Gunnar Birgisson
82/01

ORKUSTOFNUN
NATIONAL ENERGY AUTHORITY

GREINARGERÐ

SUÐURLÍNA
Cobraboranir í okt. 1982.

Gunnar Birgisson
Erlendur Pétursson

Nóvember 1982.

G.B./E.P. 82/01

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Orkustofnun 04.11.1982.

Dagana 18.-25.okt. voru boraðar 70 Cobraholur við 55 merkta hæla, til að kanna undirstöður mastra væntanlegrar Suðurlínu.

Þar sem talið var að borstangir hafi steytt á stórum steini rétt undir yfirborði, var boruð önnur hola 2-5 m frá hæl. Eru þær holur merktar sérstaklega með A fyrir aftan holunúmerið.

Á Hellnamýri sunnan undir Geirlandshrauni voru boraðar 33 holur við 25 merkta hæla, 050-073. Dýptin á þessu svæði reyndist vera 0,5-5 m, en meðaldýpi innan við 2 m. Dýptin á holunum fór mjög eftir yfirborði landsins þ.e. dýpstu holurnar voru staðsettar í mýri en þær grynnstu á mosagrónu nútíma hrauni. Hola 066A er boruð 5m sunnan við hæl 066, en 066B 5 m norðan við hælinn. Hola 062R er staðsett á milli hæla 061 og 062 (40m frá 062).

Við Hólaskafl milli Leiðólfsfells og Skaftár voru boraðar 19 holur við merkta hæla, 089-103. Voru holurnar á þessu svæði nokkuð misdjúpar, 0,5-8,0 m, en meðaldýpi þeirra var um 3 m.

Við Hornafjarðarfljót voru boraðar 2 holur 031-032. Fjarlægðin á milli holanna er innan við 50 m, og vakti það nokkra athygli hve misdjúpt var á þétta fyrirstöðu í þessum holum.

Lengstan tíma tók að bora á staurastæðum við Steinafjall í Suðursveit, bæði vegna mikils dýpis og erfiðleika að ná borstöngunum upp. Boraðar voru 16 holur við 14 merkta hæla, 265-278. Dýpt holanna var 0.8-19,8m og meðaldýpi um 6m. Í hlíðinni undir Steinafjalli er mikið um stórgrýti, og er því líklegt að í flestum þeirra hafi borstangirnar stoppað á stórum steini.

Um þær athugasemdir sem gerðar eru í lok borunar, er rétt að taka fram að "fast" merkir að borstangir lenda á þéttri fyrirstöðu sem þær ganga lítið sem ekkert niður í (t.d. harðnaðan jökulruðning),en er bor heggur á borstöngunum, er það yfirleitt kallað "grjót", en "klöpp" ef bor heggur og aðstæður í nánasta umhverfi (opnur í berggrunn, klapparholt eða hvalbök) benda til þess að um klöpp geti verið að ræða.

Á bls. 3-6 eru tölvuskrár yfir Cobraholurnar, en á bls. 7-13 eru línurit sem sýna bortímann í sek. á hverja 20 cm.

Gunnar Birgisson

Erlendur Pétursson

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82.11.02 GB

HELLNAMYRI

COBRABORUN
SUÐURLINA 1982
BLAÐ 01

Þ002z

Hnitakerfi: Lambert X-hnit (m)	Y-hnit (m)	Hæð yfir-borðs (m)	Nafn punkts	Dýpt holu (m)	Borað niður í hæð (m)	Athugasemd gerð þegar hætt var að bora
0.0	0.0	312.4	050	1.75	310.6	GRJOT
0.0	0.0	336.9	051	0.45	336.5	KLÖPP
0.0	0.0	346.6	052	1.45	345.1	KLÖPP
0.0	0.0	362.0	053	0.95	361.0	KLÖPP
0.0	0.0	375.0	054	0.65	374.4	KLÖPP
0.0	0.0	375.0	054A	0.55	374.5	KLÖPP
0.0	0.0	381.4	055	3.30	378.1	FAST
0.0	0.0	381.4	056	5.05	376.4	GRJOT
0.0	0.0	379.5	057	4.75	374.8	FAST
0.0	0.0	372.2	058	3.85	368.4	FAST
0.0	0.0	364.5	059	2.95	361.5	KLÖPP
0.0	0.0	347.7	060	0.85	346.9	KLÖPP
0.0	0.0	341.7	061	3.30	338.4	FAST
0.0	0.0	340.2	062	1.05	339.1	KLÖPP
0.0	0.0	340.2	062R	1.15	339.0	KLÖPP
0.0	0.0	340.6	063	1.05	339.5	KLÖPP
0.0	0.0	350.7	064	1.30	349.4	GRJOT
0.0	0.0	350.7	064A	1.15	349.5	KLÖPP
0.0	0.0	350.9	065	1.75	349.1	GRJOT
0.0	0.0	350.9	065A	1.05	349.9	GRJOT
0.0	0.0	372.2	066	1.05	371.1	KLÖPP
0.0	0.0	372.2	066A	3.20	369.0	KLÖPP
0.0	0.0	372.2	066B	0.65	371.5	KLÖPP
0.0	0.0	381.8	067	1.50	380.3	GRJOT
0.0	0.0	381.8	067A	1.45	380.4	KLÖPP
0.0	0.0	370.9	068	1.75	369.1	GRJOT
0.0	0.0	366.5	069	2.25	364.3	GRJOT
0.0	0.0	362.2	070	1.50	360.7	GRJOT
0.0	0.0	362.2	070A	1.75	360.5	GRJOT
0.0	0.0	360.6	071	4.40	356.2	GRJOT
0.0	0.0	359.2	072	1.05	358.1	KLÖPP
0.0	0.0	359.2	072A	1.15	358.0	KLÖPP
0.0	0.0	356.9	073	1.95	355.0	GRJOT

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COBRABORUN
SUDURLINA 1982
BLAD 01

HOLASKAFL

P002z

Hnitakerfi: Lambert X-hnit (m)	Y-hnit (m)	Hæd yfir-bords (m)	Nafn punkts	Dypt holu (m)	Borad nidur í hæd (m)	Athugasemd gerd þegar hætt var ad bora
0.0	0.0	343.2	089	4.50	338.7	GRJOT
0.0	0.0	337.0	090	1.70	335.3	GRJOT
0.0	0.0	324.7	091	1.25	323.5	KLÖPP
0.0	0.0	320.5	092	3.25	317.3	KLÖPP
0.0	0.0	318.6	093	2.40	316.2	FAST
0.0	0.0	313.8	094	0.70	313.1	GRJOT
0.0	0.0	313.8	094A	4.20	309.6	GRJOT
0.0	0.0	315.6	095	1.70	313.9	GRJOT
0.0	0.0	315.6	095A	1.50	314.1	GRJOT
0.0	0.0	315.1	096	0.75	314.4	KLÖPP
0.0	0.0	315.1	096A	0.65	314.5	KLÖPP
0.0	0.0	313.5	097	8.15	305.4	KLÖPP
0.0	0.0	337.6	098	1.95	335.6	GRJOT
0.0	0.0	346.6	099	5.25	341.4	KLÖPP
0.0	0.0	347.2	100	5.70	341.5	GRJOT
0.0	0.0	347.5	101	4.05	343.5	GRJOT
0.0	0.0	342.8	102	0.50	342.3	KLÖPP
0.0	0.0	342.8	102A	0.75	342.0	KLÖPP
0.0	0.0	303.1	103	5.90	297.2	FAST

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HORNAFJARDARFLJOT

COBRABORUN
SUDURLINA 1982
BLAD 01

P002z
Hnitakerfi: Lambert

X-hnit (m)	Y-hnit (m)	Hæd yfir-bords (m)	Nafn punkts	Dýpt holu (m)	Borad nidur i hæd (m)	Athugasemd gerd þegar hætt var ad bora
0.0	0.0	2.6	031	13.80	-11.2	HÆTT
0.0	0.0	2.6	032	9.80	-7.2	FAST

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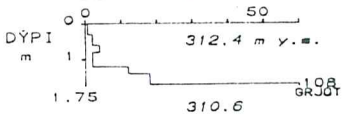
STEINAFJALL

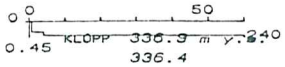
COBRABORUN
SUDURLINA 1982
BLAD 01

Hnitakerfi: Lambert X-hnit (m)	Y-hnit (m)	Hæd yfir-bords (m)	Nafn punkts	Dypt holu (m)	Borad nidur i hæd (m)	Athugasemd gerd þegar hætt var ad bora
0.0	0.0	17.7	265	7.40	10.3	KLØPP
0.0	0.0	18.0	266	7.25	10.8	GRJOT
0.0	0.0	25.5	267	4.45	21.0	FAST
0.0	0.0	28.8	268	12.25	16.5	FAST
0.0	0.0	32.5	269	19.80	12.7	HÆTT
0.0	0.0	37.2	270	0.80	36.4	GRJOT
0.0	0.0	35.2	271	2.85	32.3	GRJOT
0.0	0.0	38.8	272	1.65	37.2	GRJOT
0.0	0.0	38.8	272A	7.80	31.0	HÆTT
0.0	0.0	37.1	273	1.45	35.7	GRJOT
0.0	0.0	37.1	273A	1.25	35.8	GRJOT
0.0	0.0	38.0	274	1.85	36.2	GRJOT
0.0	0.0	37.5	275	2.70	34.8	GRJOT
0.0	0.0	36.6	276	11.55	25.0	FAST
0.0	0.0	40.6	277	2.70	37.9	GRJOT
0.0	0.0	47.6	278	6.25	41.3	FAST

050
MÓI
BORTÍMI m/20cm



051
MOSI



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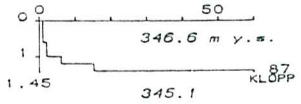

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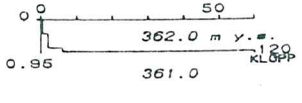

054
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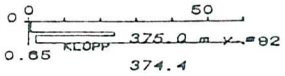
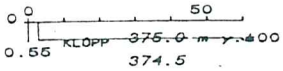
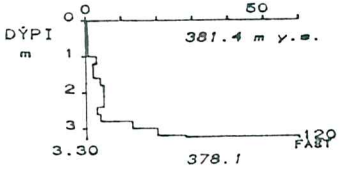


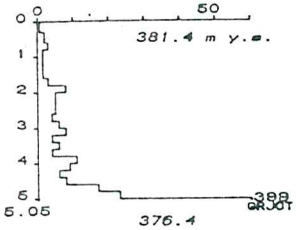
054A
MOSI



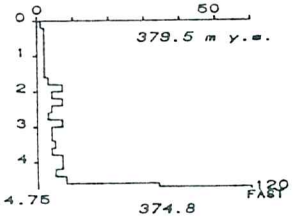
055
MÓI
BORTÍMI m/20cm



056
MÝRI



057
MÝRI VIÐ TJÖRN



058
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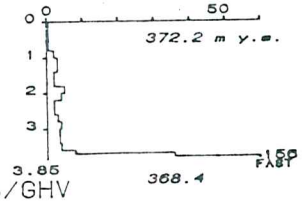
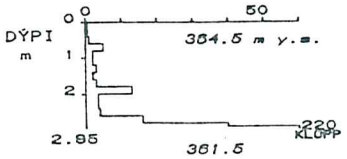


059
MÝRI
BORTÍMI m/20cm



060
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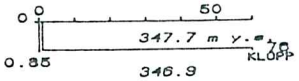
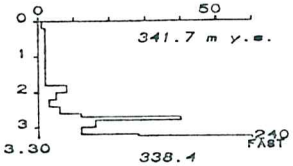
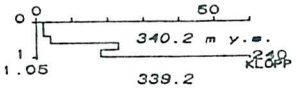


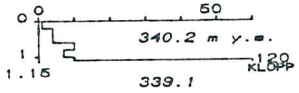
061
MÓI



062
MOSI



062R
MOSI RAUÐUR HÆLL



063
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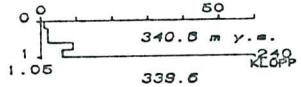
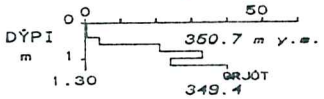
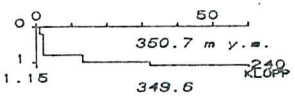


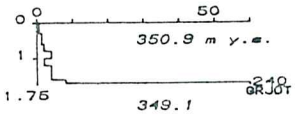
064
MELUR
BORTÍMI m/20cm



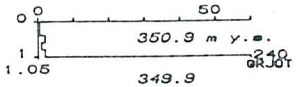
064A
MELUR



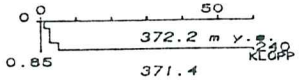
065
MÓI



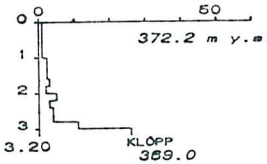
065A
5M NV VIÐ HÆL



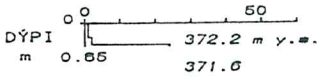
066
BREKKA (HÆLL)



066A
JARÐSKRIÐSTUNGA (FLAGG)



066B
10M N VIÐ FLAGG
BORTÍMI m/20cm



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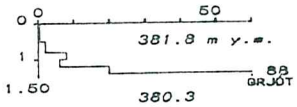
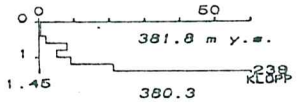
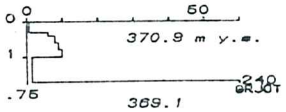


067A



068
MOSI



069
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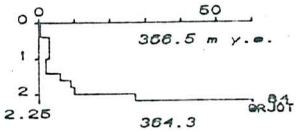

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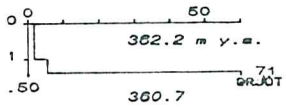
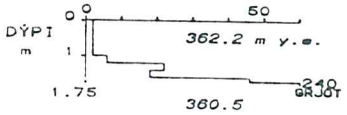


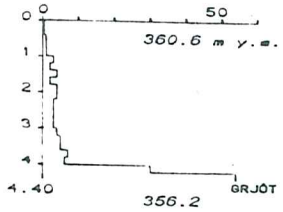
VOD-MJ-801 GB/GHV
82.11.1345/01

SUÐURLÍNA
AUSTAN SKAFTAR
COBRABORUN
STAURAR NR 050-070

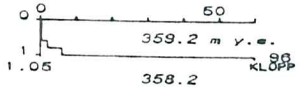
070A
5M V VIÐ HÆL
BORTÍMI m/20cm



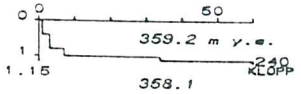
071
SENDINN MELUR



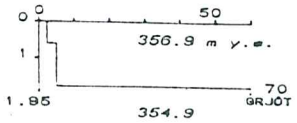
072
MÓI



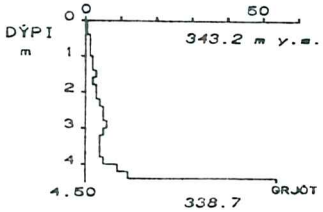
072A
3M NV VIÐ HÆL



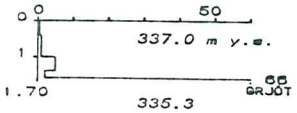
073
MÓI



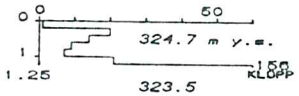
089
BLAUTUR MÓI
BORTÍMI m/20cm



090
MÓI



091
SANDUR



092
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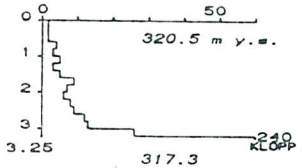

093
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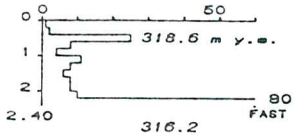

094
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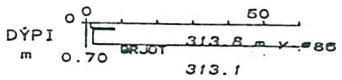
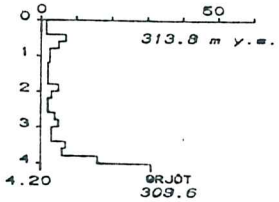
BORTÍMI m/20cm



094A
2M S VIÐ HÆL



095
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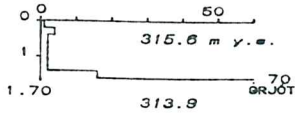

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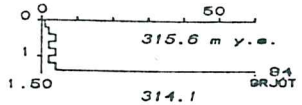

096
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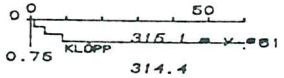
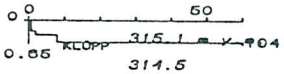
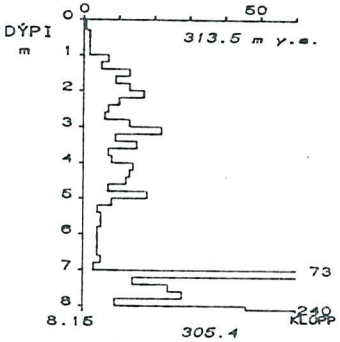


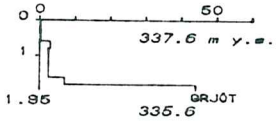
096A
1M A VIÐ HÆL



097
SANDUR
BORTÍMI m/20cm



098
MÝRI



099
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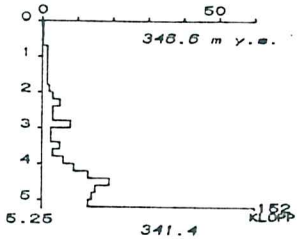

100
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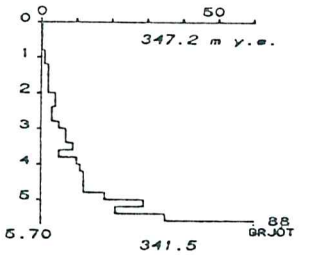

101
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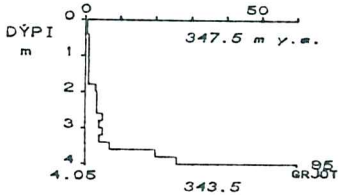
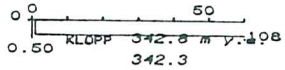
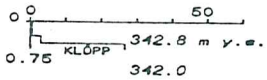
BORTÍMI m/20cm



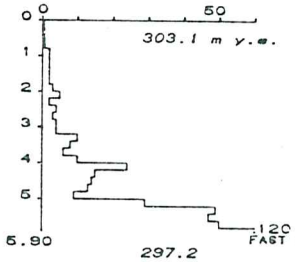
102
MÓI



102A
MÓI 8M A VIÐ HÆL

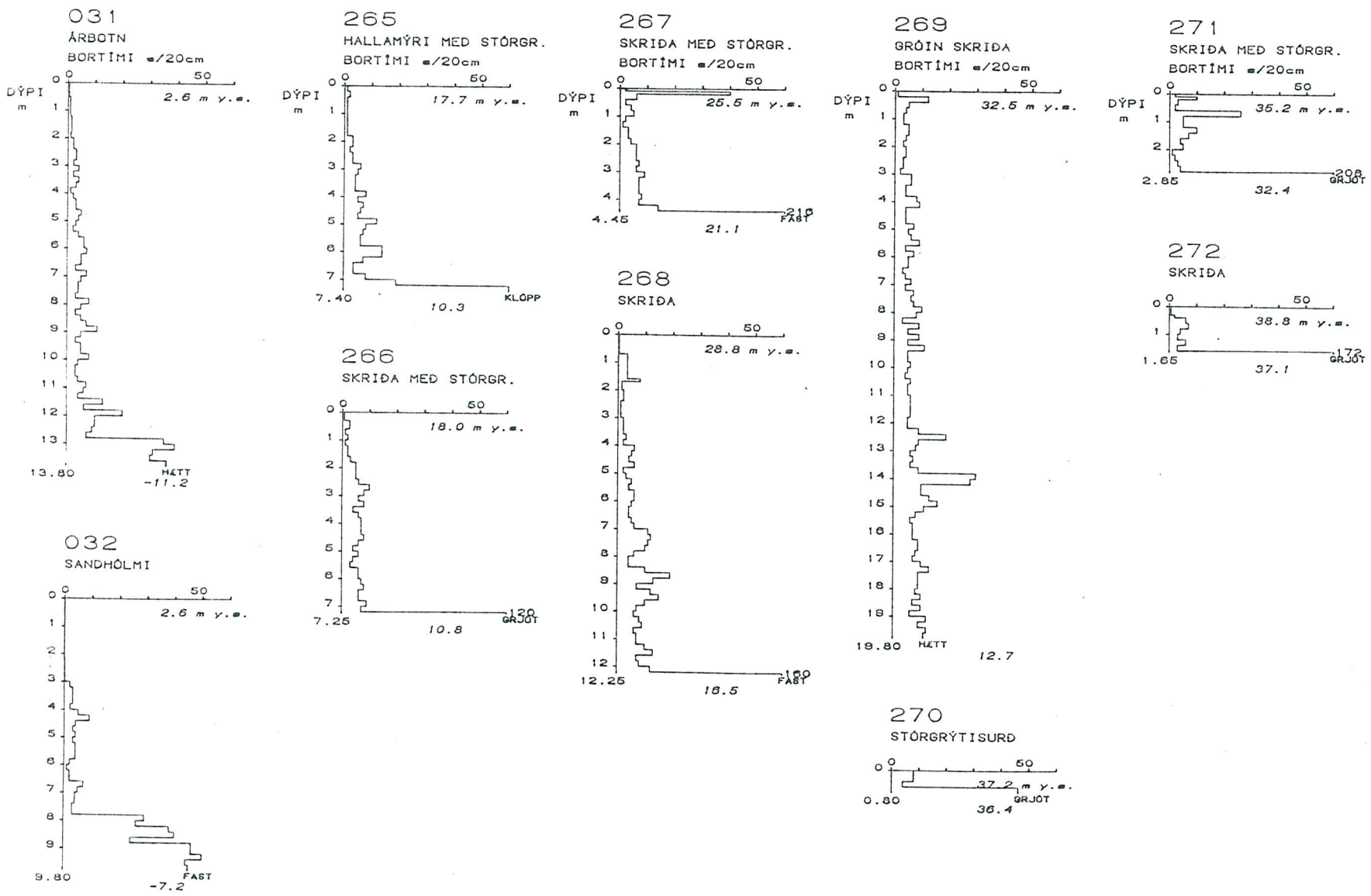


103
SANDHÓLL



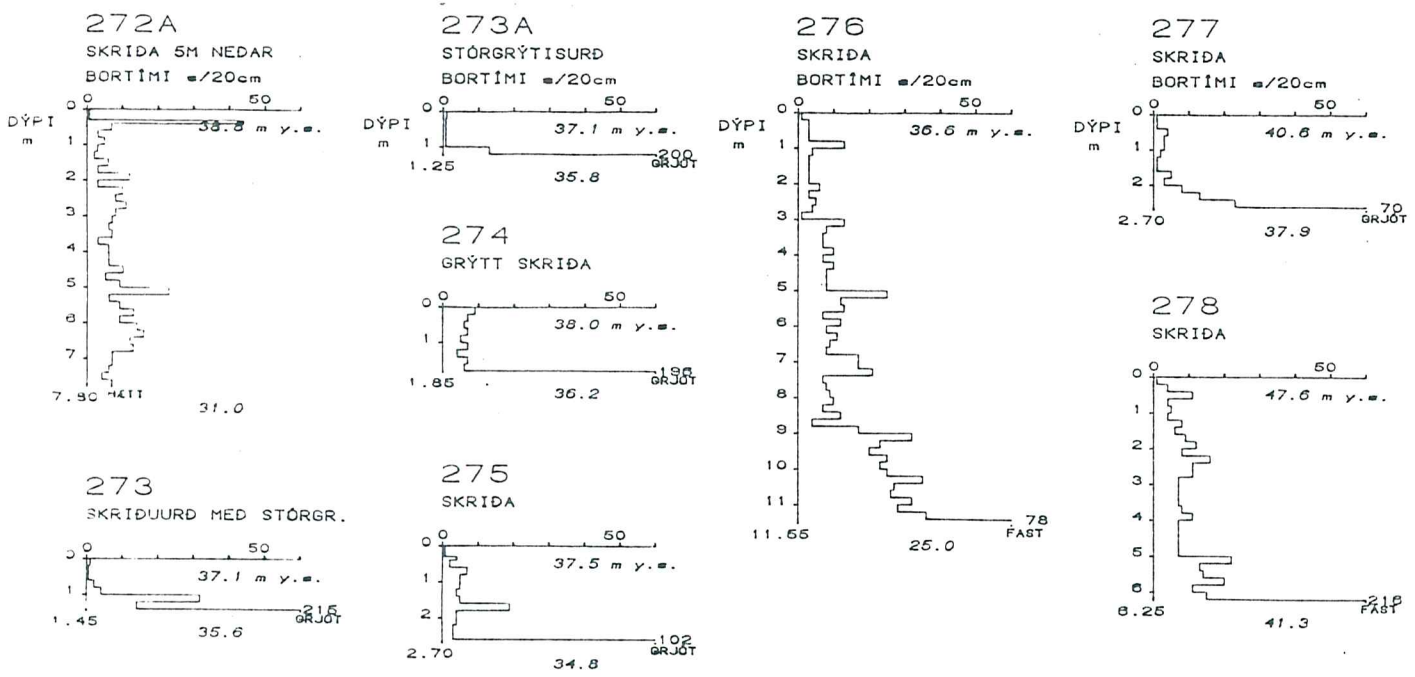
VOD-MJ-801 GB/GHV
82.11.1345/02

SUÐURLINA
AUSTAN SKAFTAR
COBRABORUN
NR 070A-073 OG 089-103



VOD-MJ-704 GB/GHV
82.11.1346/01

SUÐURLINA
HORNAFJÖRÐUR-SUÐURSVEIT
COBRABORUN. STAURAR
NR 031-032 OG 265-272



VOD-MJ-704 GB/GHV
82.11.1346/02

SUÐURLINA
SUÐURSVEIT
COBRABORUN
STAURAR NR 272A-278