

Ágúst Guðmundsson
81/06



ORKUSTOFNUN
Vatnsorkudeild

DE GREINARGERÐASAF.

FLJÓTSDALSVIRKJUN
Cobraborun í apríl 1981
á skurðleiðum og stíflustæðum.

Ágúst Guðmundsson
Pétur Ásbjörnsson

ÁG-81/06

Júní 1981



ORKUSTOFNUN

GRENSÁSVEGI 9. 108 REYKJAVÍK

GREINARGERÐ

FLJÓTSDALSVIRKJUN
Cobráborun í apríl 1981
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FLJÓTSDALSVIRKJUN. Cobraborun í apríl 1981 á skurðleiðum og stíflu-
stæðum.

Dagana 24.-27. apríl 1981 voru boraðar liðlega 80 holur með Cobrabor í Langavatn, Kvíslarvötn, Grjóthálsvatn og fleiri ^{vötn} Fljótsdalsheiði. Fyrst var farið á stíflustæði norðan við Gilsárötn. Þarna var um 1 m þykkt snjólag ofaná frosnum móajarövegi. Jarðklaki var víðast innan við 1 metra að þykkt og dýpi á fast í flestum tilvikum minna en 2 metrar. Nánari lýsing á þessum holum er á mynd 1 og staðsetning á mynd 6.

Á skurðleið um Kvíslarvötn um 3 km SV við fremra Gilsárvatn var borað í smávötn sem eru þar. Vötnin eru yfirleitt um 1 metri á dýpt og náði ísinn í flestum tilfellum niður undir vatnsbotn. Botnleiðjan var víða um 2 m og undir henni grjót eða klöpp. Sennilega stóð yfirborð vatnanna um 0,5-0,7 m hærra heldur en venja er til að sumarlagi, þegar borað er, vegna þess að í hlákum að vetrinum myndast ný ísalög ofaná haustísnum. (Borlínurit holanna eru á myndum 2 og 3 og staðsetning á mynd 7).

Á skurðleið um Langavatn og annað smávatn norðaustan Langavatns var borað á ís. Á þessum stað má einnig gera ráð fyrir að yfirborð íssins hafi verið um 0,5-0,7 m hærra en vatnsborð að sumarlagi. Í Langavatni er botnleiðjan um 2 m að þykkt í suðurhlutanum en e.t.v. 3-4 m í norðurhlutanum. (Sjá borlínurit á mynd 4 og staðsetningar á myndum 7 og 8).

Í litla vatninu norðaustan við Langavatn er botnleiðjan um 1-3 m þykk og fasta undirlagið nokkuð óreglulegt. (Sjá borlínurit á mynd 4 og staðsetningar á myndum 7 og 9).

Á skurðleiðinni á milli Gilsárvatns og Hólmavatns var borað í Mjóavatn og Grjóthálsvatn. Í Mjóavatni var lausa botnsetið um 3 m þykkt og í Grjóthálsvatni var þykkt lausa botnefnisins mjög breytileg, frá 1-5 m. (Sjá borlínurit á mynd 5 og staðsetningar á mynd 6).

MYND. 6

COBRABORUN Á

FLJÓTSDALSHÉIÐI.

GILSÁRVATN
MJOAVATN - GRJÓTHALSV.

1:20000

366 000

508 000

GILSÁRVATN

GRJÓTHALSVATN

CG208

CG201

CG207

CG210

CG214

CG213

CG217

GC299

GC100

GC106A

GC113B

GS106A

GC113G

GC113E

GS113E

GS113D

GS113A

630

630

640

610

620

637,5

630

630

630

630

630

630

630

630

630

630

630

630

630

630

630

632,5

632,5

632,5

632,5

632,5

632,5

632,5

635

635

635

635

635

635

635

635

627,5

637,5

632,5

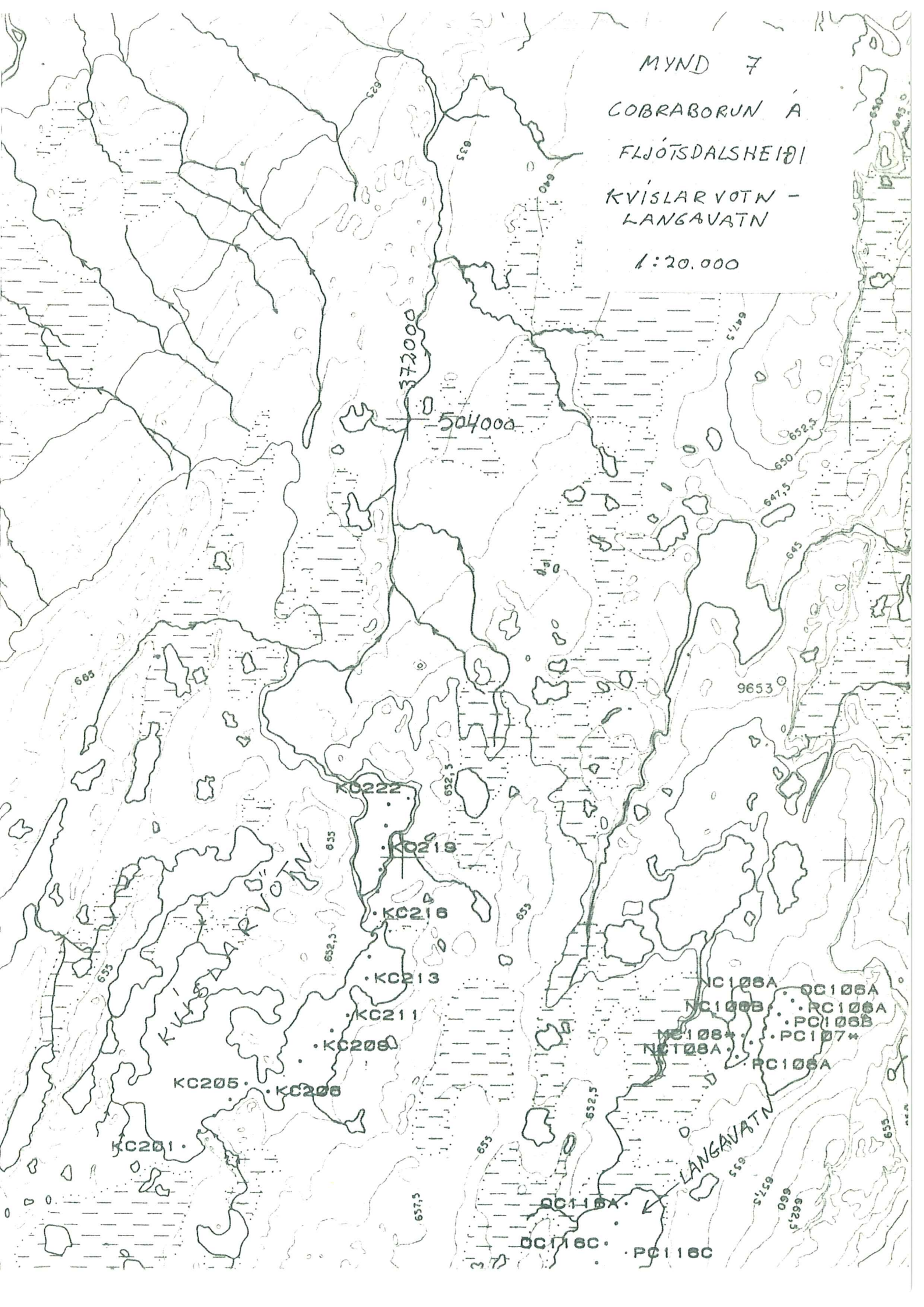
627,5

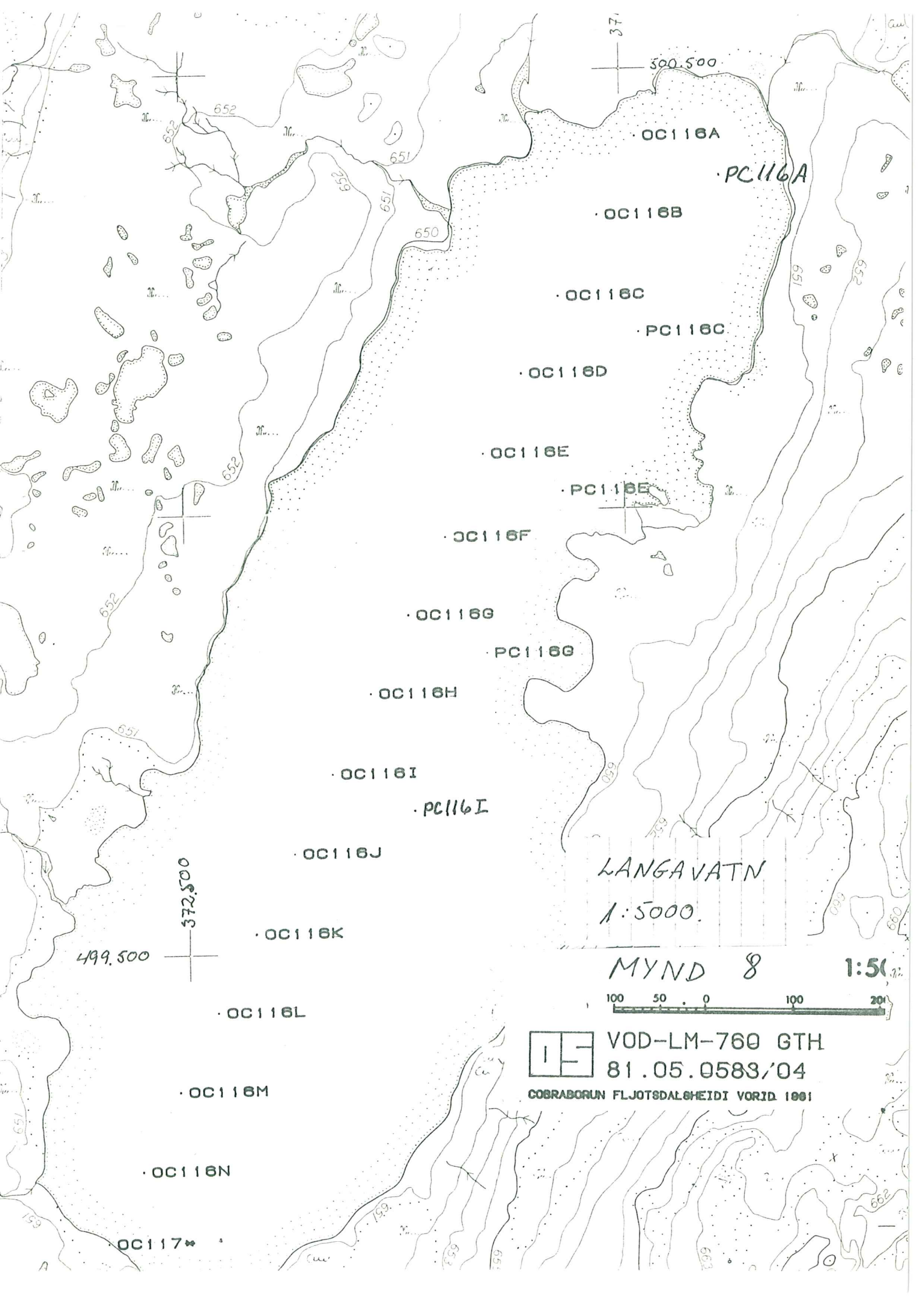
65

635

MYND 7
COBRABORUN Á
FLJÓTSDALSHÉIÐI
KVÍSLARVOTN -
LANGAVATN

1:20.000





OC116A

PC116A

OC116B

OC116C

PC116C

OC116D

OC116E

PC116E

OC116F

OC116G

PC116G

OC116H

OC116I

PC116I

OC116J

OC116K

OC116L

OC116M

OC116N

OC117*

LANGAVATN

1:5000

MYND 8

1:5000



VOD-LM-760 GTH

81.05.0583/04

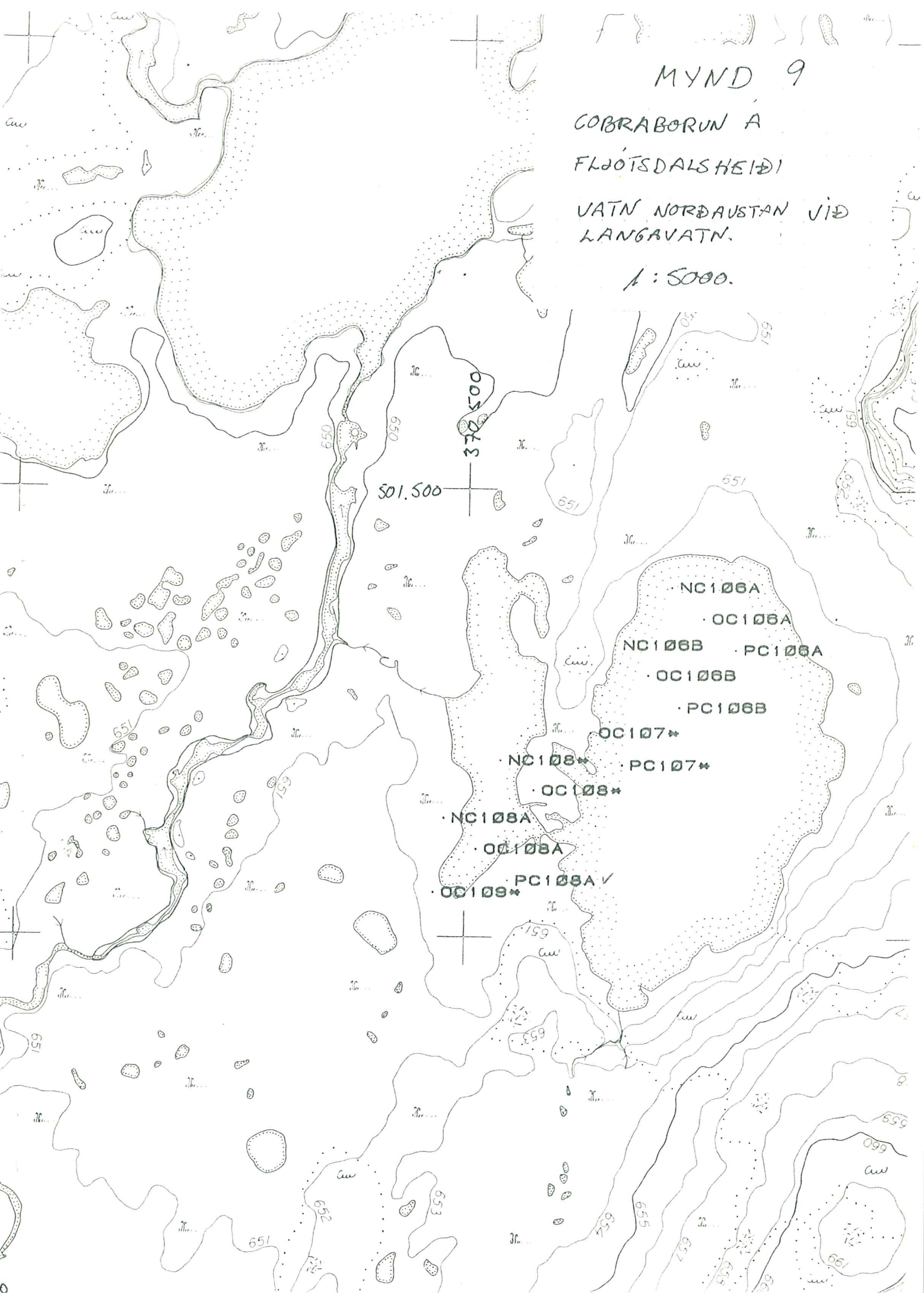
COBRABORUN FLJOTSÐALSHEIDI VORID. 1991

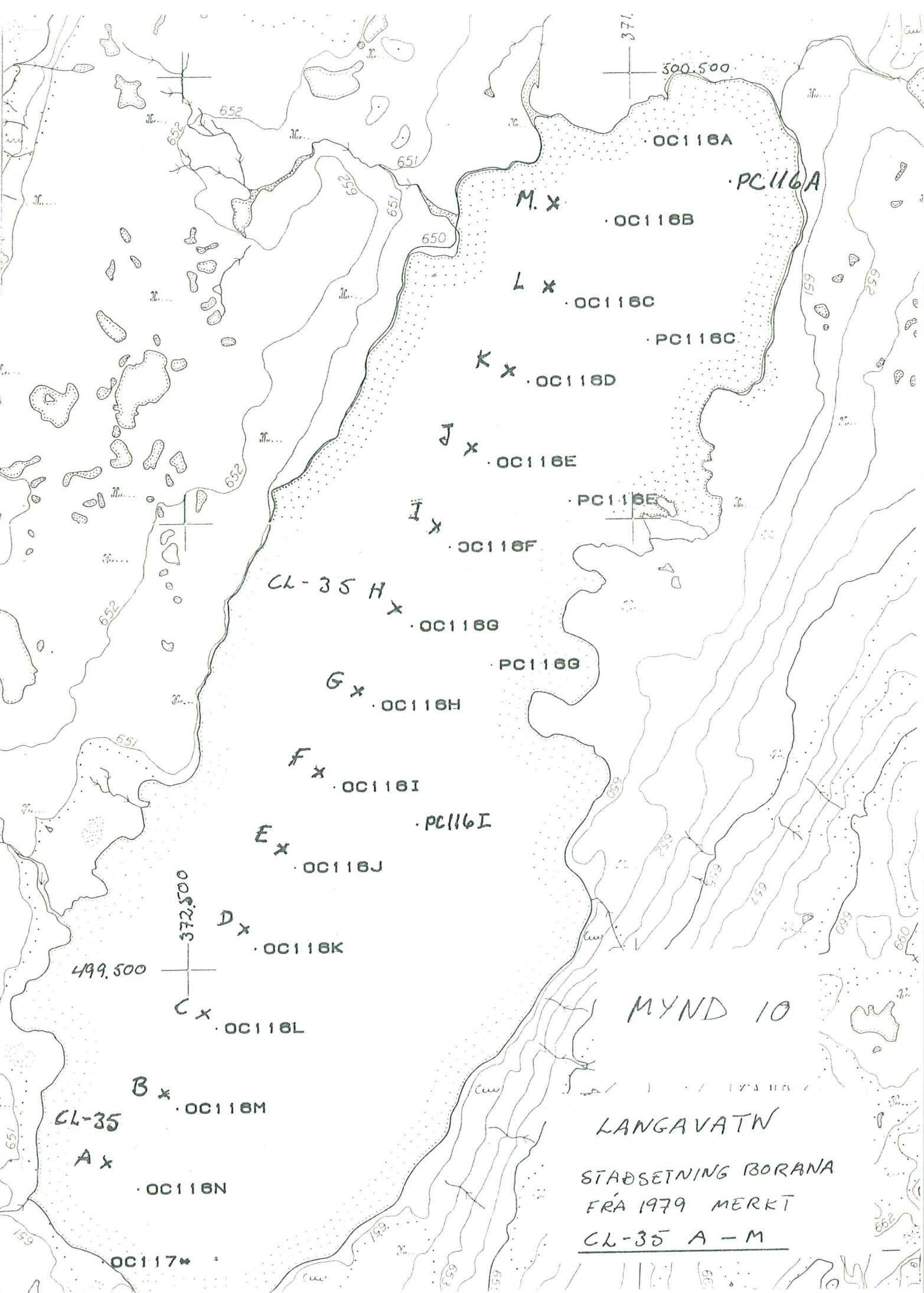
MYND 9

COBRABORUN Á
FLJÓTSDALSHÉIÐI

VATN NORÐAUSTAN VIÐ
LANGAVATN.

1 : 5000.



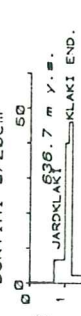


MYND 10

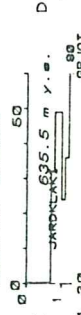
LANGAVATN

STADSETNING BORANA
FRÁ 1979 MERKT
CL-35 A - M

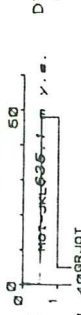
CQ201
 N-Gilearv. Snjol. 0.5m
 SORTIMI e/20cm
 DYPI m



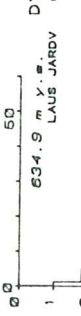
CQ202
 N-Gilearv. Snjol. 0.5m
 HOI-JKL
 STOPP



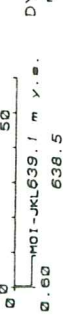
CQ203
 N-Gilearv. Snjol. 0.4m
 JARDKL
 GRJOT



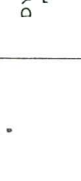
CQ204
 N-Gilearv. Snjol. 1.0m
 JARDKL
 GRJOT



CQ205
 N-Gilearv. Snjol. 1.0m
 BORTIMI e/20cm
 DYPI m



CQ206
 N-Gilearv. Snjol. 0.8m
 JARDKLAKI
 GRJOT



CQ207
 N-Gilearv. Snjol. 1.4m
 JARDKL
 GRJOT

CQ208
 N-Gilearv. Snjol. 0.6m
 JARDKL
 STOPP

CQ209
 N-Gilearv. Snjol. 0.5m
 BORTIMI e/20cm
 DYPI m

CQ210
 N-Gilearv. Snjol. 0.9m
 HOI-JKL
 STOPP

CQ211
 N-Gilearv. Snjol. 0.6m
 HOI-JKL
 GRJOT

CQ212
 N-Gilearv. Snjol. 0.8m
 HOI-JARDKL
 GRJOT

CQ213
 N-Gilearv. Snjol. 0.7m
 BORTIMI e/20cm
 DYPI m

CQ214
 N-Gilearv. Snjol. 0.8m
 JARDKL
 GRJOT

CQ215
 N-Gilearv. Snjol. 0.8m
 HOI-JKL
 STOPP

CQ216
 N-Gilearv. Snjol. 0.7m
 SORTIMI e/20cm
 DYPI m

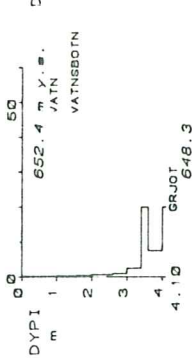
CQ217
 N-Gilearv. Snjol. 0.7m
 JARDKL
 GRJOT

MYND 1

VOD-MJ-760 PA
 81.06.0659 GHV
 FLJOTSDALSVIRKJUN
 STIFLUSTAEDI NORDAN
 GILSARVATNS
 COBRABORUN I APRIL 1981

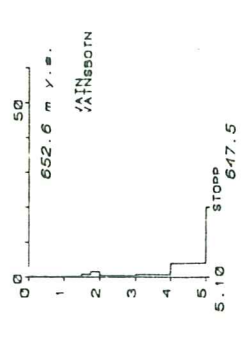
KC201

Kvialarv.-Votn Is=1.0m
BORTIMI s/20cm



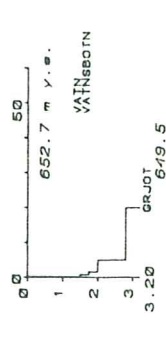
KC202

Kvialarv.-Votn Is=1.5m



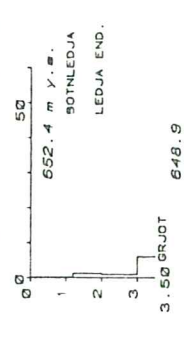
KC203

Kvialarv.-Votn Is=1.5m



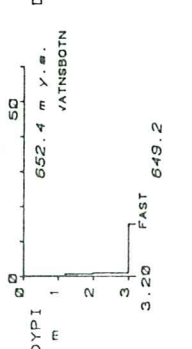
KC204

Kvialarv.-Votn Is=1.2m



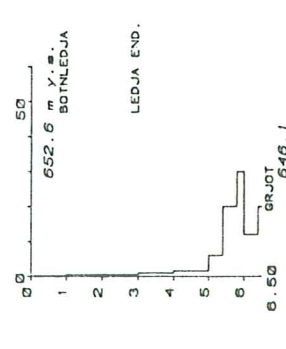
KC205

Kvialarv.-Votn Is=1.2m
BORTIMI s/20cm



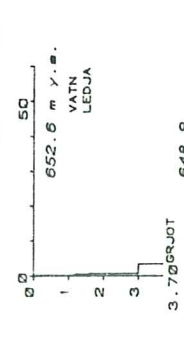
KC206

Kvialarv. Votn-Is=1.0m



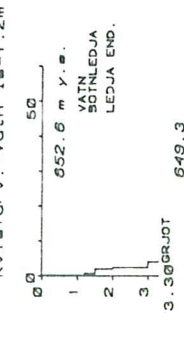
KC207

Kvialarv. Votn-Is=1.7m



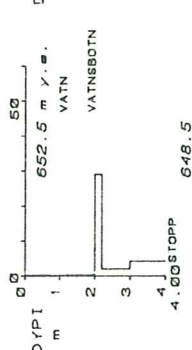
KC208

Kvialarv.-Votn Is=1.2m



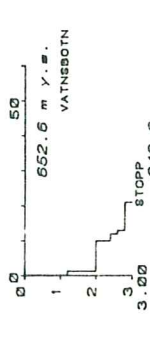
KC209

Kvialarv.-Votn Is=1.2m
BORTIMI s/20cm



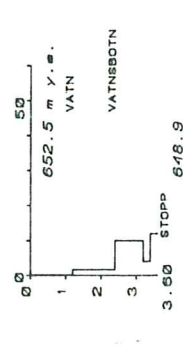
KC210

Kvialarv.-Votn Is=1.2m



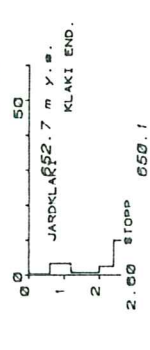
KC211

Kvialarv.-Votn Is=1.2m



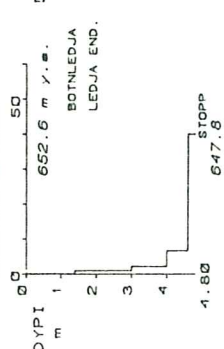
KC212

Hja rustum -Is=0.6m



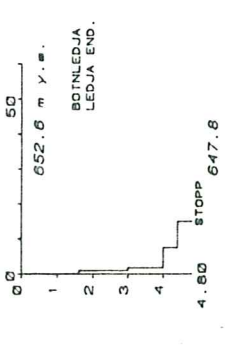
KC213

Kvialarv.-Votn Is=1.4m
BORTIMI s/20cm



KC214

Kvialarv.-Votn Is=1.6m



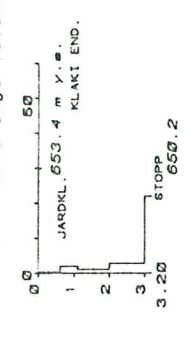
KC215

Milli vatna-Snjod. 0.6m



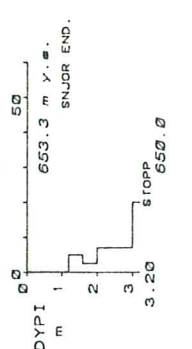
KC216

Milli vatna-Snjod. 0.6m



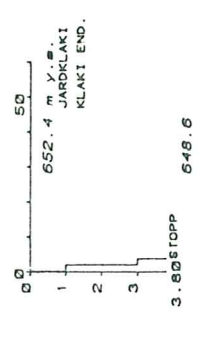
KC217

Milli vatna-Snjod. 0.6m
BORTIMI s/20cm



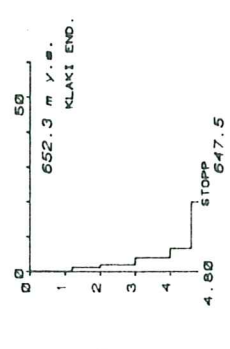
KC218

Milli vatna-Snjod. 1.0m



KC219

Is=? Jardkl. i 1.2m



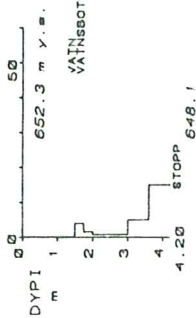
MYND 2

VOD-MJ-760 PA
81.06.0655 GHV
FLJOTSDALSVIKJUN
KVISLARVEITA

COBRABRUN I APRIL 1981

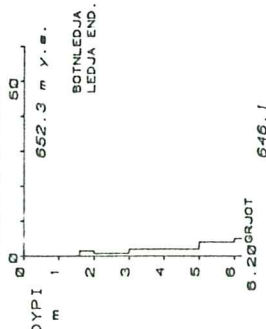
KC220

Kvialarv.-Votn Is=1.5m
BORTIMI s/20cm



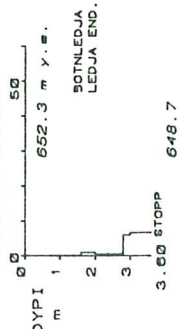
KC221

Kvialarv.-Votn Is=1.6m
BORTIMI s/20cm




KC222

Kvialarv.-Votn Is=1.6m
BORTIMI s/20cm



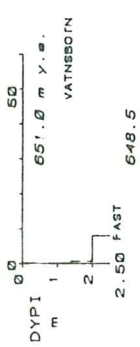
MYND 3


 VOD-MJ-760 PA
 81.06.0656 GHV
 FLJÓTSDALSVIRKJUN
 KVÍSLARVEIÐA

COBRABORUN I APRIL 1981

OC116X

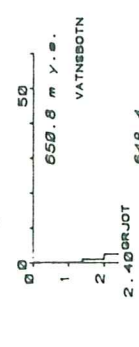
Langavatn. Isth. 1.4m
SORTIMI s/20cm



648.5

OC116A

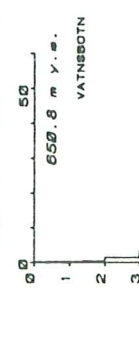
Langavatn. Isth. 1.4m



648.4

PC116A

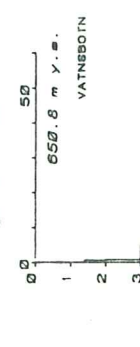
Langavatn. Isth. 1.4m



648.8

OC116B

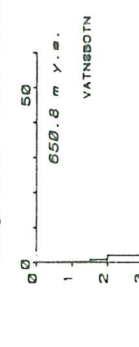
Langavatn. Isth. 1.4m



647.4

OC116C

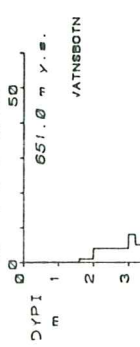
Langavatn. Isth. 1.5m



645.8

PC116C

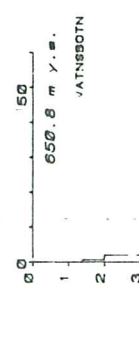
Langavatn. Isth. 1.6m
SORTIMI s/20cm



646.5

OC116D

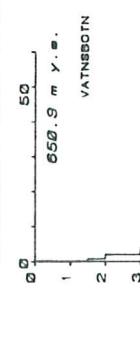
Langavatn. Isth. 1.4m



646.7

OC116E

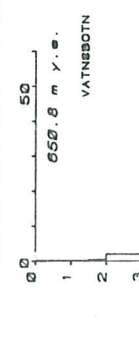
Langavatn. Isth. 1.5m



647.4

PC116E

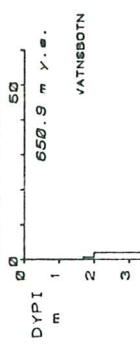
Langavatn. Isth. 1.5m



647.8

OC116F

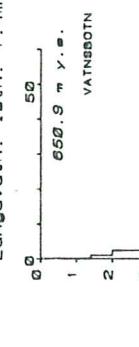
Langavatn. Isth. 1.7m
SORTIMI s/20cm



646.4

OC116G

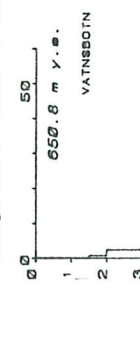
Langavatn. Isth. 1.4m



647.7

PC116G

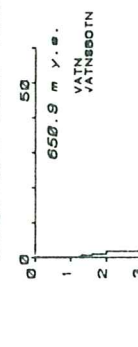
Langavatn. Isth. 1.5m



647.3

OC116I

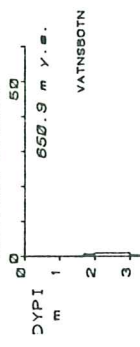
Langavatn. Isth. 1.3m



646.7

PC116I

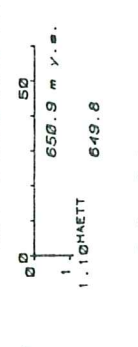
Langavatn. Isth. 1.7m
SORTIMI s/20cm



647.4

NC106A

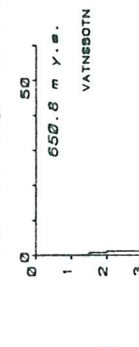
Vatn-NA-Langav. Is 1.1m



649.8

OC106A

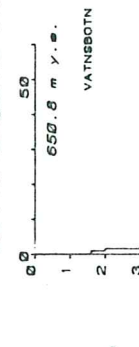
Vatn-NA-Langav. Is 1.5m



647.4

PC106A

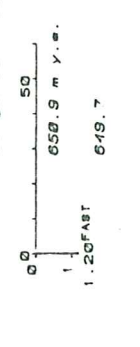
Vatn-NA-Langav. Is 1.6m



647.6

NC106B

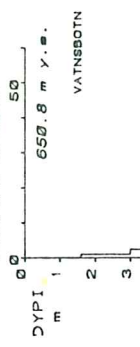
Vatn-NA-Langav. Is 1.2m



649.7

OC106B

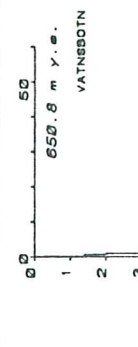
Vatn-NA-Langav. Is 1.6m
BORTIMI s/20cm



647.3

PC106B

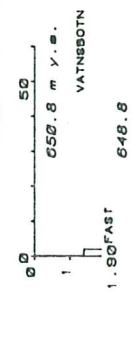
Vatn-NA-Langav. Is 1.4m



648.8

OC107X

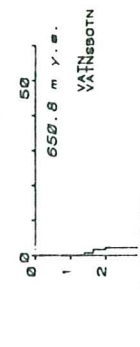
Vatn-NA-Langav. Is 1.4m



648.8

PC107X

Vatn-NA-Langav. Is 1.4m



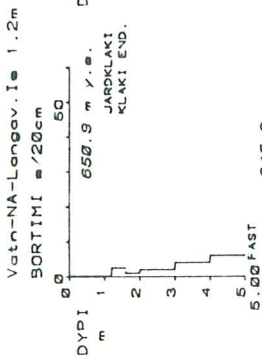
647.9

MYND 4

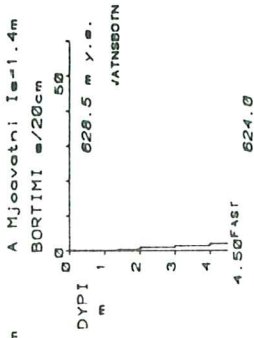
VOD-MJ-760 PA
81.06.0657 GHV

FLJOTSDALSVIRKJUN
LANGAVATN OG SKURDLEID
N-A VID LANGAVATN
COBRABORUN I APRIL 1981

NC108X



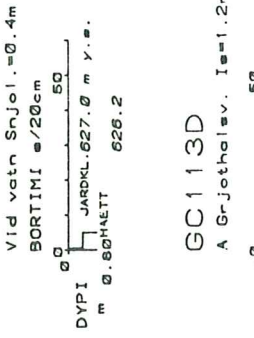
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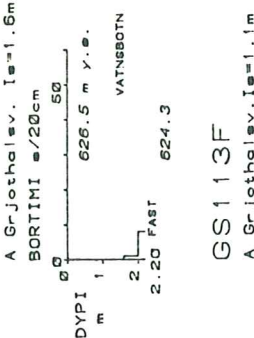
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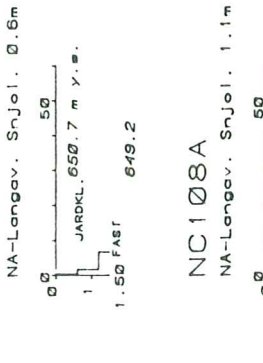
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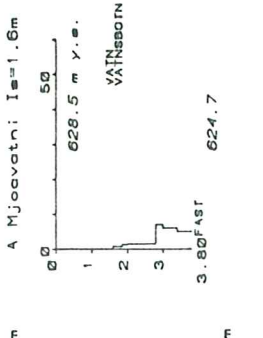
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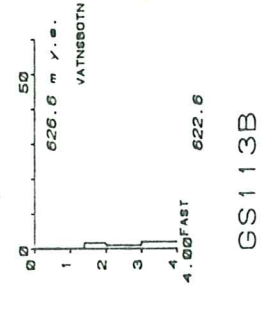
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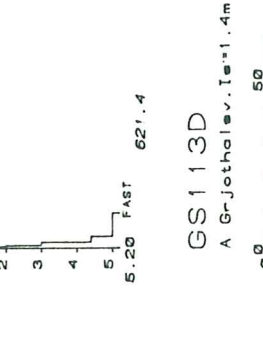
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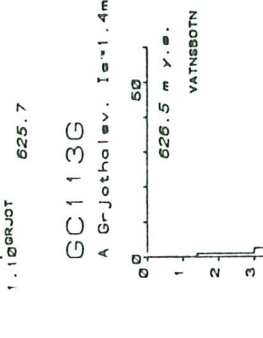
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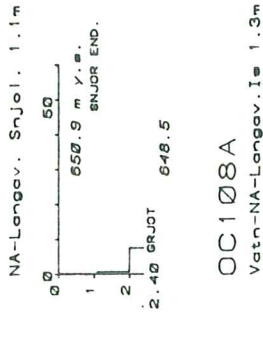
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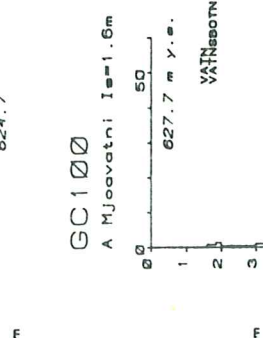
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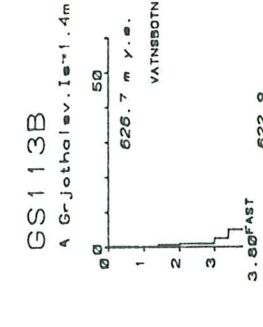
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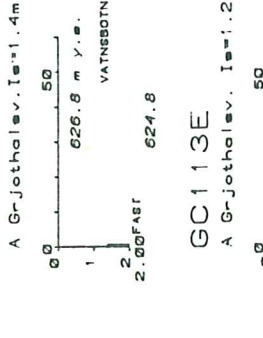
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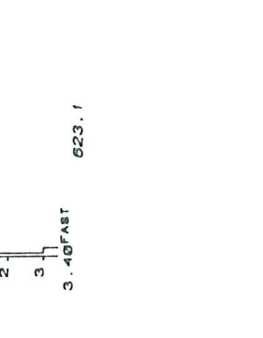
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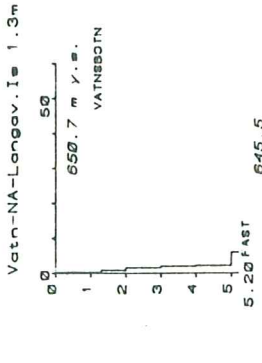
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GC113G



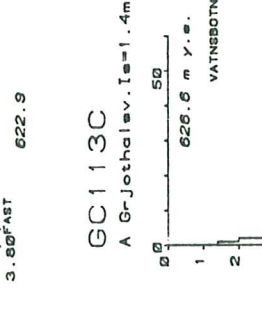
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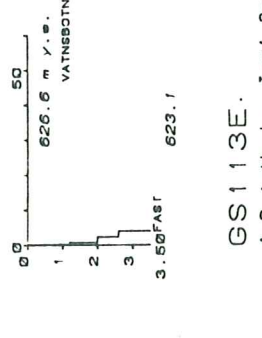
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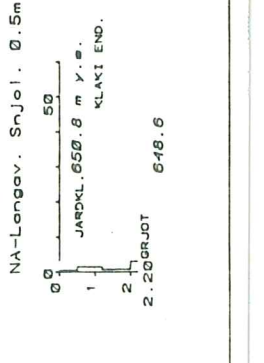
GC113E



GS113E



PC108A



MYND 5

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SKURLEID N-A VID LANGAVATN
OG MJOAVATN-GRJOTHALSVATN
COBRABORUN I APRIL 1981