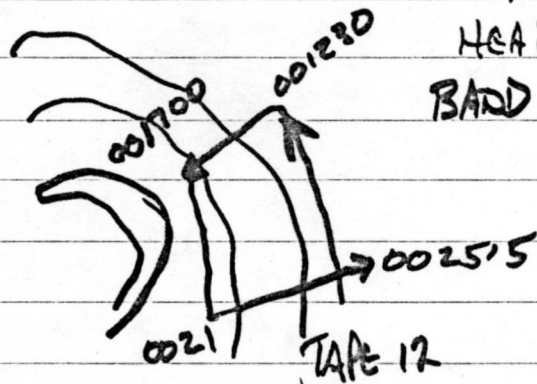
D-6 BUMP

STARTED #11 @
234935

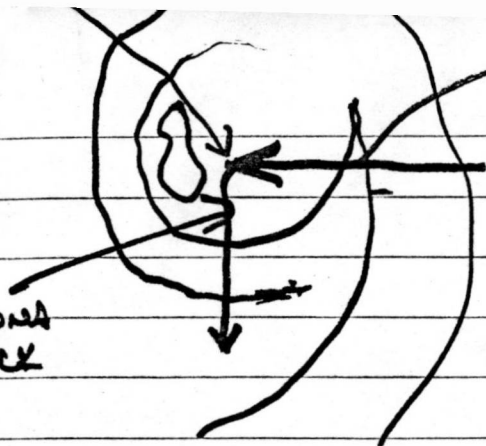
UP TO 500'

STARTED TAPE 12 @ 000637-

HEADING UP OUTSIDE OF SECOND
BAND



ROTEONA
STUCK



START HERE

200413D TAIL ROTEONA
STEPPED