Tephra Logs

A4:

1: Fljótsdalsheiði (59, 152)

2: Fauskheiði (153, 155)

3: Emstrur: (160, 161, 162)

4: Husá (2, 3, 4,6)

5: Þórsmörk (170, 61, 101)

A3+:

6: Smjörgil (12, 19, 31, 18, 8, 16, 11, 10, 9, 17, 20, 28, 26, 15, 27)

7: Drumbabot and North Aurasel (36, 38, 39, 76, 67, 68)

8: langanes and Eyjafjöll (25, 24, 23, 14, 30, 32, 171, 146)

9: Einhyrningur (57, 165, 163, 164, 166, 167, 168, 169, 58)

10: Kanastaðir and West Kanastaðir (55, 129, 66, 144, 40, 41)

11: West Kanastaðir (34, 35, 42)

12: East Einhyrningur Terraces (131, 127, 126, 124, 125, 128, 130)

13: North Þórsmörk and Þrönga (100, 77, 82, 81, 79, 80)

14: North Þórsmörk (98, 92, 91)

15: Fauskheiði (139, 140, 138, 22)

16: Botn (151, 150, 115)

17: Halli Island (44, 43, 117, 145)

18: North Þórsmörk (86-88, 89, 93, 95, 94, 96, 85, 85B, 84, 83)

19: Entujökull (122, 121, 120, 119, 118, 110)

20: Entujökull East (116, 123, 103, 104, 105, 106, 107)

Geomorphological Map Key

(flood deposit on this side) Depositional limit of event 3

(flood deposit to this side) Depositional limit of events 8A/8B

direction of photo

position of photographer — F4.7.29 — Location for photo in figure 4.7.29

figure name

Link point of 2 maps

112 Tephra Pit

HUT Bothar huts

abandoned meltwater / flood channel

Trimlines

Glacier crevasses

Glacier surface dirt cone

Streams

Braided channel

Main river channel

Crags / rock outcrops

Gullied, chaotic topography

Scree

Depressions

Fluted terrain

Streamlined hummocks

Small hummocks

Mound

Moraine

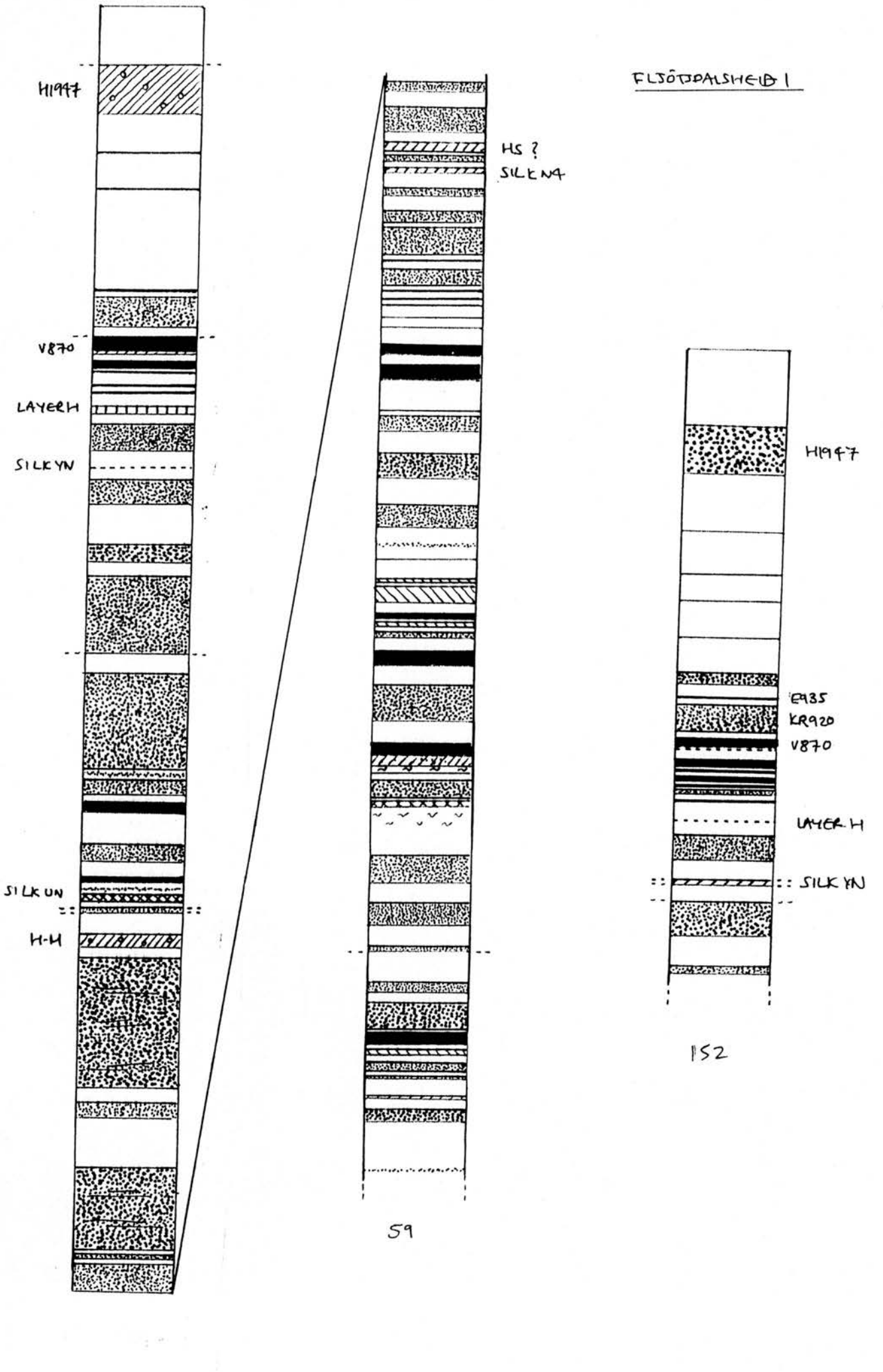
Scarp face

Slope, indistinct break in slope

Cliff

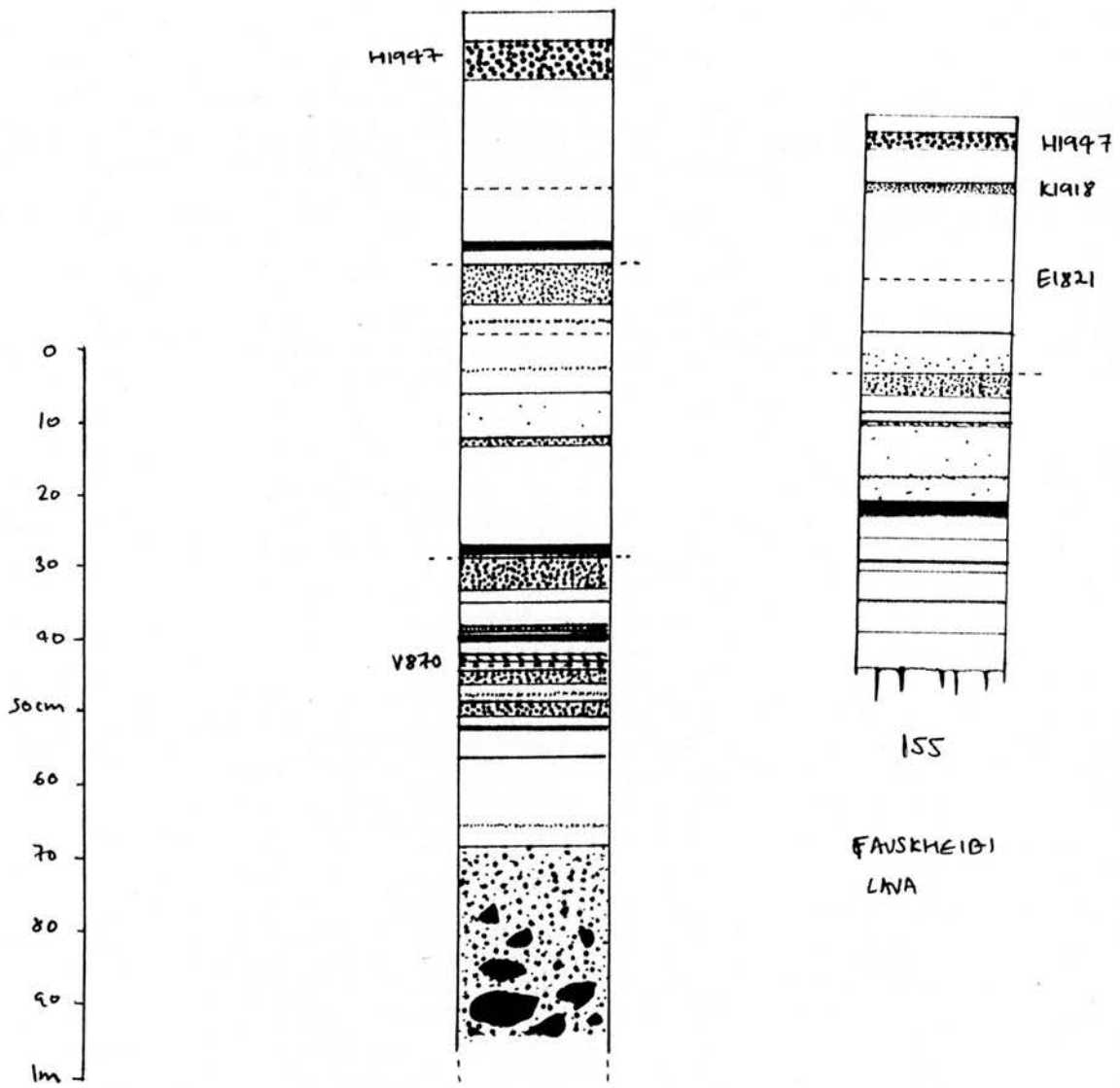
1/

FLJÓTSDALSHEIÐI



2/

FAUSKHEIÐI



153

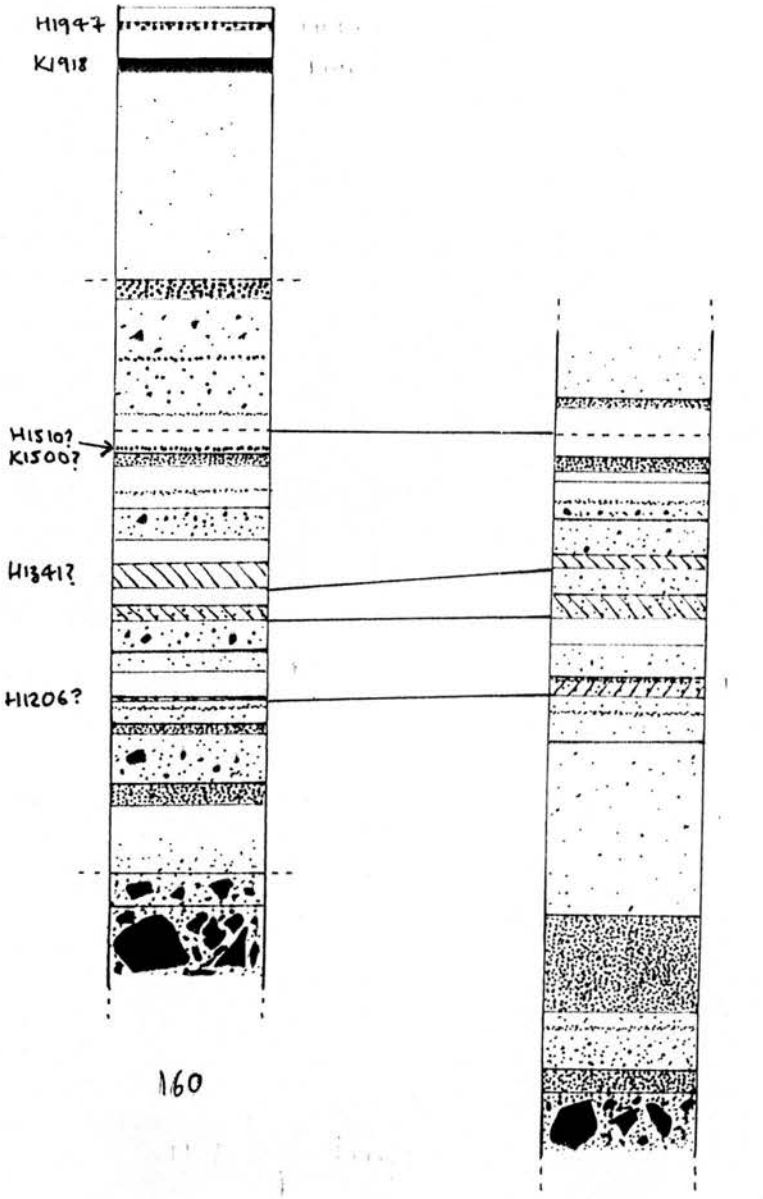
KLAPPIR

155

FAUSKHEIÐI
LAVA

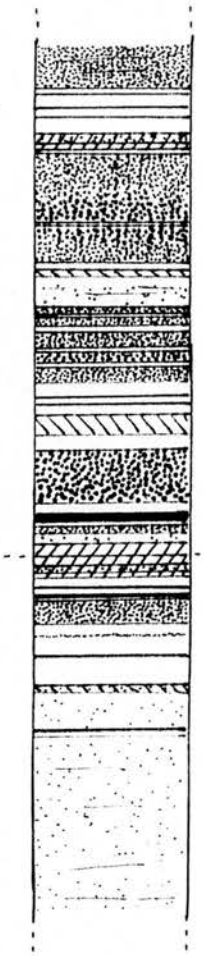
3/

EMSTRUR



South of Markarfljót Bridge

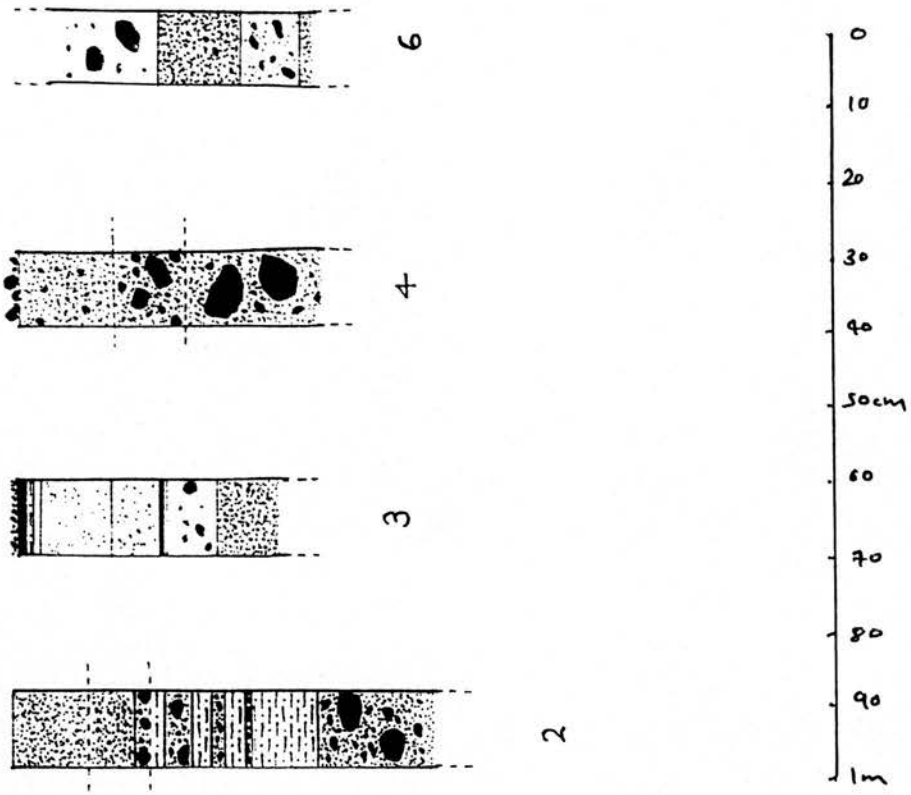




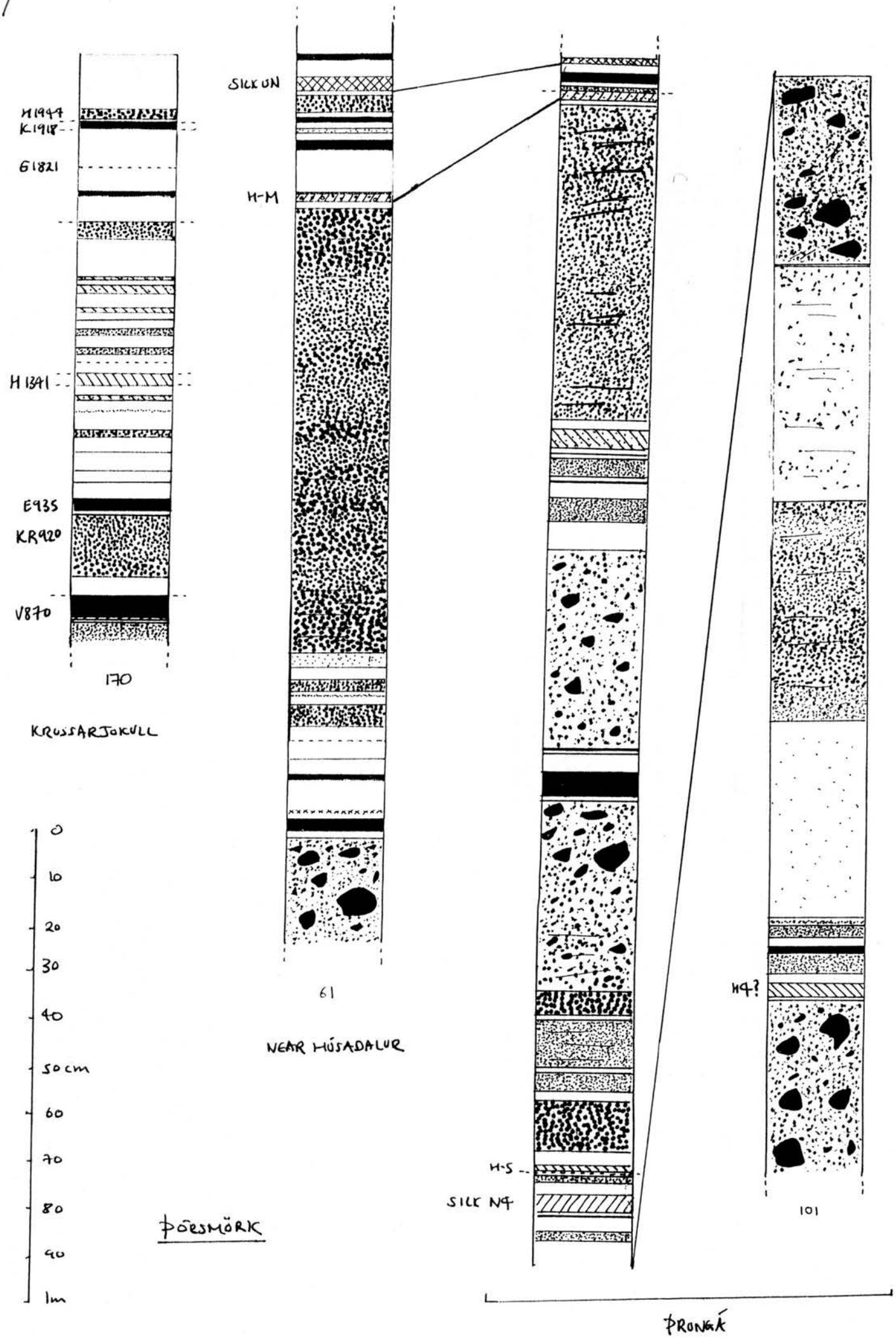
162

Opposite Eyjafjallajökull foreland

HUSÁ, BY SÓLHEIMAJÖKULL

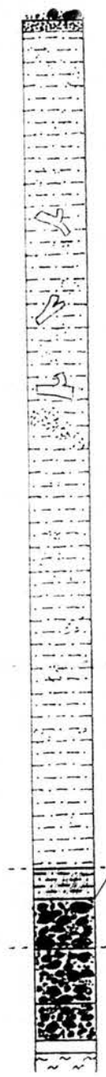


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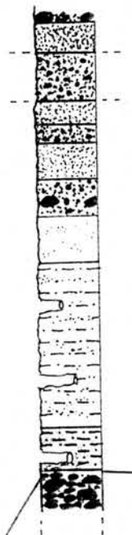

H1947
K1918
G1821
H1341
E935
KR920
V870
170
KRÚSARJÖKULL
SILK UN
H-M
61
NEAR HÚSADALUR
0
10
20
30
40
50 cm
60
70
80
90
1m
ÞÓRSMÖRK
H-S
SILK N4
HQ?
101
ÞRONGÁ

DRUMBABOT

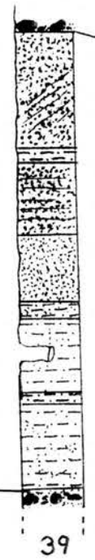




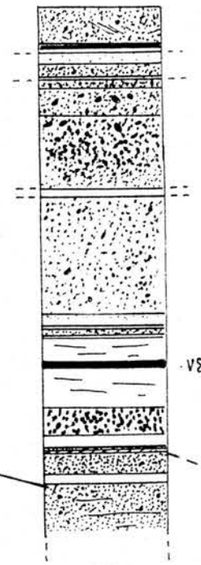
36



38

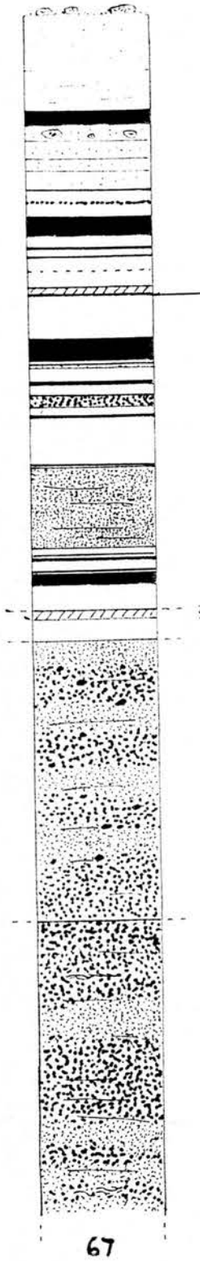


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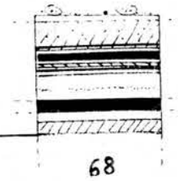


76

?



67



68

NORTH AURASEL

Trace of 'needle' tephra

Needle tephra (yellow/olive with elongated grains)

Trace pale tephra

White tephra
Yellow/olive tephra
Blue/grey tephra
} < 1mm grain diameter

} > 1mm grain diameter

Trace dark tephra (dark grey, brown or black)

Fine dark tephra <1mm

1-2mm
2-5mm
>5mm
} Coarse dark tephra

Clay or silt. Aeolian soil

Sand → Granules

Matrix supported massive pebbles to gravel

Deposit with cobbles to boulders.
Matrix supported, massive

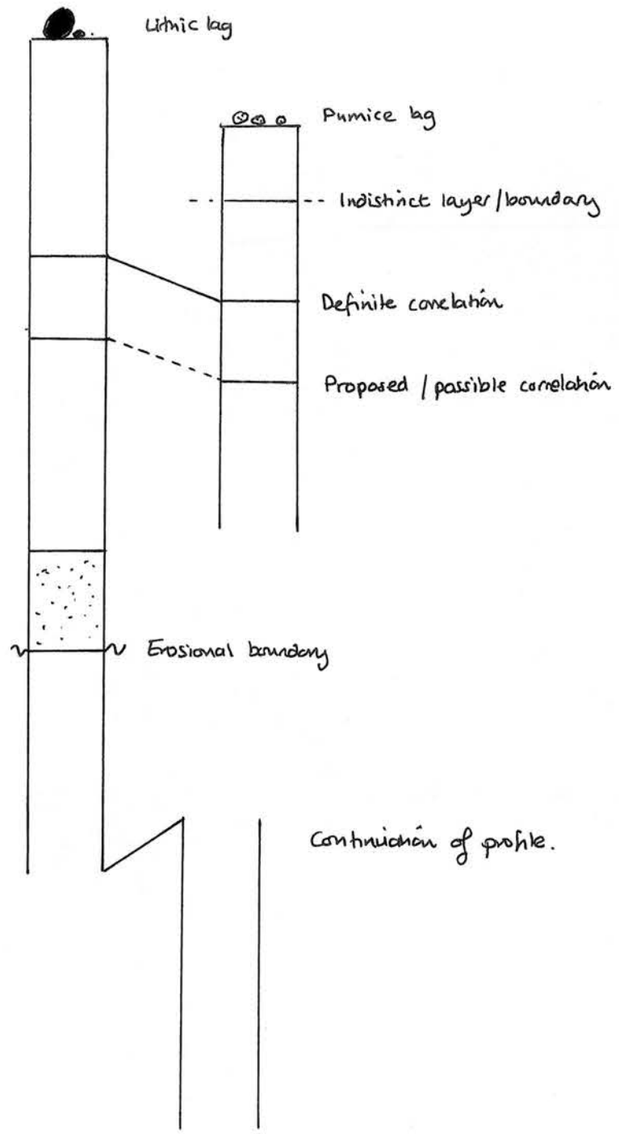
Clast supported

Horizontal or near-horizontal bedding

Cross bedding

Ripples / silt drapes

Enclosed pocket of sediment.
(in this case sand → granules with
pocket of fine olive-yellow tephra.



TEPHRA LOG KEY

10

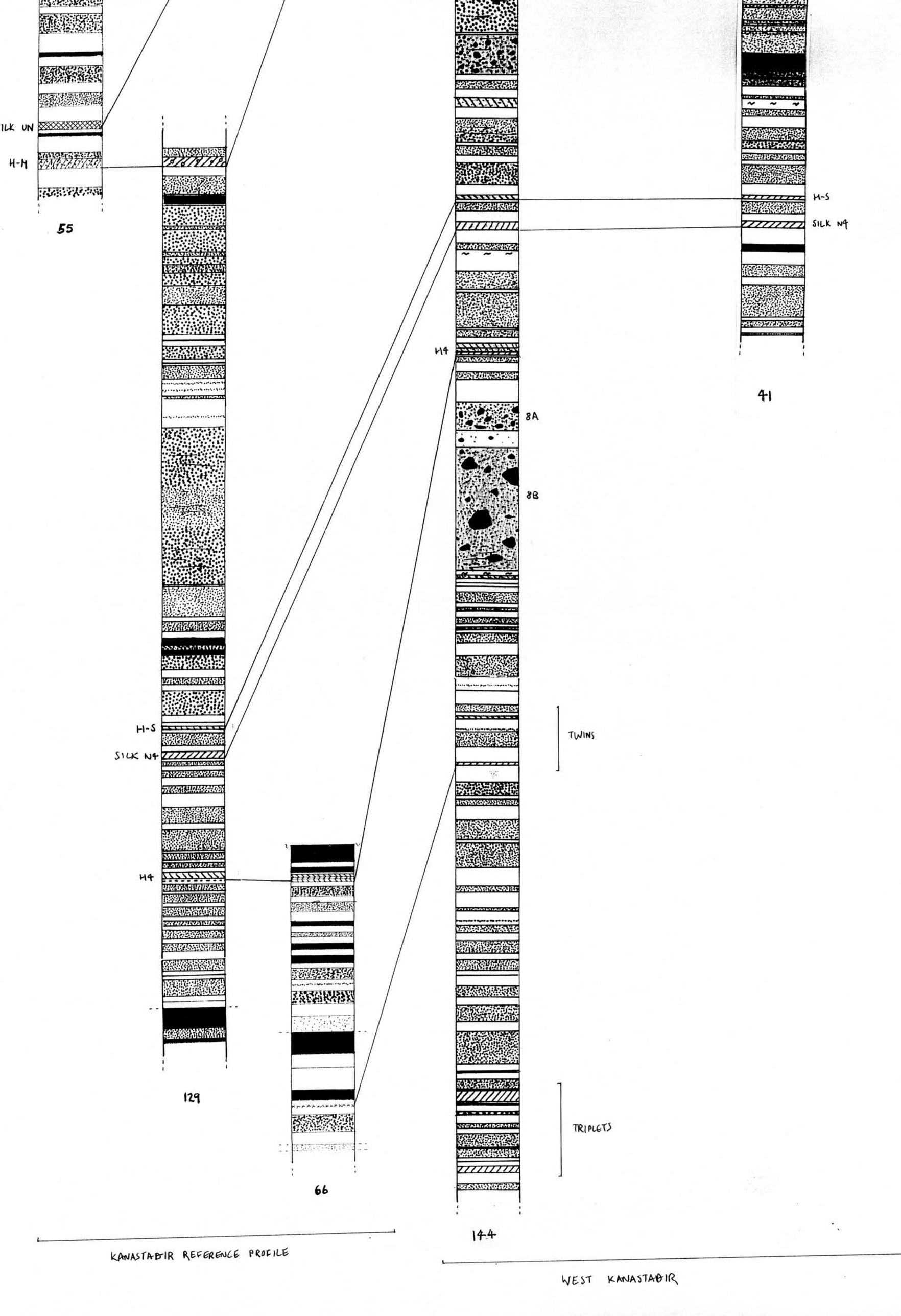
KANAJTADIR AND WEST KANAJTADIR

H1947
KL918
E1821
KL755?
KL721?
HL597?
HL510?
KL500
HL341
E935
KR920
V870
LAYER H
SILK YN

SILK UN
H-M
MN/LN?

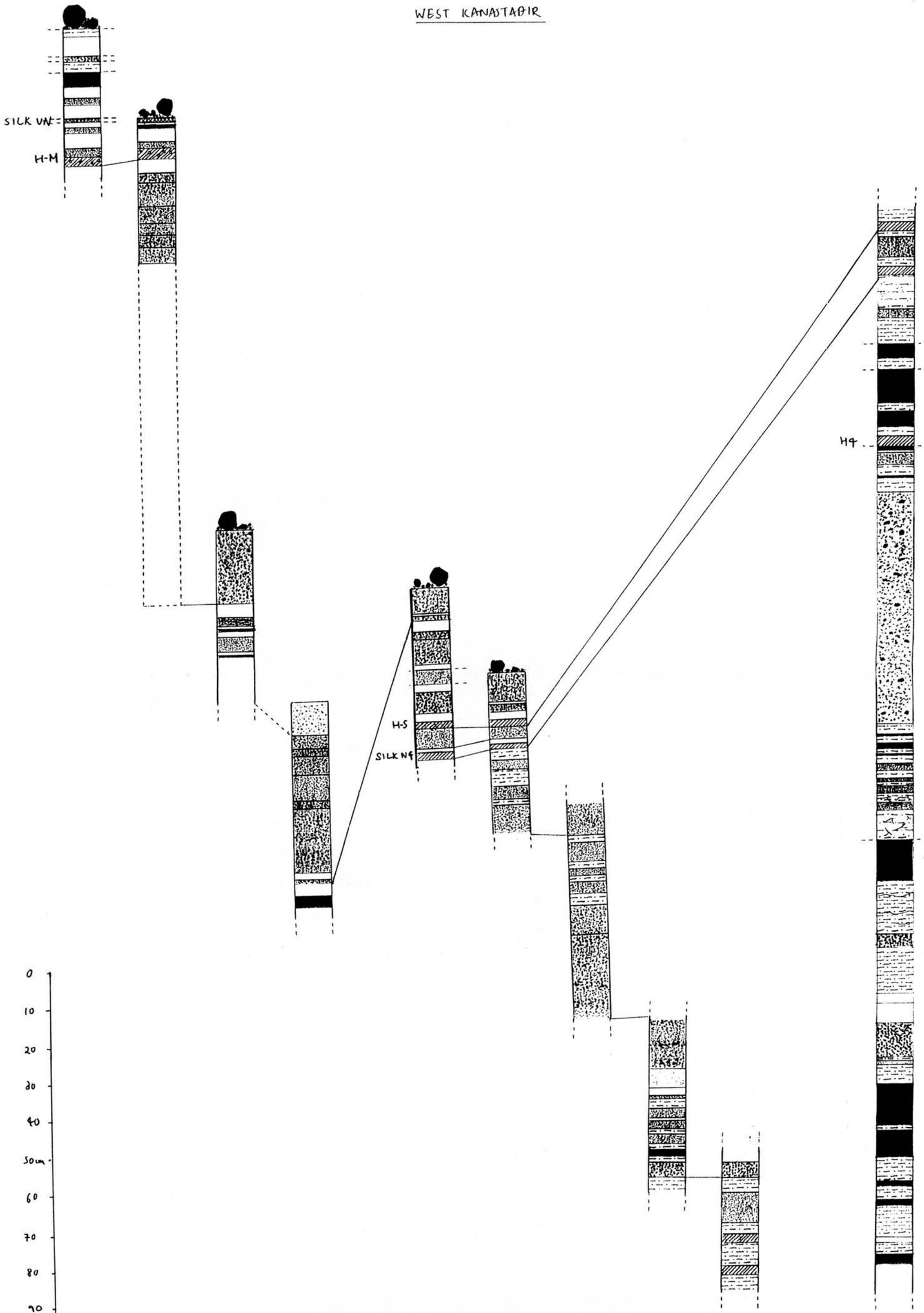
H-M

0
10
20
30
40
50 cm
60
70
80
90
1m


ILK UN
H-4
55
H-5
SILK N4
129
H4
66
H4
8A
8B
TWINS
TRIPLETS
144
H-5
SILK N4
41
KANASTABIR REFERENCE PROFILE
WEST KANASTABIR

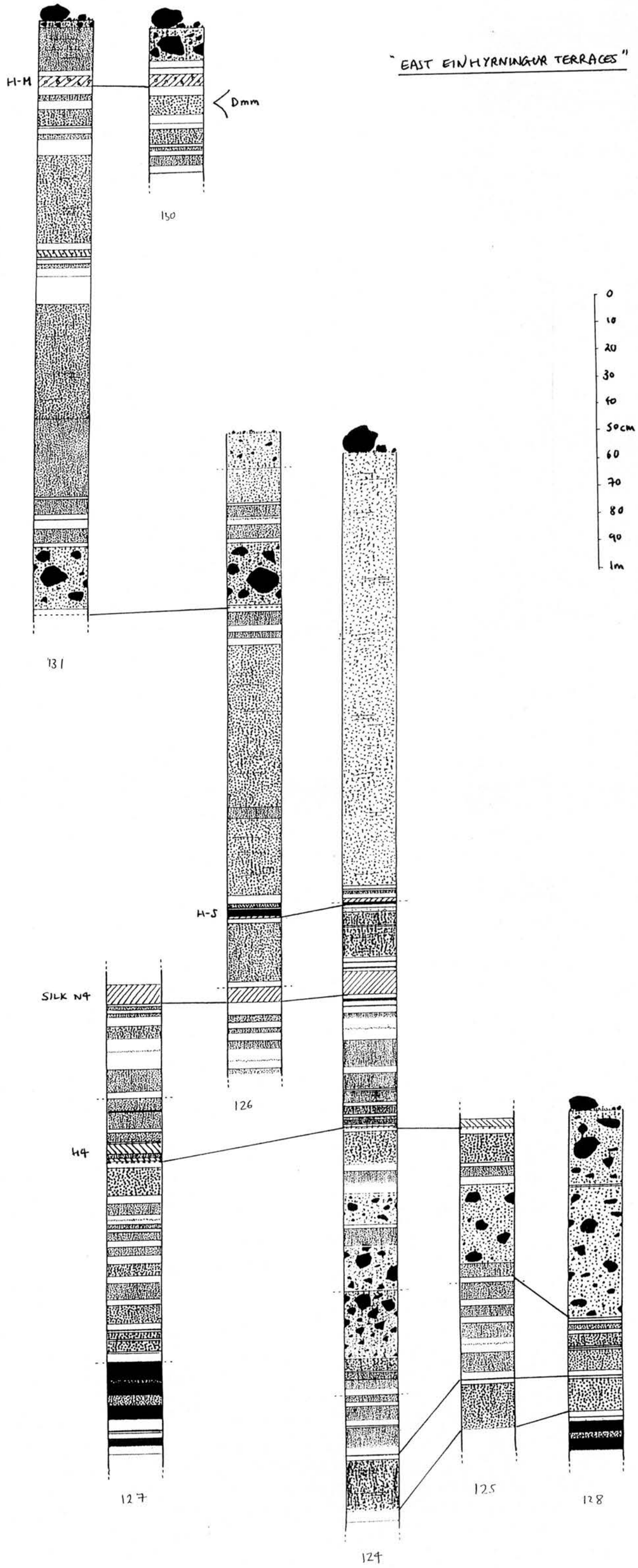
11/

WEST KANASTABIR



12/

"EAST EINHYRNINGUR TERRACES"



3/

H1997

IC1918

E1821

H1510

K1500

H1241

E935
KR920

V870

0
10
20
30
40
50 cm
60
70
80
90
1m

77

LAYER H

H

100C

100A

100B

82

LAYER H

81

SILKYN

79

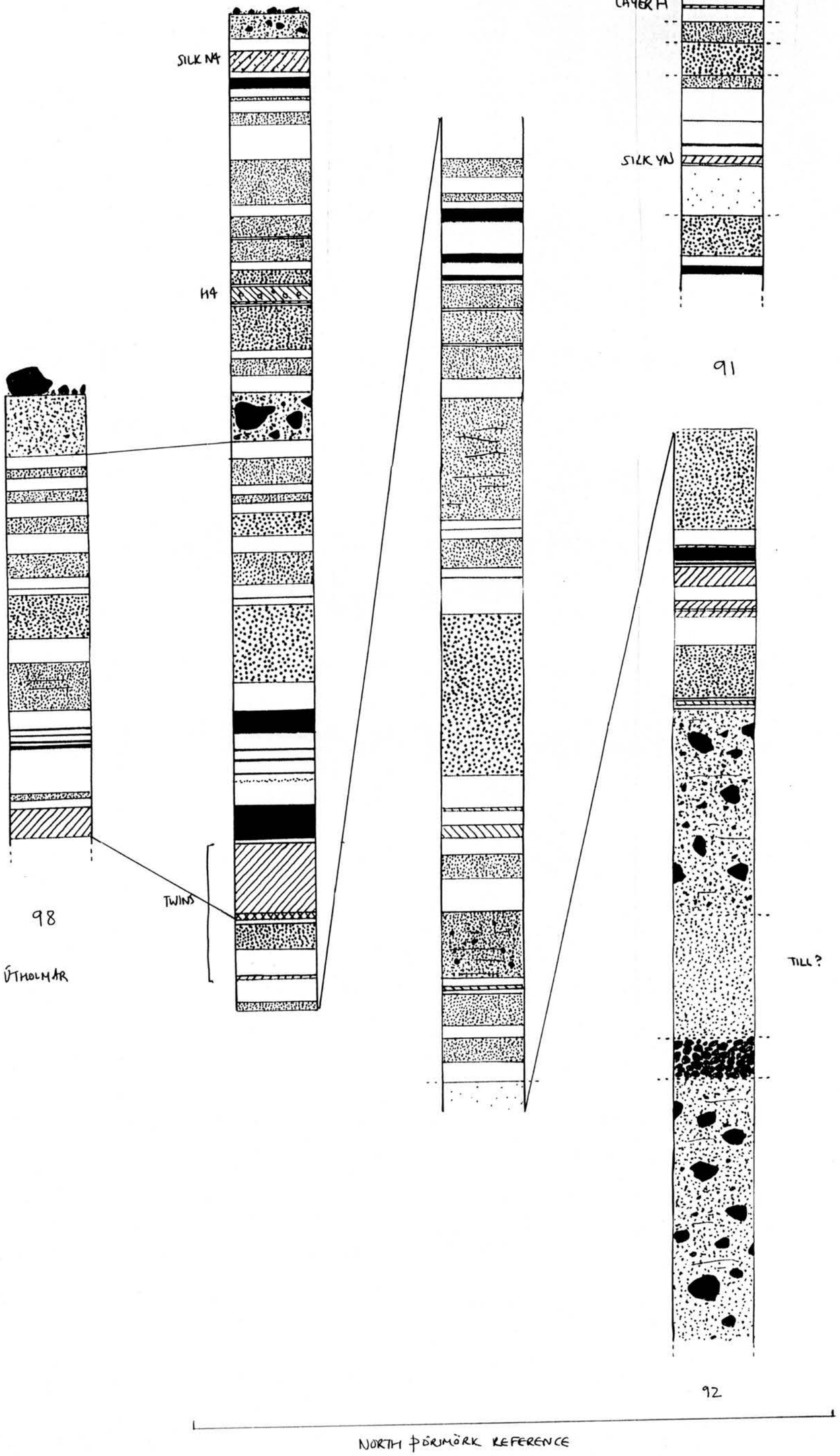
80

ÞRONGÁ MOUTH (100)

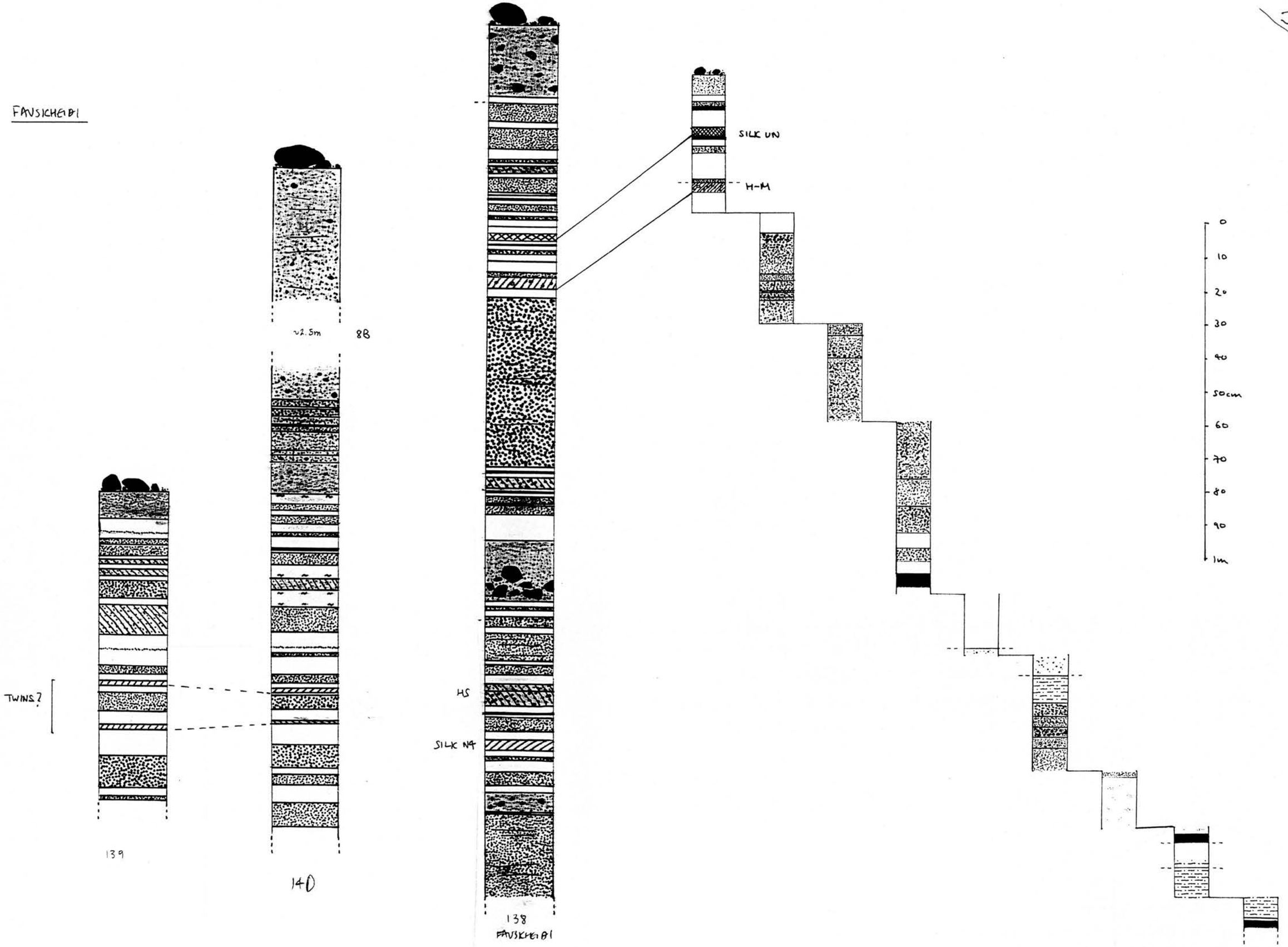
NORTH ÞÓRSMÖRK

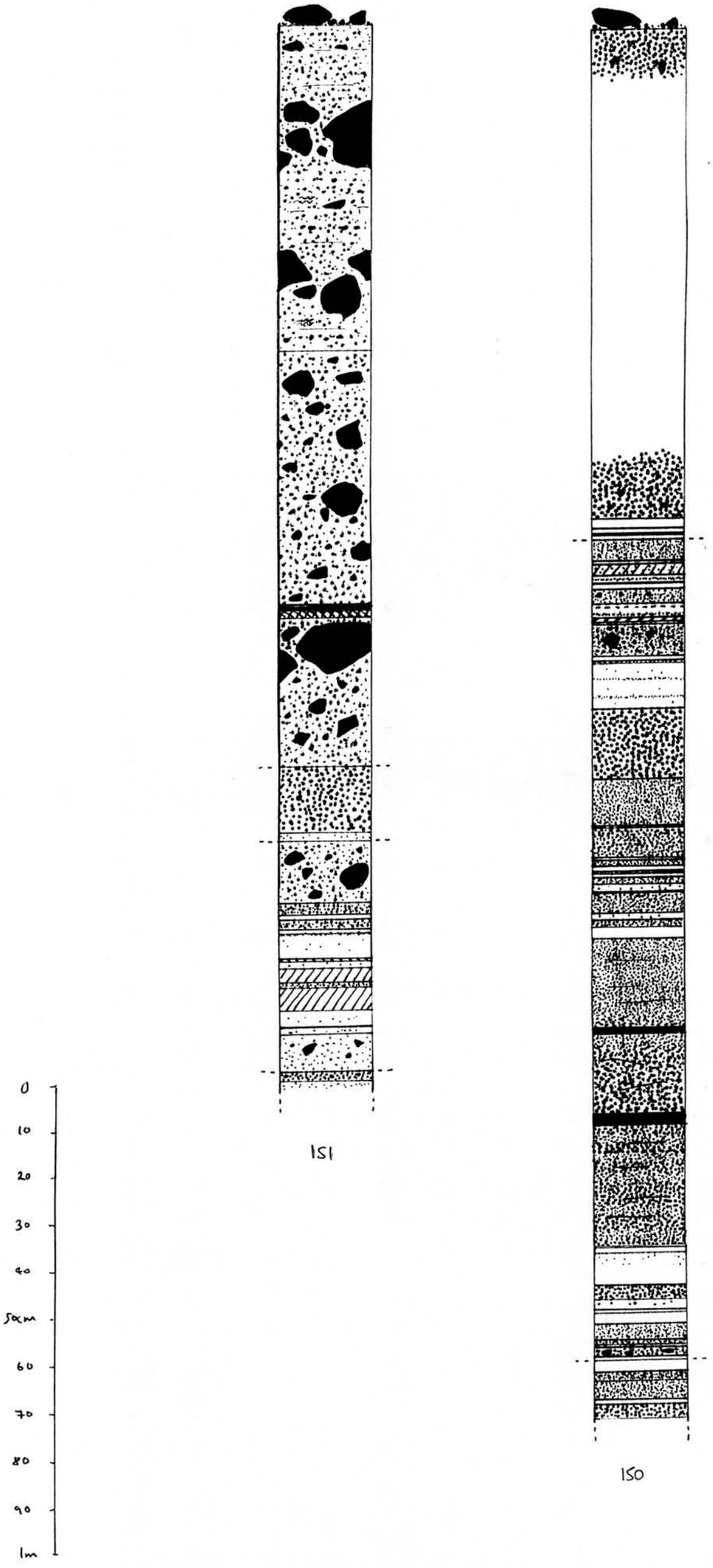
14/

NORTH ÞÓRSMÖRK

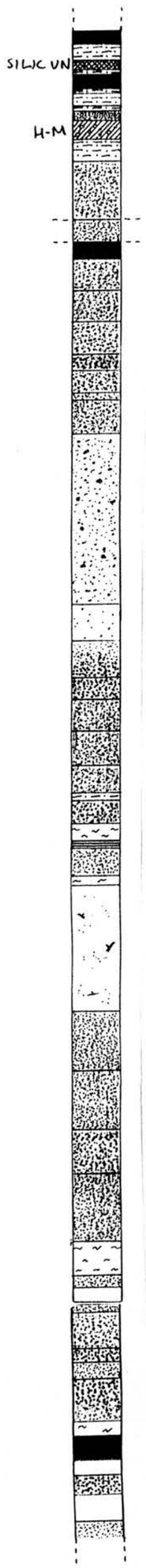


FAUSCHEID1


SILK UN
H-M
0
10
20
30
40
50cm
60
70
80
90
1m
~2.5m
8B
TWINS?
HS
SILK N4
139
140
138
FAUSCHEID1


BOTN
115
151
150
0
10
20
30
40
50cm
60
70
80
90
1m

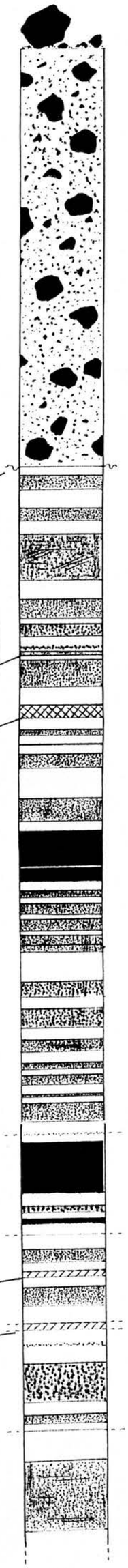
"HALLI'S ISLAND"



44



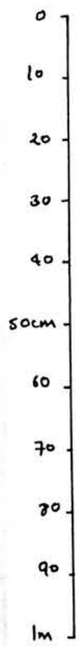
43



117



145



W

E

H1206?

E935?

122

121

120

119

H1391?
H1310

H1206?

118

110

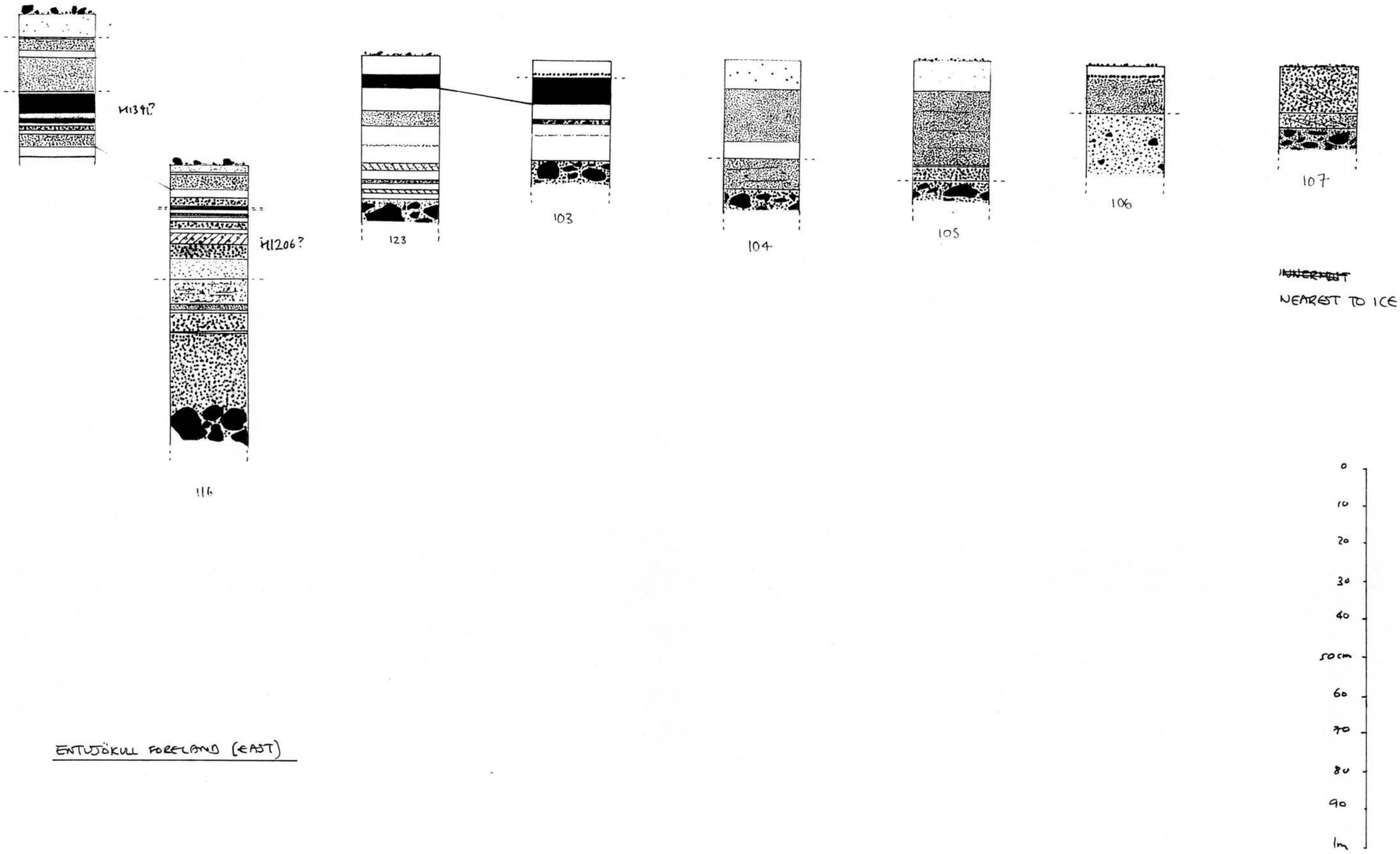
0
10
20
30
40
50cm
60
70
80
90
1m

FARTHEST FROM ICE

ENTUJÖKULL FORELAND (WEST)

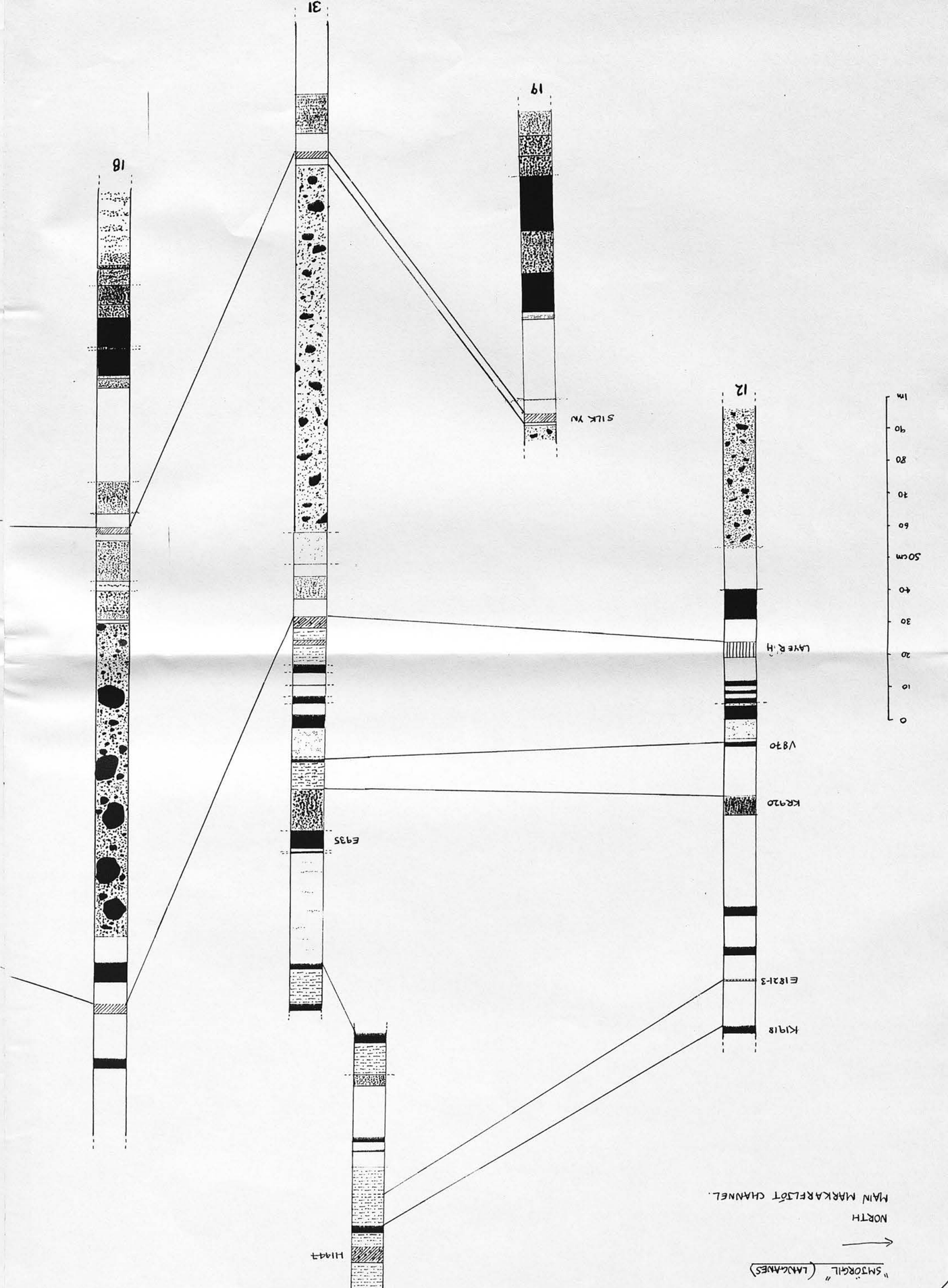
W TOWARDS MARKARFLJÓT ←

TOWARDS ENTUJÖKULL → E



ENTUJÖKULL FORELAND (EAST)


9
10
16
8
11
LAYER H


31
18
19
12
SILK YN
LAYER H
50cm
0
10
20
30
40
60
80
90
1m
V870
KR920
E935
E1821-3
K1918
H1944
NORTH
MAIN MARKARFLJÓT CHANNEL.
"SMÍÐRGIL" (LANDGANGES)

→
SOUTH
EYJAFJÖLL
VALLEY SIDE

E1821

H1341?

LAYER H

SILKYN

20

28

26

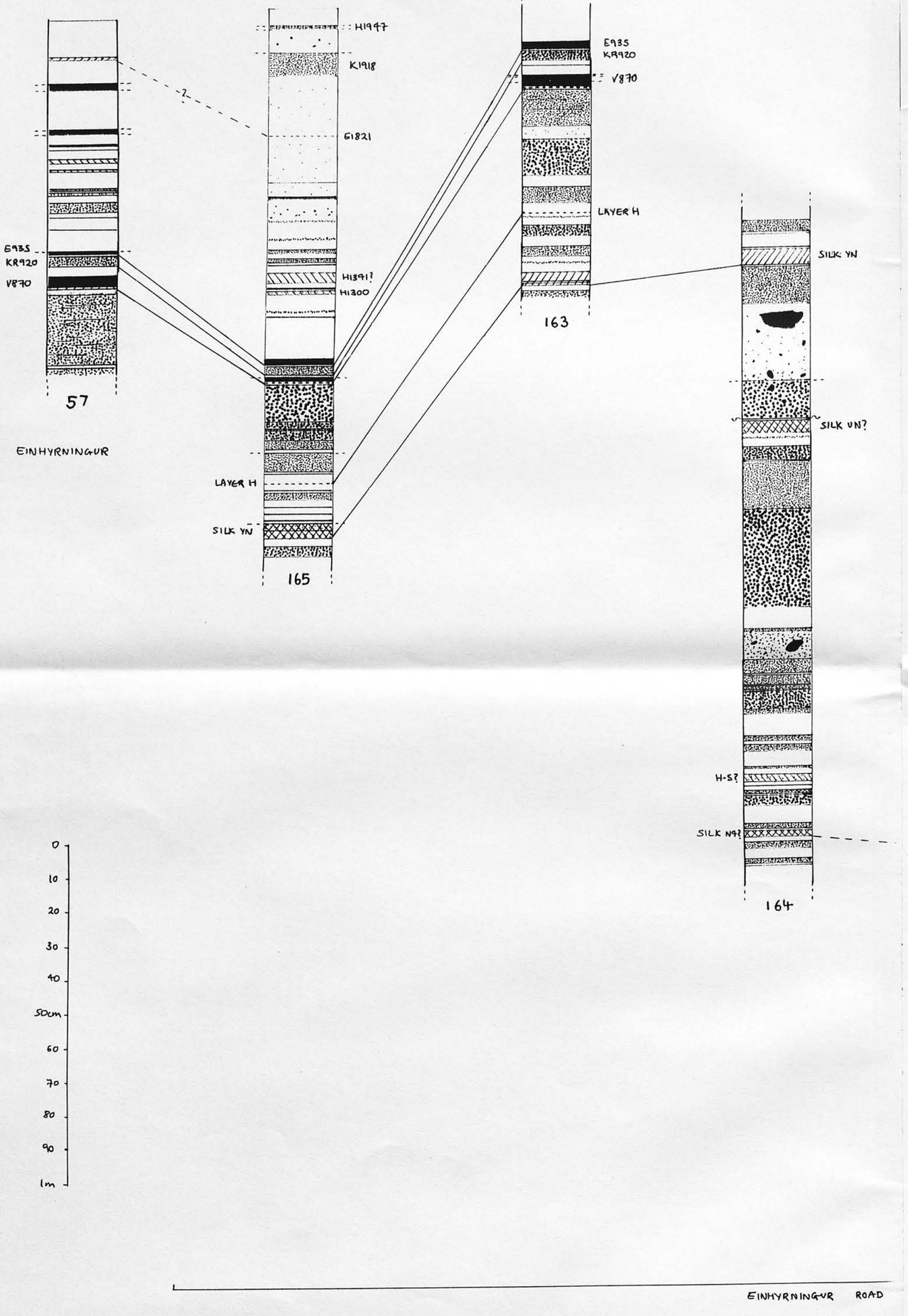
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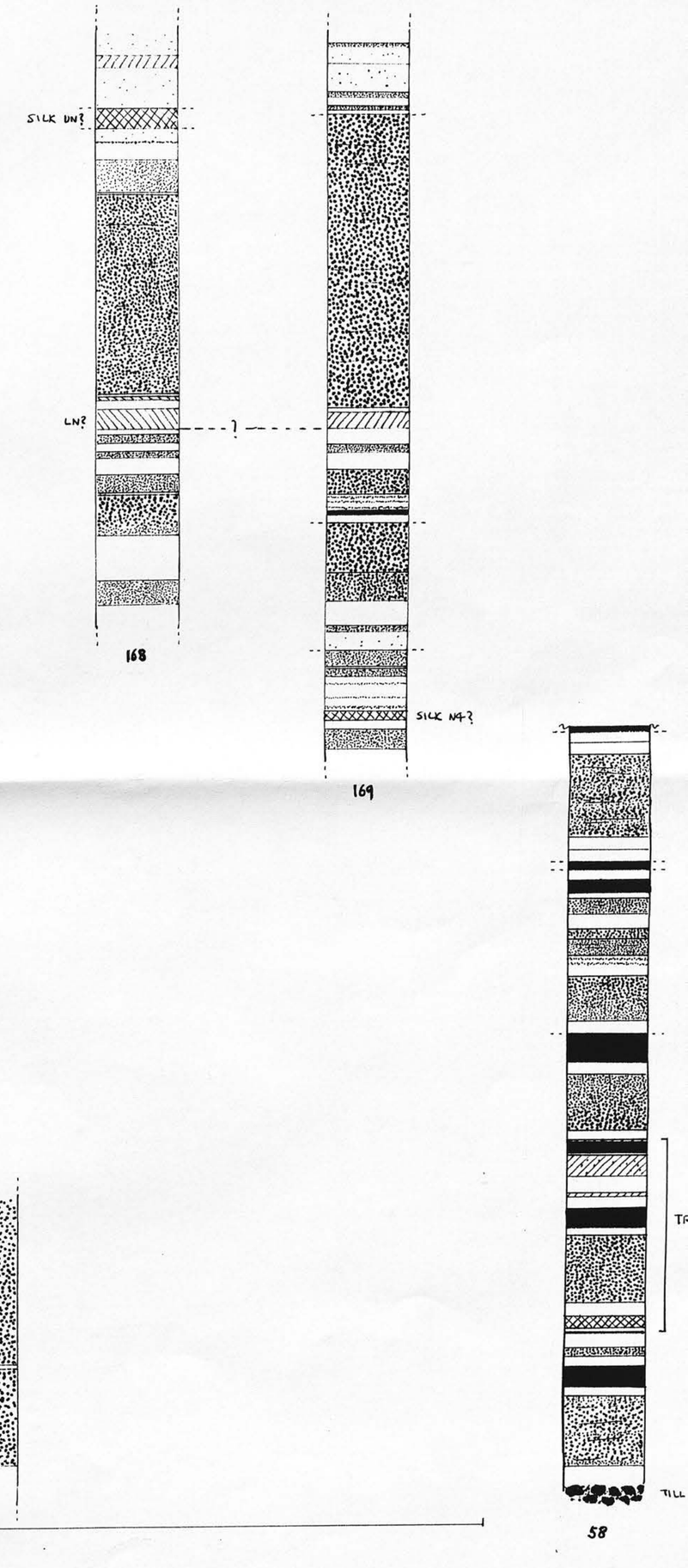
27

LANGANES AND
EYJAFJÖLL

H1947
K1918
E1821
V870
LAYER H
SILK YN
KR920
LAYER H
SILK YN
23
14
24
SILK UN
H-M
30
5

H1510
K1500
H1341
E935
LAYER H
32
V870
171
H1947
K1918
E1821
KR920
LAYER H
146
LAMBAFELLSHEIÐI
SELJALAND


H1997
K1918
G1821
E935
KR920
V870
H1391?
H1300
LAYER H
SILK YN
57
EINHYRNINGUR
163
E935
KR920
V870
LAYER H
SILK YN
SILK UN?
165
H-S?
SILK N4?
164
0
10
20
30
40
50cm
60
70
80
90
1m
EINHYRNINGUR ROAD SECTION


SILK UN?
LN?
168
SILK N4?
169
SILK N4?
H4?
166
167
TILL
58
EINHYRNINGUR

NORTH ASHMOREK



MARKARFLJÓT

EMSTRUR

HATTAFELLSGIL

F261 (road)
also 8 limit S/E1

MARKARFLJÓT

WATERSHED

"BOTN BASIN"

"BOTN BASIN"

HUT

BOTNÁ

161
160

162

115, 150, 151

EMSTRUR

HATTAFELLSGIL

MARKARFLJÓT

WATERSHED

"BOTN" BASIN"

"BOTN" BASIN"

HUT

BOTNÁ

STÓRA-HÖFÐI

"WESTERN PLATEAU"

"EASTERN PLATEAU"

SANDAR

SYÐRI EHSTRÁ

"STÓRA-MÓFELL"

LANGHÁLS

WATERSHED

CHANNEL

SLYPPUGIL

BJÓRGIL

NORTH ÞÓRSMÖRK BIG CHANNEL

ENTUJÖKULL
(SOUTHERN LOBE)

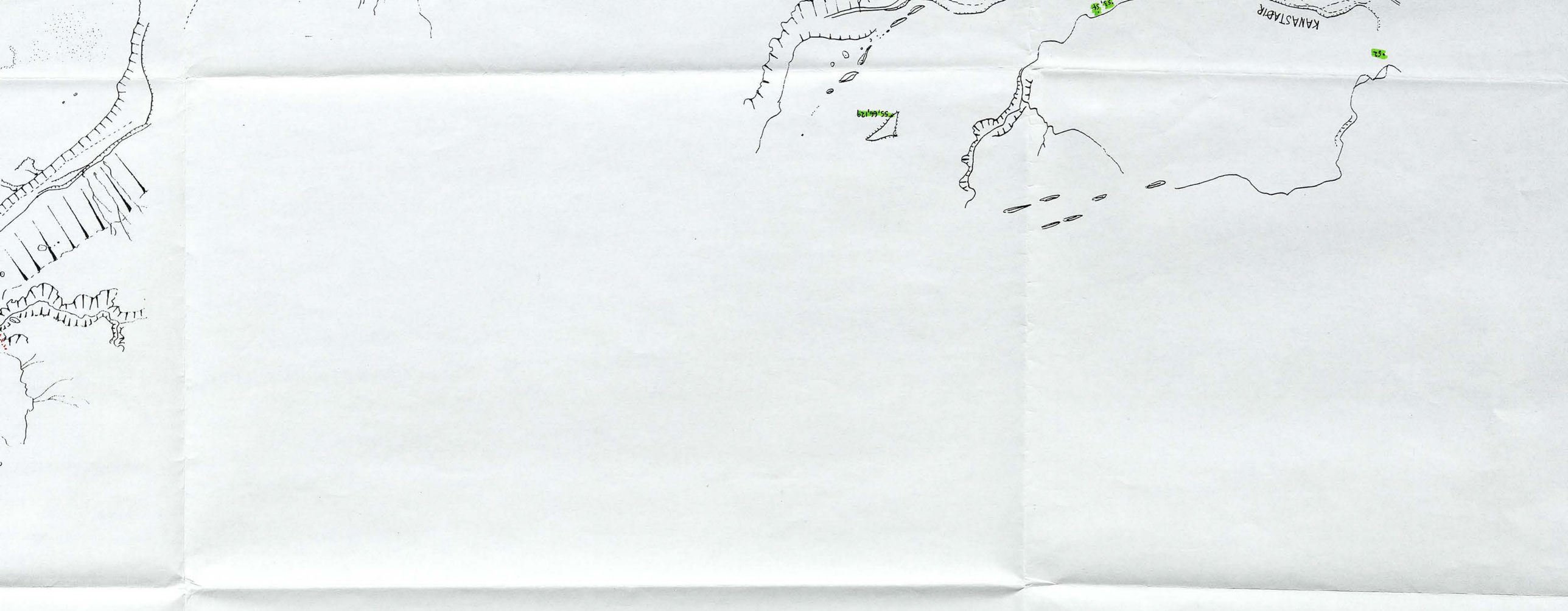
0 200m 400m 600m 800m 1km

N

UPPER VALLEY AND NORTH ÞÓRSMÖRK
EMSTRUR TO "BIG CHANNEL"



UPPER VALLEY AND NORTH ÞÓRSMÖRK


KANASTAGIR

EINHYRNINGUR

EINHYRNINGSFLÁTIR

"EAST EINHYRNINGUR TERRACES"

MARKARFLJÓT

"NORTH ÞÓRSMÖRK BIG CHANNEL"

F4.3.24c

F5.6.2

'BIG HILL'

F4.3.24

ÚTHÓLMAR

LJÓSÁ

TRÖLLAGJÁ

GRÁFELL



MIDDLE TO LOWER VALLEY

NORTH ÞÓRSMÖRK TO HALLI ISLAND

KANASTAÐIR

GILSÁ

FAUSKHEIÐI

TRÖLLAGJÁ

KLAPPIR

HAMRASKÓGAR

"HALLI ÍSLAND"

MARKARFLJÓT

ÞÓRSMÖRK

HÚSADALUR

Holocene jökulhlaups, glacier fluctuations and palaeoenvironment, Mýrdalsjökull, South Iceland.

Volume 2

Figures

Appendices

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Ph.D.

University of Edinburgh

2003

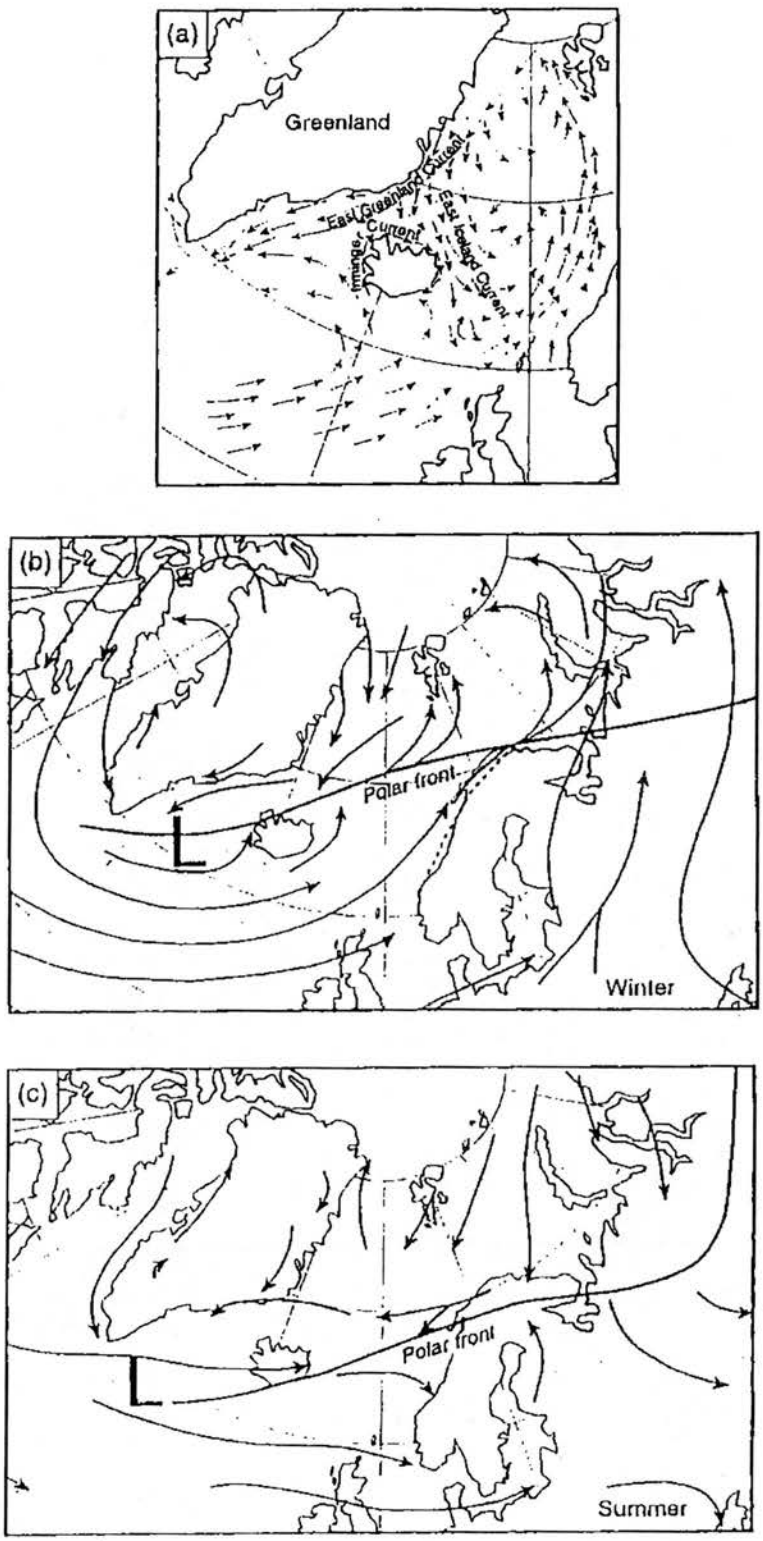


Figure 1.1.1: Atmospheric patterns and oceanic currents around Iceland. Chart (a) shows mean oceanic conditions around Iceland. North Atlantic Drift waters are located to the south of Iceland. Charts (b) and (c) show mean atmospheric conditions around Iceland in winter (b) and summer (c). These conditions prevail when the climate of Iceland is dominated by a strong Icelandic low (L). *From Mackintosh (2000; Figure 1.2).*

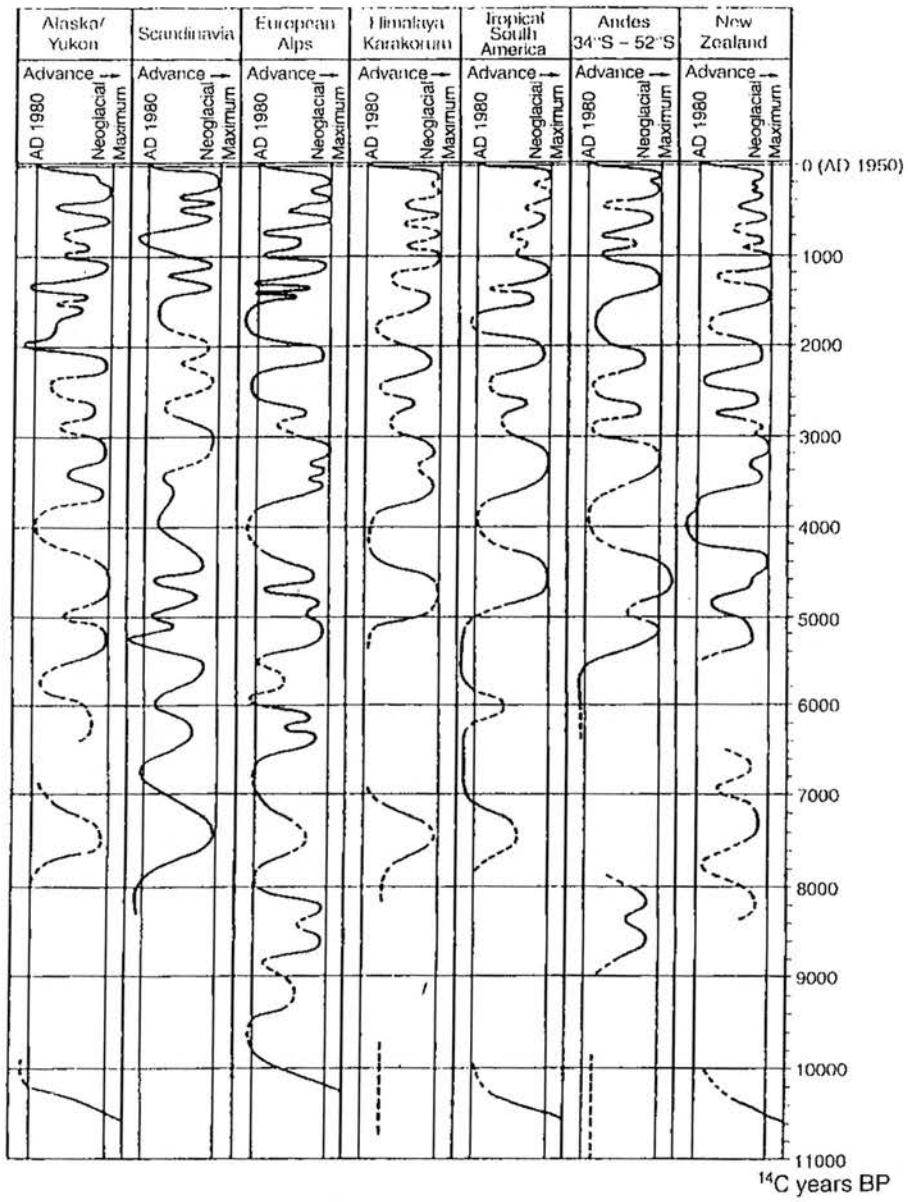


Figure 1.2.1: Röthlisberger's comparison of Holocene glacier fluctuations in the major glaciated regions of both hemsipheres. *From Grove (1988).*

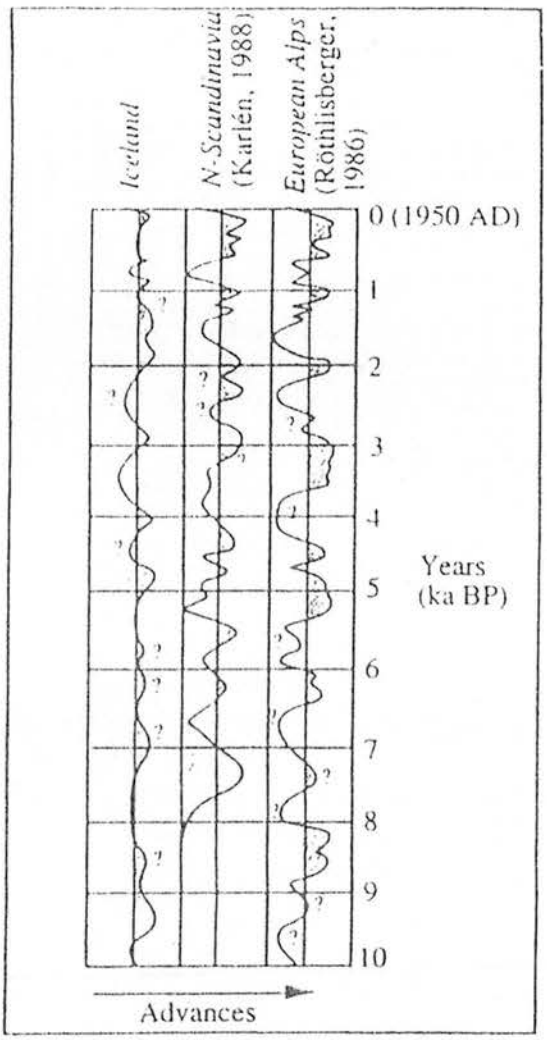


Figure 1.2.2: Comparison of Holocene glacier fluctuations in Iceland, Scandinavia and the European Alps. *From Gudmundsson (1997)*

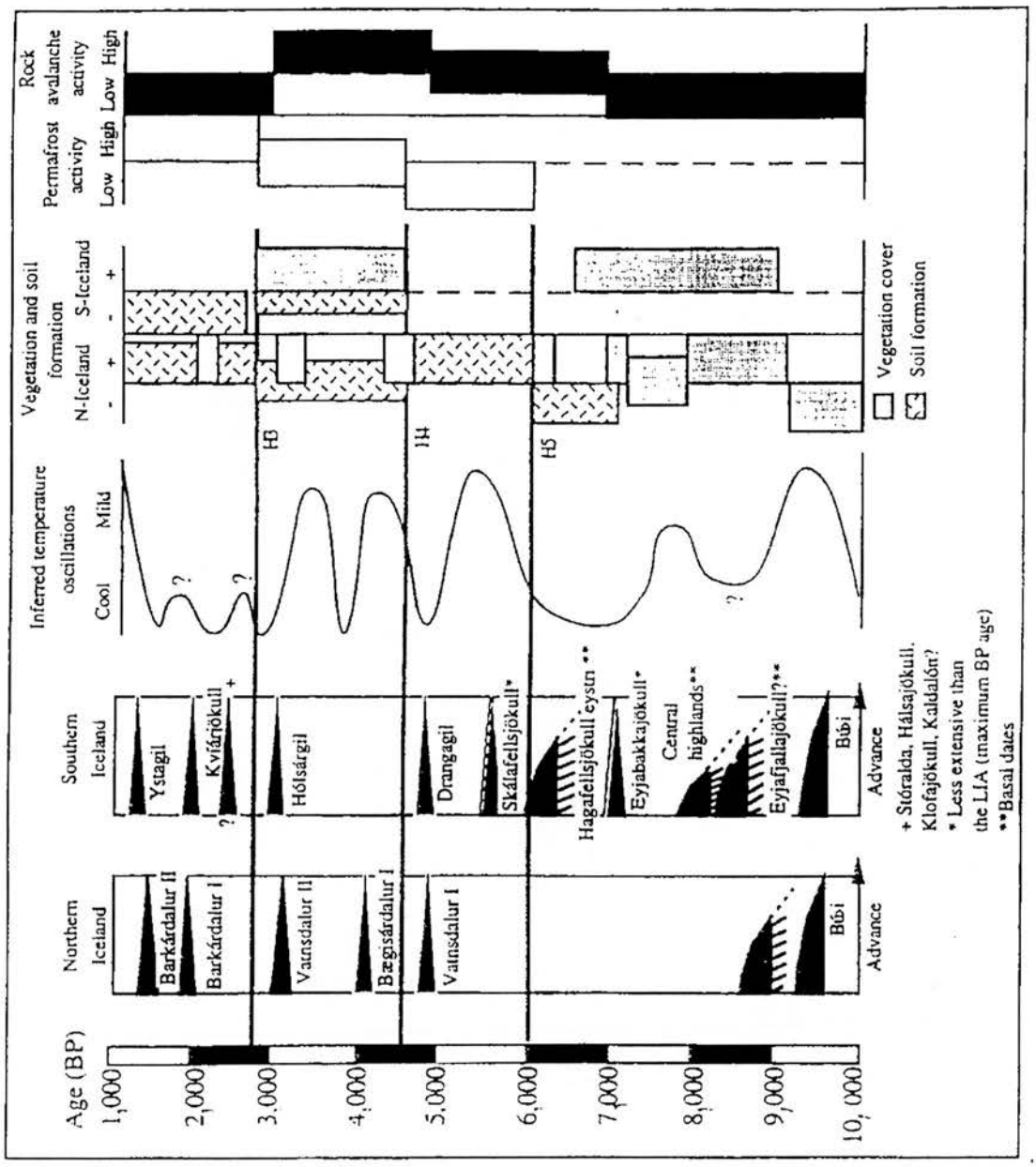


Figure 1.2.3: Holocene environmental change. Comparisons between changes in temperature, vegetation, soil development, permafrost activity and landsliding in relation to glacier fluctuation patterns. The temperature graph indicates tendencies only, showing the general changes in the given period based upon the observed environmental record and isotope analysis from Stötter (1994). The tephra layers are used as time markers rather than stratigraphic markers. *Compiled by Gudmundsson 91997; Figure 2).*

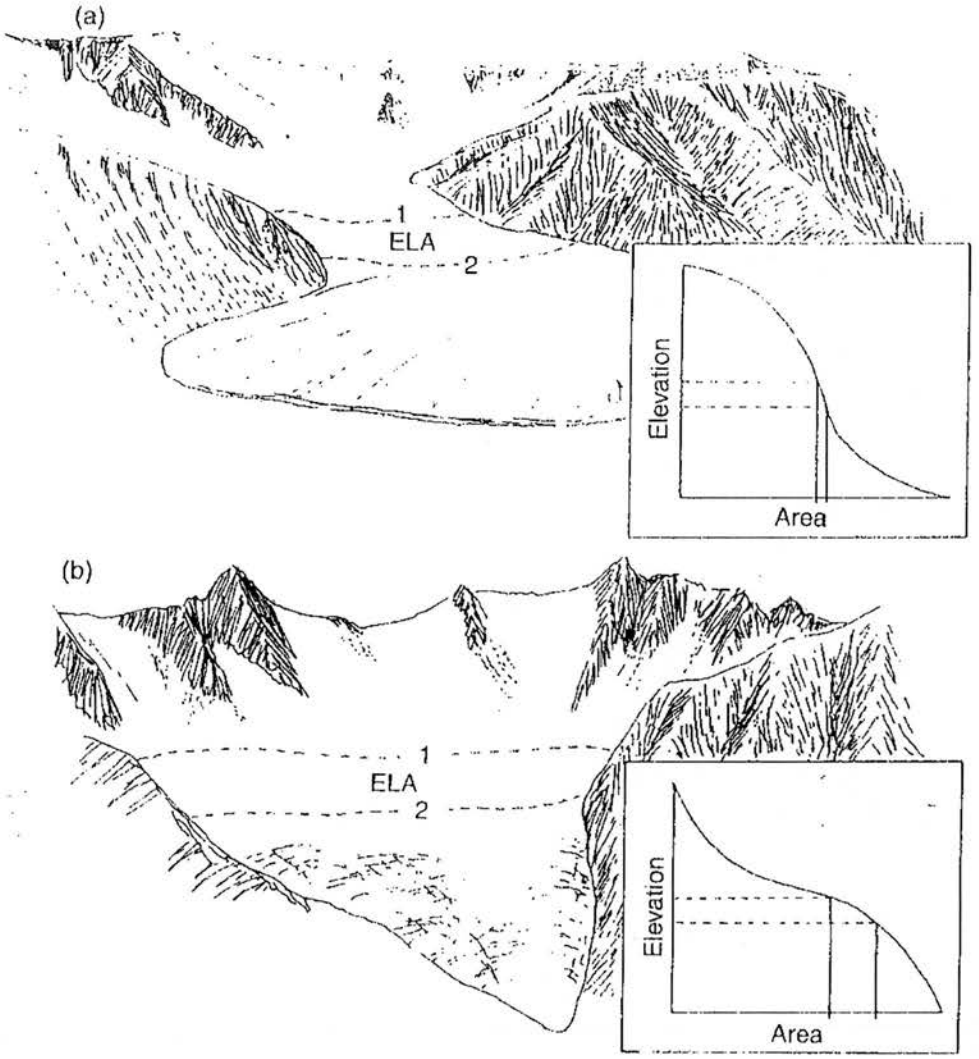


Figure 1.2.4: Effects of glacier hypsometry on glacial response to a change in equilibrium line altitude. Glaciers with large areas of snow and ice close to the ELA will experience large changes in mass with raising or lowering of the ELA and thus will respond most to climatic change. Glacier A has a small area close to the ELA and thus will experience a small change in mass balance with a change in ELA. Glacier B has a large area close to the ELA and changes in ELA will result in large changes in mass balance. *From Benn and Evans (1998; Figure 2.30.)*

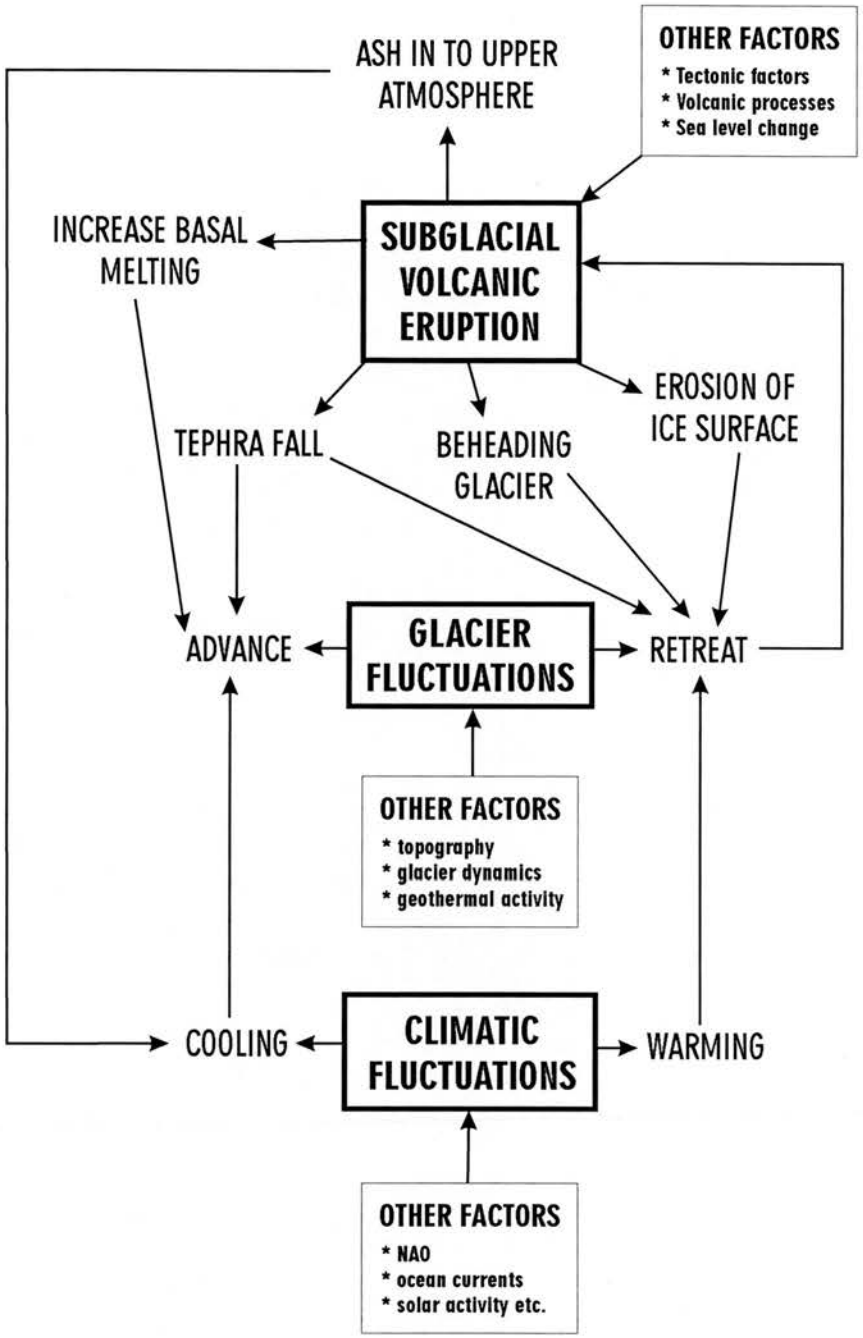


FIGURE 1.2.5: Flow diagram illustrating the interaction of volcanoes, glaciers and climate

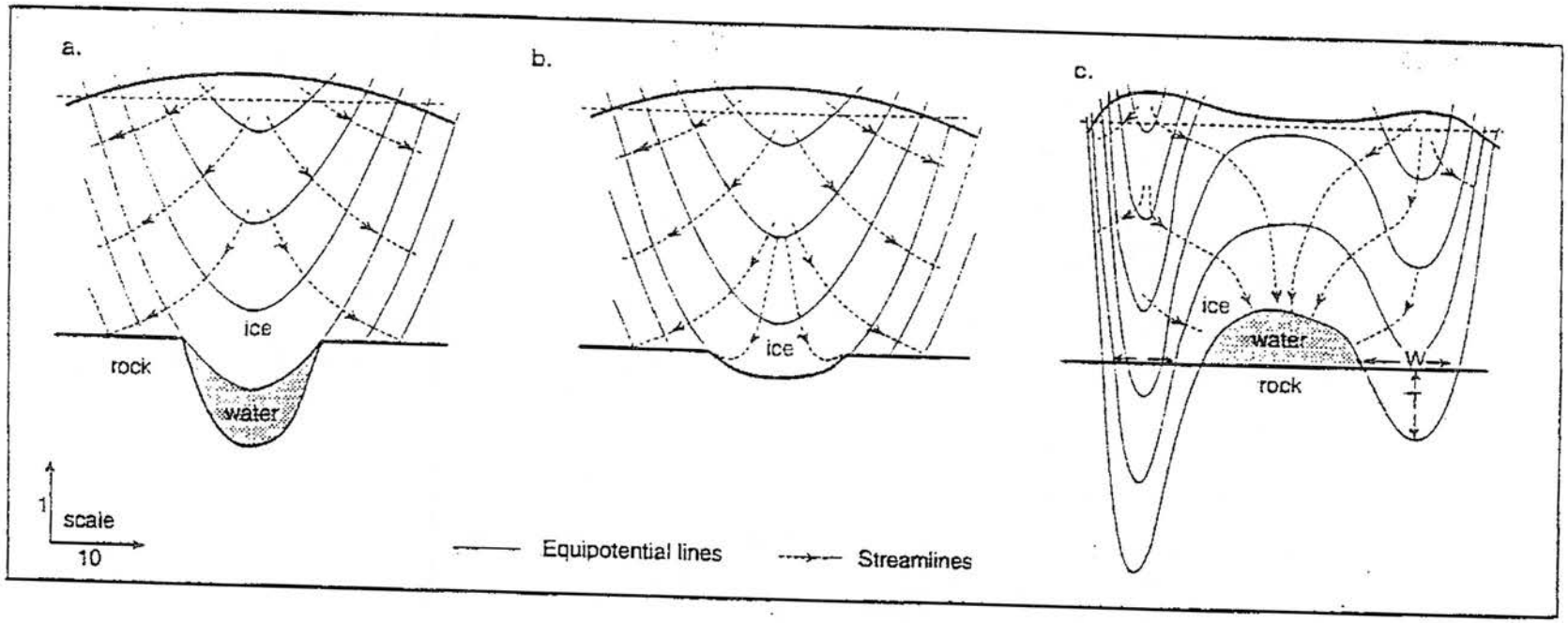


Figure 1.3.1: Subglacial lakes and equipotential surfaces. Lake (a) is formed in a subglacial depression and the surface of the lake is defined by an equipotential surface. Under normal conditions water cannot flow out of the depression against the hydraulic gradient. Water flowing into the shallow depression (b) beneath an ice dome can escape along the glacier bed following the potential gradient. A subglacial cupola will form beneath an ice surface depression (c). Water beneath the depression will be routed into the cupola and is prevented from escaping by an ice dam where overburden pressure from the ice exceeds water pressure. Lake expansion will cause the dam to narrow and eventually drain. *From Benn and Evans (1998; Figure 3.3, adapted from Nye 1976).*

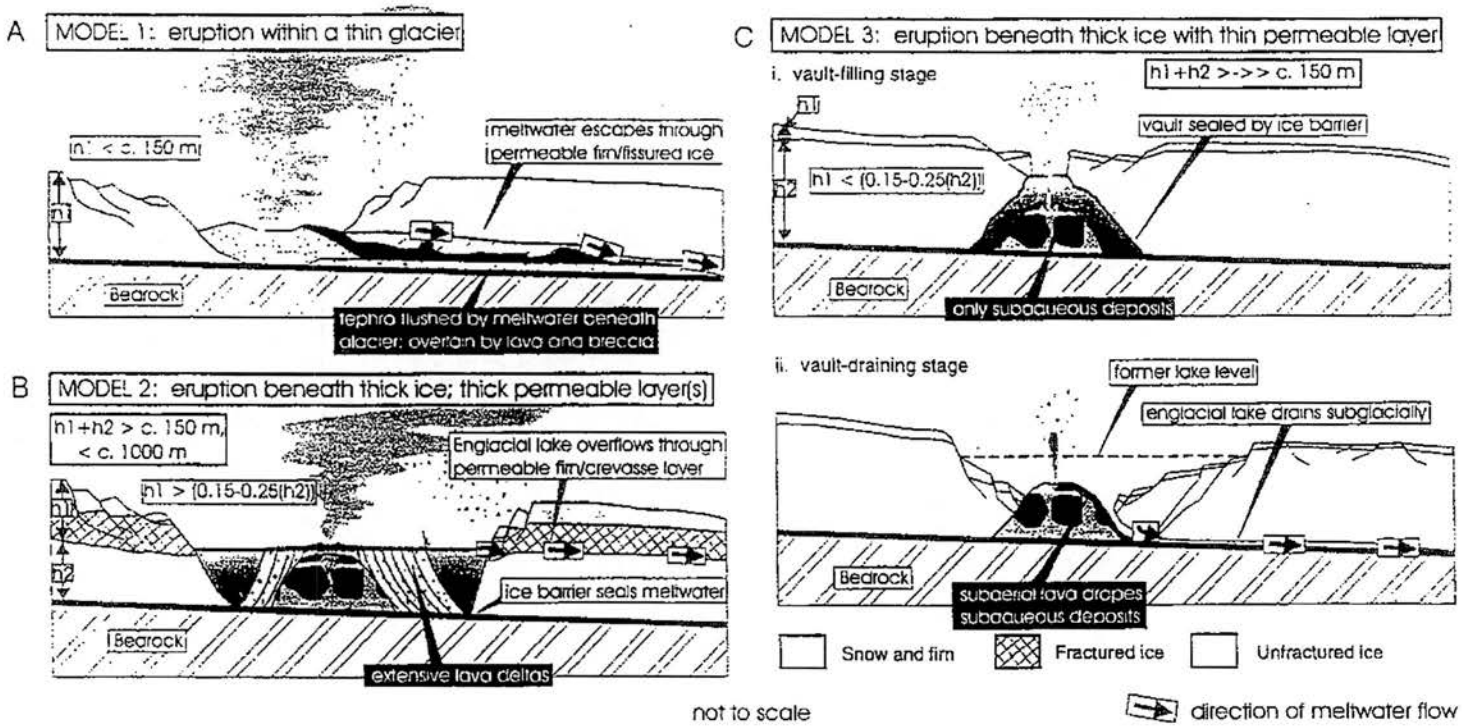
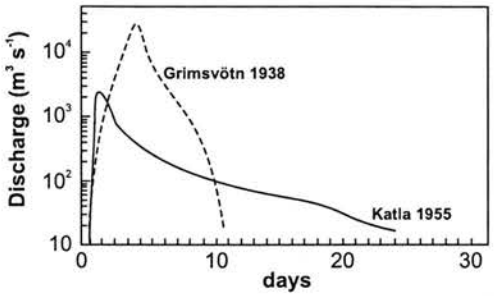
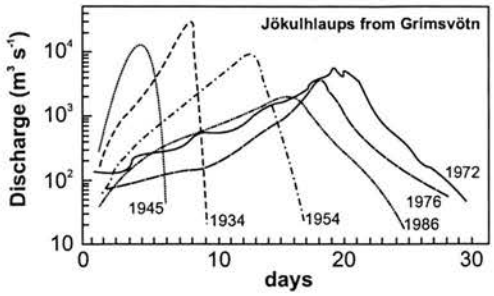


Figure 1.3.2: Three empirical models for subglacial eruptions beneath glaciers of different thickness. These models are based on the study of rock sequences. Different hydrodynamic conditions in each result in different volcano construction and rock sequences. *From Smellie (1999; Figure 6).*

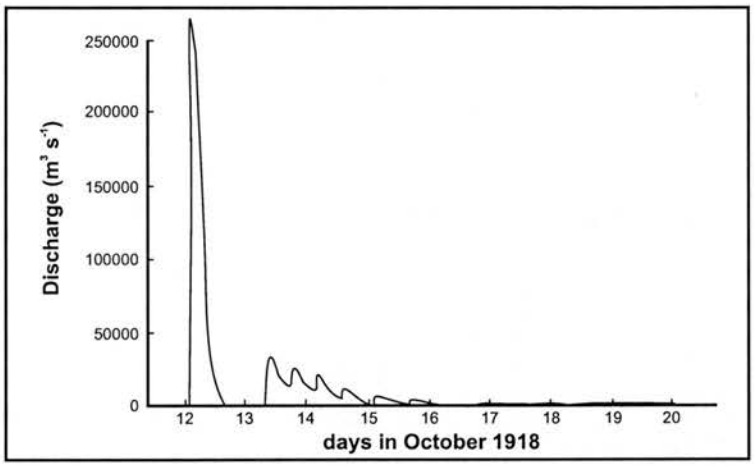
source: Björnsson, 1992, page 100



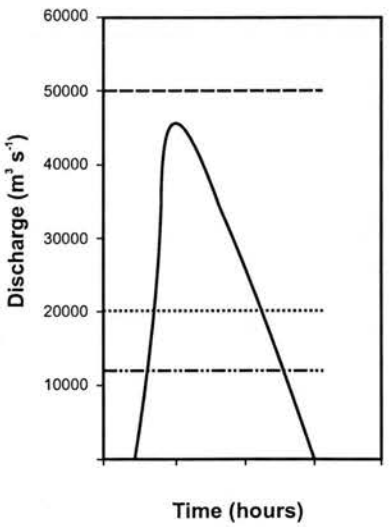
the jökulhaup from Grímsvötn in 1938 and the Katla area in 1955 (Thorarinsson, 1974; Rist 1967, 1976b)



Hydrographs of jökulhaups from Grímsvötn and Vatnajökull (Thorarinsson, 1974; Rist 1955, 1973, 1984; Kristinsson et al., 1986). The jökulhalups up to 1986 are scaled down according to new estimates of the total volume (Gudmundsson and Björnsson, unpublished).



reconstructed hydrograph for the Katla 1918 jökulhlaups (Tómason, 1996)



discharge Oct/Nov 1996

peak discharge which bridges are built to withstand

maximum expected peak discharge

1938 estimated peak discharge

data from the 1996 jökulhlaup has been graphed, left, to produce a hydrograph to compare with the above examples.

(source: data from various Internet sources and Gudmundsson et al, 1997).

Figure 1.3.3 Jökulhlaup hydrographs

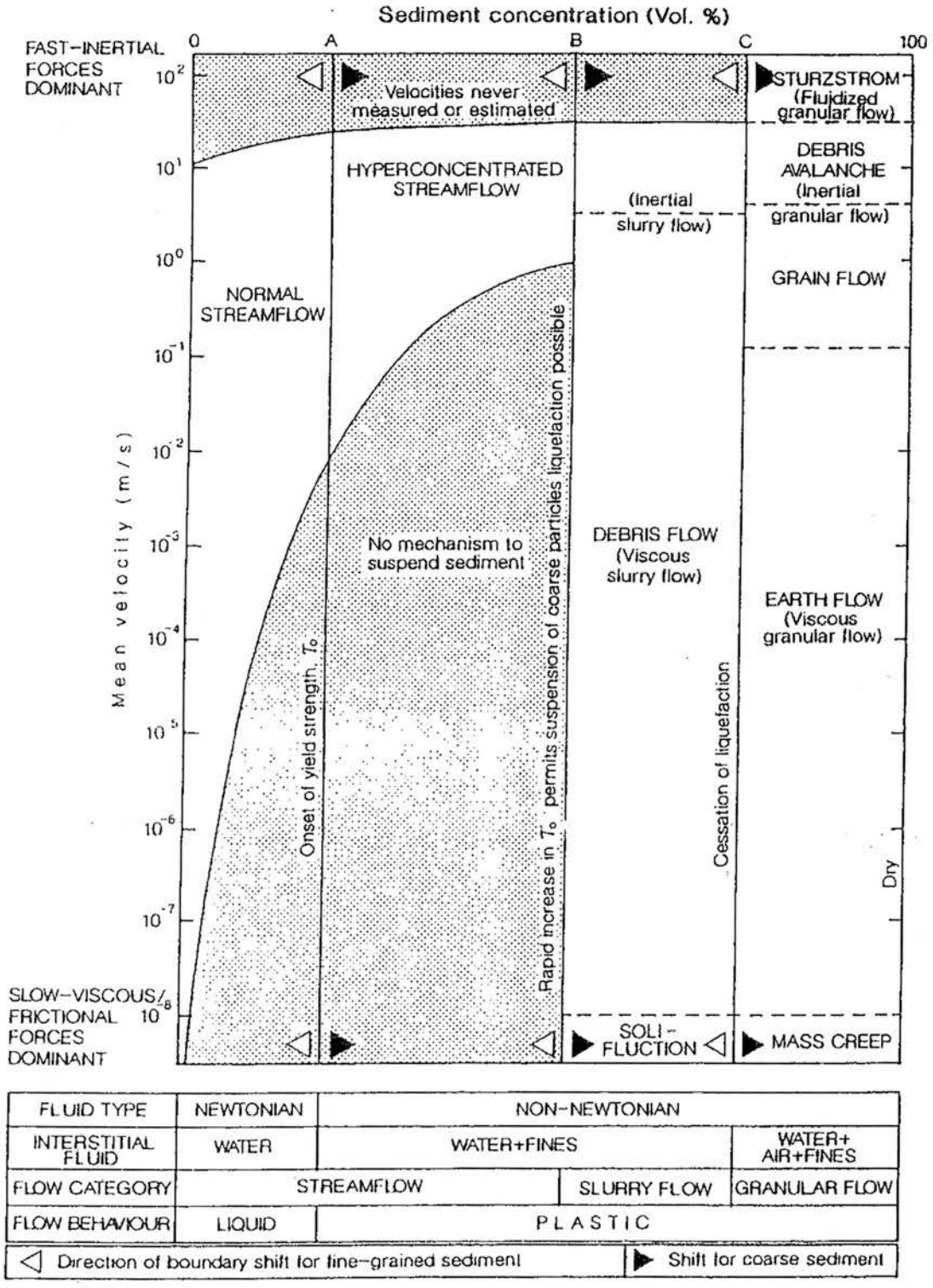


Figure 1.3.4: Rheological classification of flows proposed by Pierson and Costa (1987). Vertical boundaries A, B and C are rheological thresholds related to sediment composition, based in this case on a coarse, poorly sorted mixture. Horizontal boundaries are related to sediment concentration, grain-size distribution and density. Shaded zones reflect conditions not known in nature. *From Selby (1993; Figure 14.2).*

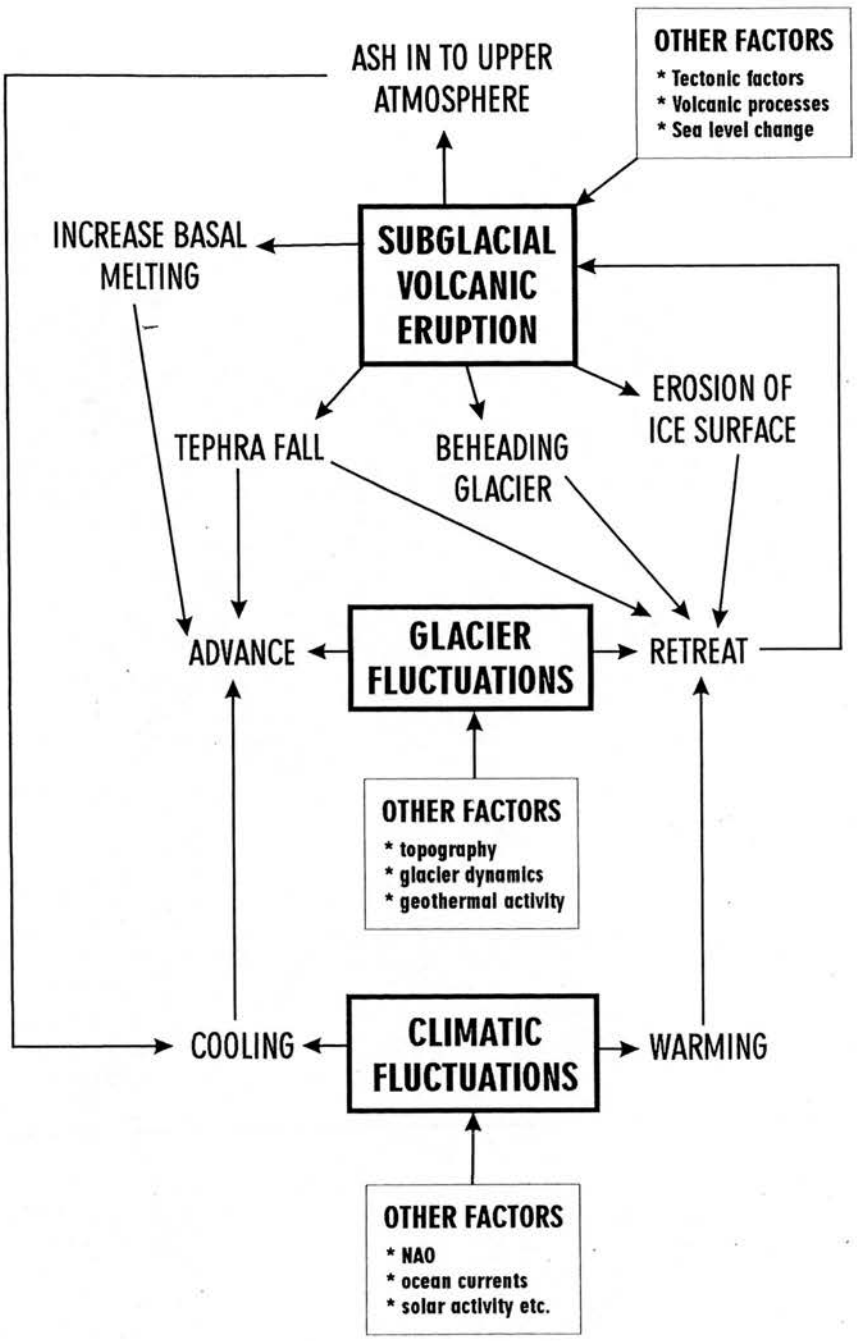


FIGURE 1.2.5: Flow diagram illustrating the interaction of volcanoes, glaciers and climate

a



b

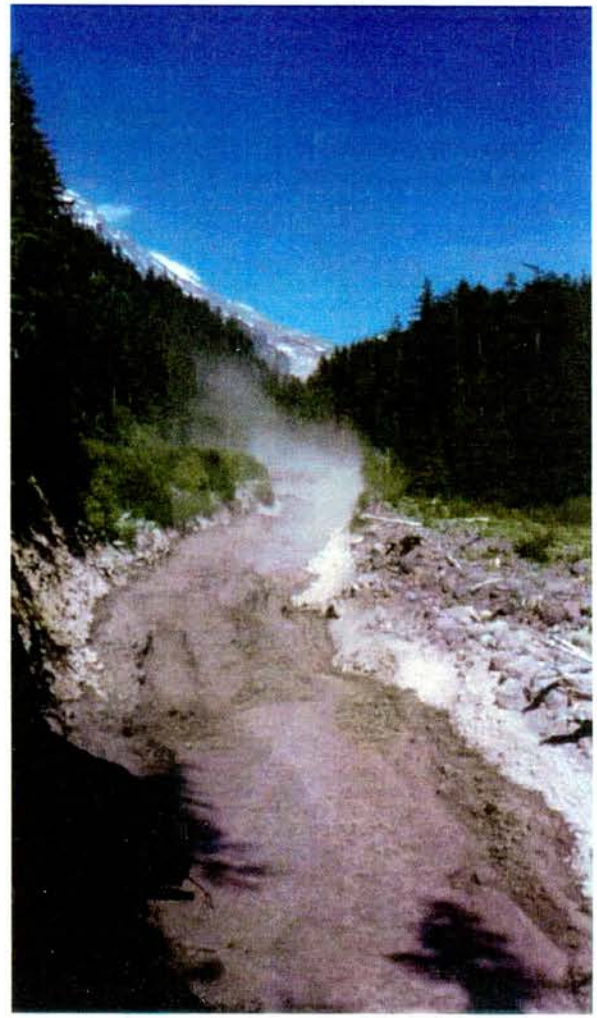


Figure 1.3.5:

(a) Gjalp flood 1996, Skeidararsandur, Iceland. Water flood and ice blocks. (http://www.raunvis.hi.is)
(b) Jokulhlaup-generated debris flow along Tahoma Creek from Mt Rainier, Washington, USA, 1988. (http://vulcan.wr.usgs.gov/Imgs/Jpg/Rainier/rainier_debris_flow.jpg)

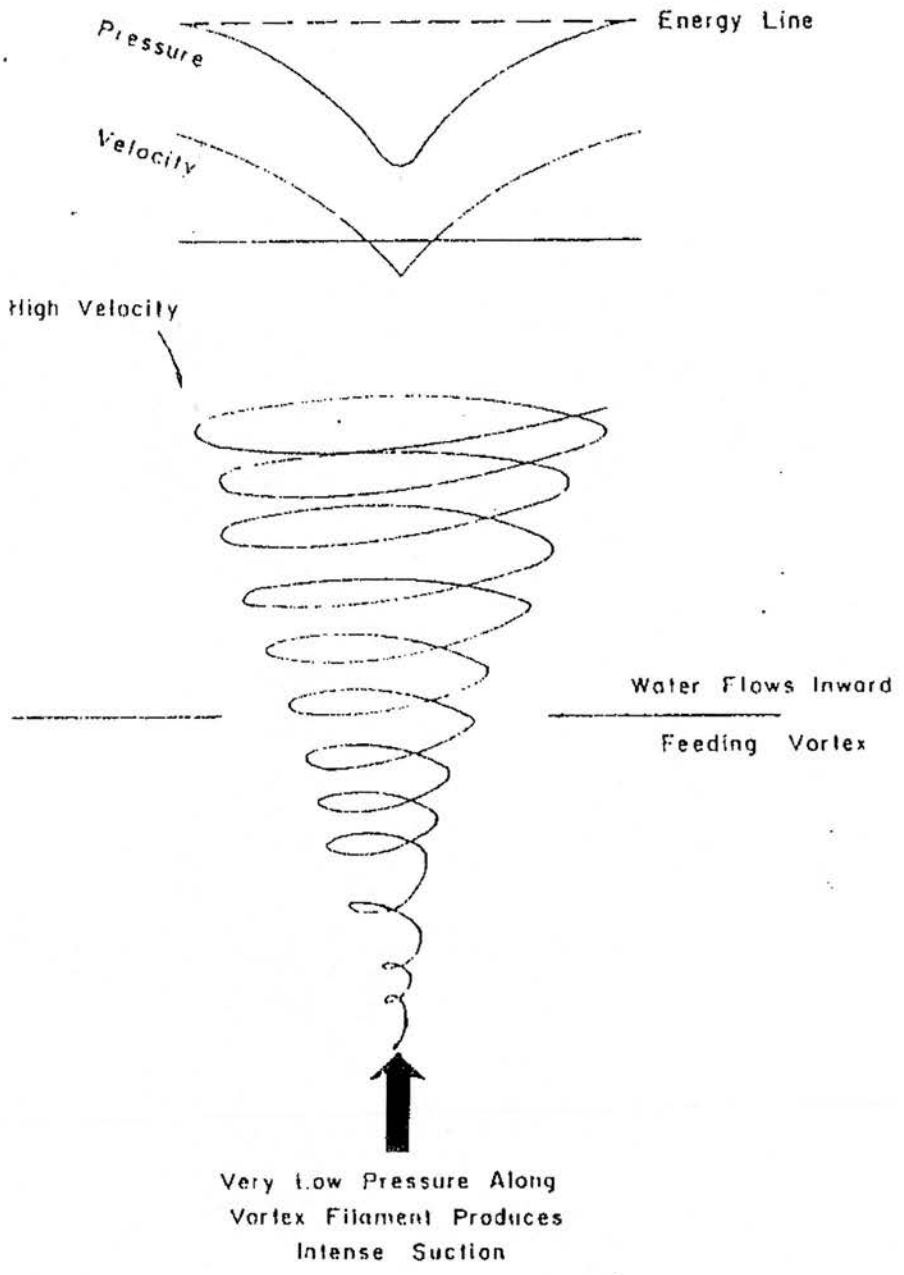


Figure 1.3.6: Characteristics of a 'kolk' or hydraulic vortex. These effects are set up by flow obstructions and intense pressure and velocity gradients cause hydraulic lifting. *From Baker (1973; Figure 8).*

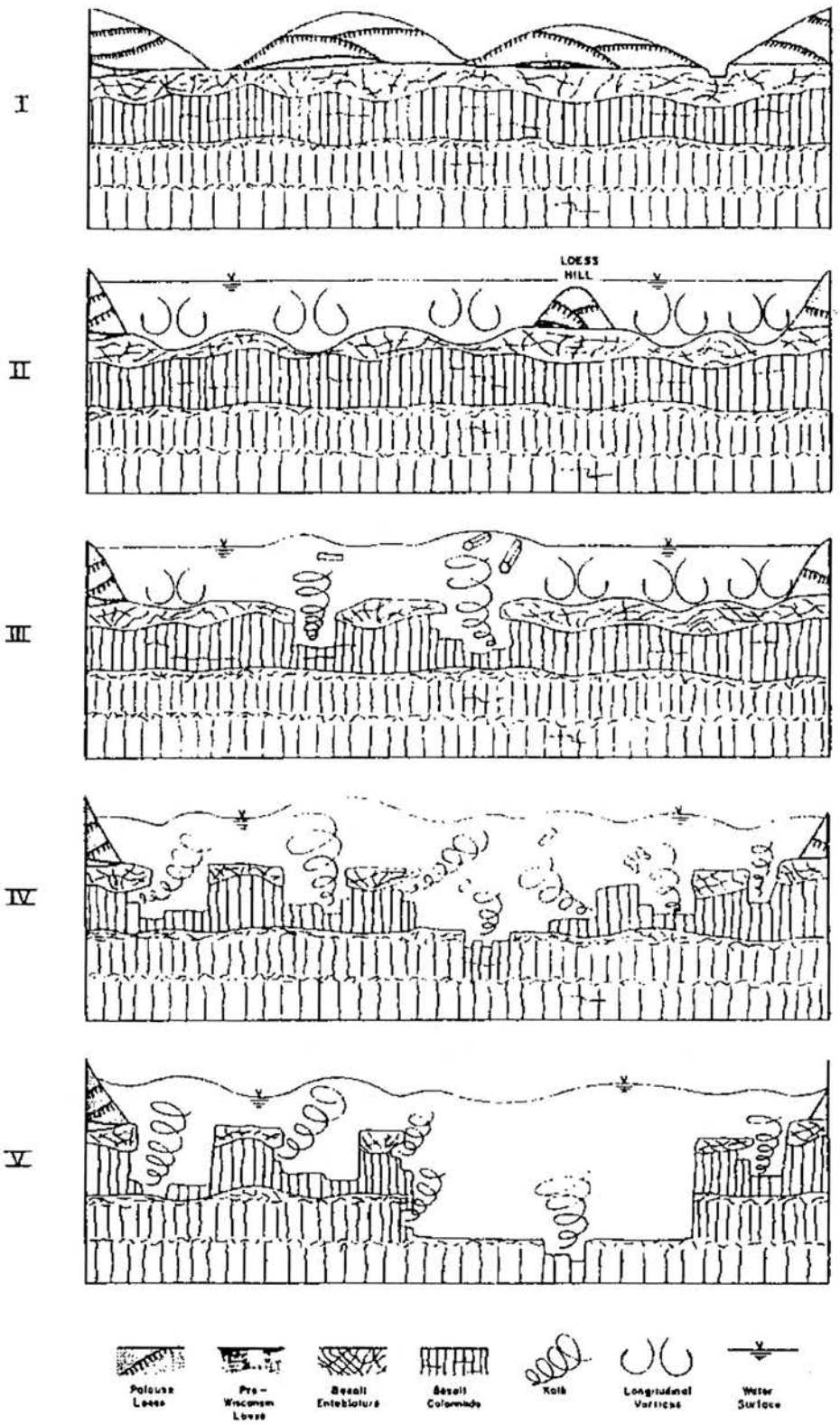


Figure 1.3.7: Hypothetical sequence of flood erosion for typical scabland topography. *From Baker (1973; Figure 12).*



Figure 1.3.8a: Unconsolidated channel erosion by Icelandic jökulhlaups. A channel is incised by a jökulhlaup from the 1362 eruption of Oræfajökull. Note the wide, relatively flat channel, boulder deposition and truncation of the valley-side fans at the far left.







Figure 1.3.8: Images (b), (c) and (d) show Sólheimasandur with wide channels in tephra-rich jökulhlaup deposits. A later flow or the waning stage of a single flow has incised the previously deposited tephra-rich sediments leaving isolated flat-toped hills. Note that the surface lithic lag which has been distributed evenly by frost action and the lack of vegetation cover. Vegetation in image (d) has been artificially seeded.



Figure 1.3.9: Streamlined remnants of moraines on the sandur plain south of Öræfajökull. Floods have dissected the ridge and orientated the remnants in the direction of flow.

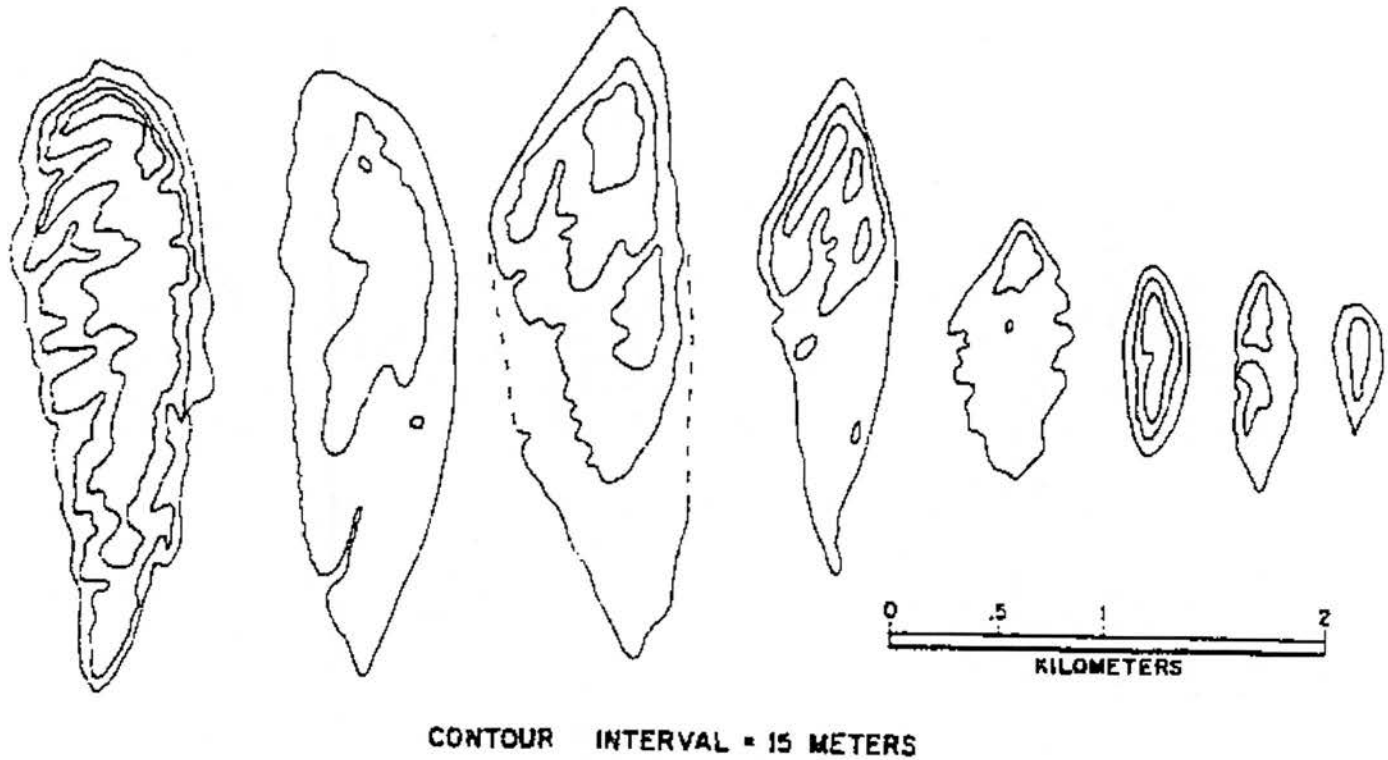


Figure 1.3.10: Streamlined scabland loess hills. Water scours the easily erodable loess producing the streamlined form, which is less resistant to flow. Subsequent gullying of the soft loess has somewhat modified the streamlined shapes. *Adapted from Baker (1973; Figure 14).*

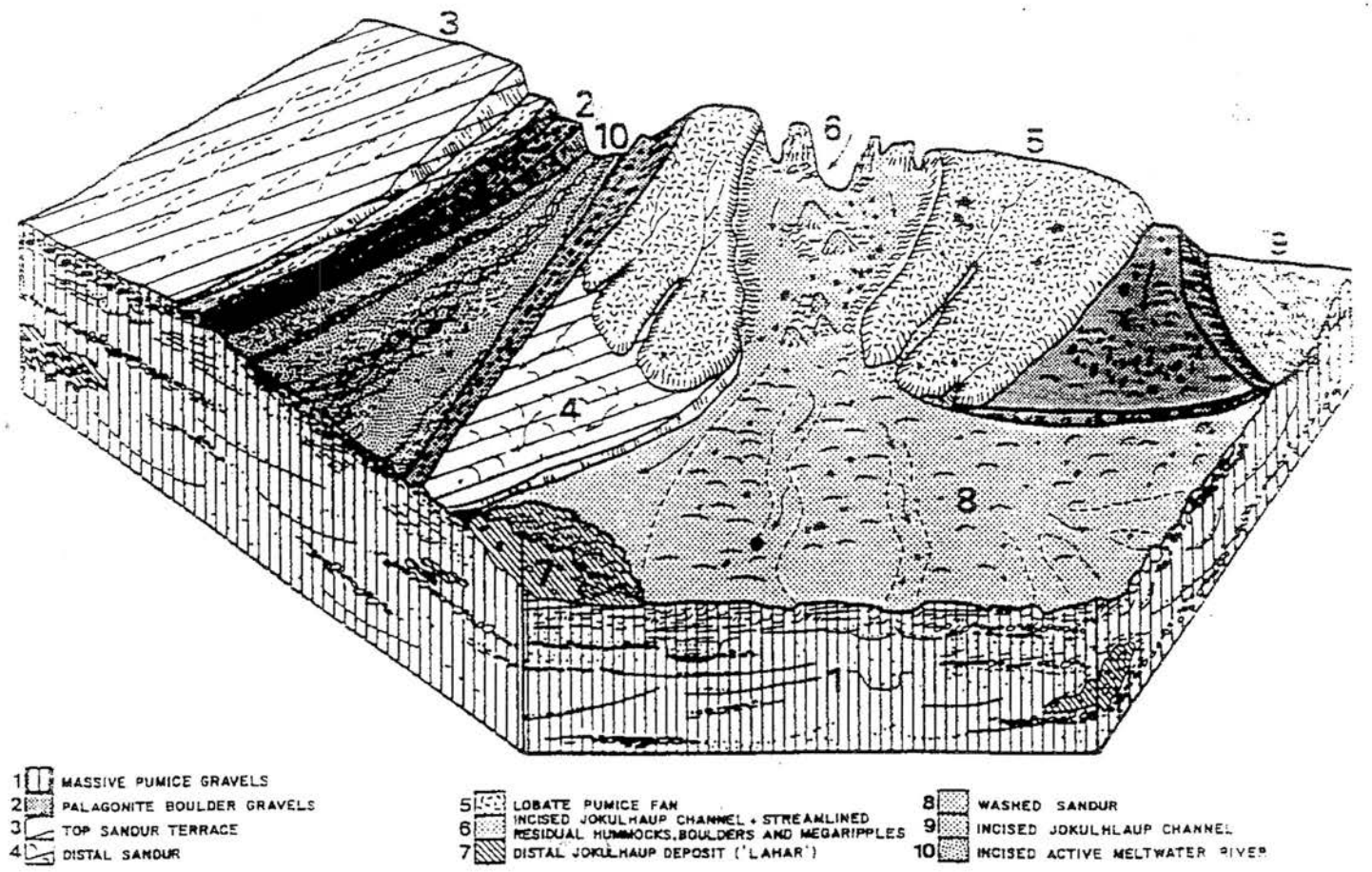


Figure 1.3.11: Schematic model of jökulhlaup sandurs showing depositional sequences and depositional and erosional landforms. *From Maizels (1991).*

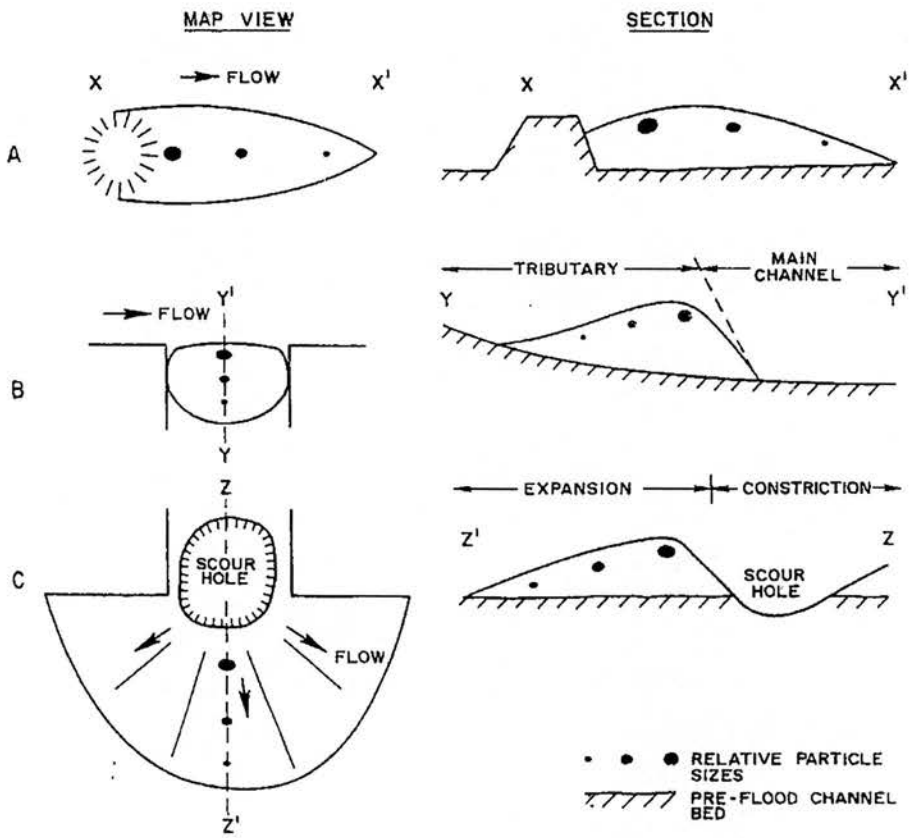


Figure 1.3.12: Schematic diagram of major bar types. (a) Pendant bar, (b) eddy bar, (c) expansion bar. *From Baker (1973).*



Figure 1.3.13: Megaripples within a flood channel of Sólheimasandur.

(i)



(ii)



Figure 1.3.14: Ice block obstacle marks and kettle holes in Iceland. Image (i) shows a water-filled kettle in the foreland of Steinsholtsjökull amid debris from the rockfall-generated hlaup described by Kjartansson (1967). Images (ii) and (iii, on following page) show smaller-scale, dry obstacle marks left by the July 1999 flood from Sólheimajökull. Note the depressions infilled by fines melted out from the ice block and raised rings of coarser material around the depression.

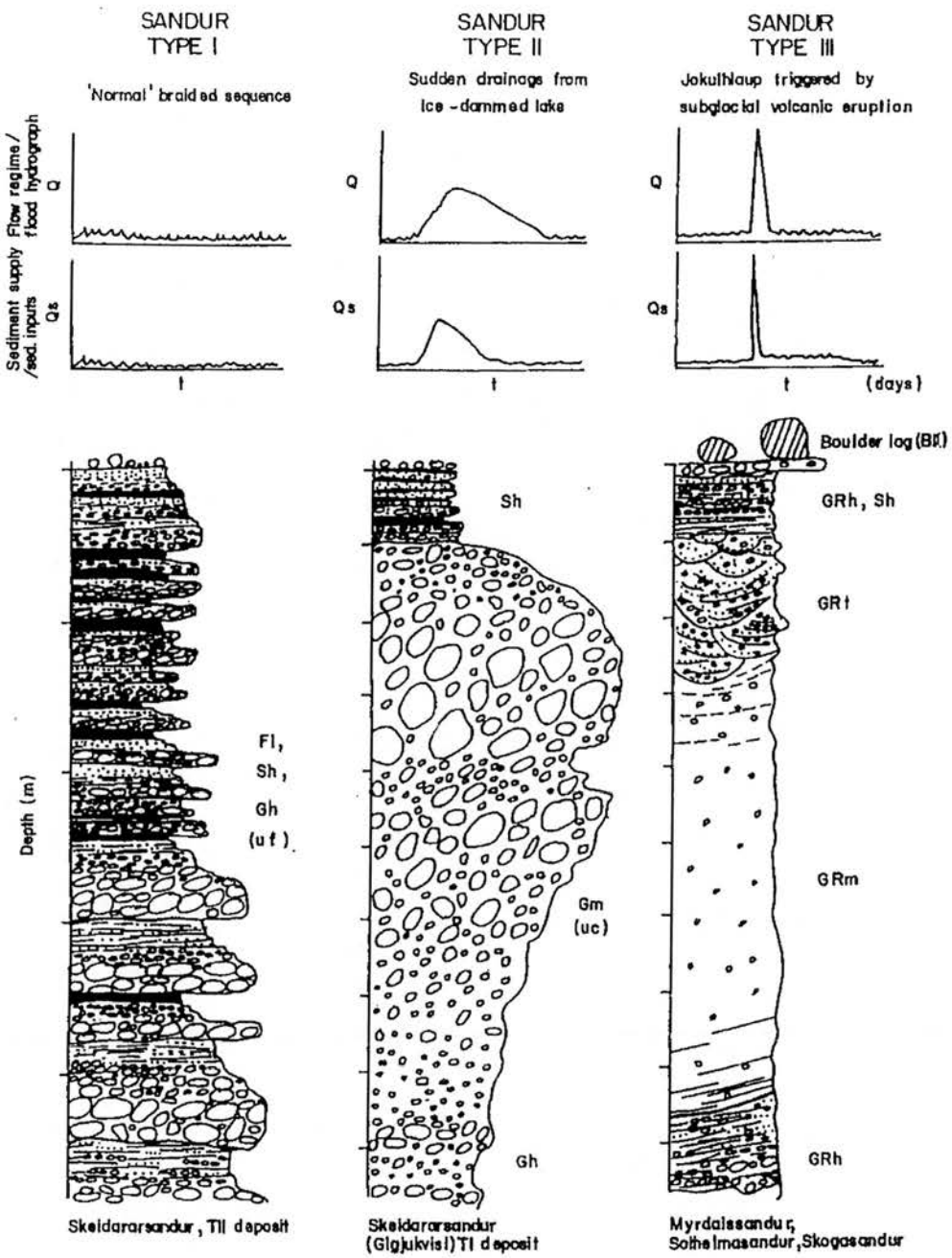
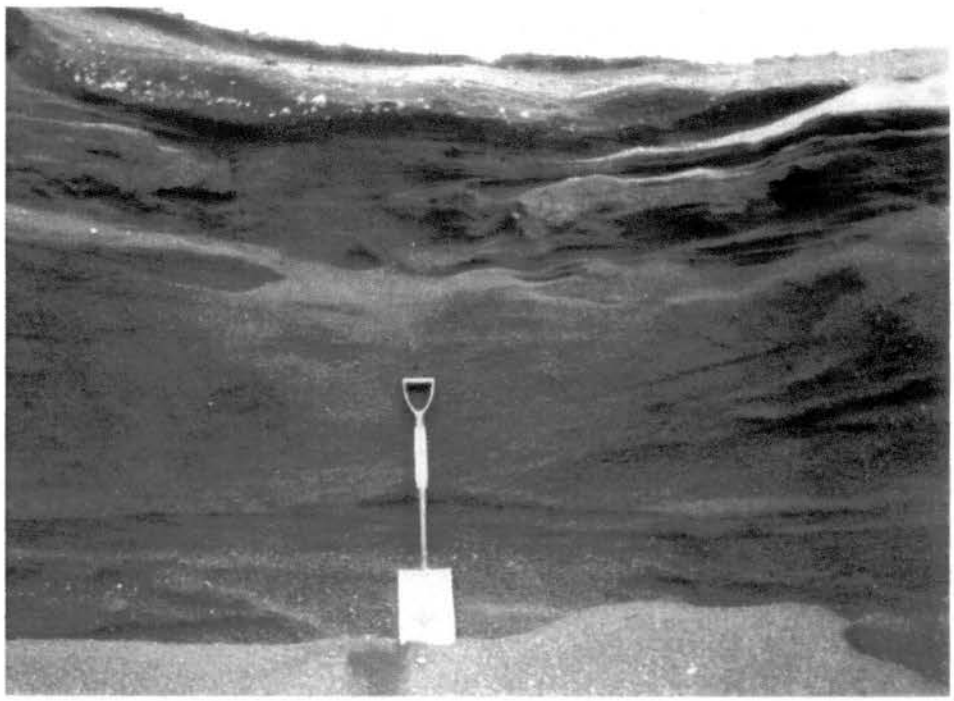


Figure 1.3.15: Maizels' (1991) lithofacies models of sandur sediments.

(a)



(b)

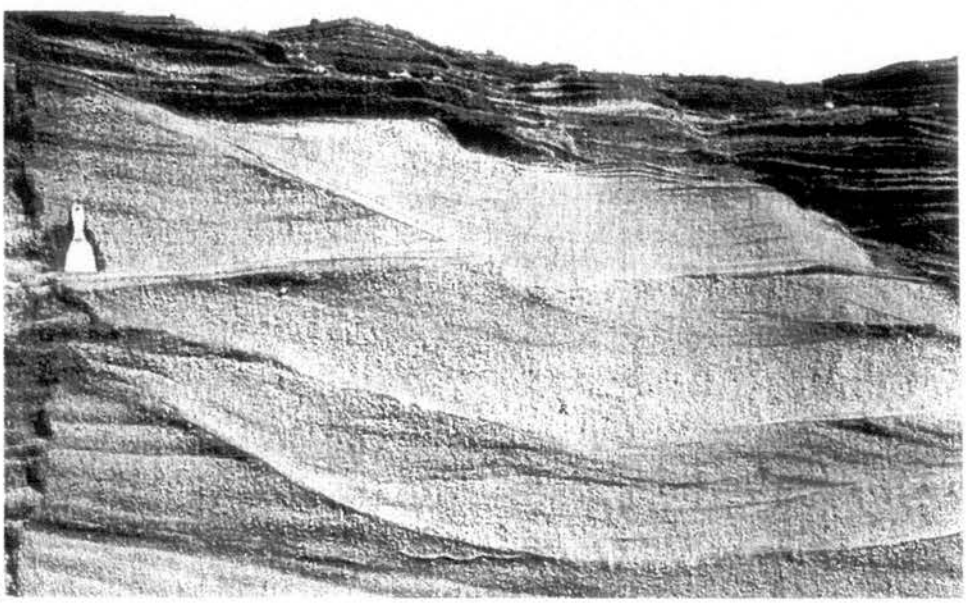


Figure 1.3.16: Type III volcanigenic jökulhlaup sandur facies.

Image (a) is from a gravel pit near the Husá river which cuts through Skogassandur. Skogassandur is made up of jökulhlaup deposits from a prehistoric flood from Sólheimajökull (Dugmore 1987). Note the lower horizontal bedding, middle more massive unit and upper layers showing laminations and ripple structures. The surface is covered by a lithic lag. Spade handle is 1m long.

Image (b) shows large-scale trough cross-stratification capped by horizontally bedded sands and silts in jökulhlaup deposits on Mýrdalssandur, Iceland. These sediments represent migrating dunes capped by waning stage sheet flows. *From Maizels (199x; Plate 12.12).*



Figure 1.3.17: Boulder and lithic lags, Sólheimajökull. Note imbrication of boulders and Amy Hunt for scale.

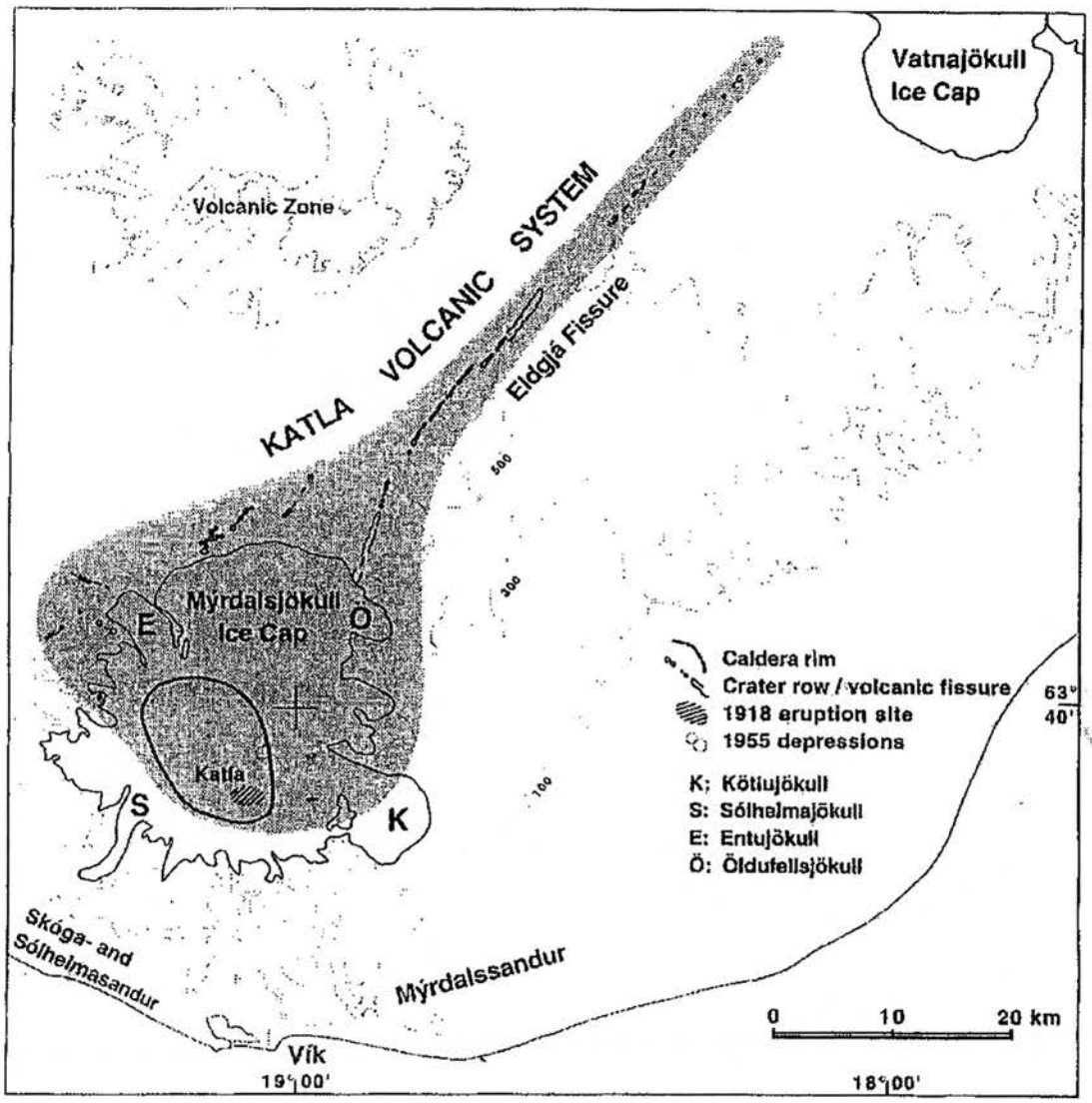


Figure 2.1: Katla Volcanic System. *Larsen 2000, after Jakobssen 1979.*

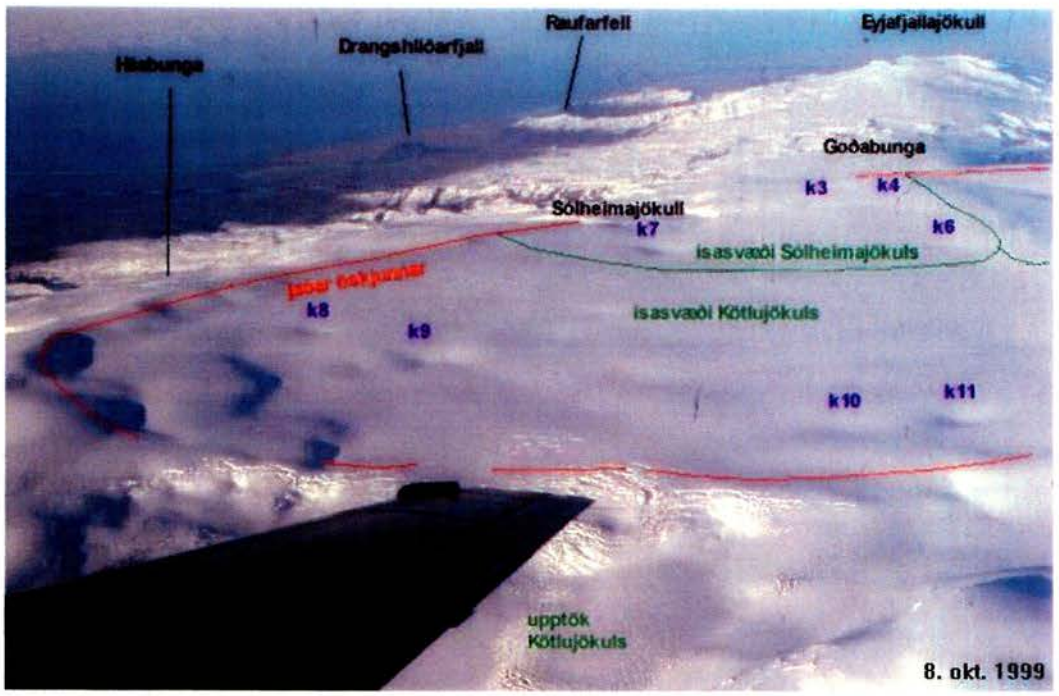


Figure 2.2: Mýrdalsjökull (foreground) from the west. The red line is the caldera rim. Blue text (e.g. k10) are ice surface cauldrons caused by subglacial heating. Green lines are ice divides. Eyjafjallajökull is seen in the distance. *(http://www.raunvis.hi.is)*

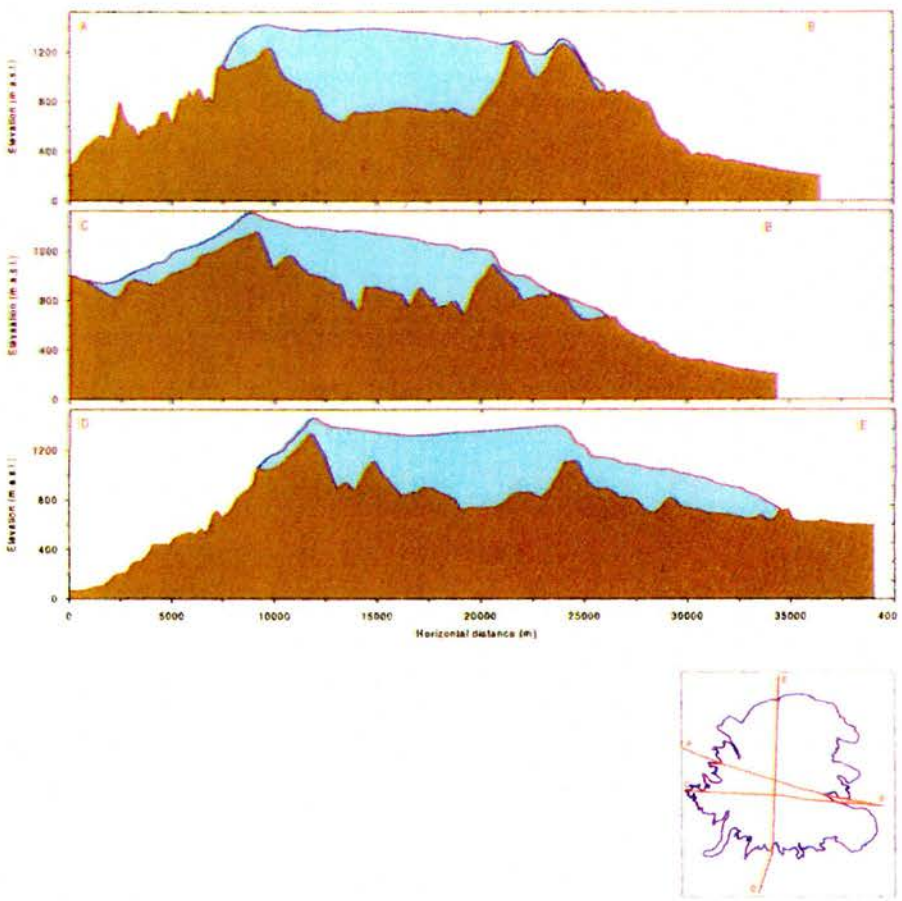


Figure 2.3: Assymetry in subglacial topography and ice thickness of Myrdalsjokull. *(Björnsson et al 2000; Figure 6).*

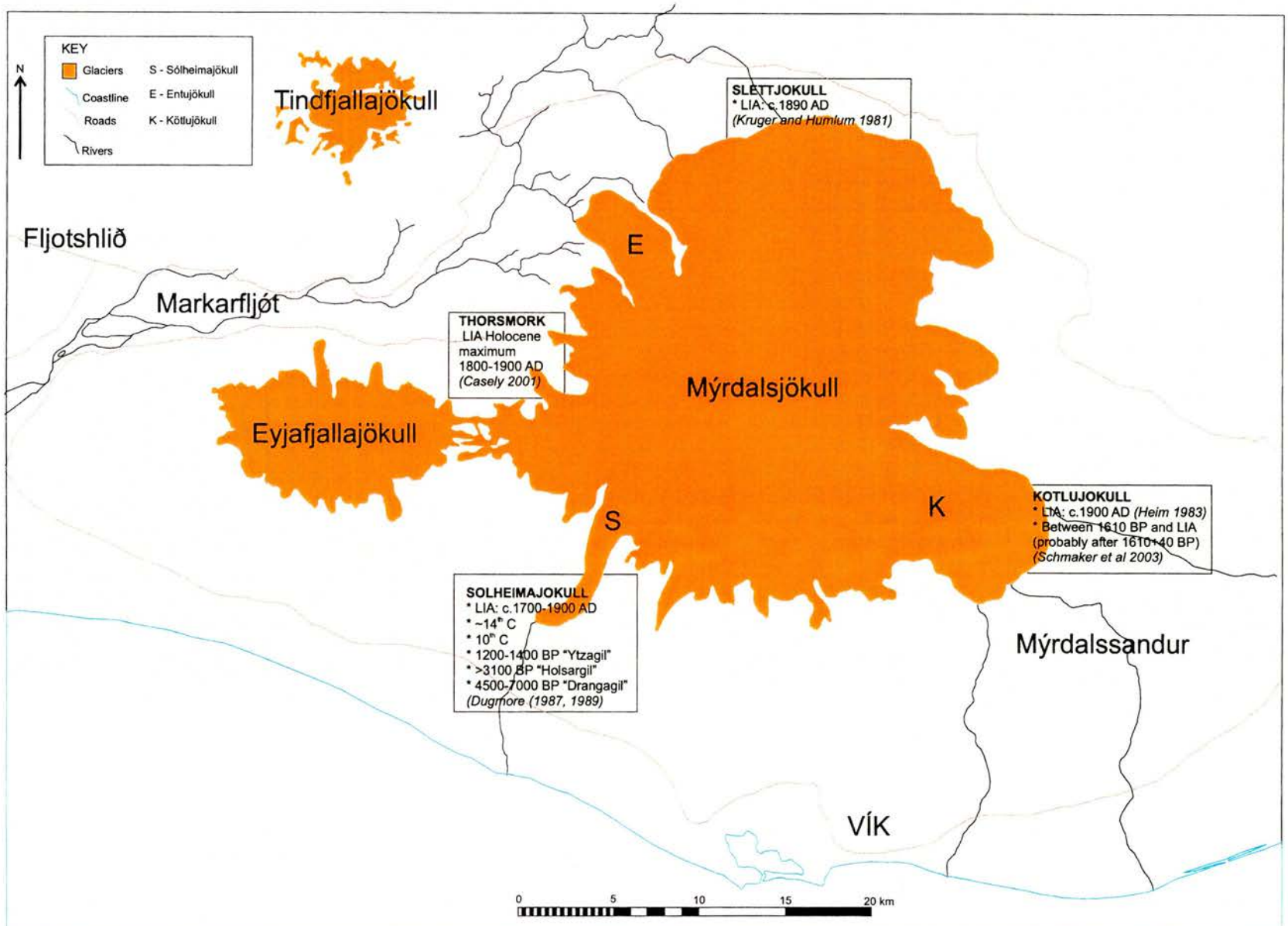


Figure 2.4: Holocene glacier fluctuations, Mýrdalsjökull.

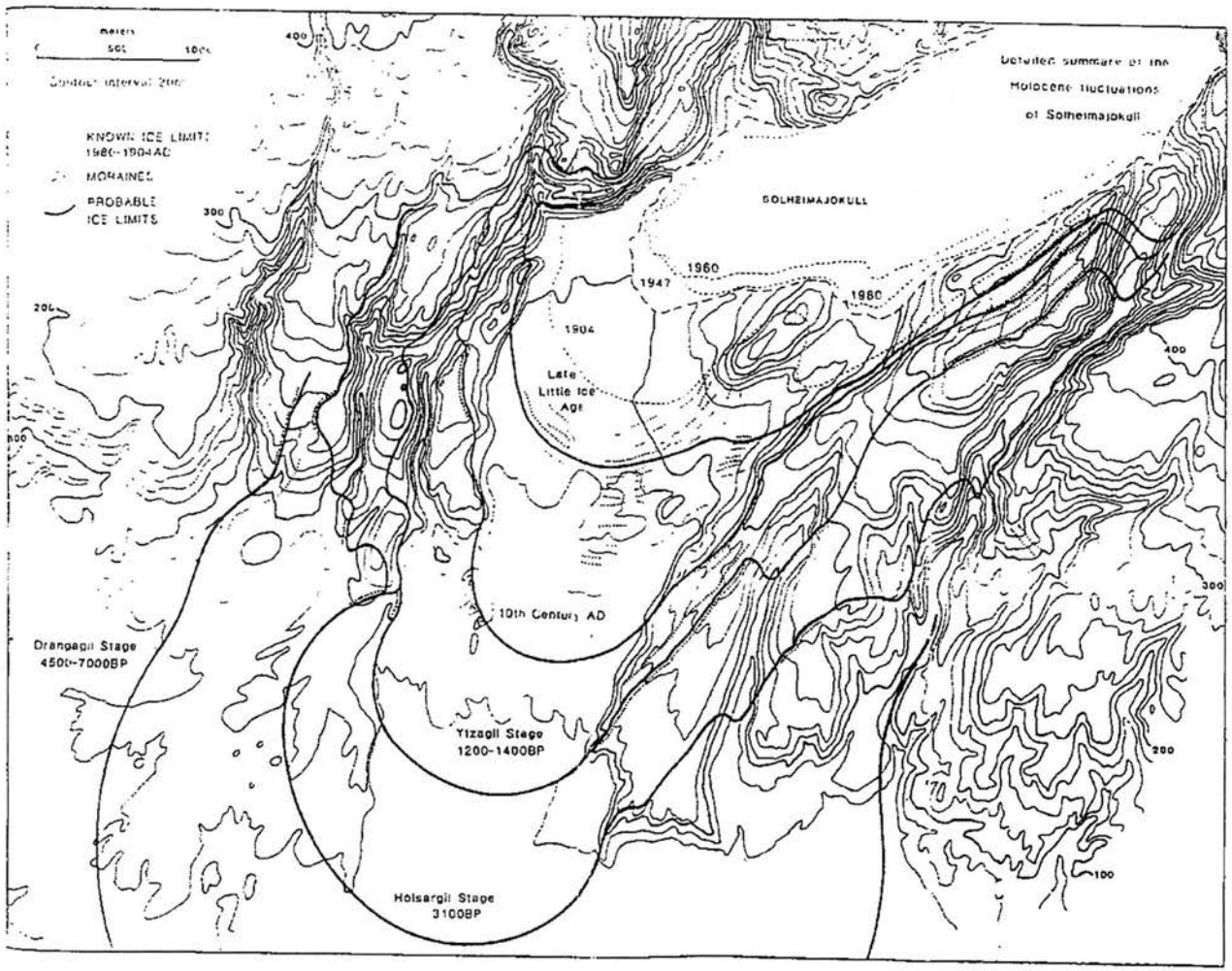


Figure 2.5: Sólheimajökull glacier fluctuations. ***Dugmore 1987.***

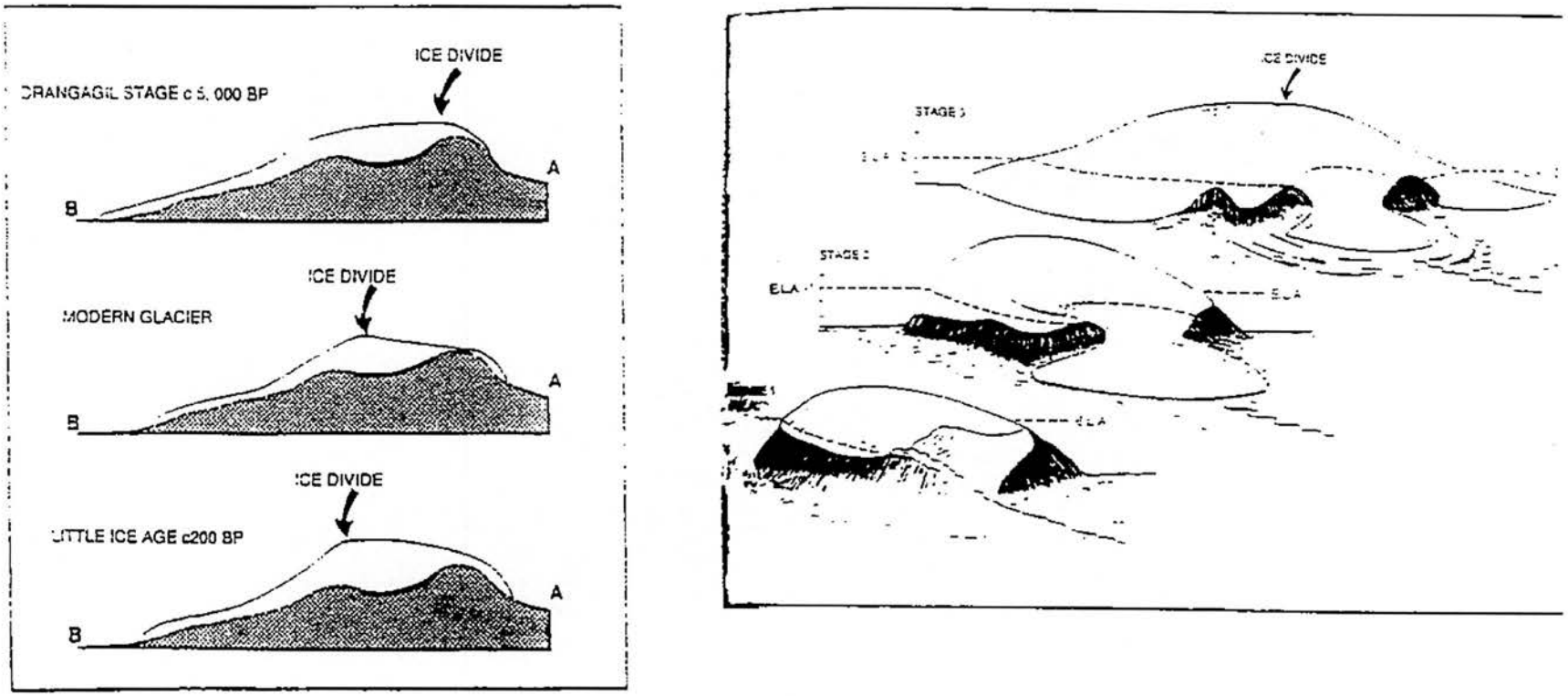


Figure 2.6: Ice divide migration theory. ***(Dugmore and Sugden 1991).***

Figure 2.7a: Flood routes from Mýrdalsjökull. Katla rim and ice cauldron locations from Björnsson et al 2000.

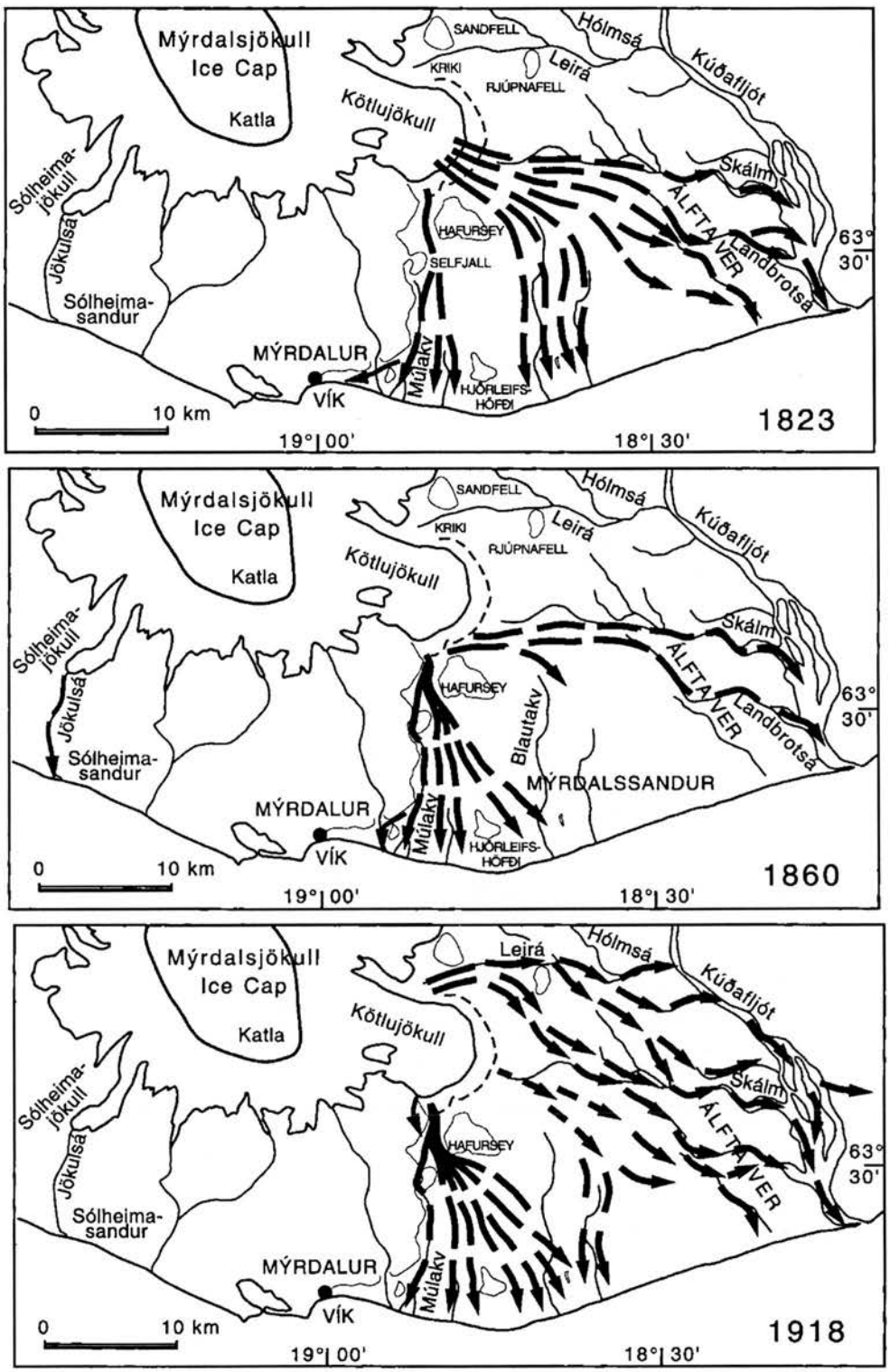


Figure 2.8: Floods from Kötlujökull. *(Larsen 2000)*

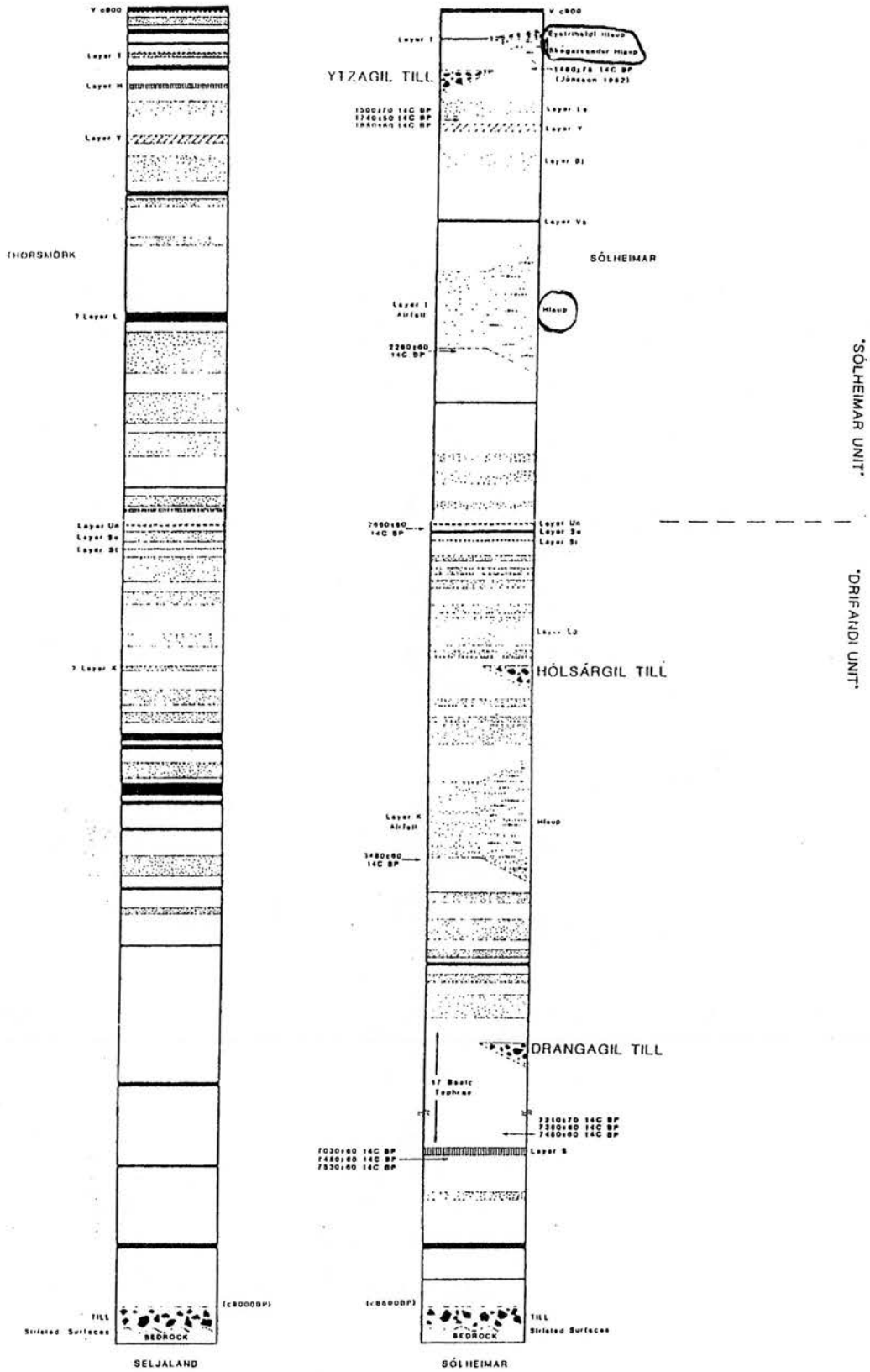


Figure 2.9: Flood stratigraphy, Sólheimajökull. *(Dugmore 1987).*

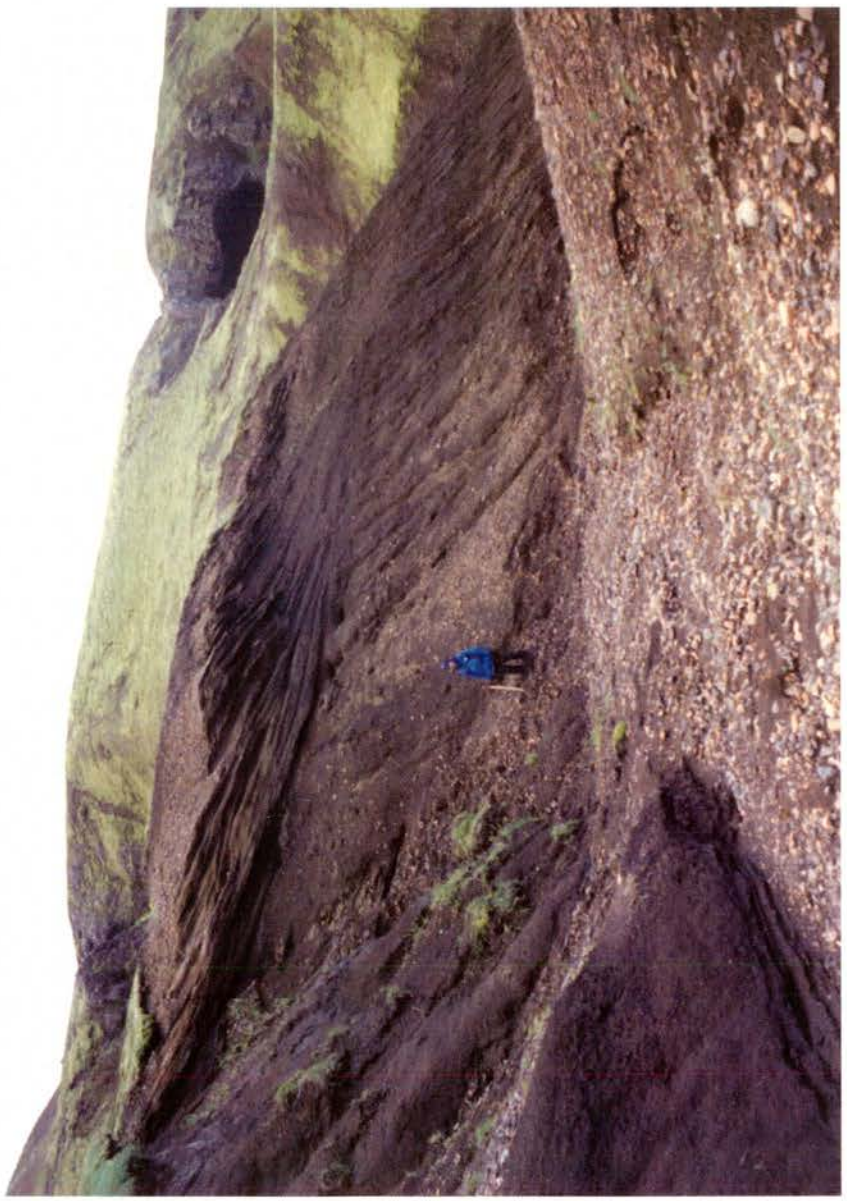


Figure 2.10A: Lacustrine (delta) dposits, Emstrur. Andrew Casely for scale.



Figure 2.10B: Terraces from Emstrurlon, Hattfell.

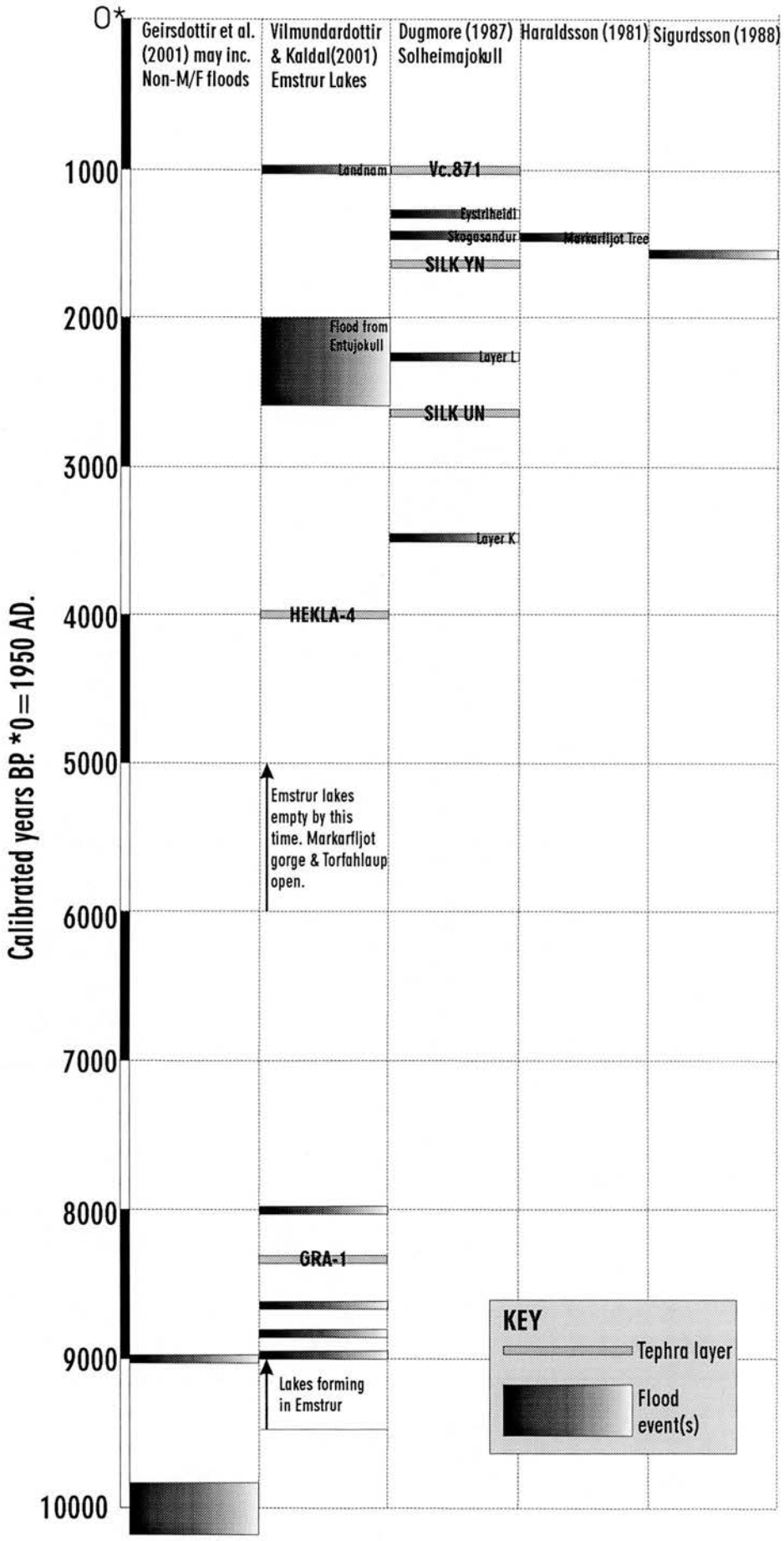


FIGURE 2.11: Prehistoric Myrdalsjokull flood record



Figure 2.12A: Equipotential map of Mýrdalsjökull. Ice margin from 1985 Þórsmörk / Landmannalaugur map, Icelandic Geodetic Survey.



Figure 2.12b: Subglacial topography for equipotential calculation. Based on an unpublished interpretative map by Andrew Dugmore compiled from ice radar survey data from Bjornsson (2000).

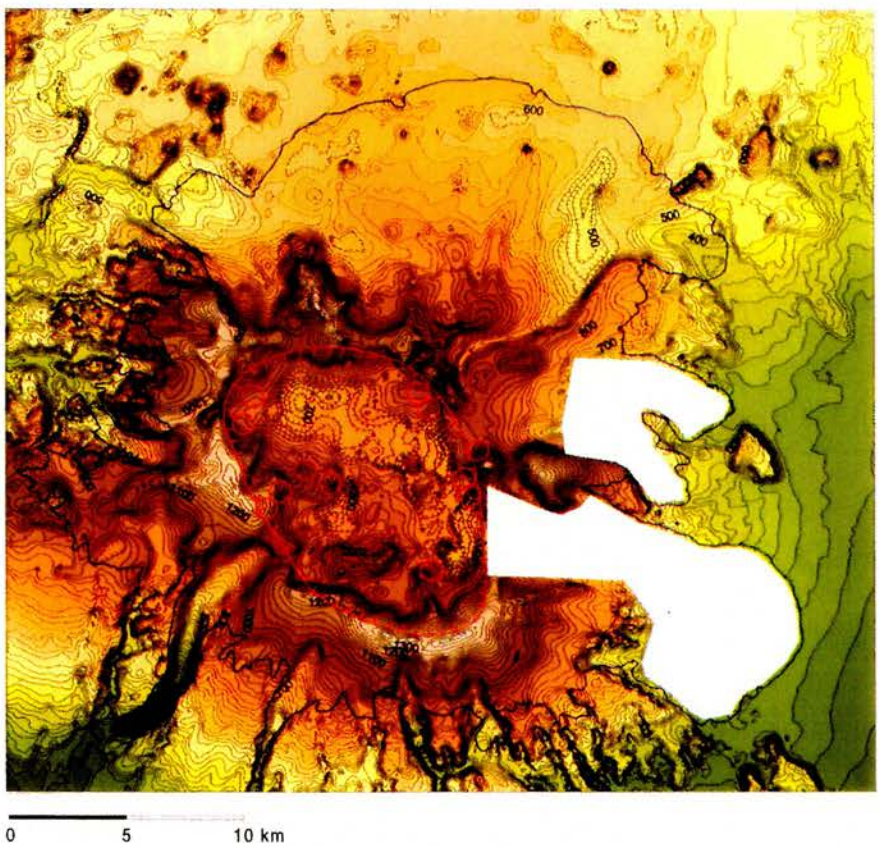


Figure 2.13: Mýrdalsjökull subglacial topography. *(Björnsson et al. 2000, Figure 5)*

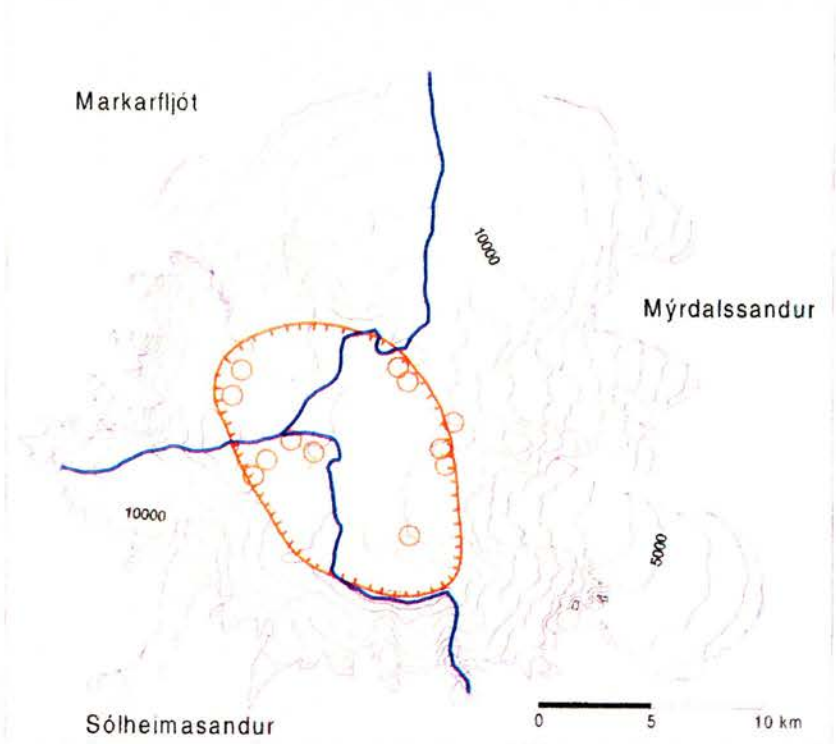


Figure 2.14: Hydraulic potential map, Mýrdalsjökull. Red broken line delimits the edge of the Katla caldera and the small red circles represent the locations of ice surface cauldrons. Water divides are indicated by blue lines. *(Björnsson et al. 2000, Figure 11)*

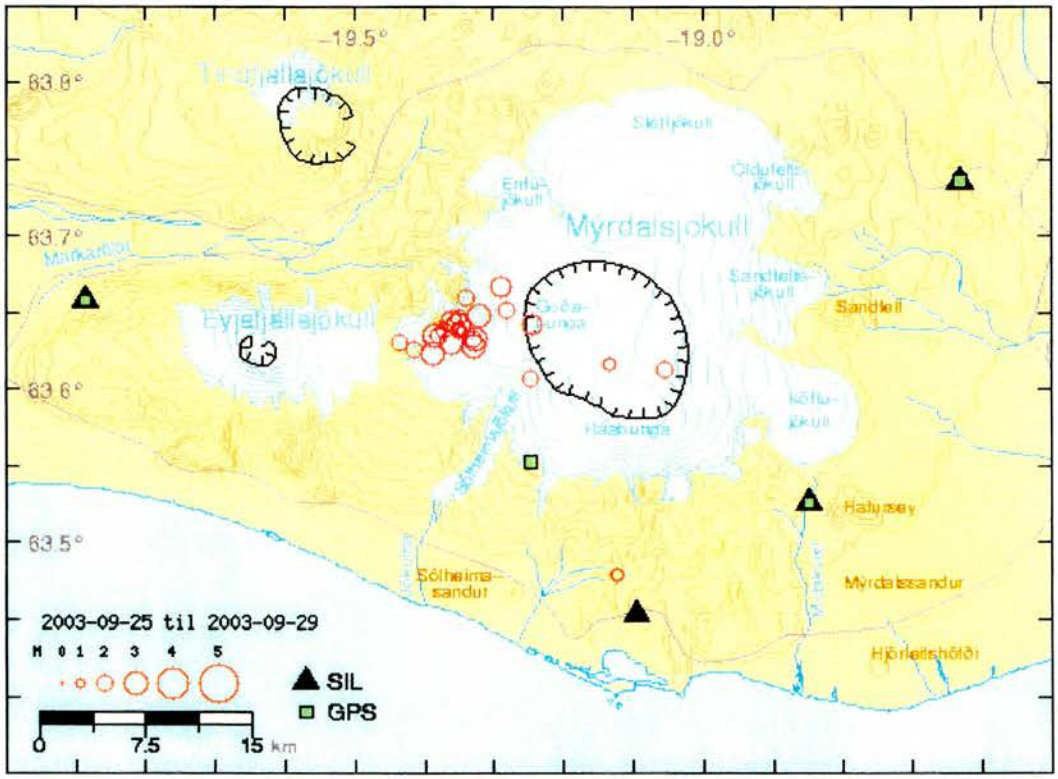


Figure 2.15: Earthquake activity 25-29 September 2003. Note two main centres of activity – in caldera and on caldera rim to the west. *(http://www.vedur.is).*

(a)

(b)

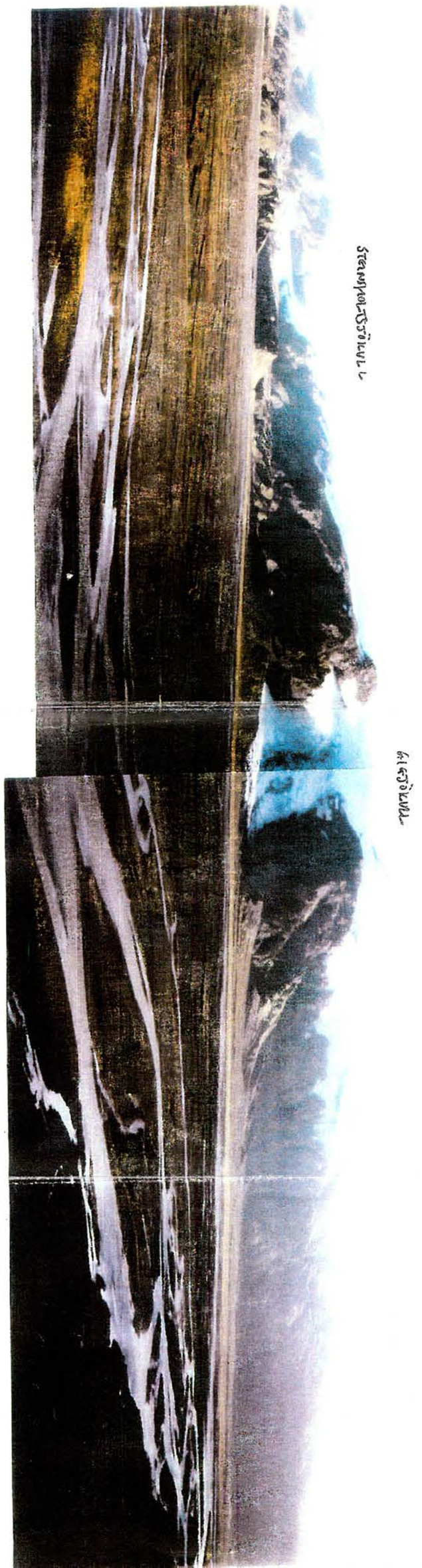


Figure 3.1.1: Markarfljót (taken from West Kanastaðir).

(a) Mýrdalsjökull
(b) Eyjafjallajökull.

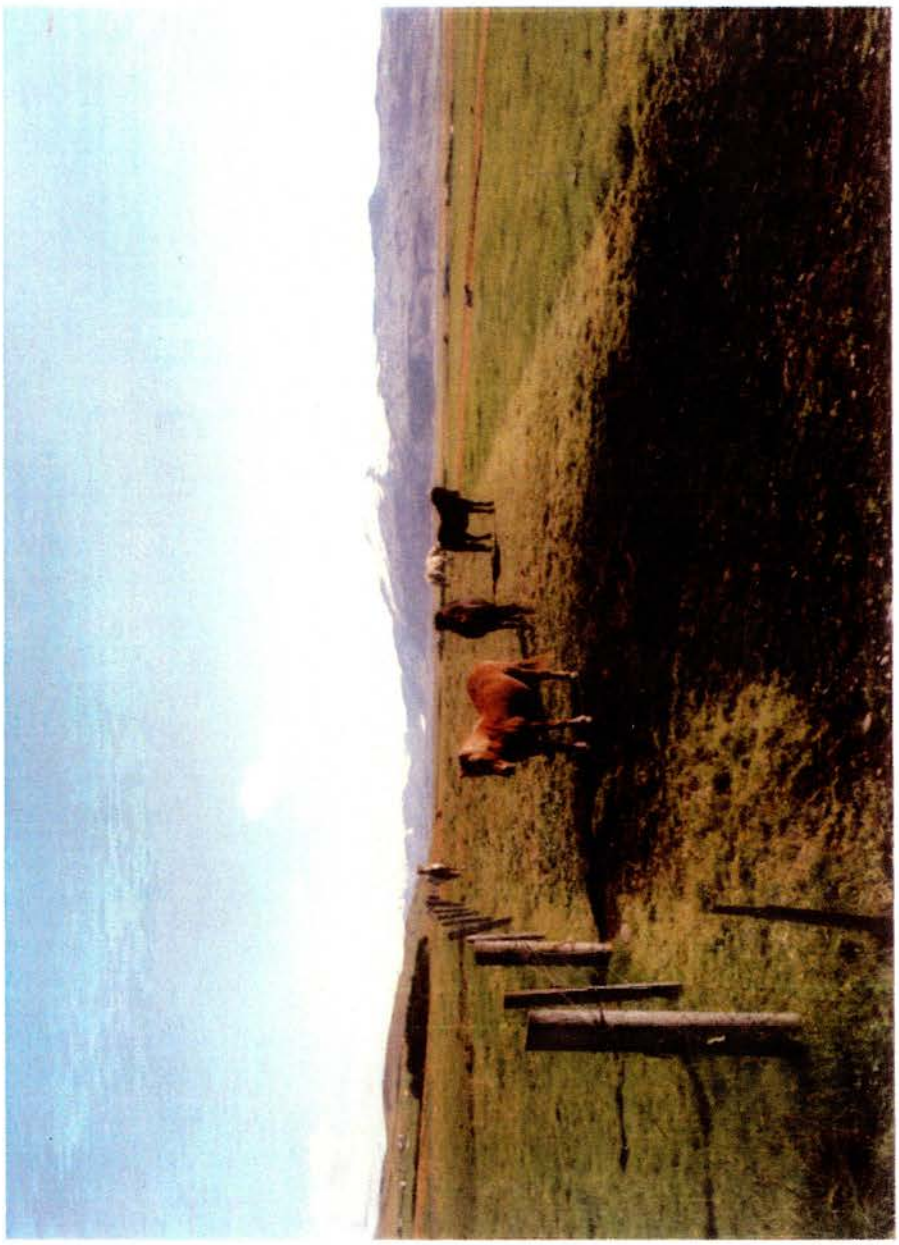


Figure 3.1.2: Lowland farmland of Fljótshlið and Storamörk.

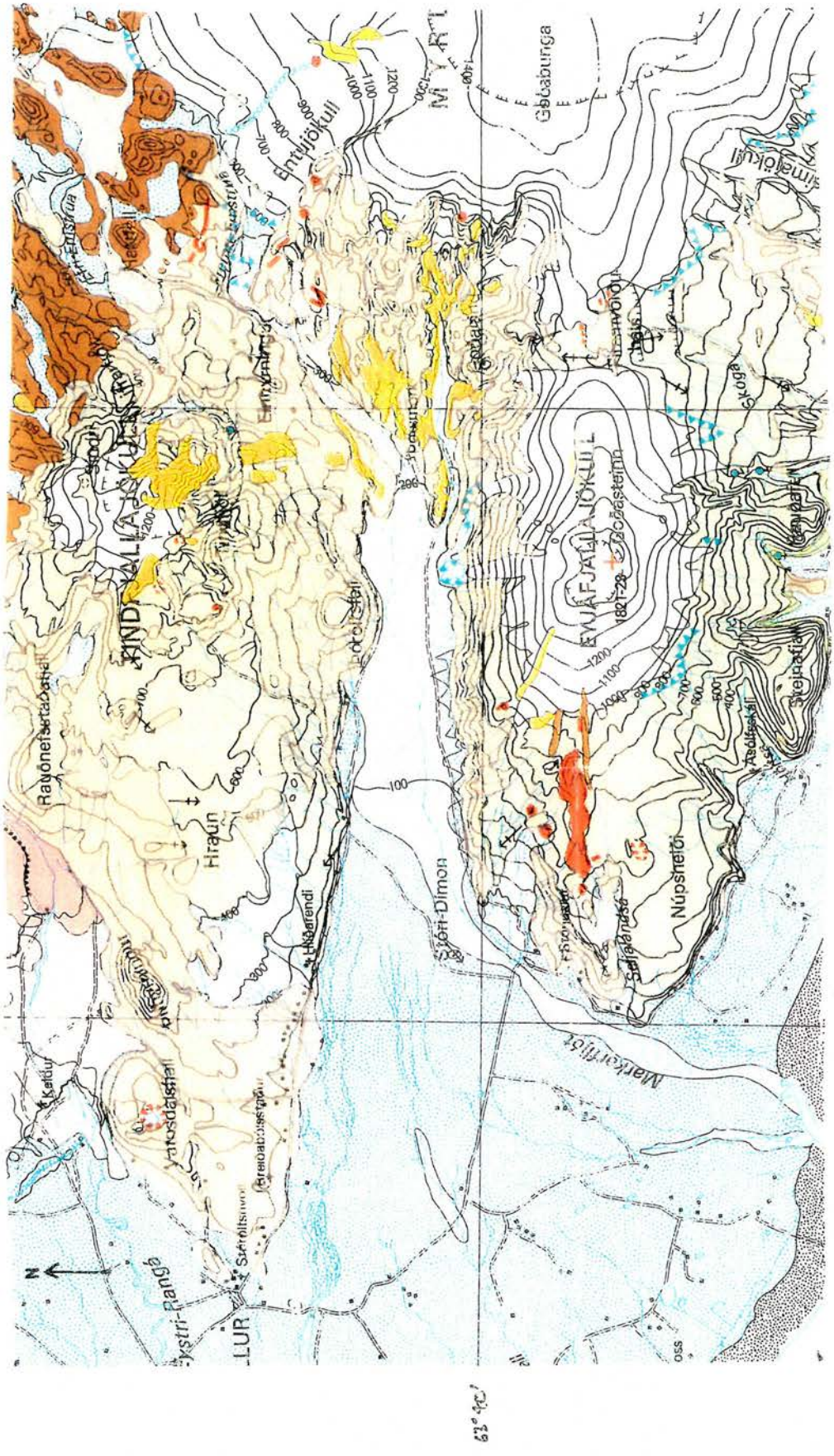


Figure 3.1.3a: Geology of Markarfljót *(Jóhanneson et al 1990).*

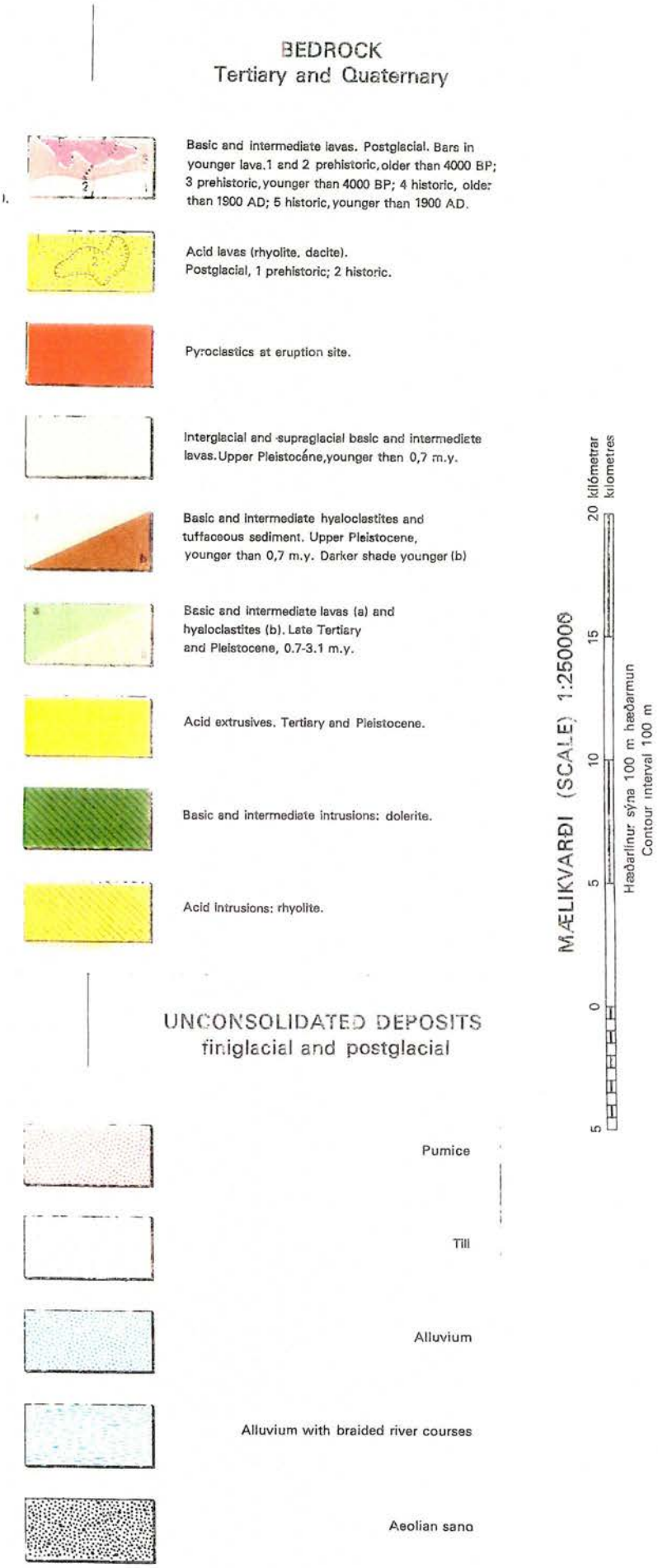


Figure 3.1.3b: Key to Geology *(Jóhanneson et al 1990).*

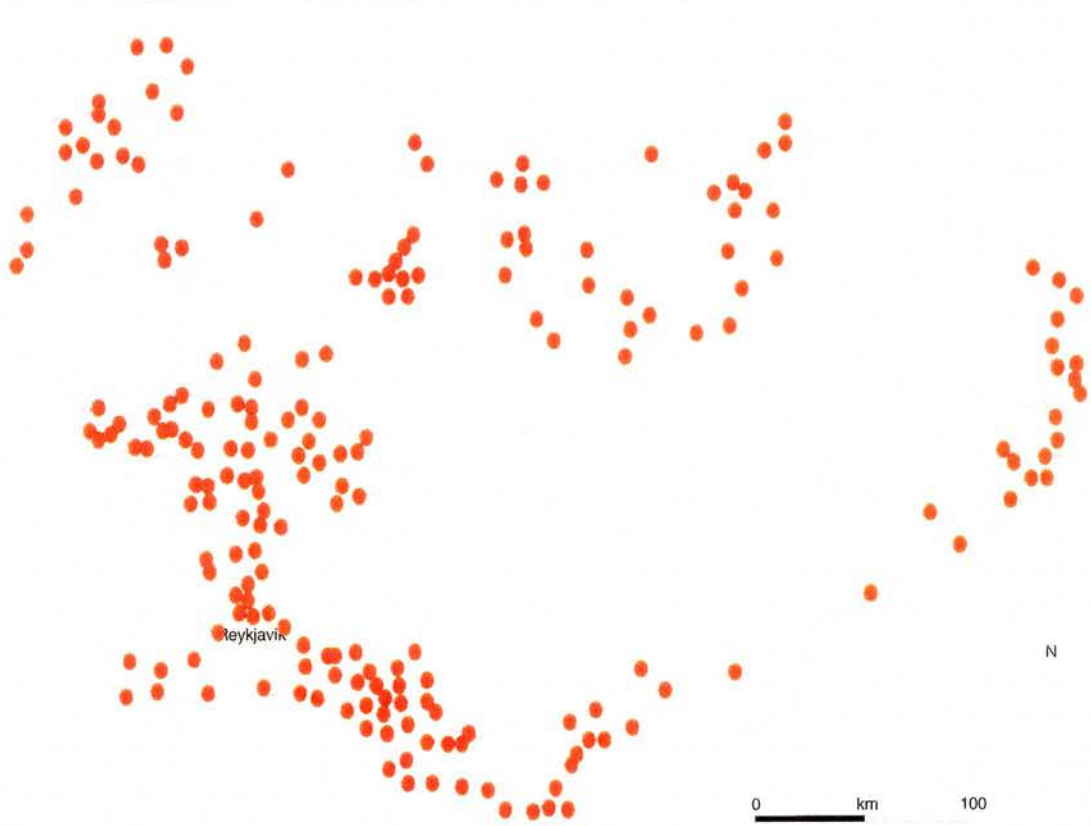


Figure 3.1.4: Settlement sites established in Iceland by 930 AD *(adapted from Vésteinsson (2000; 165))*

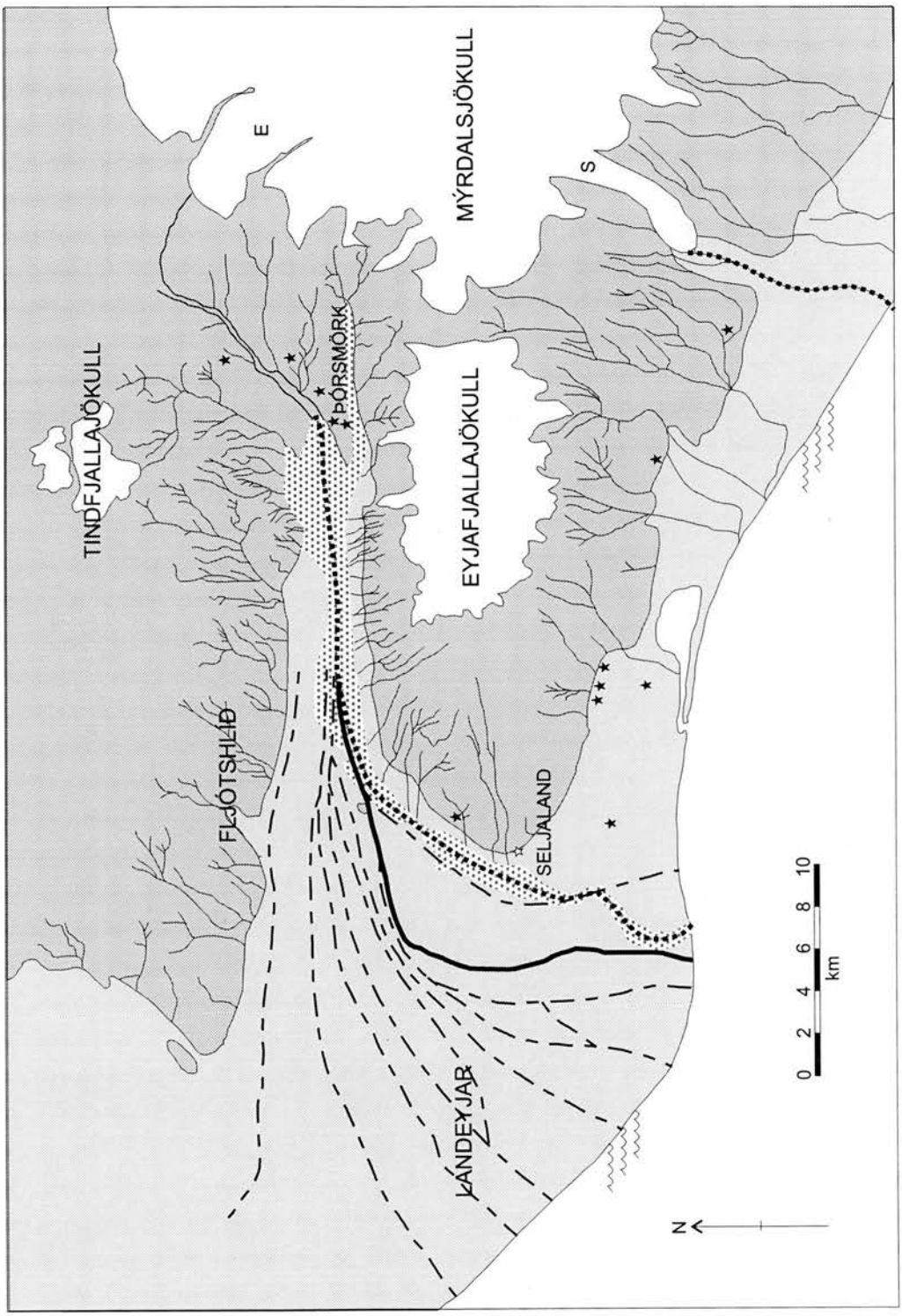


Figure 3.1.5: Early Historic Period, Markarfljot.
(Compiled from Haraldsson (1981), Sveinbjarnardottir et al (1982))
Lines represent past positions of Markarfljot. Solid line represents present Markarfljot channel. Stars represent early settlement sites.

Millimeters	μm	Phi (ϕ)	Wentworth size class	
		-20		
4096		-12	Boulder (-8 to -12ϕ)	
1024		-10		
256		-8	Pebble (-6 to -8ϕ)	
64		-6		
16		-4	Pebble (-2 to -6ϕ)	Gravel
4		-2		
3.36		-1.75		
2.83		-1.50	Gravel	
2.38		-1.25		
2.00		-1.00		
1.68		-0.75		
1.41		-0.50	Very coarse sand	
1.19		-0.25		
1.00		-0.00		
0.84		0.25		
0.71		0.50	Coarse sand	
0.59		0.75		
1/2 – 0.50	500	1.00		
0.42	420	1.25		
0.35	350	1.50	Medium sand	Sand
0.30	300	1.75		
1/4 – 0.25	250	2.00		
0.210	210	2.25		
0.177	177	2.50	Fine sand	
0.149	149	2.75		
1/8 – 0.125	125	3.00		
0.105	105	3.25		
0.088	88	3.50	Very fine sand	
0.074	74	3.75		
1/16 – 0.0625	63	4.00		
0.0530	53	4.25		
0.0440	44	4.50	Coarse silt	
0.0370	37	4.75		
1/32 – 0.0310	31	5		
1/64 0.0156	15.6	6	Medium silt	
1/128 0.0078	7.8	7	Fine silt	
1/256 – 0.0039	3.9	8	Very fine silt	Mud
0.0020	2.0	9		
0.00098	0.98	10		
0.00049	0.49	11	Clay	
0.00024	0.24	12		
0.00012	0.12	13		
0.00006	0.06	14		

Figure 3.2.1: Udden-Wentworth Grain size scale (1922).

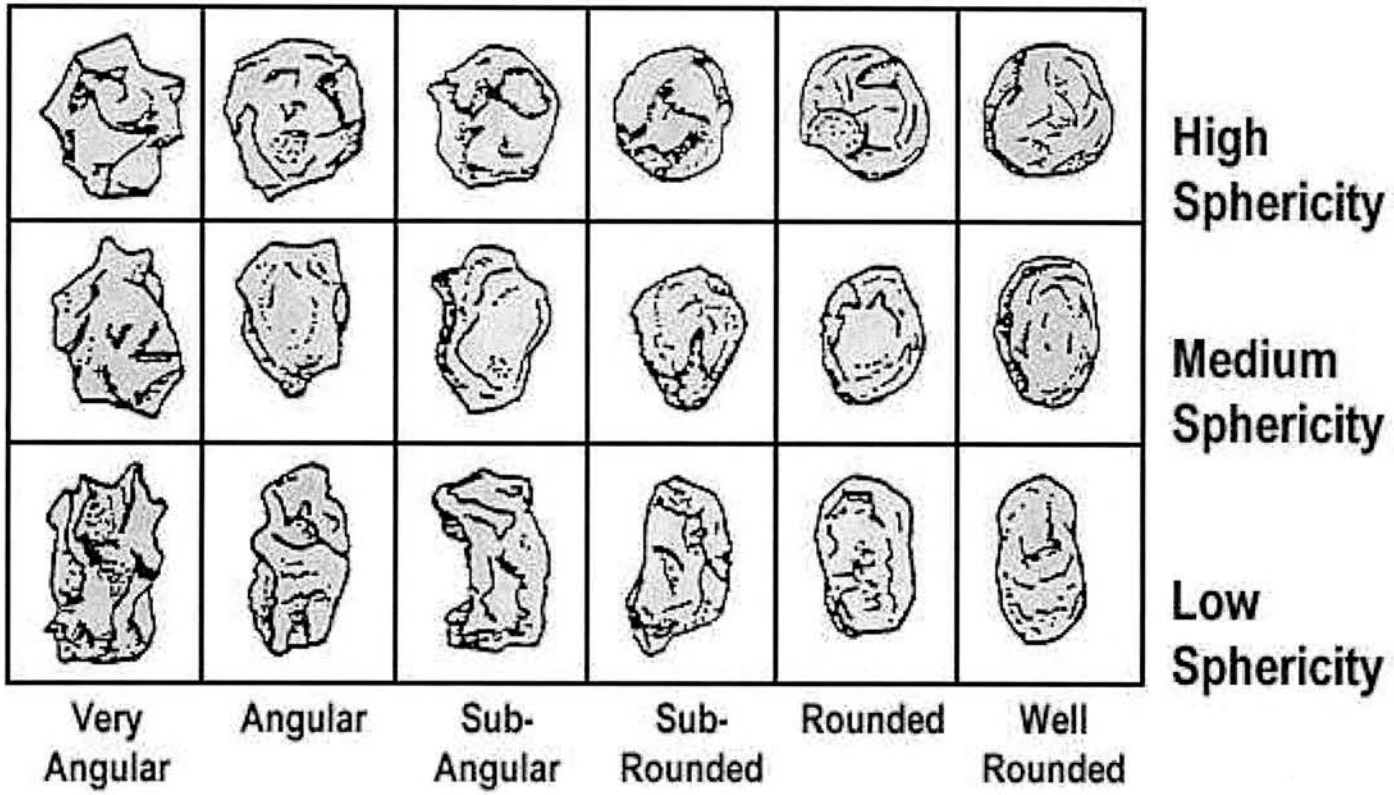


Figure 3.2.2: Grain shape *(after Krumbein 1941)*

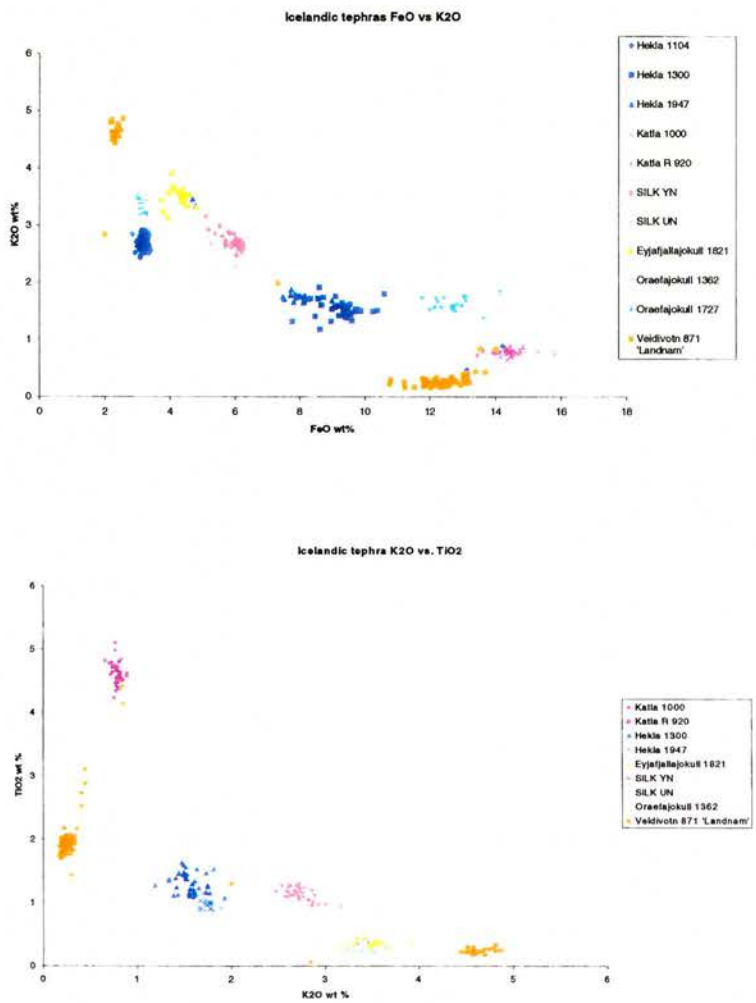
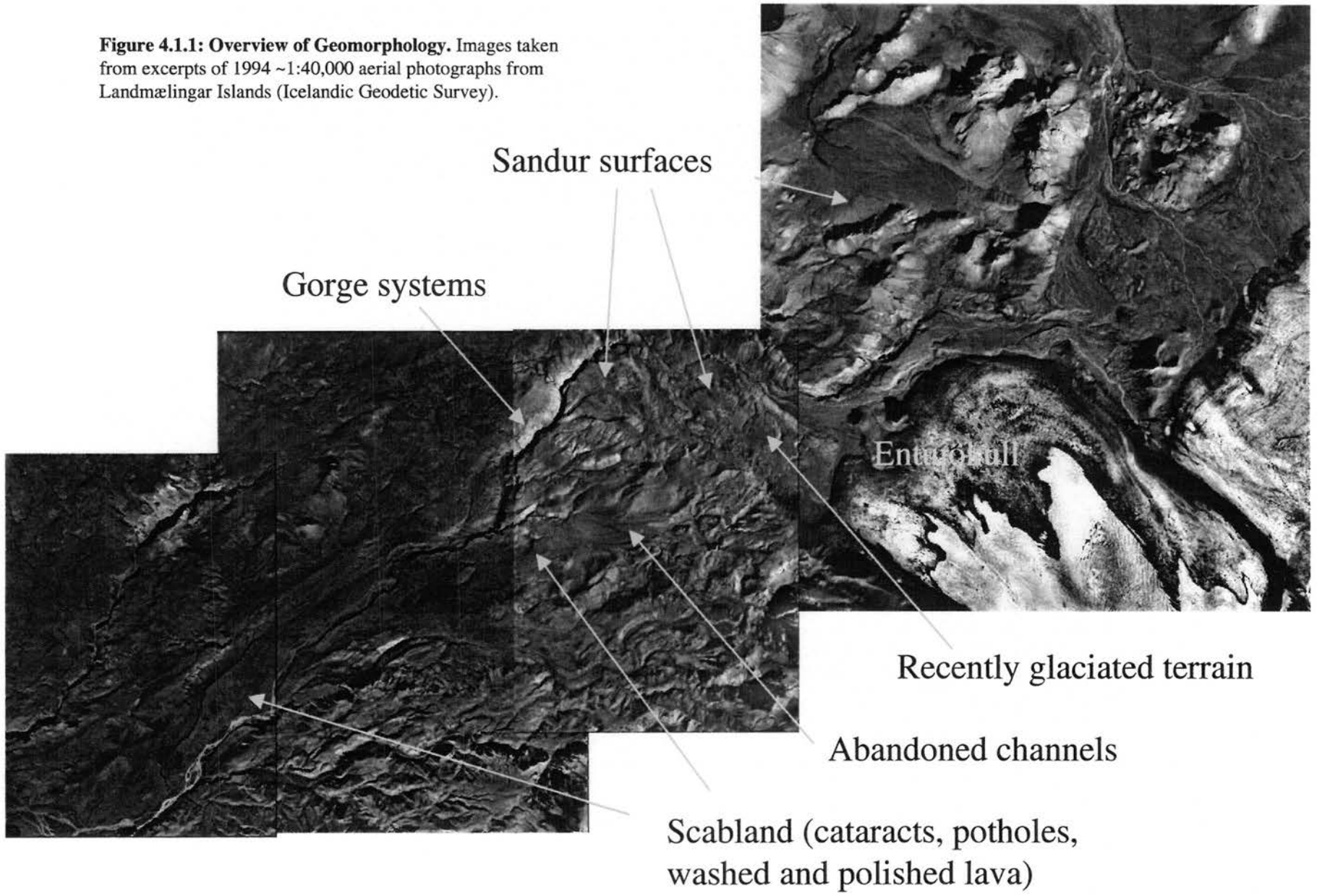


Figure 3.2.3 : Geochemical differentiation of tephra from different volcanic systems, Iceland.

Data from Tephrabase (Larsen, Newton, Dugmore and Vilmundardottir 2001, Dugmore, Newton, Larsen and Cook 2000, Duncan 2000, Larsen, Dugmore and Newton 1999, Boygle 1994). The SILK prefix indicates tephra from a silicic eruption of Katla.

Figure 4.1.1: Overview of Geomorphology. Images taken from excerpts of 1994 ~1:40,000 aerial photographs from Landmælingar Islands (Icelandic Geodetic Survey).



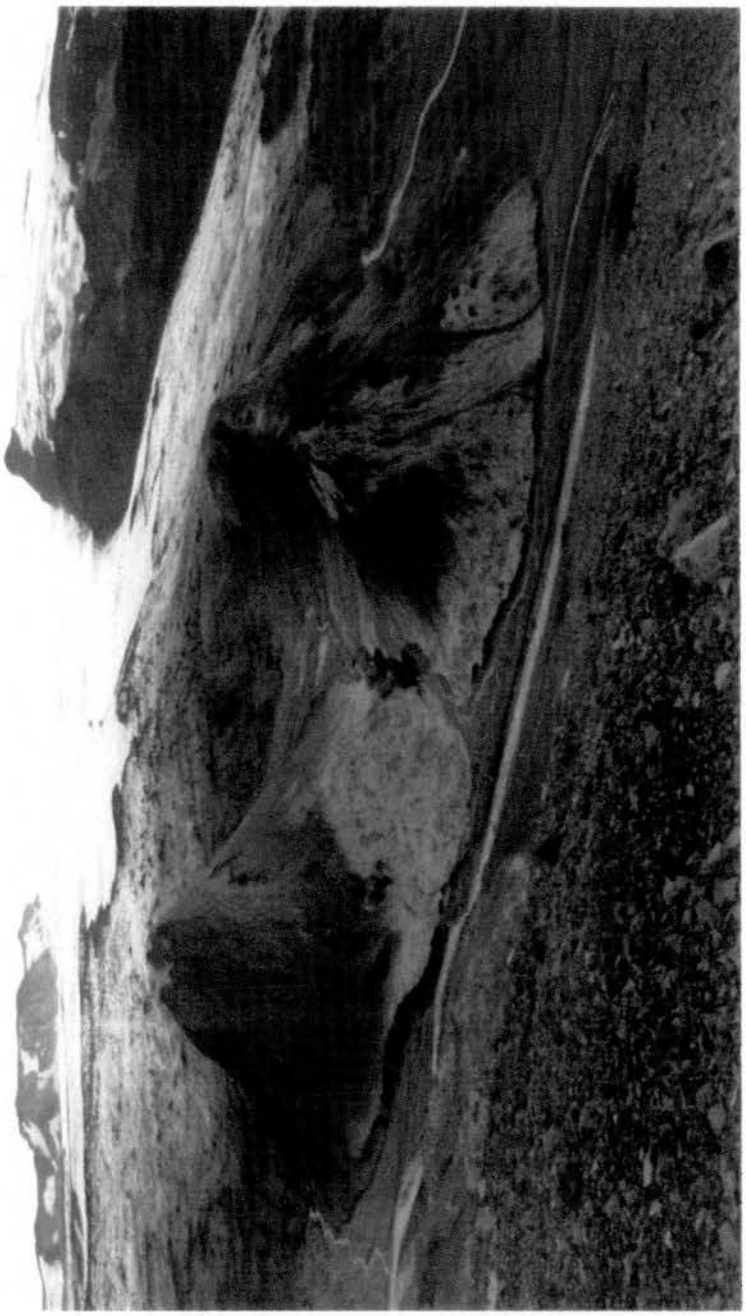
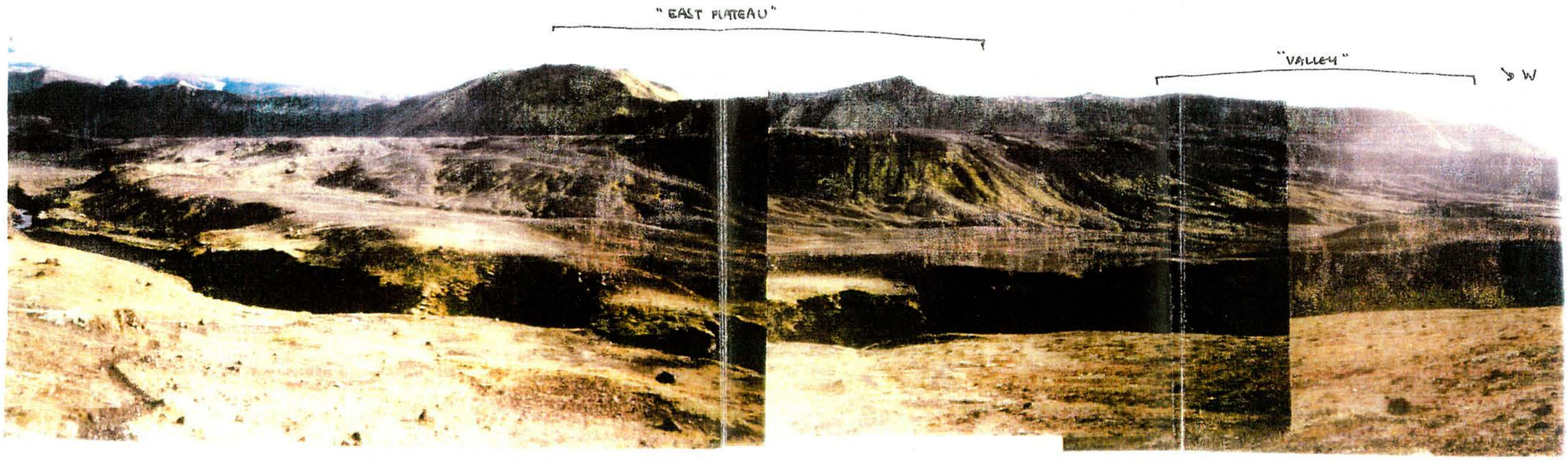


Figure 4.2.1: Entujökull from Stora Mofell.

(a)



(b)

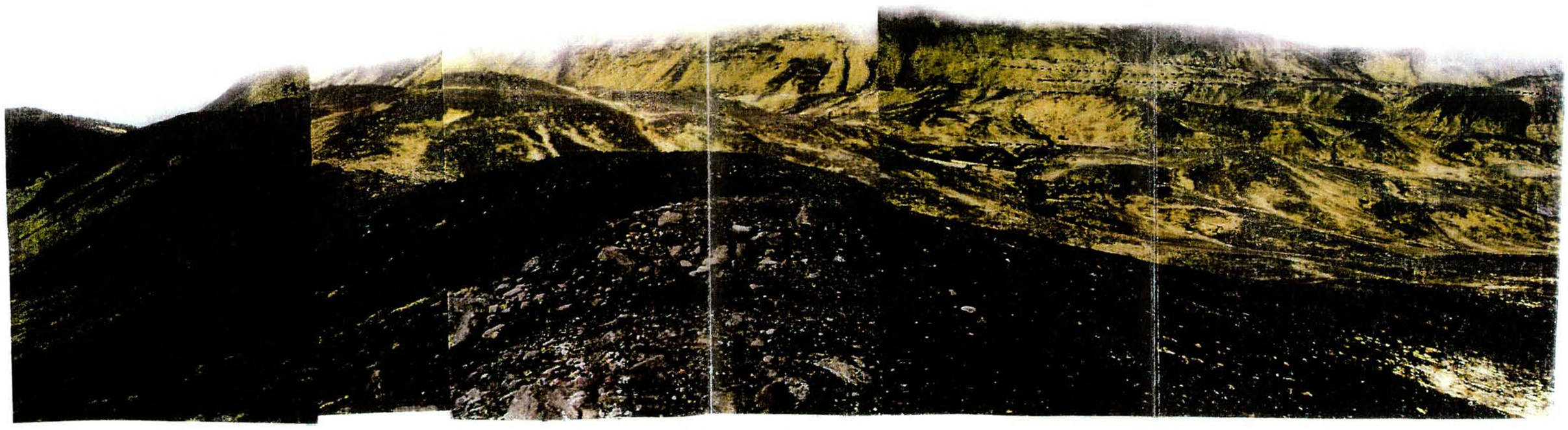


Figure 4.2.2: (a) East Plateau, (b) Limit 3d in valley between two plateaux, (c) Limit 3D against lava cliff.



Figure 4.2.2: (c) Limit 3D against lava cliff.

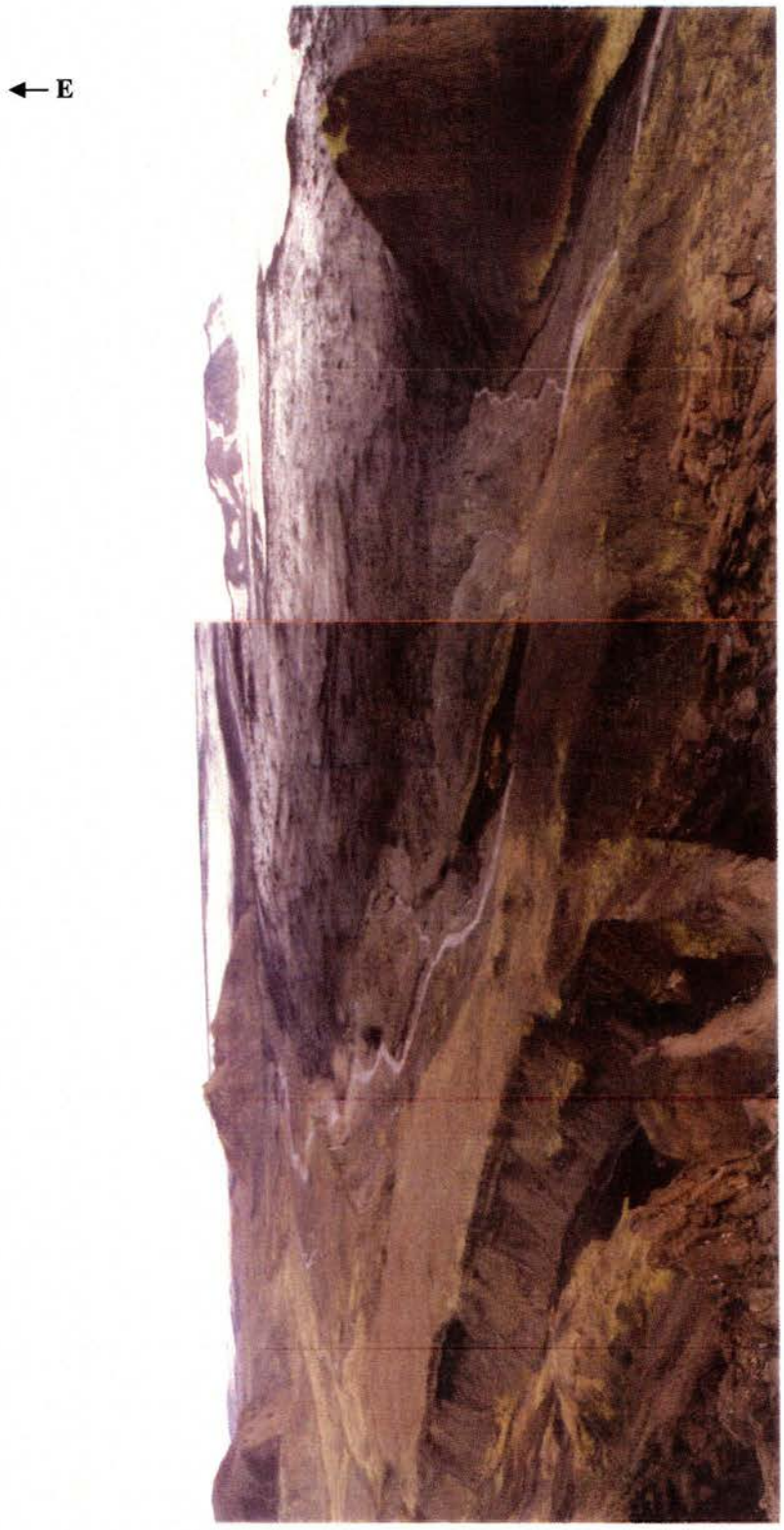


Figure 4.2.3: Northern Entujökull foreland from Stora Mofell.

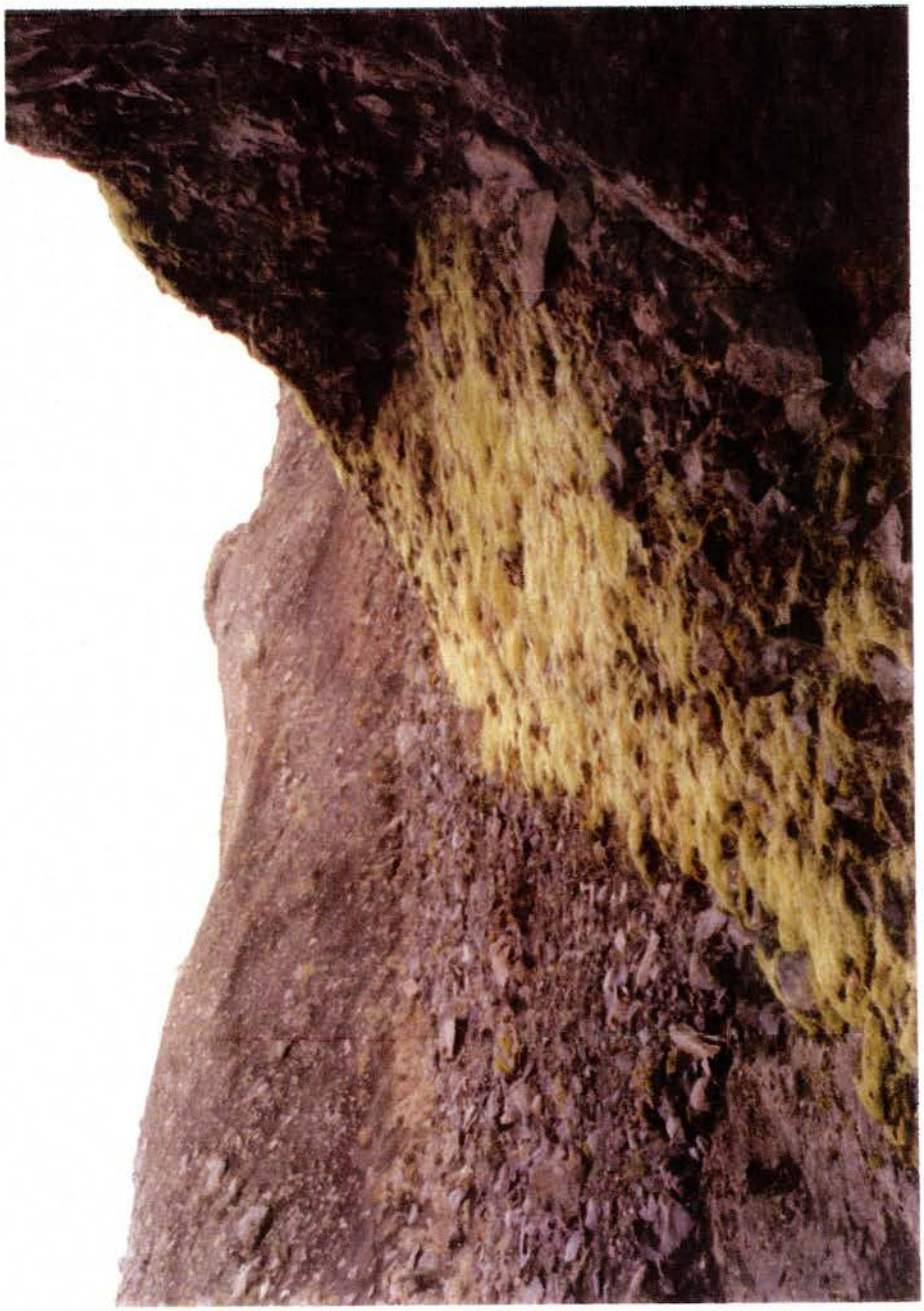


Figure 4.6.1: Channel 3.



Figure 4.6.2: Channel 3.



Figure 4.6.3: Pothole, Stora Mofell. Lens cap is 5cm in diameter.



Figure 4.7.1: North Þórsmörk channel around streamlined hill. Andrew Chamberlain for scale.



Figure 4.7.2a: North Þórsmörk scabland.



Figure 4.7.2b: Cataract. Walking pole is one metre long.



Figure 4.7.2c: Cataract with polished bedrock, potholes and overhang.

a



b

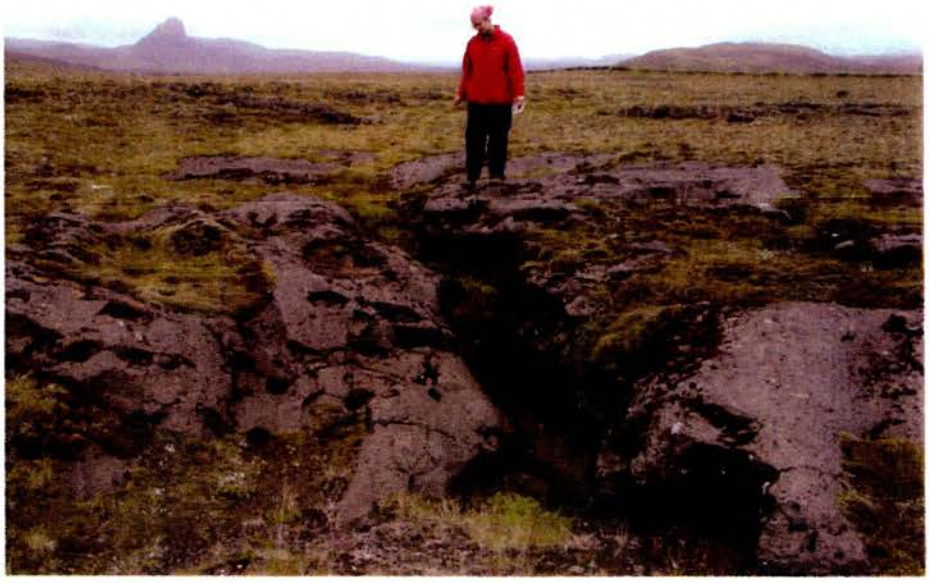


Figure 4.7.3: Klappir cataract (a) and polished channel (b). Eleanor Green and Kate Smith for scale. Photos from Andrew Casely.

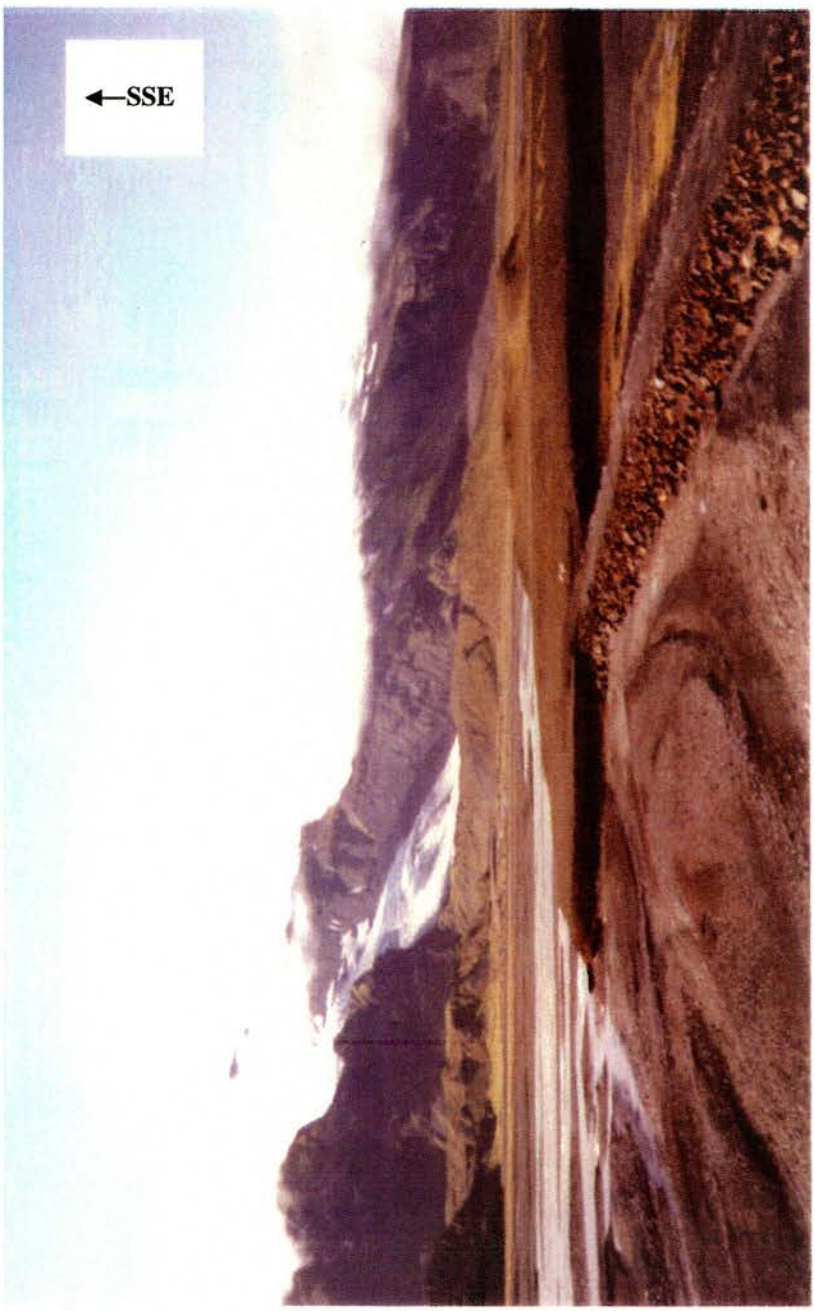
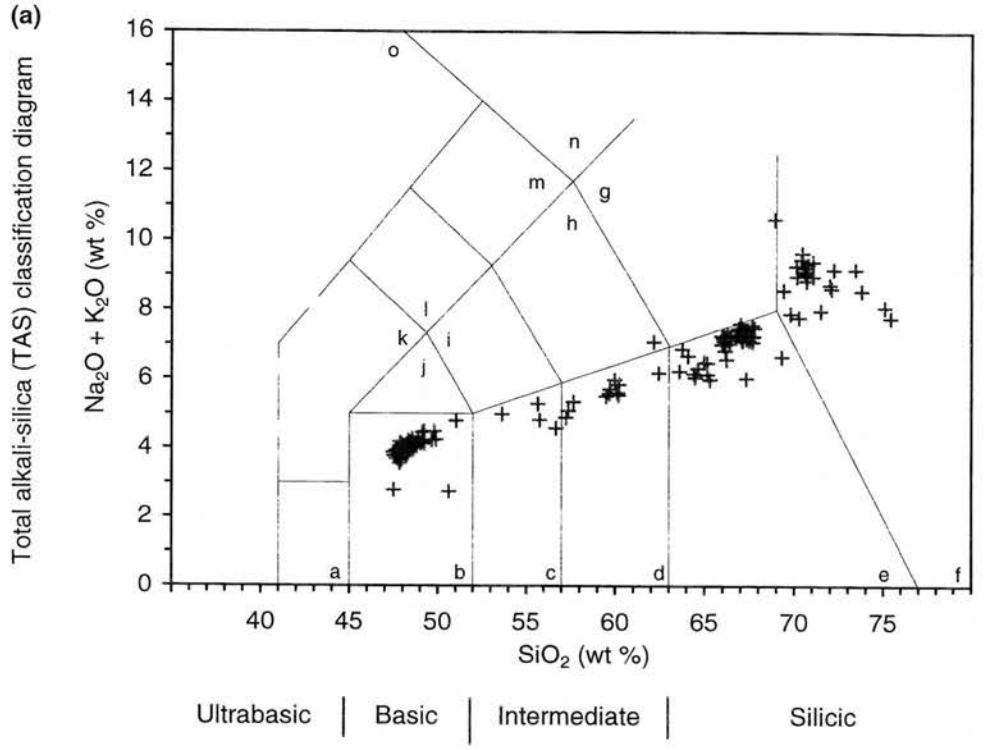


Figure 4.8.1: Halli Island.



Chemical classification and nomenclature of volcanic rocks (Le Maitre *et al*., 1989): a = Picrobasalt; b = Basalt; c = Basaltic andesite; d = Andesite; e = Dacite; f = Rhyolite; g = Trachyte (normative quartz <20%) or Trachydacite (normative quartz >20%); h = Trachyandesite; i = Basaltictrachyandesite; j = Trachybasalt; k = Tephrite (normative olivine <10%) or Basanite (normative olivine >10%); l = Phonotephrite; m = Tephriphonolite; n = Phonolite; o = Foidite.

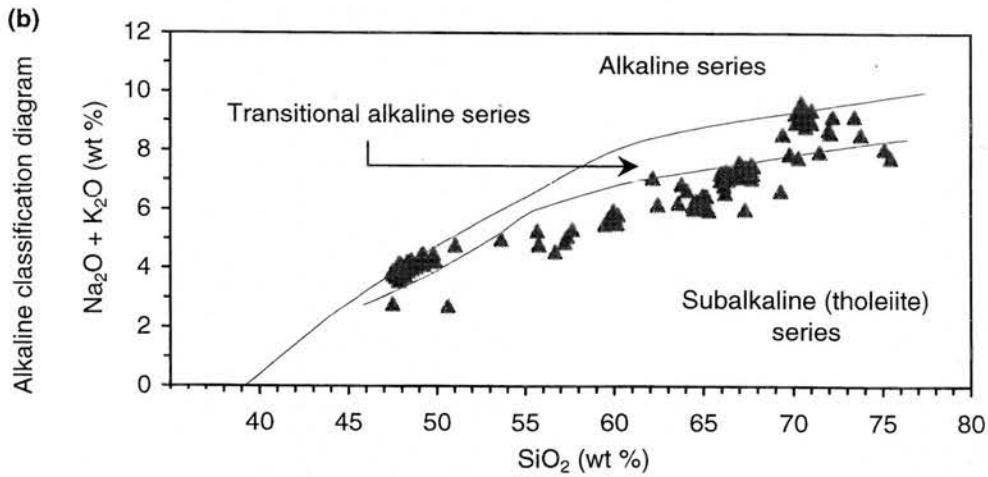


Figure 5.1.1: Classification bi-plots of glass-phase of Icelandic tephra deposits in this thesis. (a) Total alkali-silica (TAS) classification diagram and new mean EPMA data from glass shards of Icelandic tephra deposits presented in this thesis. **(b)** Subdivision of volcanic rocks into alkaline, transitional alkaline and subalkaline (tholeiitic) on a TAS diagram in relation to mean EPMA data of glass shards from tephra deposits presented in this thesis. Upper line after Irvine and Baragar (1971), lower line after Kuno (1966). Key as (a). Data has been recalculated to 100% on a H2) and CO2 free basis as recommended by Roberts (2002).

(c)

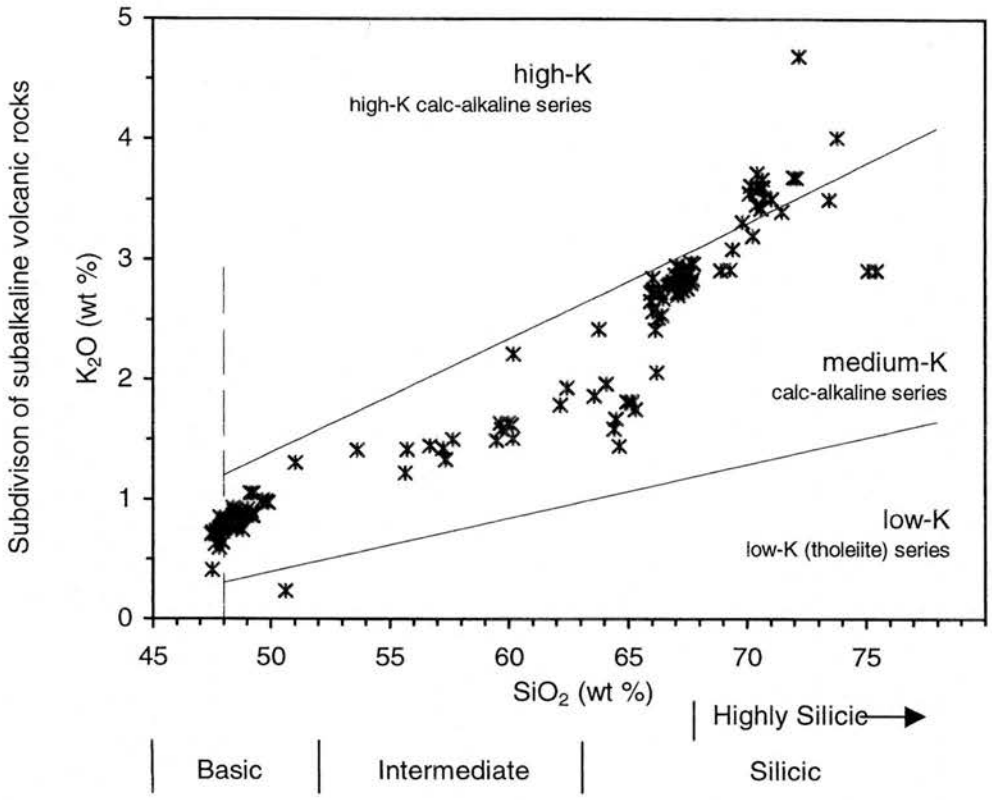


Figure 5.1.1(c): Classification binary plot of SiO2 vs. K2O of mean data for new EPMA analyses from Icelandic volcanic glass shards. This diagram is based on the subdivision of subalkalic volcanic rocks of Le Maitre et al (1989) and Rickwood (1989). Although K2) is a mobile element in volcanic glass and this subdivision was not originally intended for this purpose, it provides a good starting point to further subdivide tephra analyses. A full list of data can be found in Appendix 1.

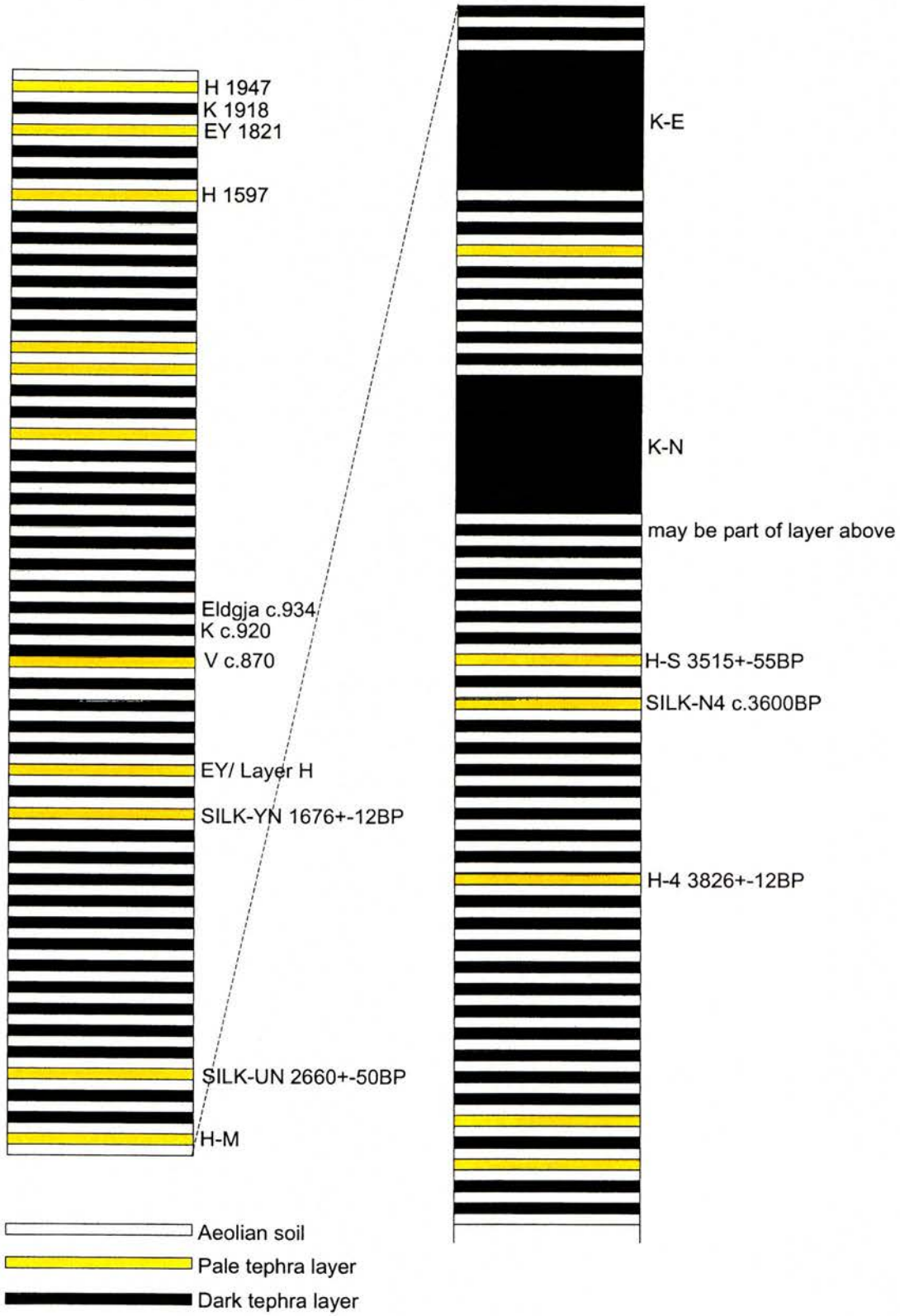
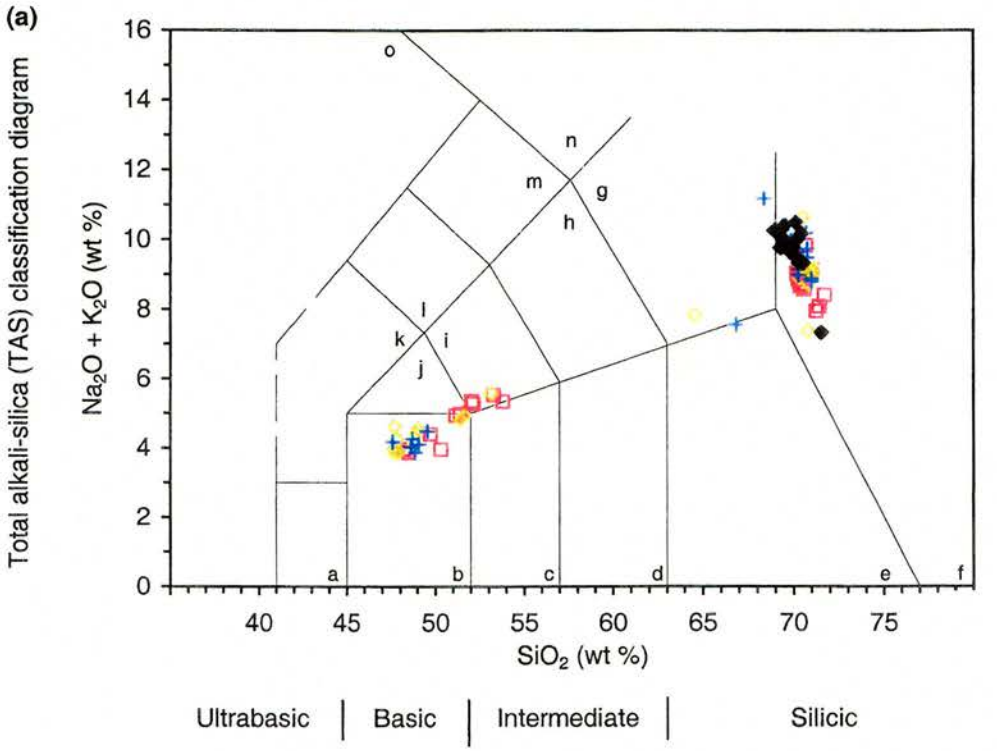


Figure 5.2.1: Tephra stratigraphy. Predominantly composed from Kanastaðir reference profile 129. Most closely refletcs tephra stratigraphy along northern valley side from Fljótshlíð to Einhyrningur.



Chemical classification and nomenclature of volcanic rocks (Le Maitre *et al*., 1989): a = Picrobasalt; b = Basalt; c = Basaltic andesite; d = Andesite; e = Dacite; f = Rhyolite; g = Trachyte (normative quartz <20%) or Trachydacite (normative quartz >20%); h = Trachyandesite; i = Basaltictrachyandesite; j = Trachybasalt; k = Tephrite (normative olivine <10%) or Basanite (normative olivine >10%); l = Phonotephrite; m = Tephriphonolite; n = Phonolite; o = Foidite.



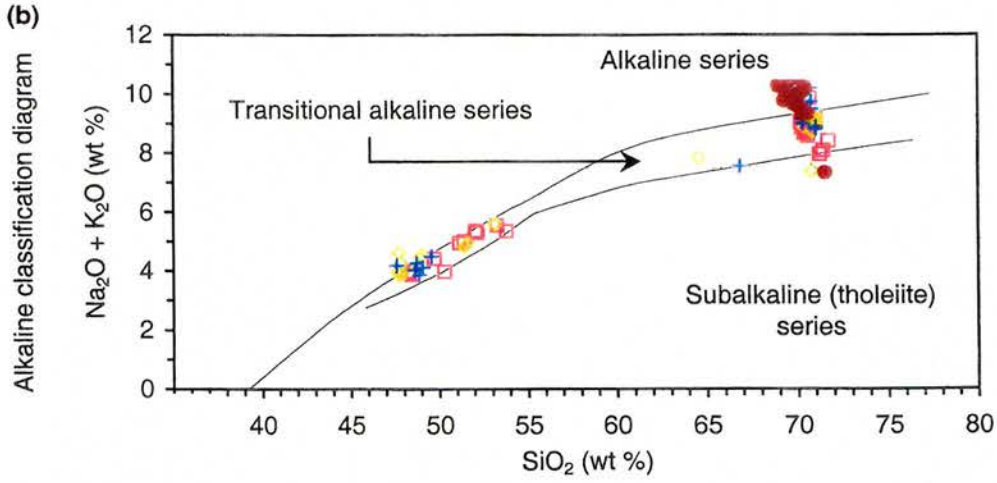


Figure 5.2.2: Classification bi-plots of glass-phase of Layer H analysed in this thesis. **(a)** Total alkali-silica (TAS) classification diagram; new EPMA data from glass shards of Layer H tephra deposits presented in this thesis and E1821-3 reference data from Dugmore et al. (1999). **(b)** Subdivision of volcanic rocks into alkaline, transitional alkaline and subalkaline (tholeiitic) on a TAS diagram compared to EPMA data of glass shards from Layer H tephra deposits presented in this thesis. Upper line after Irvine and Baragar (1971), lower line after Kuno (1966). Key as (a). Data has been recalculated to 100% on a H2) and CO2 free basis as recommended by Roberts (2002).

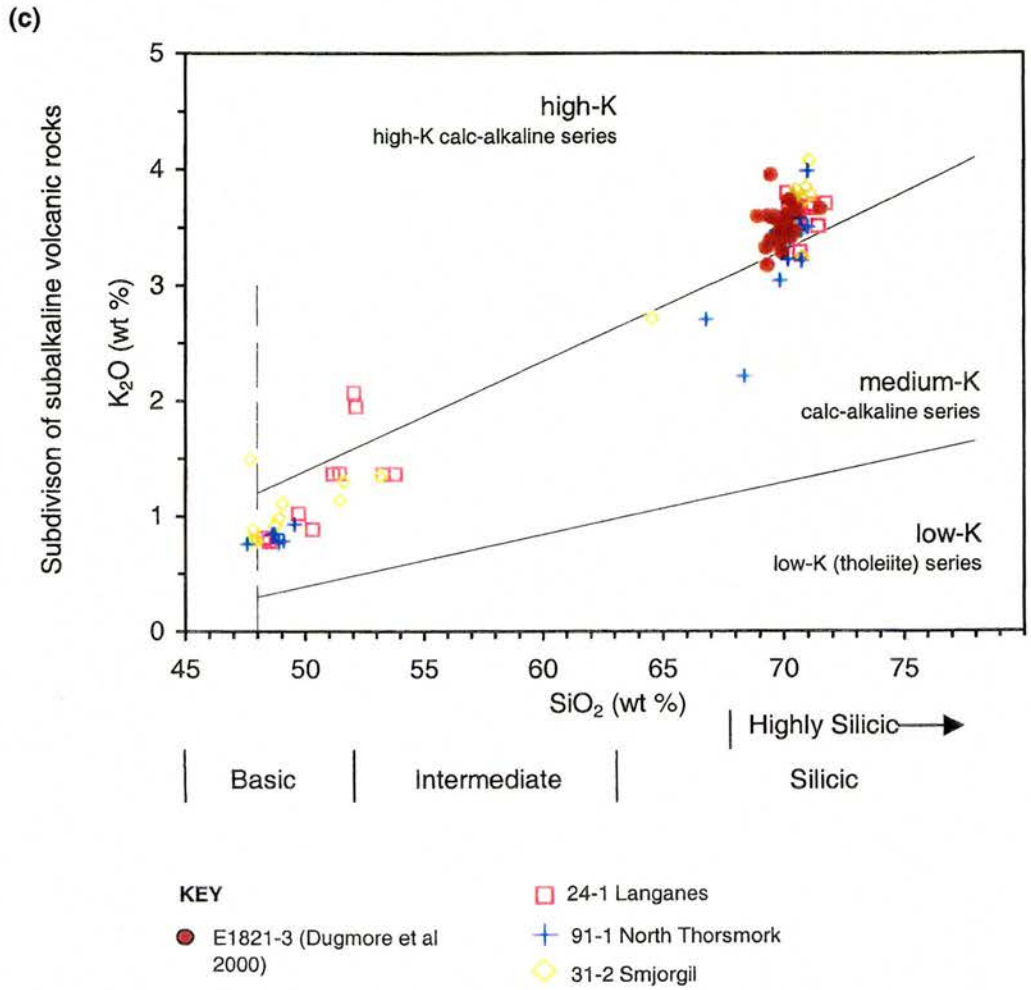


Figure 5.2.2(c): Classification binary plot of SiO2 vs. K2O of data from new EPMA analyses of Layer H glass shards. This diagram is based on the subdivision of subalkalic volcanic rocks of Le Maitre et al (1989) and Rickwood (1989). Despite the mobile nature of K2O in volcanic glass and thus potential problems with such a classification, this type of diagram has been used successfully by Roberts (2002) to aid classification of Icelandic tephra EPMA data.

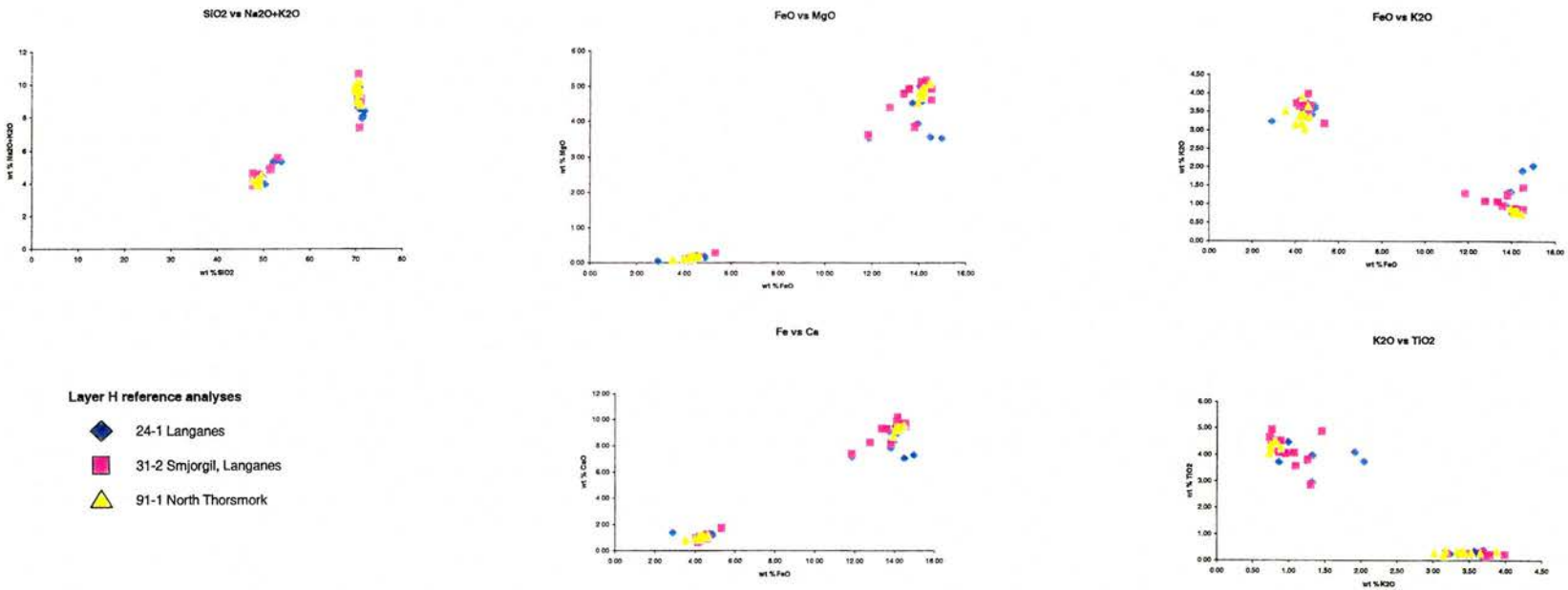
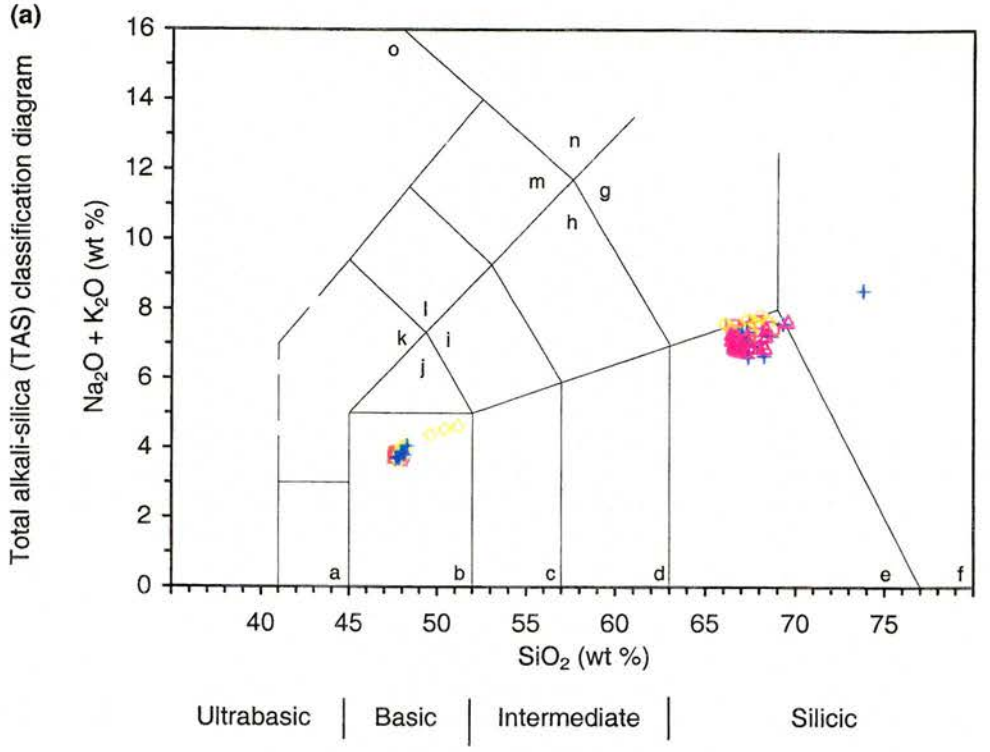


Figure 5.2.2 (d): Bi-plots of analyses of Layer H glass shards sampled from reference profiles within this thesis.



Chemical classification and nomenclature of volcanic rocks (Le Maitre *et al*., 1989): a = Picrobasalt; b = Basalt; c = Basaltic andesite; d = Andesite; e = Dacite; f = Rhyolite; g = Trachyte (normative quartz <20%) or Trachydacite (normative quartz >20%); h = Trachyandesite; i = Basaltictrachyandesite; j = Trachybasalt; k = Tephrite (normative olivine <10%) or Basanite (normative olivine >10%); l = Phonotephrite; m = Tephriphonolite; n = Phonolite; o = Foidite.

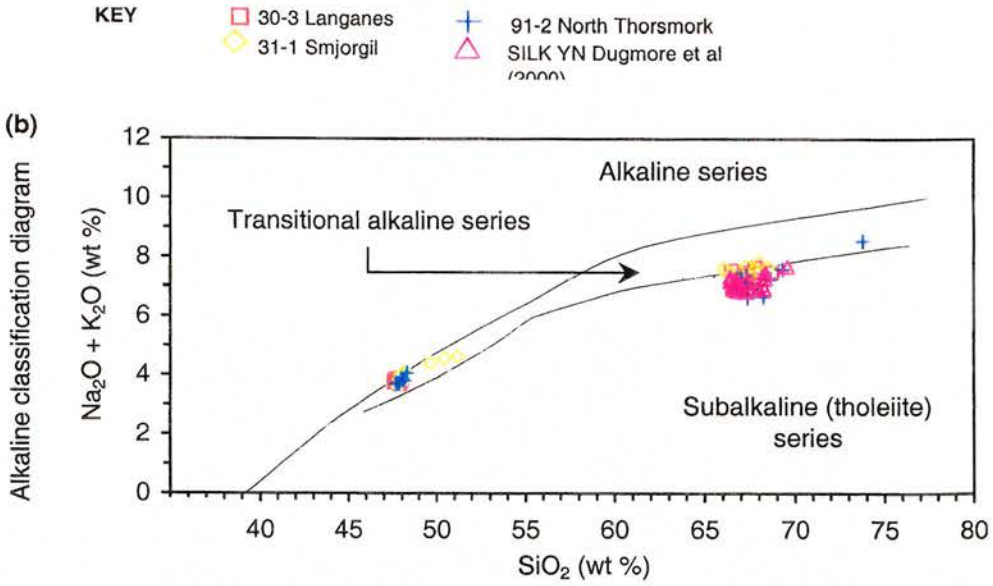


Figure 5.2.3: Classification bi-plots of glass-phase of Layer YN analysed in this thesis. **(a)** Total alkali-silica (TAS) classification diagram; new EPMA data from glass shards of Layer YN tephra deposits presented in this thesis and SILK YN reference data from Dugmore et al. (2000). For full data sets see Appendix 1. **(b)** Subdivision of volcanic rocks into alkaline, transitional alkaline and subalkaline (tholeiitic) on a TAS diagram compared to EPMA data of glass shards from Layer YN tephra deposits presented in this thesis. Upper line after Irvine and Baragar (1971), lower line after Kuno (1966). Key as (a). Data has been recalculated to 100% on a H2) and CO2 free basis as recommended by Roberts (2002).

(c)

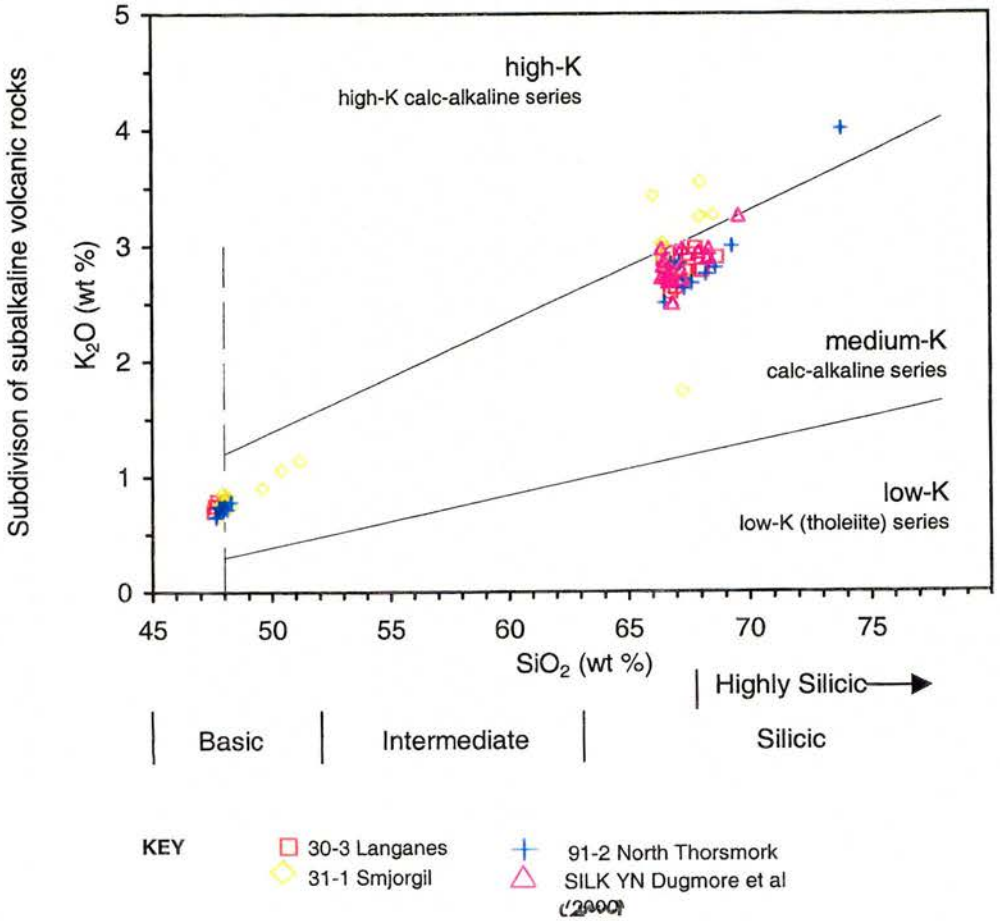


Figure 5.2.3(c): Classification binary plot of SiO2 vs. K2O of data from new EPMA analyses of Layer YN glass shards. This diagram is based on the subdivision of subalkalic volcanic rocks of Le Maitre et al (1989) and Rickwood (1989). Despite the fact that K2O is a mobile oxide in volcanic glass and this type of plot was not intended for such a purpose, Roberts (2002) recommends and successfully uses this approach as a starting point to further classification of EPMA data. Full data lists are in Appendix 1.

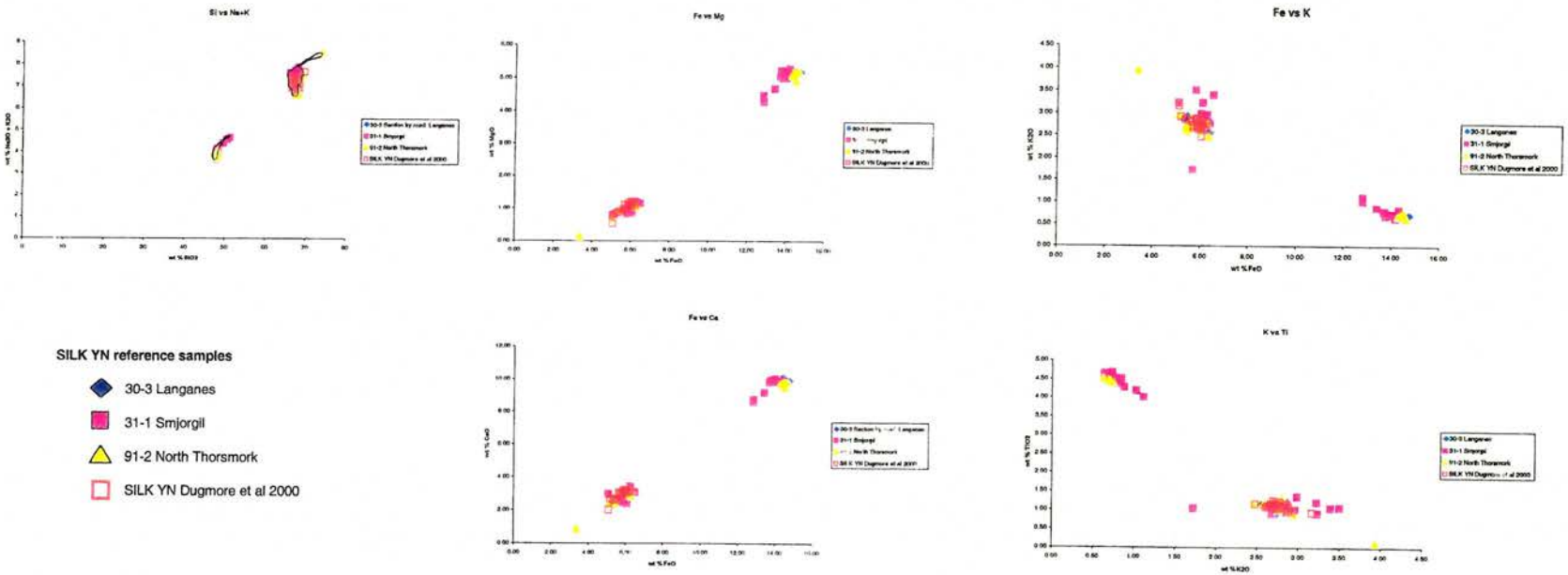
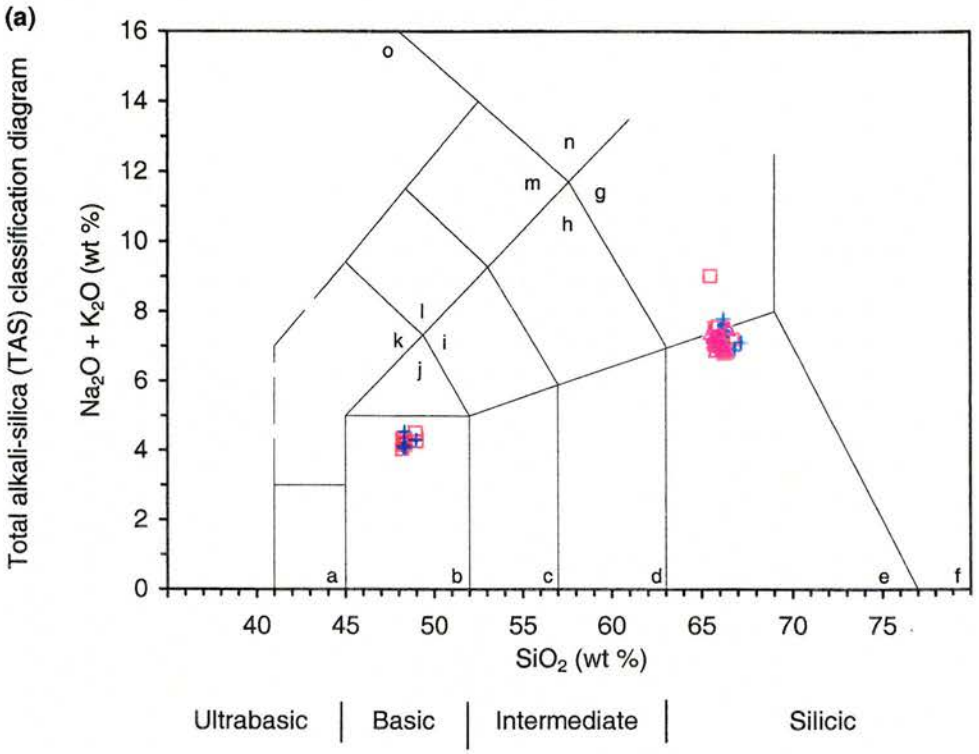


Figure 5.2.3(d): Bi-plots of analyses of Layer YN glass shards sampled from reference profiles within this thesis.



Chemical classification and nomenclature of volcanic rocks (Le Maitre *et al*., 1989): a = Picrobasalt; b = Basalt; c = Basaltic andesite; d = Andesite; e = Dacite; f = Rhyolite; g = Trachyte (normative quartz <20%) or Trachydacite (normative quartz >20%); h = Trachyandesite; i = Basaltictrachyandesite; j = Trachybasalt; k = Tephrite (normative olivine <10%) or Basanite (normative olivine >10%); l = Phonotephrite; m = Tephriphonolite; n = Phonolite; o = Foidite.

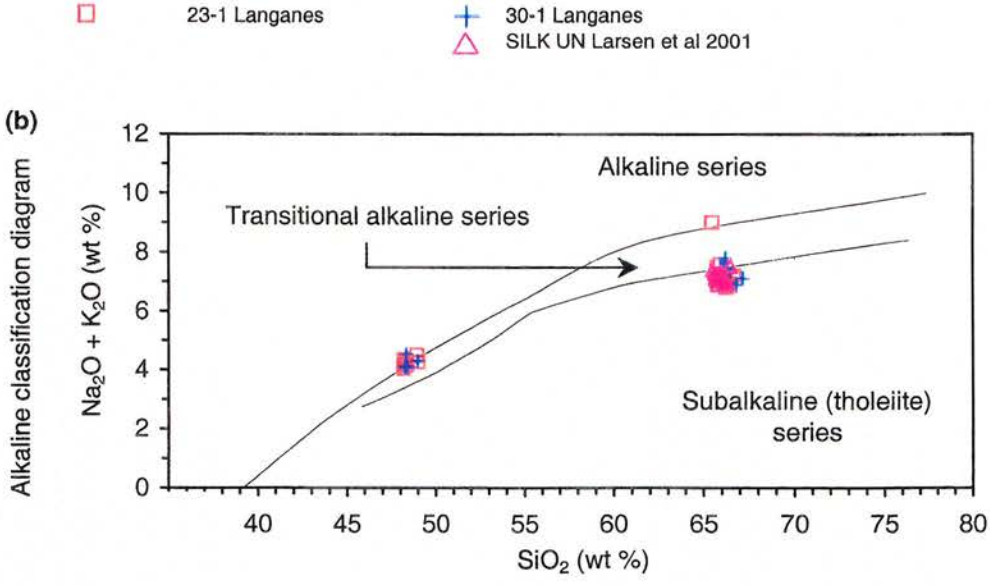


Figure 5.2.4: Classification bi-plots of glass-phase of Layer UN analysed in this thesis. (a) Total alkali-silica (TAS) classification diagram; new EPMA data from glass shards of Layer UN tephra deposits presented in this thesis and SILK UN reference data from Larsen et al. (2001). For full data sets see Appendix 1. **(b)** Subdivision of volcanic rocks into alkaline, transitional alkaline and subalkaline (tholeiitic) on a TAS diagram compared to EPMA data of glass shards from Layer UN tephra deposits presented in this thesis. Upper line after Irvine and Baragar (1971), lower line after Kuno (1966). Key as (a). Data has been recalculated to 100% on a H2) and CO2 free basis as recommended by Roberts (2002).

(c)

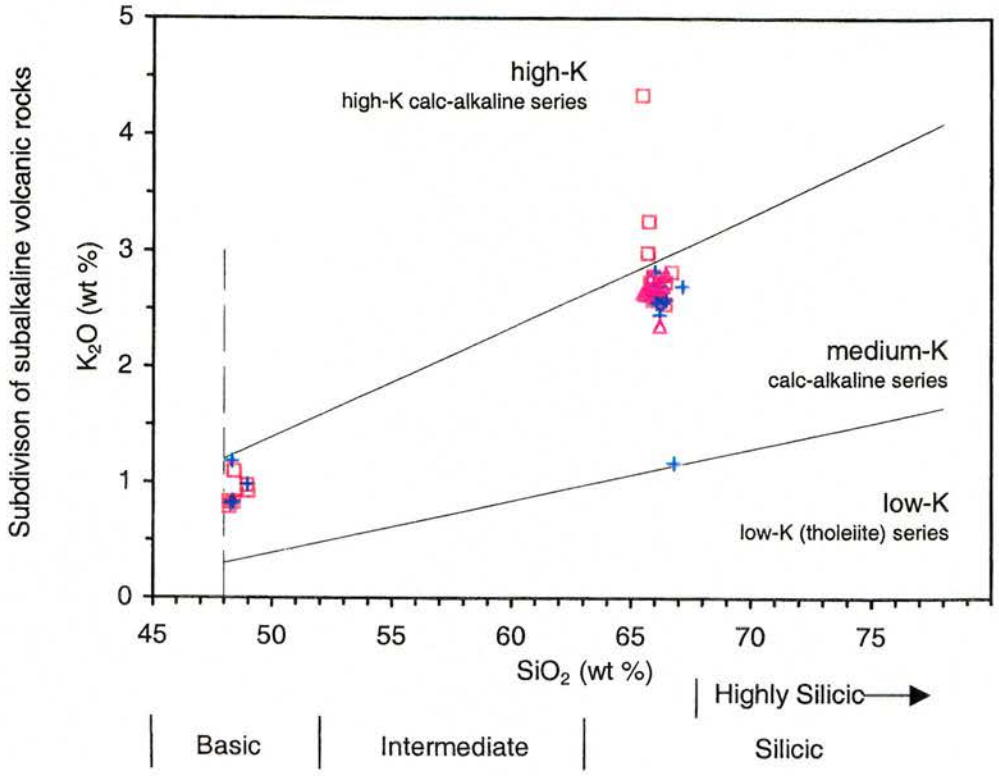
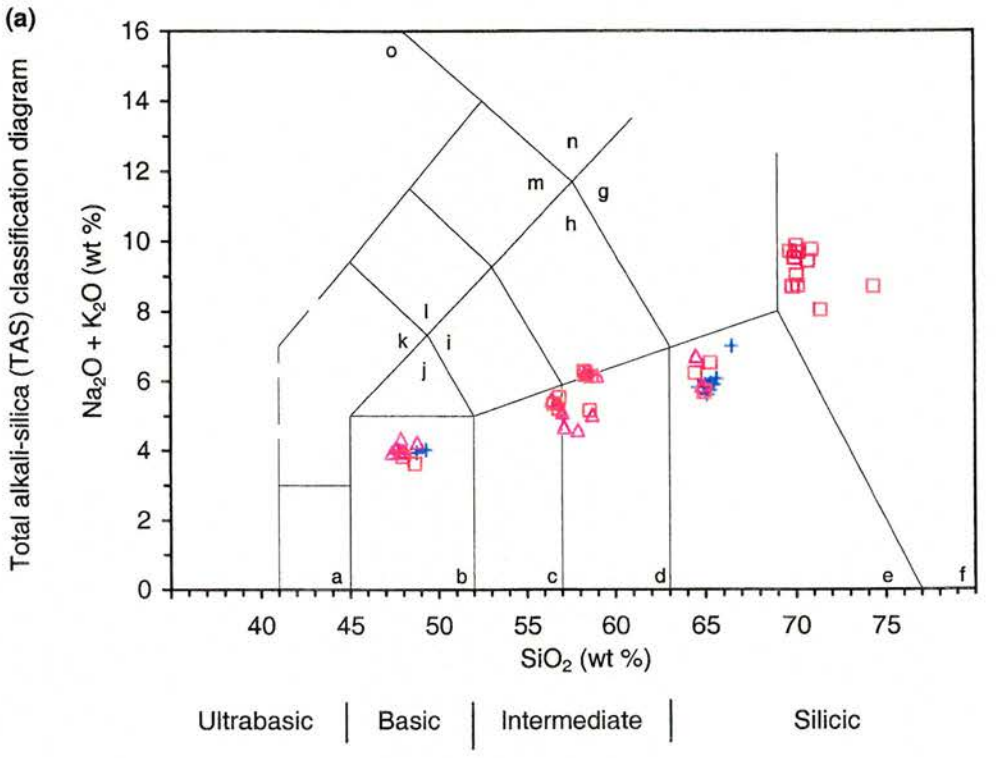


Figure 5.2.4(c): Classification binary plot of SiO2 vs. K2O of data from new EPMA analyses of Layer UN glass shards. This diagram is based on the subdivision of subalkalic volcanic rocks of Le Maitre et al (1989) and Rickwood (1989). Despite the fact that K2O is a mobile oxide in volcanic glass and this type of plot was not intended for such a purpose, Roberts (2002) recommends and successfully uses this approach as a starting point to further classification of EPMA data. Full data lists are in Appendix 1.



Chemical classification and nomenclature of volcanic rocks (Le Maitre *et al*., 1989): a = Picrobasalt; b = Basalt; c = Basaltic andesite; d = Andesite; e = Dacite; f = Rhyolite; g = Trachyte (normative quartz <20%) or Trachydacite (normative quartz >20%); h = Trachyandesite; i = Basaltictrachyandesite; j = Trachybasalt; k = Tephrite (normative olivine <10%) or Basanite (normative olivine >10%); l = Phonotephrite; m = Tephriphonolite; n = Phonolite; o = Foidite.

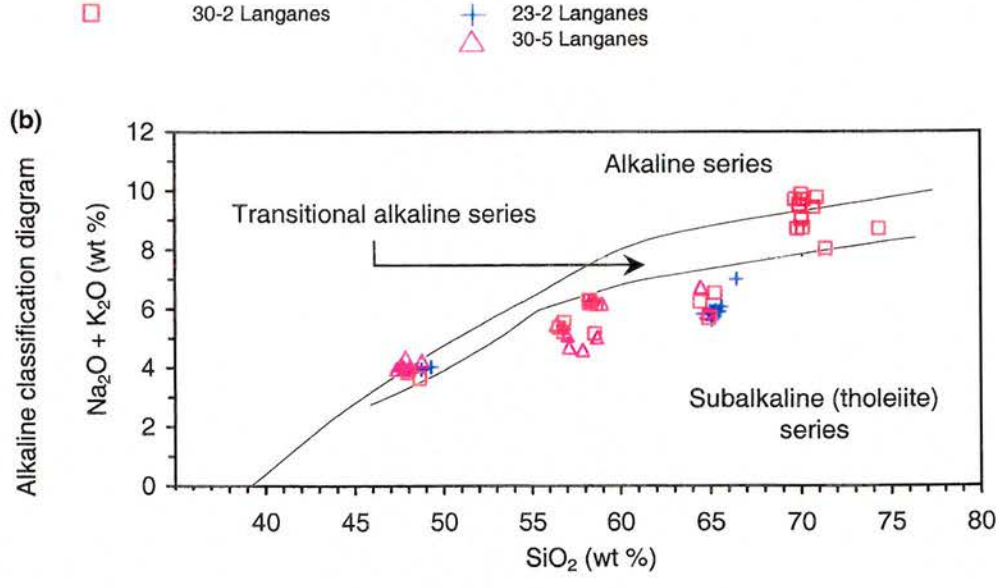


Figure 5.2.5: Classification bi-plots of glass-phase of Layer H-M analysed in this thesis. (a) Total alkali-silica (TAS) classification diagram; new EPMA data from glass shards of Layer H-M tephra deposits presented in this thesis. For full data sets see Appendix 1. **(b)** Subdivision of volcanic rocks into alkaline, transitional alkaline and subalkaline (tholeiitic) on a TAS diagram compared to EPMA data of glass shards from Layer H-M tephra deposits presented in this thesis. Upper line after Irvine and Baragar (1971), lower line after Kuno (1966). Key as (a). Data has been recalculated to 100% on a H2) and CO2 free basis as recommended by Roberts (2002).

(c)

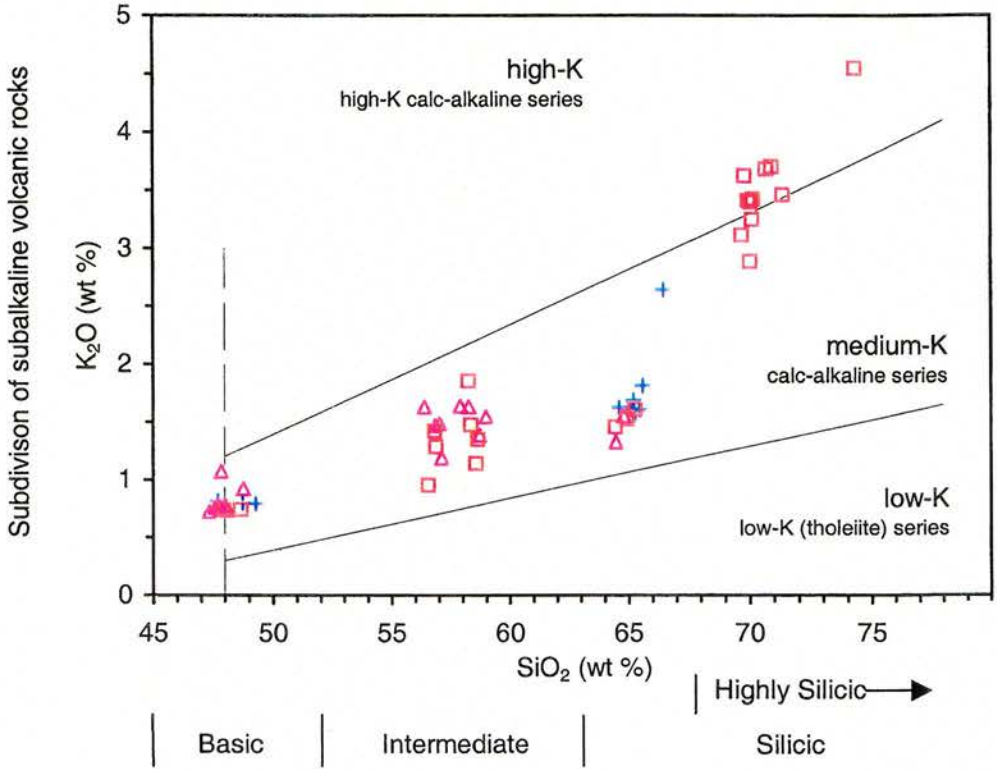
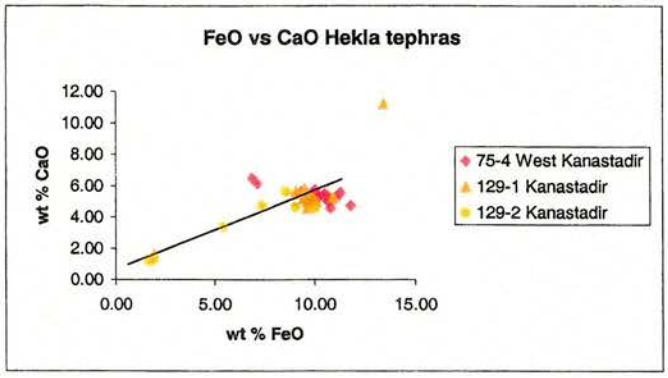
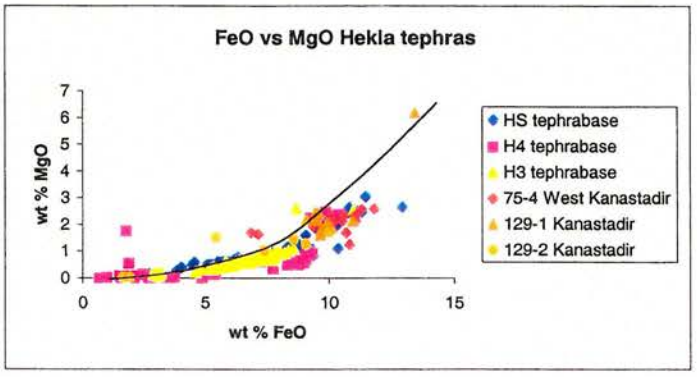
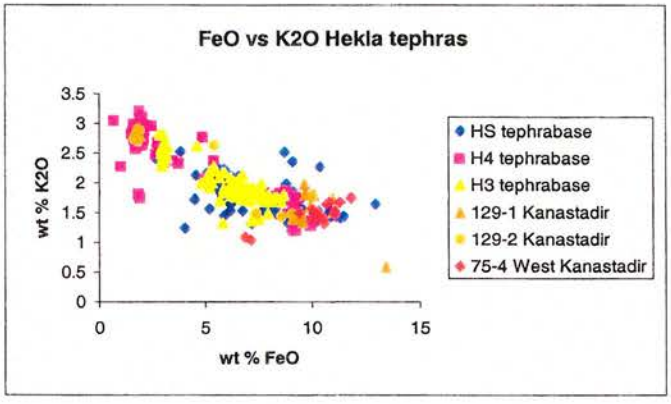


Figure 5.2.5(c): Classification binary plot of SiO2 vs. K2O of data from new EPMA analyses of Layer H-M glass shards. This diagram is based on the subdivision of subalkalic volcanic rocks of Le Maitre et al (1989) and Rickwood (1989). Despite the fact that K2O is a mobile oxide in volcanic glass and this type of plot was not intended for such a purpose, Roberts (2002) recommends and successfully uses this approach as a starting point to further classification of EPMA data. Full data lists are in Appendix 1.







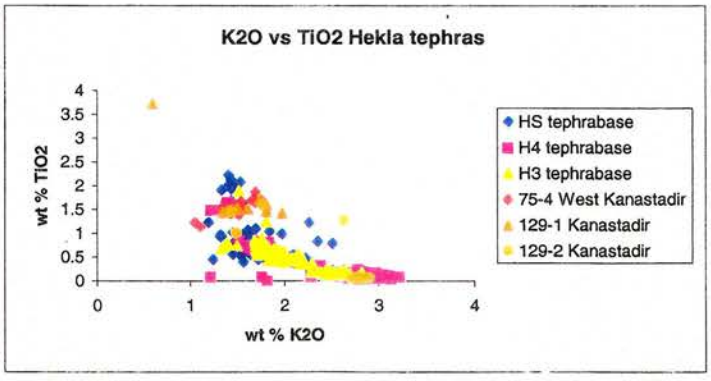


Figure 5.2.6: Hekla 4 analyses *(this thesis)* **and reference Hekla analyses** *(data from http://www.tephrabase.co.uk).*

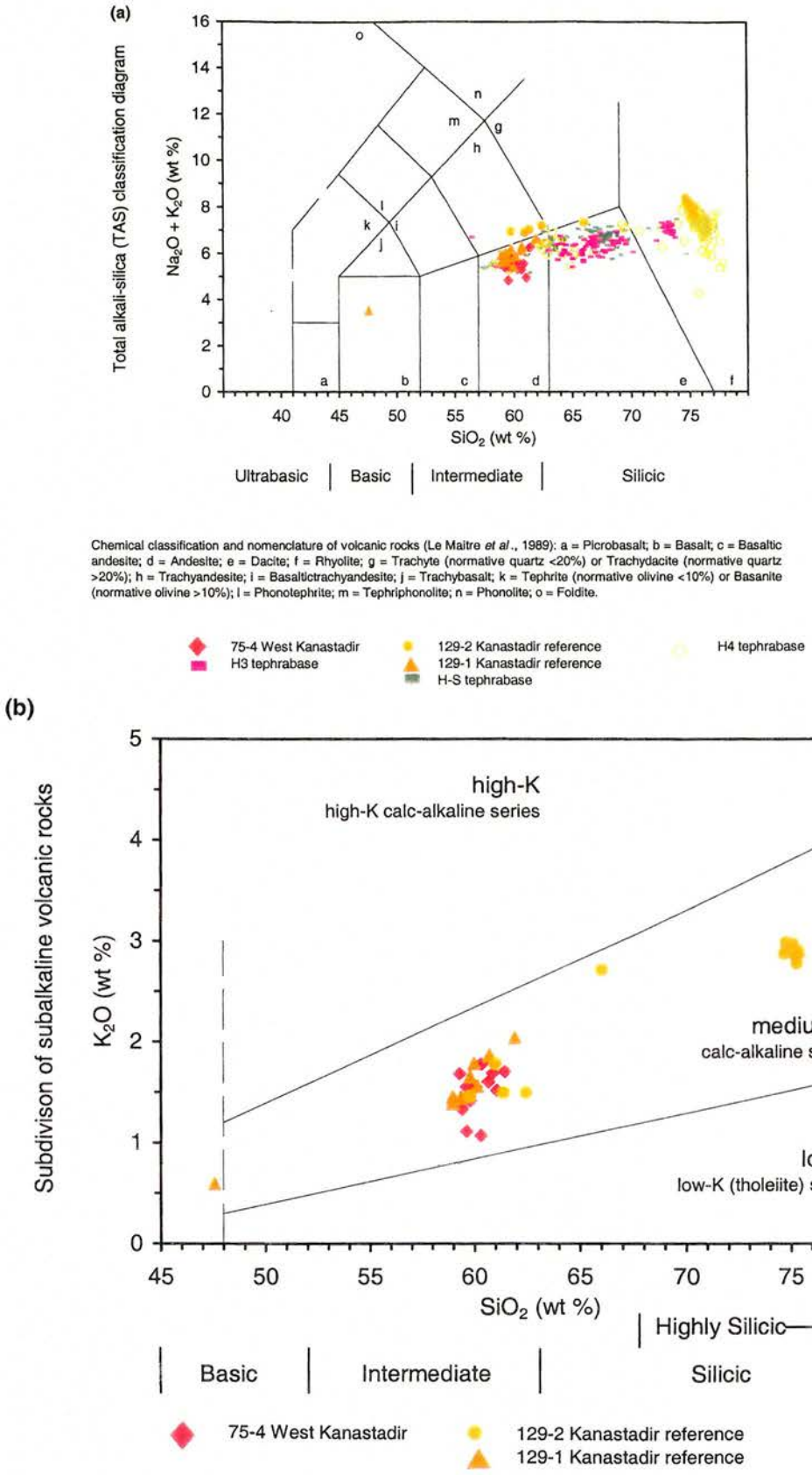


Figure 5.2.7: Classification bi-plots of glass-phase of Layer Hekla 4 analysed in this thesis. (a) Total alkali-silica (TAS) classification diagram; new EPMA data from glass shards of Layer Hekla 4 tephra deposits presented in this thesis. For full data sets see Appendix 1. **(b)** Classification binary plot of SiO2 vs. K2O of data from new EPMA analyses of Layer Hekla 4 glass shards. This diagram is based on the subdivision of subalkalic volcanic rocks of Le Maitre et al (1989) and Rickwood (1989). Despite the fact that K2O is a mobile oxide in volcanic glass and this type of plot was not intended for such a purpose, Roberts (2002) recommends and successfully uses this approach as a starting point to further classification of EPMA data. Full data lists are in Appendix 1.

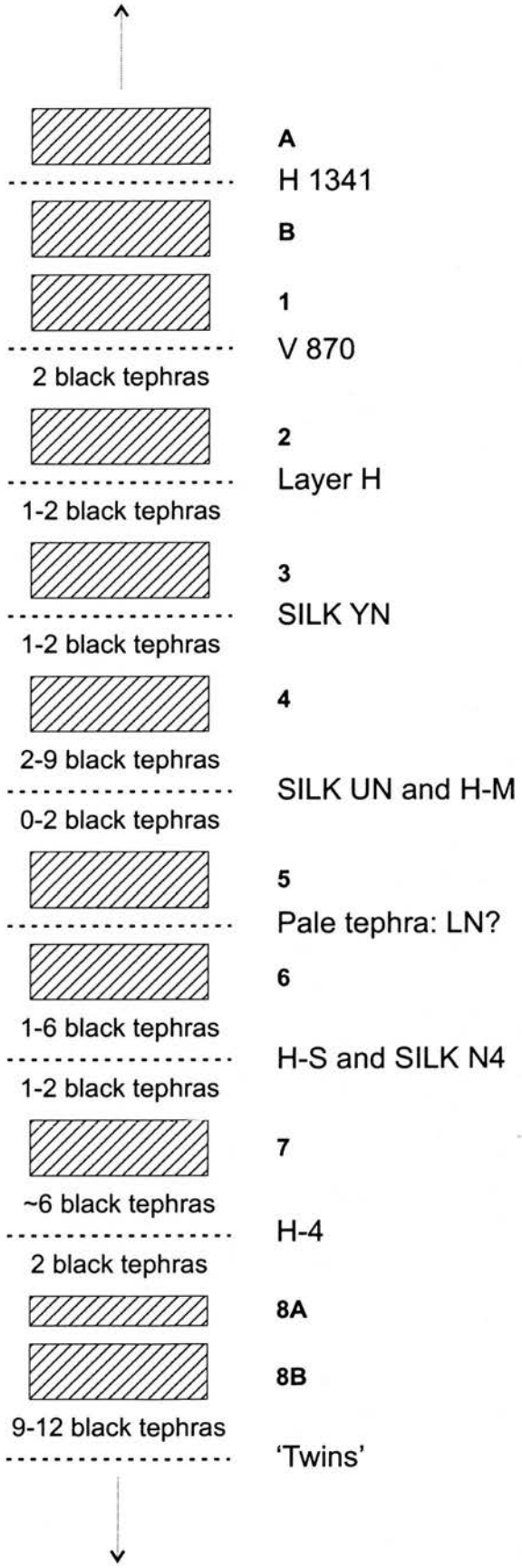


Figure 6.1.1: Flood deposit stratigraphy. Boxes refer to 'flood' deposits. Dashed lines indicate tephras or groups of tephra layers.

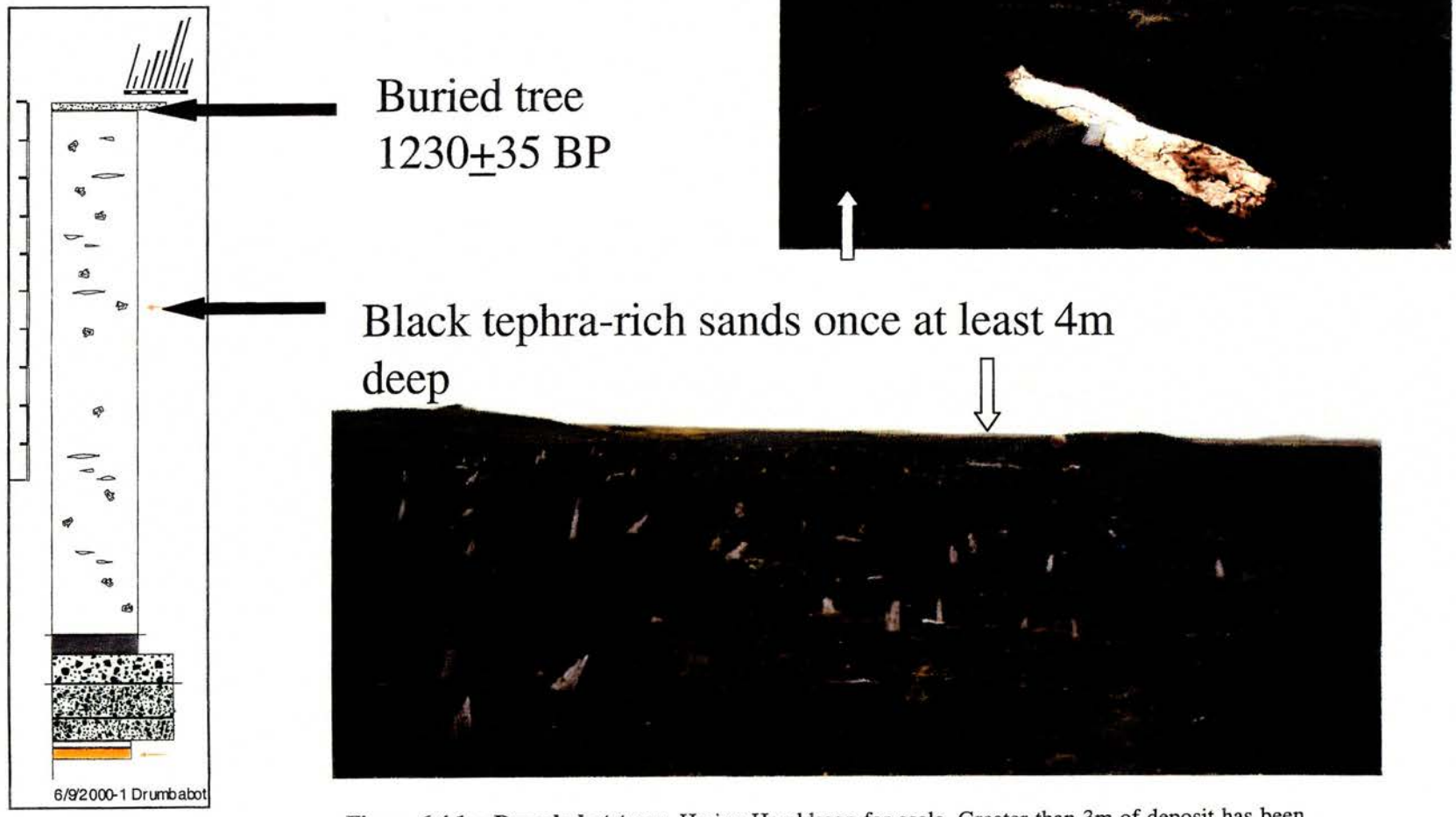


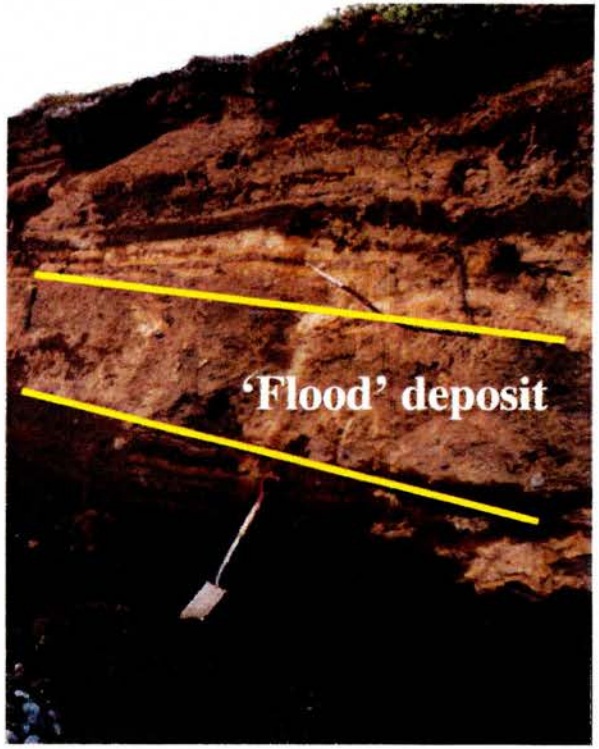
Figure 6.4.1a: Drumbabot trees. Hreinn Haraldsson for scale. Greater than 3m of deposit has been eroded from this surface by wind.

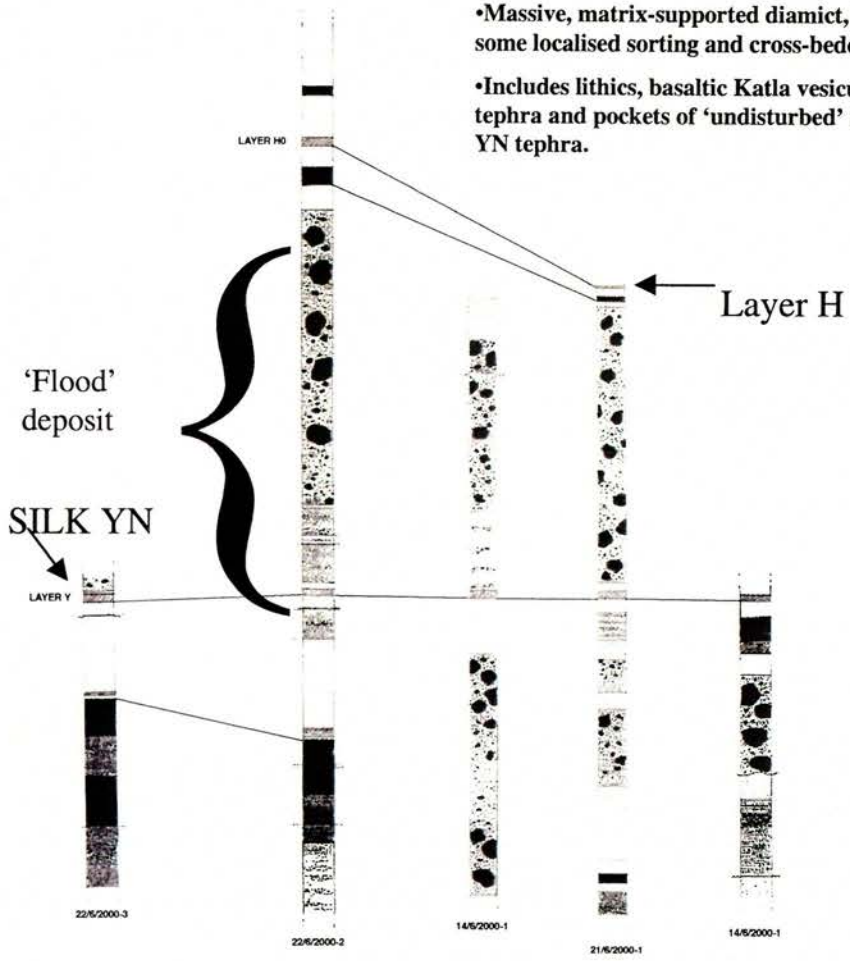


Figure 6.4.1b: Excavated tree at Drumbabot.

Figure 6.5.1: Unit 3 ('Smjörgil') at Smjörgil gully near Gigjökull.

- **71-107cm thick.**
- **Clast up to 15cm.**
- **Clasts orientated NNE-SSW.**
- **Massive, matrix-supported diamict, but some localised sorting and cross-bedding.**
- **Includes lithics, basaltic Katla vesicular tephra and pockets of 'undisturbed' SILK YN tephra.**





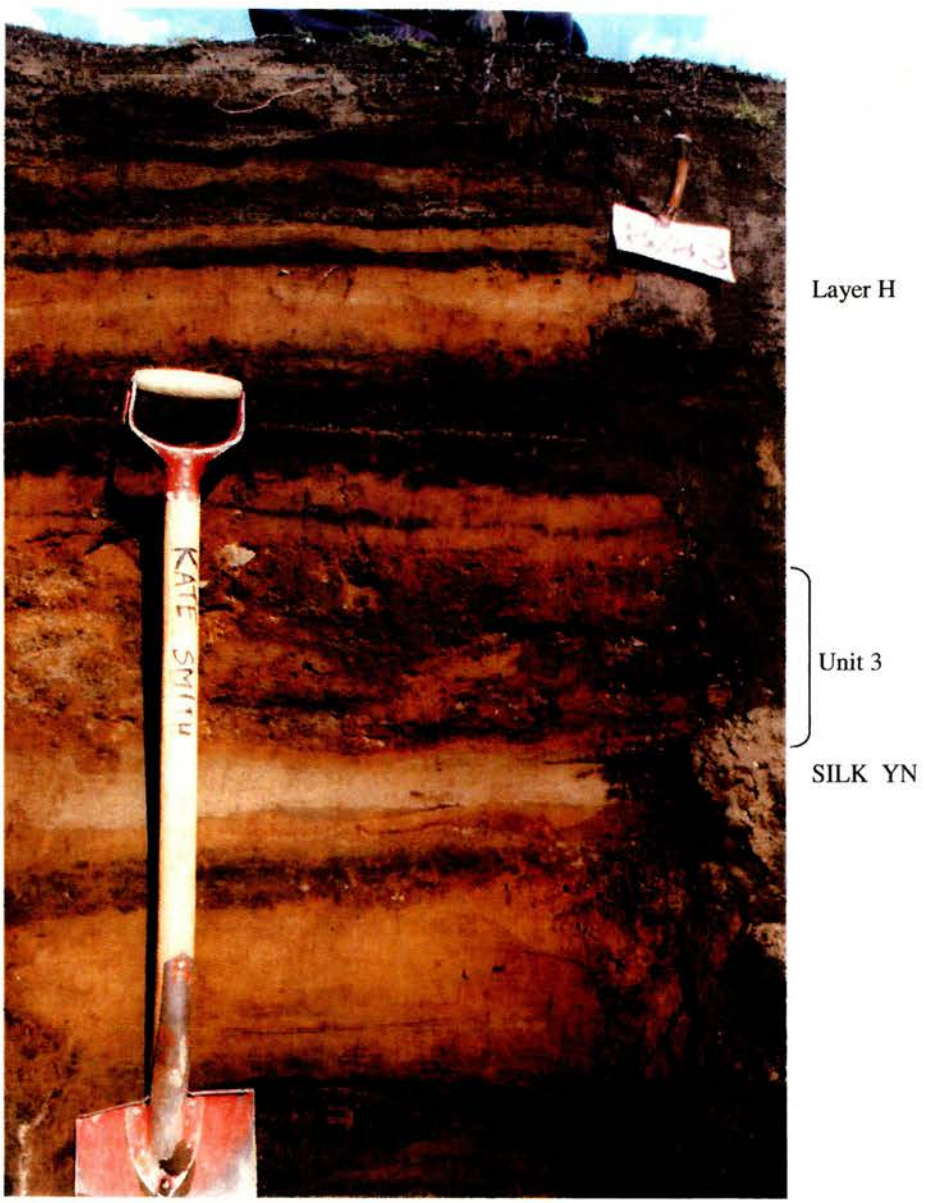
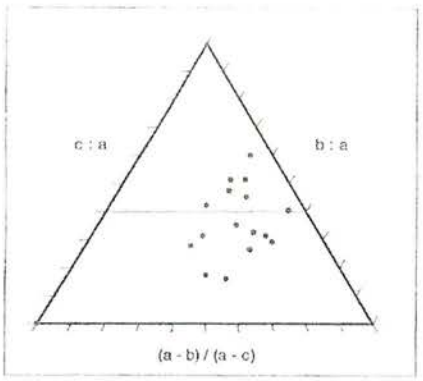
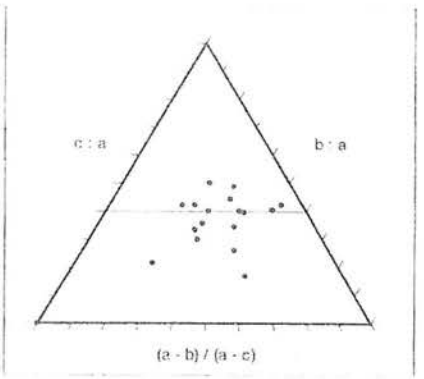


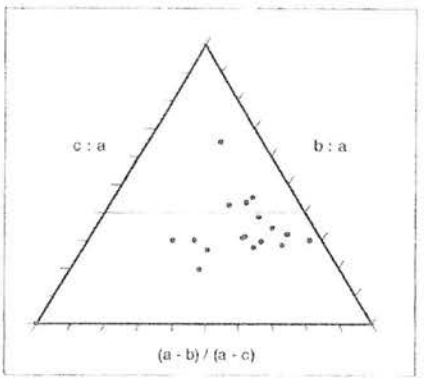
Figure 6.5.2: Profile 81, North Þórsmörk



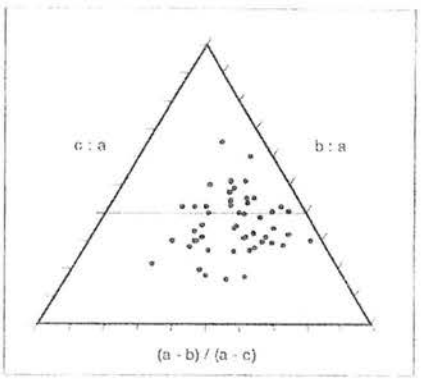
Profile 16, Unit 3, S



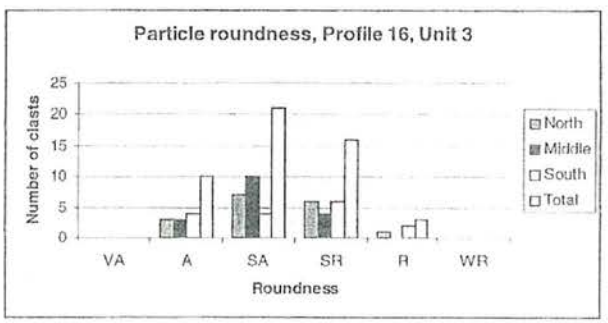
Profile 16, Unit 3, N



Profile 16, Unit 3, middle



Profile 16, Unit 3, all



Particle roundness, Profile 16, Unit 3

Figure 6.5.3: Clast shape data for Unit 3, Profile 16.

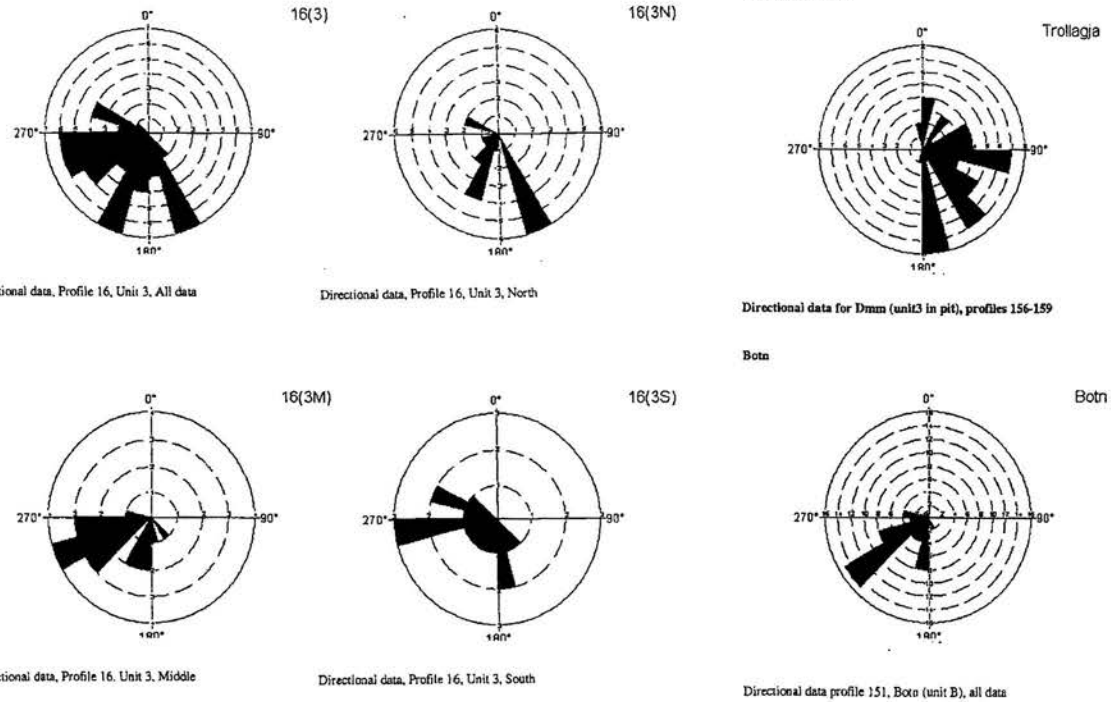
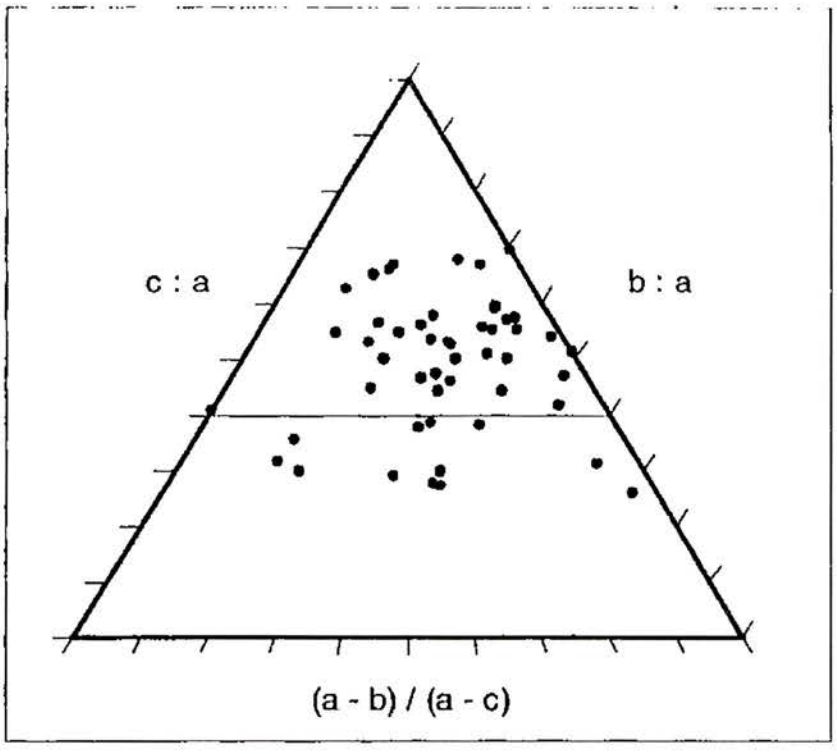
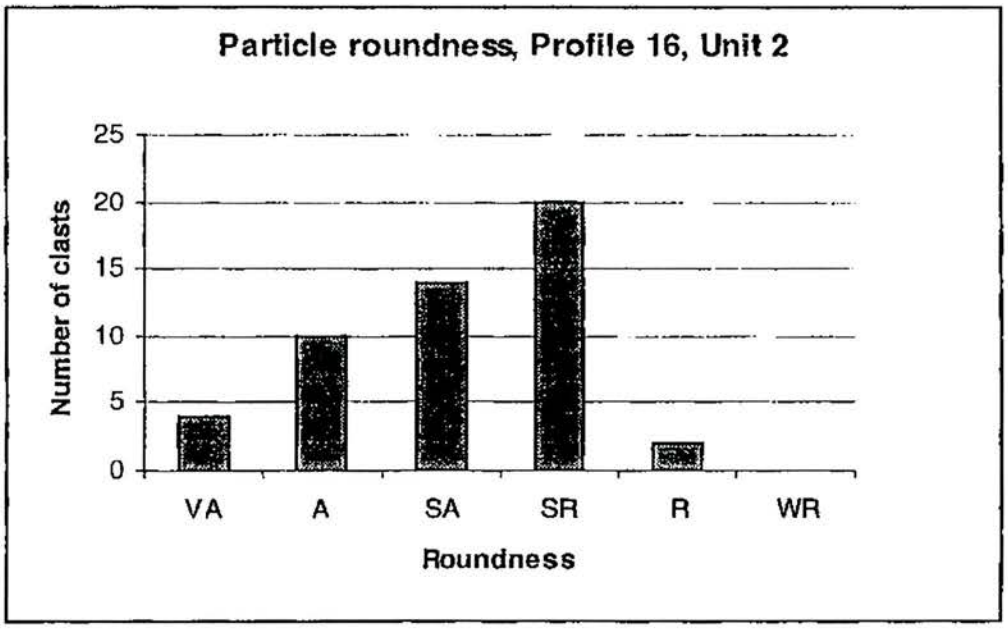


Figure 6.5.4: Orientation data for Unit 3.

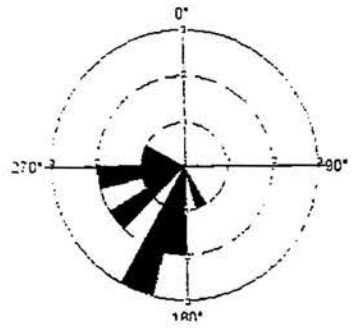


Profile 16, Smjorgil Unit grain shape

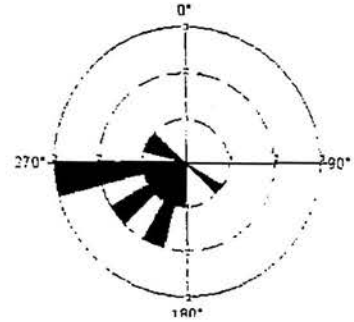


Particle roundness, Profile 16

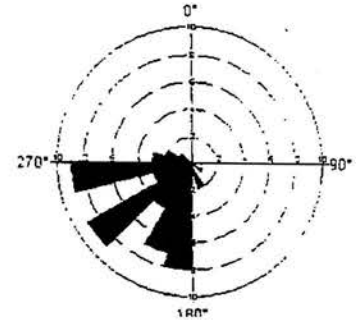
Figure 6.6.1 (a): Clast shape data for Unit 4, profile 16.



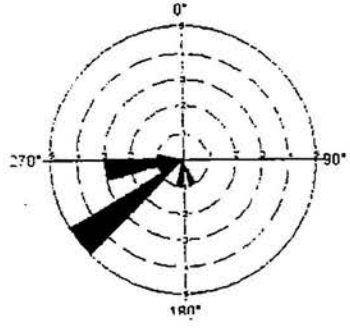
Directional data for profile 16. Upper left



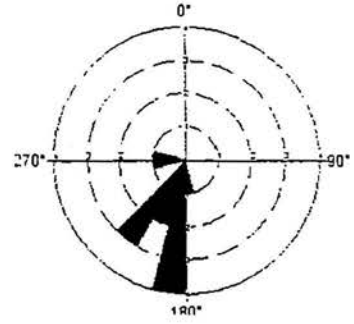
Directional data Profile 16. Lower left



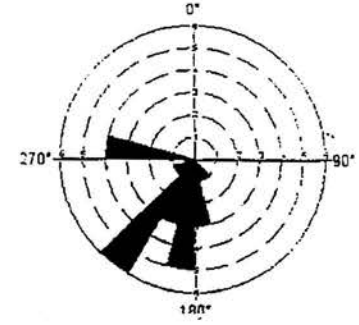
Directional data. Profile 16. All sections



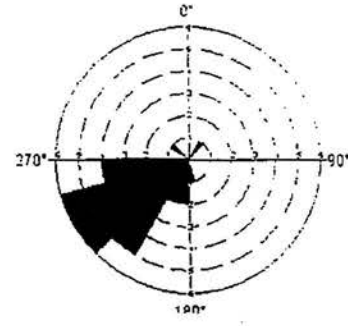
Directional data for profile 16. Upper right



Directional data Profile 16. lower right



Directional data. Profile 45. all



Directional data. Profile 63.

Figure 6.6.1 (b): Orientation data for Unit 4.

(a)



(b)



Figure 6.12.1: Botn Deposits
(a) profile 151
(b) profile 115

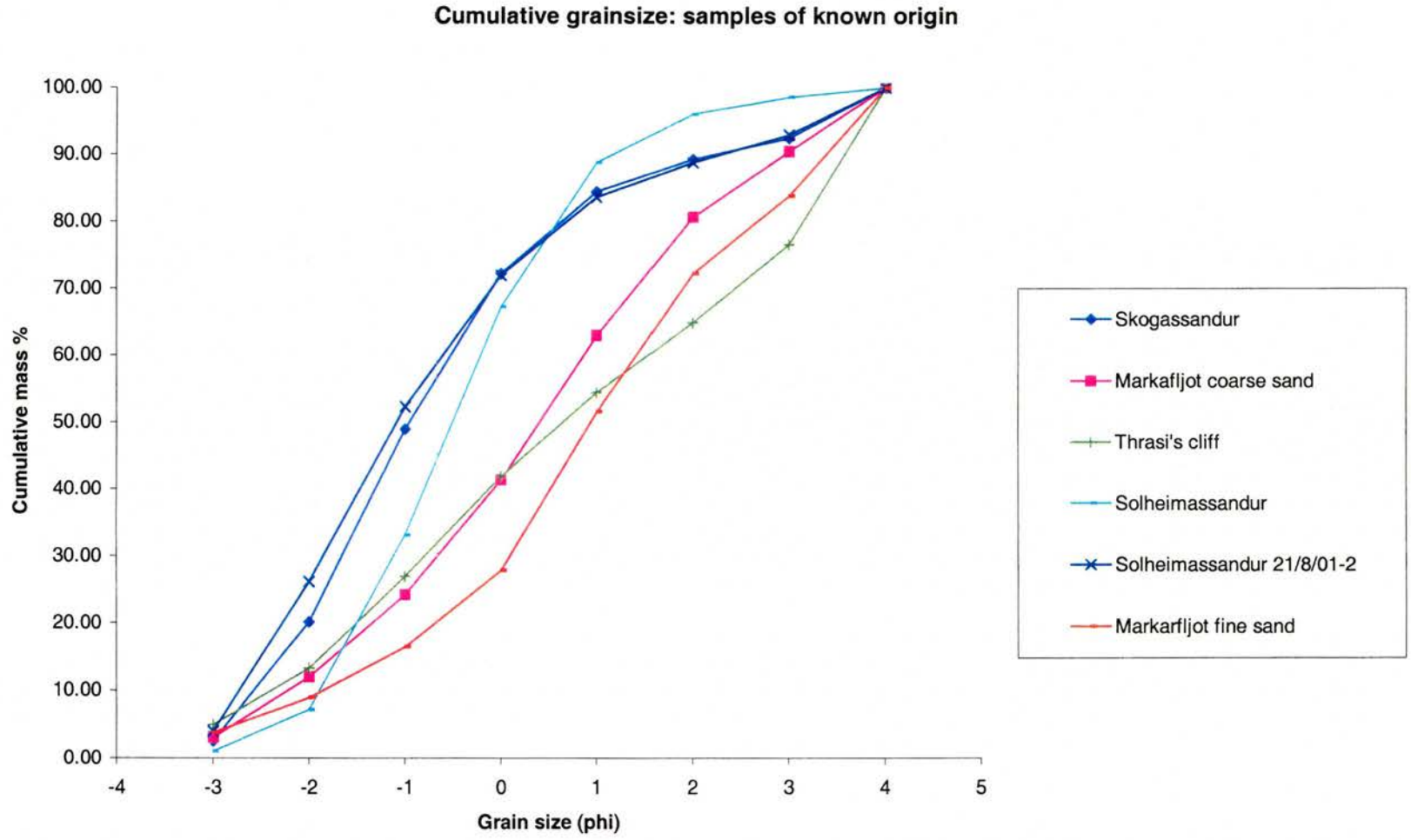


Figure 6.13.1a: Cumulative grain size analyses of samples of known origin. Markarfljot fine and coarse sand samples were transported in normal fluvial outwash conditions. The Skogassandur and Sólheimassandur samples are from tephra-rich jökulhlaup deposits. The 'Thrasi's cliff' sample came from a jökulhlaup deposit in the foreland of Sólheimajökull close to a past ice margin.

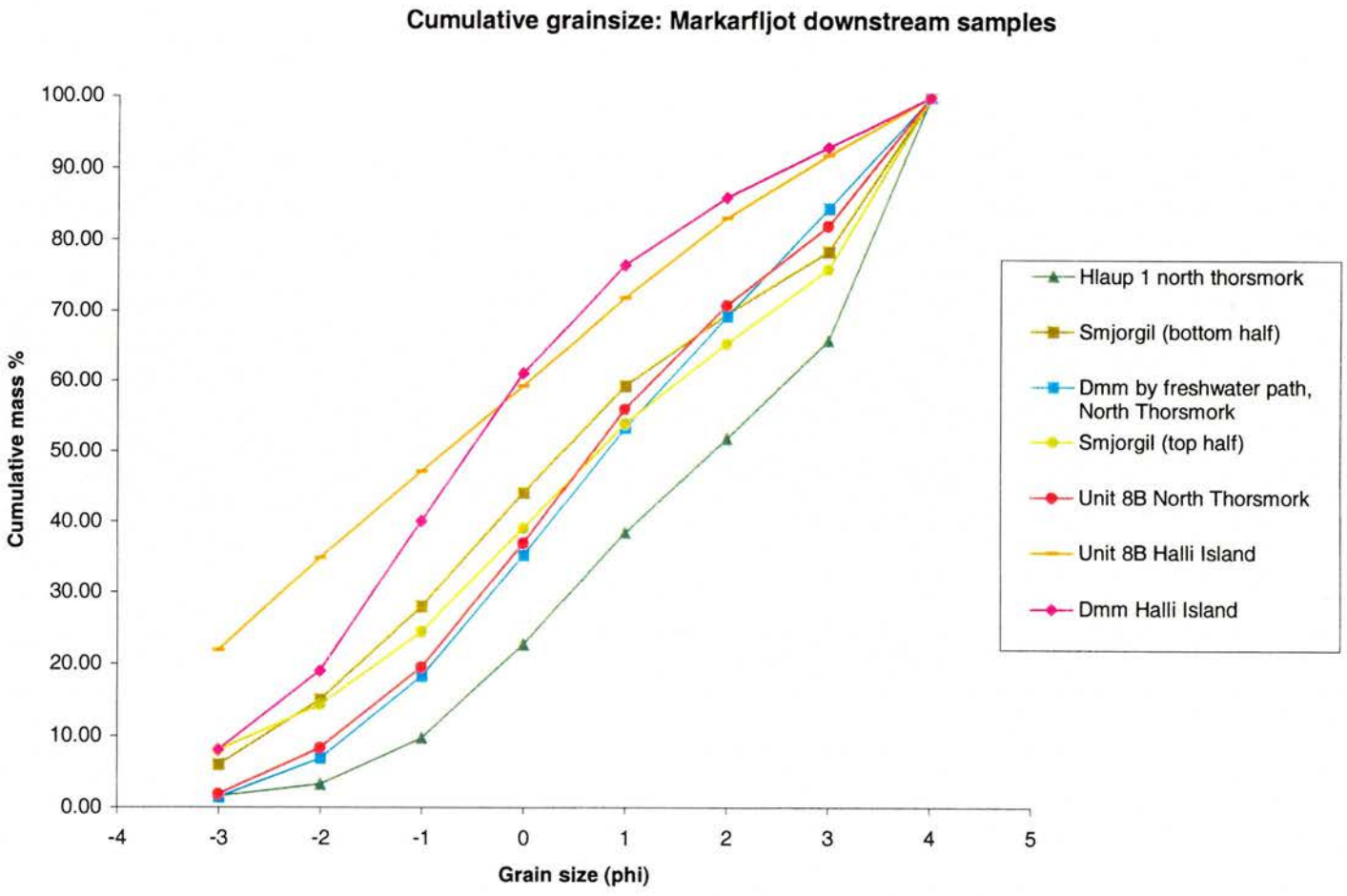


Figure 6.13.1b: Cumulative grain size analyses of Markarfljót downstream samples of unknown origin.

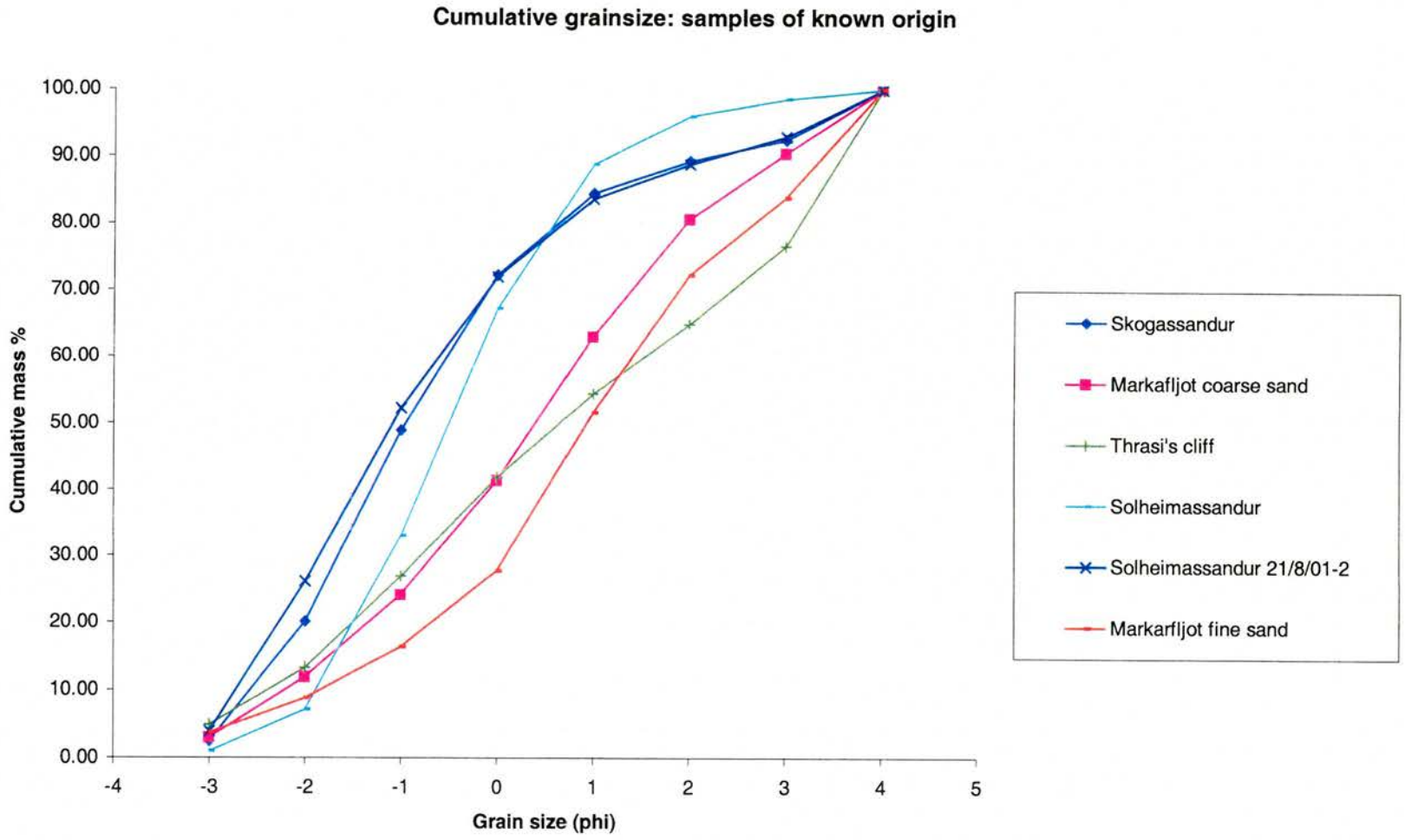


Figure 6.13.1c: Cumulative grain size analyses from Markarfljót near ice samples.

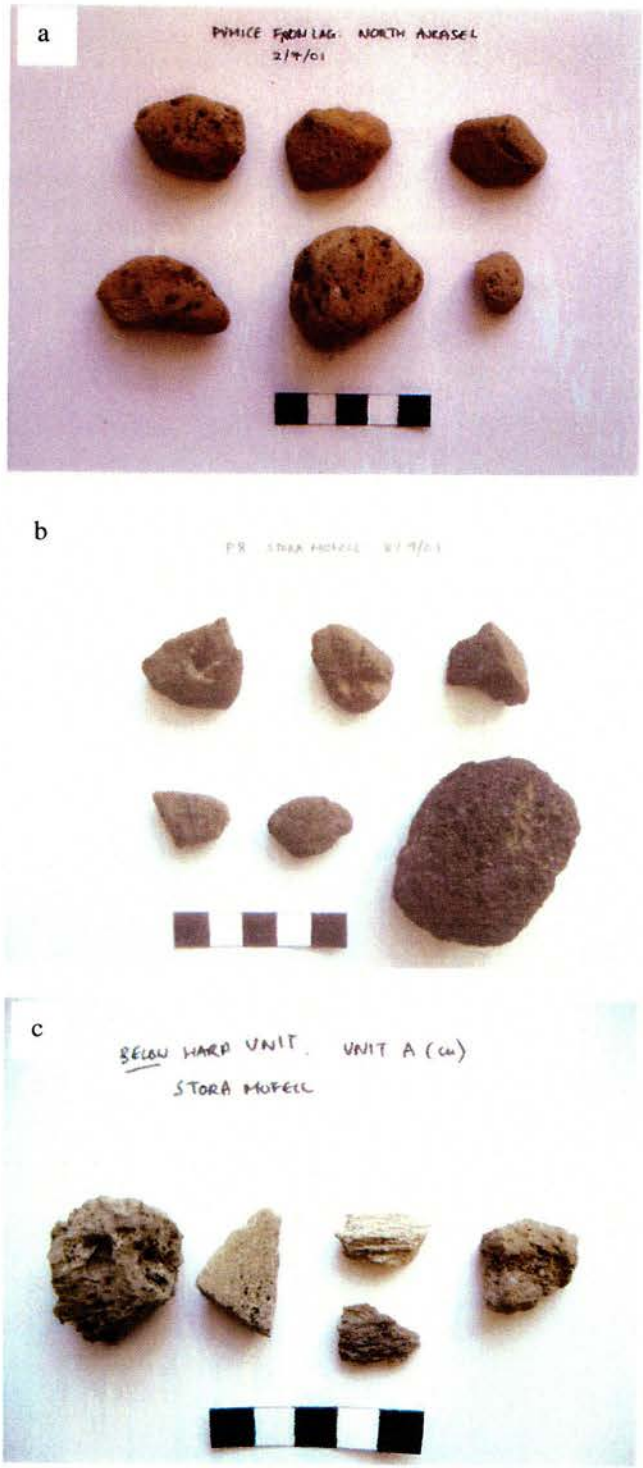


Figure 6.14.1: Silicic pumice
(a) North Aurasel, like Veidivotn, (b) Stora Mofell, Silicic Katla, (c) Stora Mofell, Silicic Katla like Vikurholl.

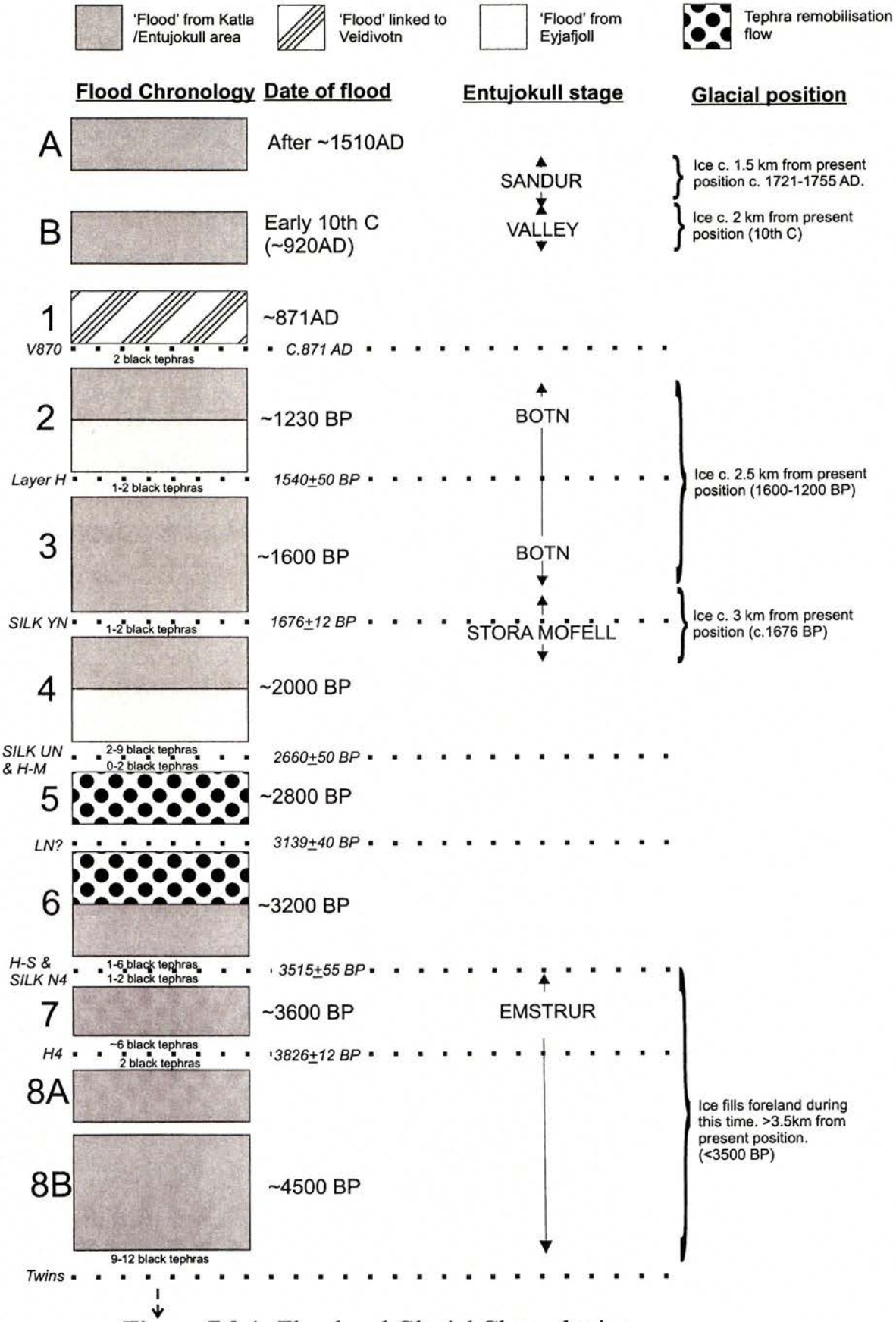
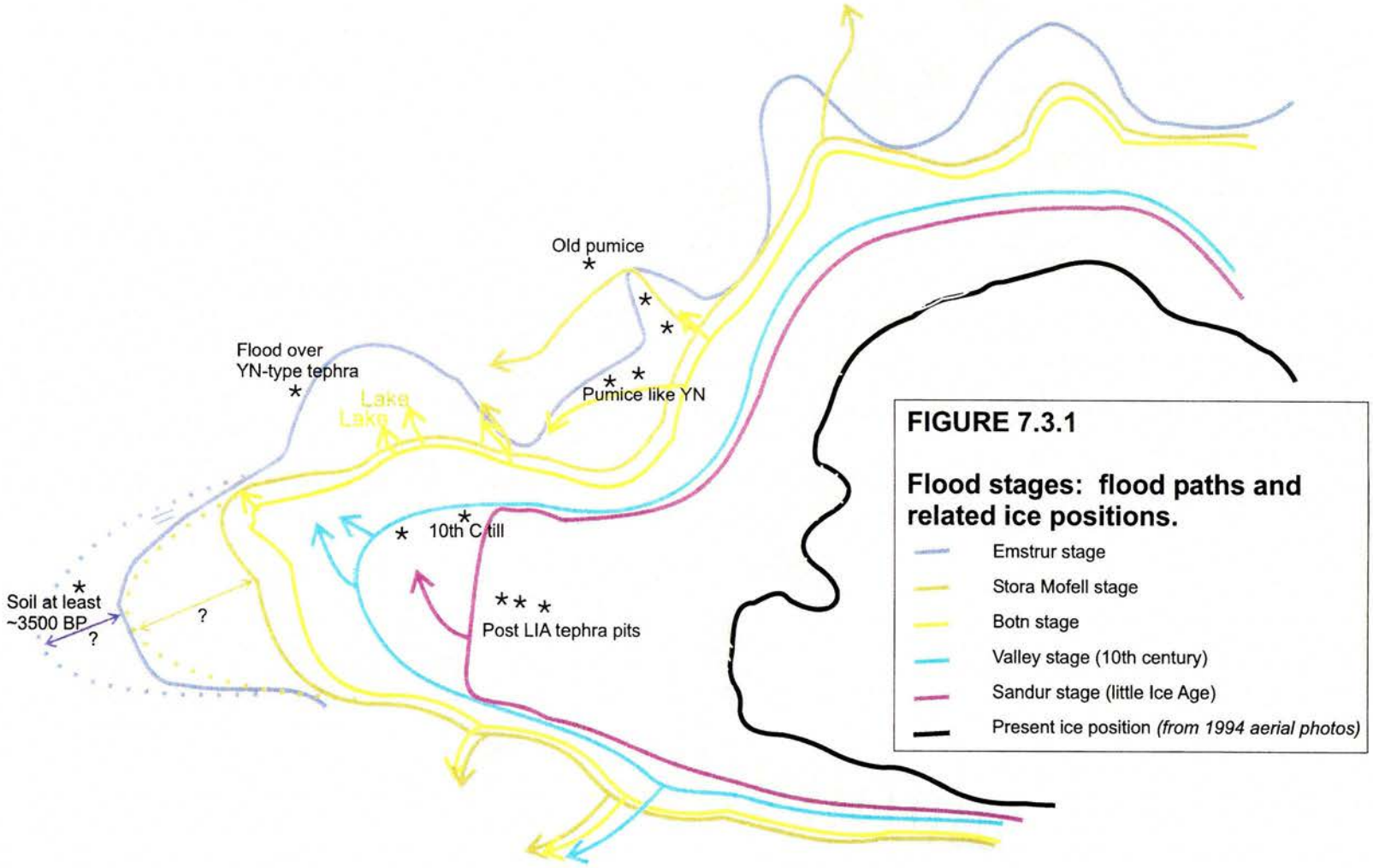
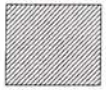


Figure 7.2.1: Flood and Glacial Chronologies Markarfljot and Entujokull


Old pumice
Flood over
YN-type tephra
Lake
Lake
Pumice like YN
10th C till
Soil at least
~3500 BP
?
?
Post LIA tephra pits
FIGURE 7.3.1
Flood stages: flood paths and related ice positions.
Emstrur stage
Stora Mofell stage
Botn stage
Valley stage (10th century)
Sandur stage (little Ice Age)
Present ice position (from 1994 aerial photos)



Flood surface



Moraine



Cliff with distinct upper break in slope, >10m high



Steep slope without distinct upper break in slope



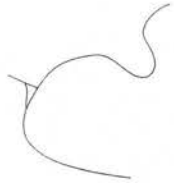
Flood route



River or stream



Peak



Present ice margin: Entujokull



Cliff <10m high

Key to figures 7.3.2, 7.3.3 and 7.3.4.
Geomorphological features.

North always to top of page.
Scale approx 1;50,000

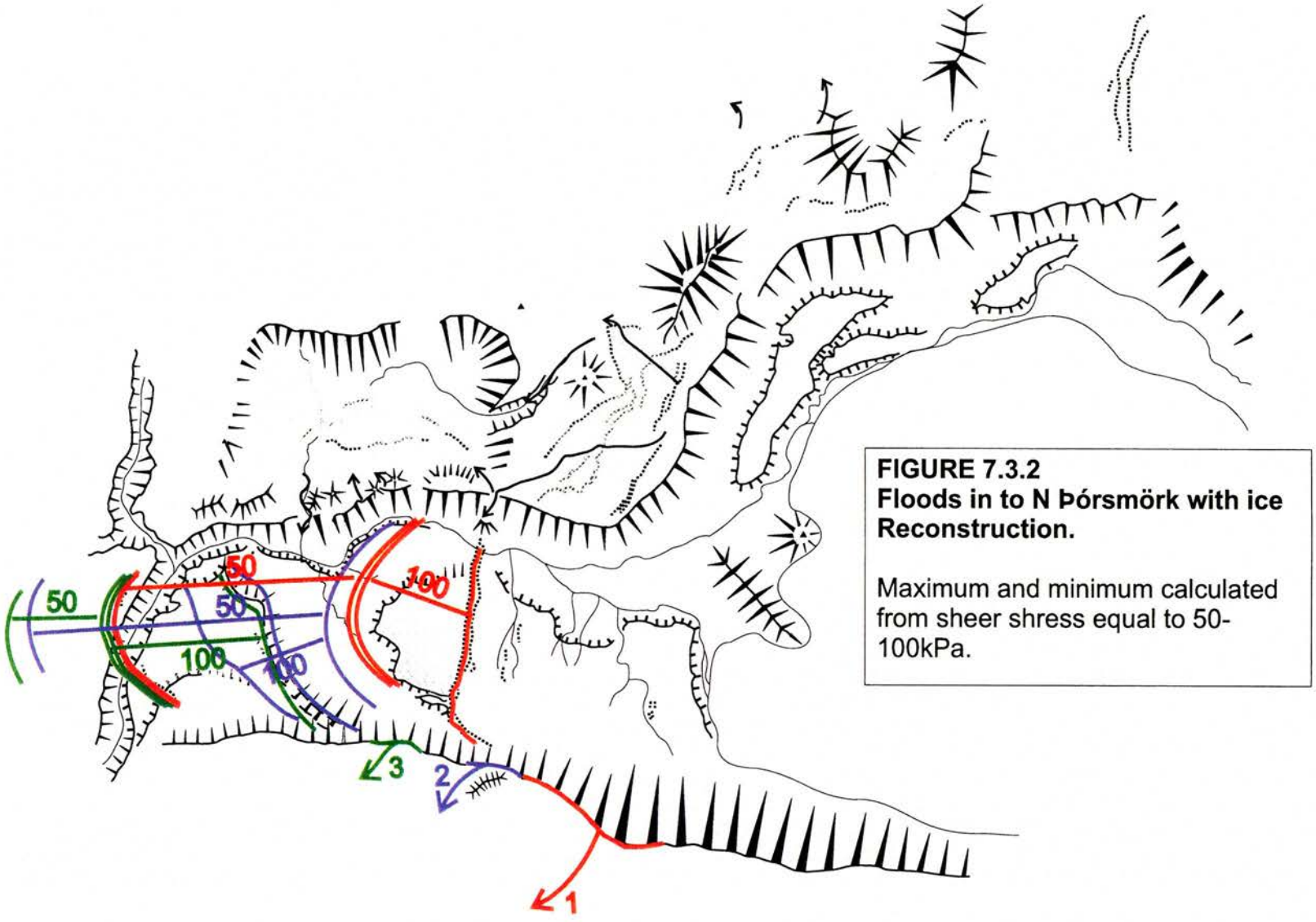


FIGURE 7.3.2
Floods in to N Þórsmörk with ice Reconstruction.

Maximum and minimum calculated from sheer shress equal to 50-100kPa.

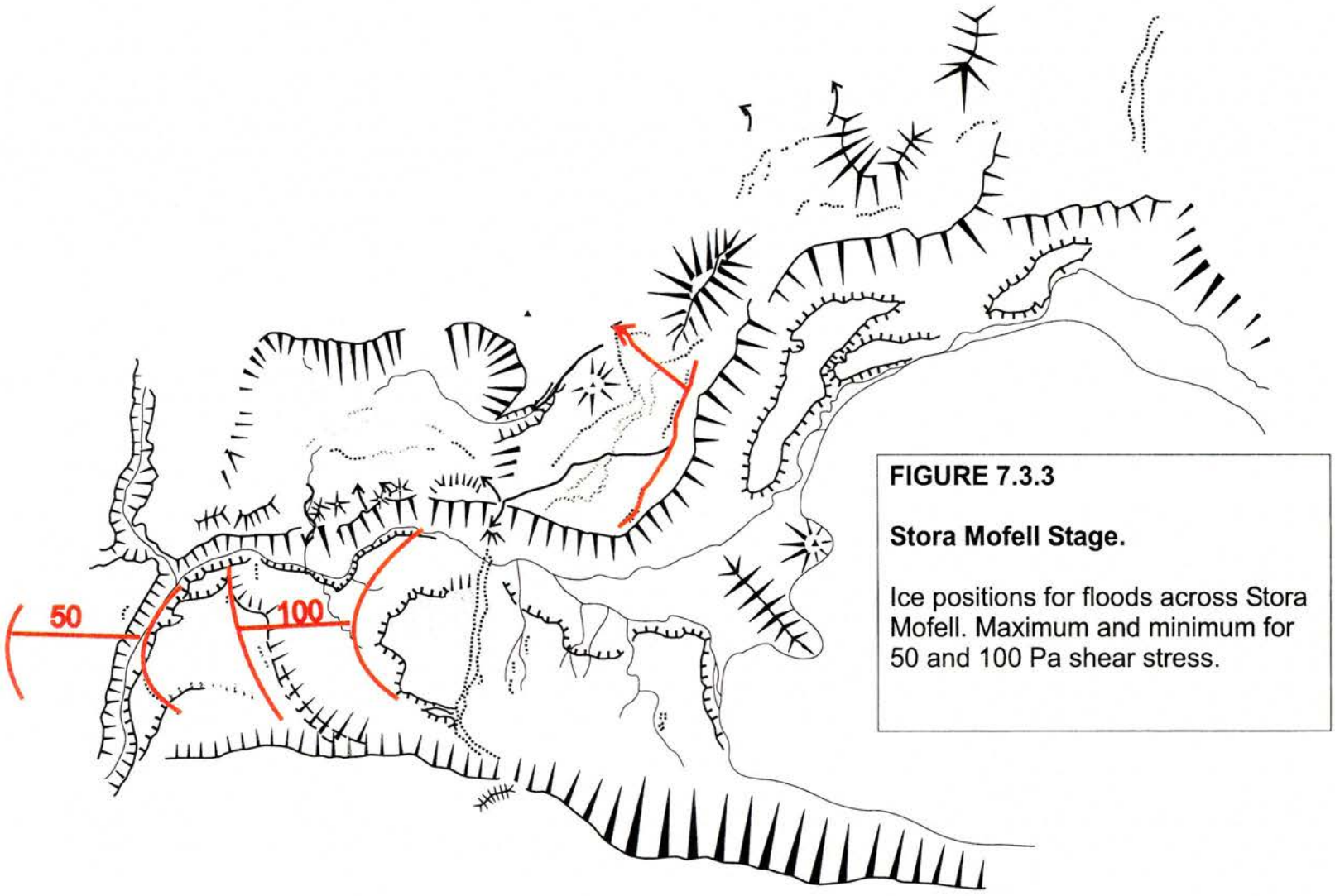


FIGURE 7.3.3

Stora Mofell Stage.

Ice positions for floods across Stora Mofell. Maximum and minimum for 50 and 100 Pa shear stress.

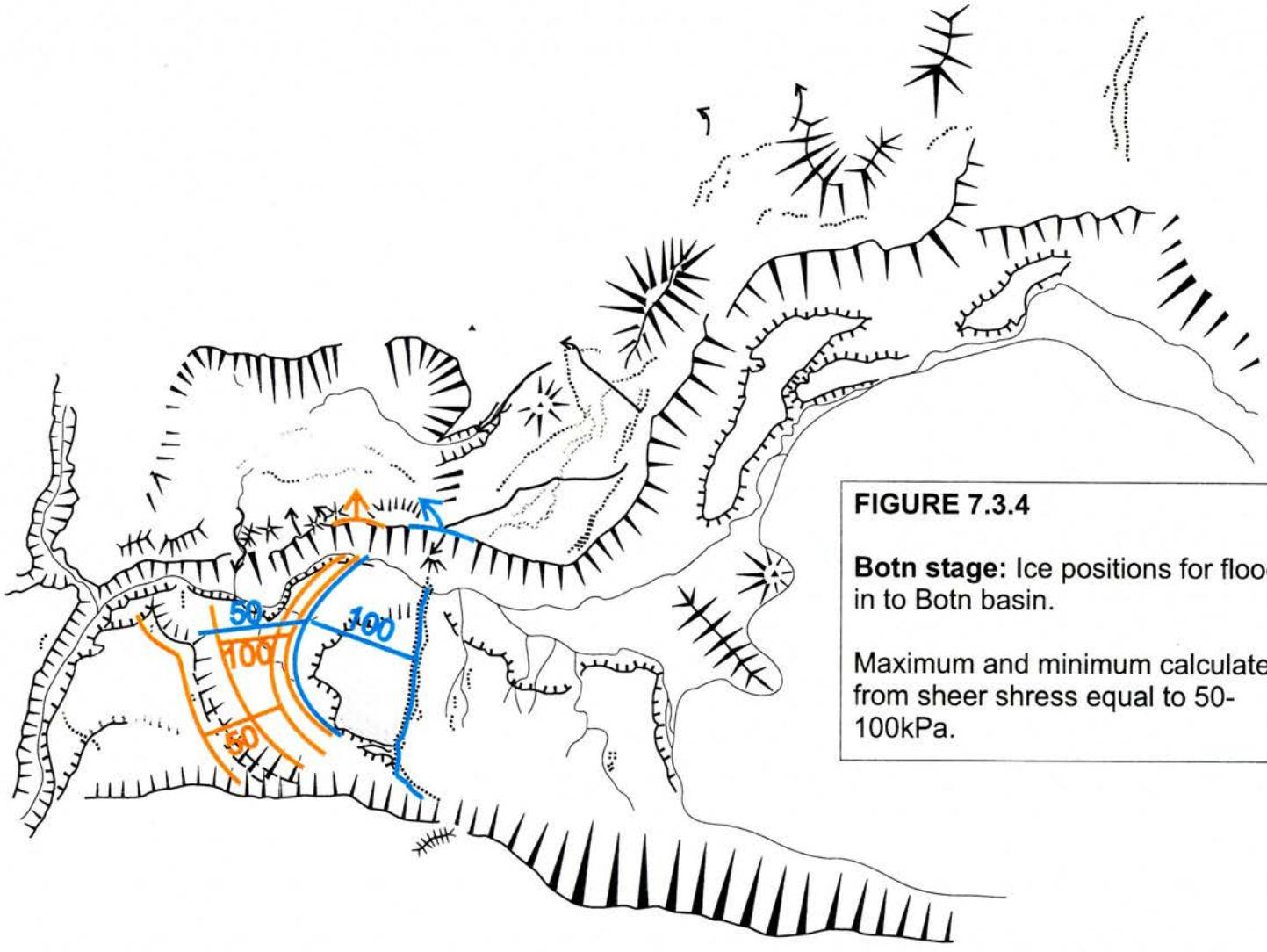


FIGURE 7.3.4

Botn stage: Ice positions for floods in to Botn basin.

Maximum and minimum calculated from sheer shress equal to 50-100kPa.

APPENDIX 1: ELECTRON MICROPROBE BASIC DATA TABLES

Sample numbers refer to the profile number followed by sample number (e.g. Profile 16, tephra sample analysed first, is 16-1). • beside data indicates a flawed analysis, either analysis of a mineral or an unacceptably low or high total, and such data is not included in summary statistical calculations.

PROFILES 15-19

16-1: 21/6/2000-1 SmL Lower cobble, Gully be Gigjokull

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.52	0.32	13.53	4.13	0.15	0.20	1.48	4.75	3.69	98.77
	69.25	0.48	11.68	6.45	0.21	0.17	1.51	4.44	3.88	98.07
	68.82	0.37	13.92	4.76	0.15	0.17	1.99	5.18	3.65	99.01
	65.68	0.39	13.49	4.06	0.25	0.24	1.39	5.01	3.57	94.08
•	65.22	0.14	19.61	1.54	0.09	0.05	2.75	8.26	2.02	99.68
•	62.91	0.05	22.58	0.52	0.02	0.04	4.33	8.01	1.24	99.70
•	61.69	0.02	20.85	0.92	0.02	0.03	2.71	8.41	1.88	96.53
mean	*68.57*	*0.39*	*13.16*	*4.85*	*0.19*	*0.20*	*1.59*	*4.85*	*3.70*	*97.48*
s.d.	*2.06*	*0.07*	*1.00*	*1.11*	*0.05*	*0.03*	*0.27*	*0.32*	*0.13*	*2.30*
	56.04	2.42	12.04	13.52	0.34	2.00	5.75	3.72	2.07	97.90
	53.75	3.30	12.50	14.30	0.28	1.85	5.24	4.83	1.90	97.95
	53.21	2.56	14.13	10.97	0.19	2.93	5.96	4.27	2.87	97.09
	53.12	3.38	12.21	13.11	0.25	2.92	6.95	4.04	1.97	97.95
	48.41	4.73	12.55	15.60	0.29	4.52	8.74	2.78	1.17	98.79
	47.83	4.90	13.08	14.44	0.18	5.55	10.04	2.96	0.83	99.81
	47.55	4.61	12.84	14.49	0.26	4.80	9.31	3.07	0.88	97.81
	47.17	4.59	12.66	14.35	0.21	4.70	9.32	3.16	0.86	97.02
	47.14	4.40	12.70	14.01	0.18	4.71	9.14	3.11	0.85	96.24
	47.12	4.46	12.72	14.29	0.25	4.76	9.12	3.14	0.82	96.68
	47.11	4.57	12.83	14.35	0.19	4.76	9.30	3.29	0.85	97.25
	47.09	4.48	12.71	14.30	0.26	4.71	9.23	3.17	0.80	96.75
	47.01	4.47	12.63	14.25	0.34	4.65	9.11	3.26	0.87	96.59
	46.93	4.47	12.73	14.18	0.22	4.62	9.11	3.21	0.81	96.28
	46.83	4.45	12.66	14.55	0.32	4.67	8.91	3.15	0.89	96.43
	46.78	4.42	12.58	14.23	0.22	4.72	9.15	3.02	0.82	95.94
	46.73	4.82	11.86	15.61	0.27	4.67	9.25	3.22	0.76	97.19
	46.63	4.39	12.67	14.06	0.25	4.98	9.41	3.04	0.77	96.20
	46.46	4.61	12.58	14.39	0.21	4.55	8.90	3.20	0.83	95.73
	46.45	5.03	11.49	16.02	0.29	4.27	9.05	3.32	1.09	97.01
mean	*48.47*	*4.25*	*12.61*	*14.25*	*0.25*	*4.27*	*8.55*	*3.35*	*1.14*	*97.13*
s.d.	*2.94*	*0.73*	*0.51*	*1.02*	*0.05*	*1.00*	*1.37*	*0.50*	*0.58*	*1.01*

PX

	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
	37.60	0.00	0.08	0.00	23.50	0.31	37.70	0.25	0.03	99.47
	35.66	0.29	0.21	0.00	34.88	0.71	27.13	0.51	0.02	99.41
	52.05	0.50	1.14	0.00	11.74	0.55	13.66	19.76	0.40	99.80
	49.47	0.58	0.88	0.04	21.64	0.85	6.41	19.57	0.37	99.81
mean	*43.70*	*0.34*	*0.58*	*0.01*	*22.94*	*0.61*	*21.23*	*10.02*	*0.21*	*99.62*
s.d.	*8.26*	*0.26*	*0.51*	*0.02*	*9.49*	*0.23*	*13.94*	*11.13*	*0.21*	*0.21*

PL

	SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
	47.53	0.06	32.03	0.68	0.14	16.18	2.26	0.10	98.98
	62.06	0.06	23.48	0.35	0.02	5.51	8.05	0.66	100.19
mean	*54.80*	*0.06*	*27.76*	*0.52*	*0.08*	*10.85*	*5.16*	*0.38*	*99.59*
s.d.	*10.27*	*0.00*	*6.05*	*0.23*	*0.08*	*7.54*	*4.09*	*0.40*	*0.86*

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.20	24.51	1.28	0.00	61.74	0.99	0.61	89.33

17-1: 22/6 Y

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.25	0.90	13.75	5.00	0.11	0.67	2.34	4.29	3.15	99.46
	67.56	0.93	13.80	5.51	0.21	0.87	2.66	4.68	2.96	99.18
	66.91	1.16	13.98	5.88	0.17	0.97	2.72	4.32	3.07	99.18
	66.68	1.17	13.76	5.66	0.22	0.97	2.88	4.77	2.87	98.98
	66.50	1.14	13.86	5.85	0.19	1.24	3.01	4.55	2.99	99.33
	66.45	1.18	13.75	5.89	0.18	1.04	2.83	4.55	2.93	98.80
	66.28	1.16	13.81	5.94	0.19	1.10	3.02	4.35	2.80	98.65
	66.25	1.02	14.06	5.99	0.14	1.17	2.88	4.67	2.70	98.88
	66.03	1.11	14.12	6.13	0.16	1.12	2.99	3.81	2.78	98.25
	65.93	1.10	13.68	6.17	0.22	1.11	3.02	3.94	2.61	97.78
	65.63	1.07	13.95	6.03	0.22	1.03	3.04	4.49	2.75	98.21
	65.50	1.16	14.05	5.86	0.20	1.09	3.10	3.69	2.84	97.49
	65.29	1.11	13.66	6.28	0.18	1.13	2.93	4.74	2.81	98.13
	64.93	1.07	13.78	6.29	0.23	1.13	3.04	4.54	2.81	97.82
	50.38	4.09	12.95	12.89	0.24	4.31	8.66	3.42	1.14	98.08
	49.79	4.05	12.76	13.06	0.25	4.49	8.72	3.25	1.03	97.40
	49.19	4.17	12.60	13.66	0.21	4.34	8.85	3.25	0.99	97.26
	49.14	4.27	12.80	14.16	0.18	4.84	9.54	3.05	0.93	98.91
	48.08	4.22	12.60	13.79	0.24	4.86	9.35	3.12	0.99	97.25
	47.69	4.55	12.33	14.75	0.21	4.41	9.33	3.15	0.88	97.30
	46.74	4.69	12.57	14.29	0.26	5.26	9.78	3.13	0.69	97.41
mean AN	*66.37*	*1.09*	*13.86*	*5.89*	*0.19*	*1.05*	*2.89*	*4.39*	*2.86*	*98.58*
mean BS	*48.72*	*4.29*	*12.66*	*13.80*	*0.23*	*4.64*	*9.18*	*3.20*	*0.95*	*97.66*
s.d. AN	1.07	0.09	0.15	0.34	0.03	0.14	0.20	0.35	0.15	0.63
s.d. BS	1.27	0.24	0.20	0.67	0.03	0.35	0.43	0.12	0.14	0.62

17-2: 22/6 H

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.80	0.12	12.98	2.99	0.09	0.06	0.56	5.83	3.82	97.25
•	69.23	0.28	14.16	4.50	0.11	0.13	1.17	6.01	3.52	99.11
	69.08	0.31	13.28	4.90	0.16	0.11	0.83	5.32	3.96	97.95
	69.03	0.28	13.75	4.36	0.18	0.10	1.05	5.84	3.60	98.19
	68.97	0.24	13.76	4.32	0.15	0.11	1.01	6.01	3.79	98.36
	68.95	0.27	13.89	4.11	0.20	0.10	1.07	5.60	3.36	97.55
	68.76	0.23	13.70	4.38	0.18	0.13	1.12	5.80	3.62	97.92
	68.37	0.16	15.44	2.65	0.05	0.11	0.99	7.47	2.84	98.08
	68.15	0.29	13.98	4.50	0.18	0.13	1.12	5.78	3.46	97.59
	68.09	0.14	15.20	2.87	0.09	0.05	0.66	7.27	3.27	97.64
	67.90	0.29	12.88	5.27	0.22	0.14	1.77	6.18	3.66	98.31
	67.77	0.22	13.89	4.03	0.14	0.11	0.95	5.71	3.40	96.22
	66.63	0.31	15.03	4.44	0.14	0.10	1.33	7.40	2.92	98.30
•	66.33	0.14	17.43	1.71	0.01	0.04	1.47	8.95	2.08	98.16
mean	*68.37*	*0.23*	*14.25*	*3.89*	*0.14*	*0.10*	*1.07*	*6.40*	*3.37*	*97.81*
s.d.	*1.14*	*0.07*	*1.24*	*1.02*	*0.06*	*0.03*	*0.32*	*1.05*	*0.51*	*0.59*

	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
	47.73	0.17	0.37	0.01	28.43	1.26	1.15	19.87	0.65	99.64
	46.74	0.5	0.63	0.01	29.08	1.25	0.3	20.35	0.52	99.38
mean	*47.24*	*0.34*	*0.50*	*0.01*	*28.76*	*1.26*	*0.73*	*20.11*	*0.59*	*99.51*
s.d.	*0.70*	*0.23*	*0.18*	*0.00*	*0.46*	*0.01*	*0.60*	*0.34*	*0.09*	*0.18*

	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
	0.32	20.86	0.83	0.01	72.65	1.16	0.4	96.23
	0.26	39.04	0.48	0.02	65.87	1.29	0.67	107.63
mean	*0.29*	*29.95*	*0.66*	*0.02*	*69.26*	*1.23*	*0.54*	*101.93*
s.d.	*0.04*	*12.86*	*0.25*	*0.01*	*4.79*	*0.09*	*0.19*	*8.06*

18-1: 22/6/2000 BLACK NEEDLE LAYER

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	48.34	4.55	12.83	14.35	0.23	4.88	9.88	3.31	0.78	99.15
	47.91	4.59	12.89	14.94	0.23	4.90	9.75	2.81	0.93	98.95
	47.56	4.59	12.71	14.85	0.26	4.76	9.80	3.12	0.77	98.42
	47.30	4.59	12.32	14.61	0.19	4.77	9.50	3.04	0.90	97.22
	47.28	4.36	12.58	13.90	0.19	4.71	9.35	3.28	0.83	96.48
	47.15	4.57	12.55	14.42	0.16	4.63	9.40	3.06	0.92	96.86
	47.12	4.61	12.46	14.77	0.19	4.73	9.01	3.19	0.85	96.93
	47.09	4.56	12.27	14.72	0.19	4.79	9.36	3.06	0.83	96.87
	47.06	4.45	12.69	14.43	0.20	4.77	9.57	3.14	0.86	97.17
	47.01	4.37	12.40	14.55	0.19	4.77	9.26	3.27	0.91	96.73
	46.97	4.38	12.20	14.41	0.22	4.76	9.26	3.24	0.84	96.28
•	46.75	4.63	12.20	14.62	0.25	4.75	9.36	3.14	0.86	96.56
	46.71	4.49	11.91	14.65	0.23	4.83	9.01	3.23	0.84	95.90
	46.24	4.66	12.25	14.69	0.23	4.78	9.15	3.38	0.85	96.23
	46.10	4.51	12.45	14.91	0.24	4.73	8.95	2.82	0.85	95.56
	45.87	4.76	12.35	15.14	0.16	4.90	9.79	3.10	0.80	96.87
mean	*47.05*	*4.54*	*12.46*	*14.62*	*0.21*	*4.78*	*9.40*	*3.14*	*0.85*	*97.04*
s.d.	*0.65*	*0.11*	*0.26*	*0.30*	*0.03*	*0.07*	*0.31*	*0.16*	*0.05*	*1.05*

19-1: 22/6/2000-3 SmL Unit X

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.82	4.46	12.77	14.23	0.31	4.77	9.35	3.17	0.85	97.73
	47.38	4.55	12.58	14.09	0.22	4.68	9.27	3.25	1.12	97.14
	47.35	4.68	12.85	14.50	0.24	4.80	9.17	3.35	0.84	97.78
	47.31	4.42	12.66	14.22	0.24	4.67	8.93	3.28	0.82	96.55
	47.24	4.41	12.59	13.90	0.26	4.67	9.21	3.16	0.80	96.24
	47.22	4.46	12.59	14.15	0.22	4.73	9.00	3.24	0.87	96.48
	47.19	4.60	12.75	14.39	0.21	4.64	9.10	3.21	0.81	96.90
	47.19	4.52	12.68	14.05	0.23	4.79	9.21	3.19	0.82	96.68
	47.17	4.44	12.57	14.37	0.22	4.63	9.15	3.22	0.81	96.58
	47.16	4.43	12.49	14.54	0.28	4.73	8.92	3.22	0.85	96.62
	47.07	4.85	12.46	13.95	0.25	4.61	9.14	3.32	0.80	96.45
	47.05	4.55	12.72	14.04	0.24	4.73	8.87	3.26	0.82	96.28
	47.03	4.39	12.82	14.23	0.28	4.68	9.28	3.20	0.87	96.78
	47.00	4.38	12.55	13.83	0.23	4.71	9.15	3.15	0.91	95.91
	46.79	4.46	12.57	14.09	0.26	4.74	9.10	3.29	0.82	96.12
	45.76	4.63	12.65	14.10	0.22	4.69	8.80	3.20	0.88	94.93
mean	*47.11*	*4.51*	*12.64*	*14.17*	*0.24*	*4.70*	*9.10*	*3.23*	*0.86*	*96.57*
s.d.	*0.42*	*0.13*	*0.11*	*0.20*	*0.03*	*0.06*	*0.16*	*0.06*	*0.08*	*0.68*
• BS 226L/1	46.97	4.64	12.66	14.55	0.27	4.72	9.44	3.12	0.84	97.21

PROFILES 20-24

23-1: 27/6Un Layer UN, 27/6/2000-S1A G-ref section — Total of 23 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	65.30	1.37	13.94	5.92	0.19	1.35	3.49	4.03	2.69	98.28
	65.25	1.28	13.93	5.90	0.21	1.33	3.58	4.48	2.61	98.57
	64.92	1.34	14.10	6.32	0.20	1.38	3.58	4.00	2.95	98.79
	64.76	1.45	13.86	6.08	0.20	1.35	3.37	4.21	3.21	98.49
	64.67	1.40	13.60	6.19	0.25	1.26	3.50	4.38	2.54	97.79
	64.53	1.35	13.83	5.92	0.26	1.30	3.55	4.40	2.53	97.67
	64.52	1.11	12.74	6.39	0.23	1.32	3.45	4.24	2.73	96.73
	64.41	1.32	13.60	6.03	0.20	1.45	4.02	4.18	2.68	97.89
	64.36	1.44	13.66	5.92	0.28	1.29	3.25	4.68	2.72	97.60
	64.31	1.39	13.77	6.14	0.21	1.34	3.33	4.04	2.56	97.09
	64.17	1.35	13.66	5.82	0.23	1.28	3.39	4.23	2.46	96.59
	64.04	1.34	13.89	5.90	0.21	1.39	3.46	4.24	2.66	97.13
	63.82	1.26	13.88	5.78	0.28	1.28	3.45	4.55	2.50	96.80
	63.80	1.32	13.92	5.86	0.23	1.37	3.41	4.32	2.58	96.81
	63.21	1.29	13.50	5.96	0.20	1.24	2.42	4.51	4.19	96.52
mean	*64.40*	*1.33*	*13.73*	*6.01*	*0.23*	*1.33*	*3.42*	*4.30*	*2.77*	*97.52*
s.d.	*0.56*	*0.08*	*0.32*	*0.18*	*0.03*	*0.06*	*0.33*	*0.20*	*0.44*	*0.77*
(b)	47.07	4.32	12.48	14.19	0.22	4.47	9.04	3.41	0.94	96.14
	47.01	4.31	12.53	13.83	0.19	4.71	9.22	3.21	0.89	95.90
	46.70	4.83	11.29	15.84	0.30	4.22	9.18	3.03	1.06	96.45
	46.67	4.46	12.51	14.22	0.26	5.03	9.72	3.11	0.81	96.79
	46.64	4.41	12.48	14.27	0.20	5.01	9.34	3.23	0.80	96.38
	46.30	4.29	12.63	14.21	0.29	4.81	9.29	3.44	0.76	96.02
mean	*46.73*	*4.44*	*12.32*	*14.43*	*0.24*	*4.71*	*9.30*	*3.24*	*0.88*	*96.28*
s.d.	*0.28*	*0.20*	*0.51*	*0.71*	*0.05*	*0.32*	*0.23*	*0.16*	*0.11*	*0.33*

23-2: 27/6St Layer St 27/6/2000-S1A, G-ref section — Total of 18 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	64.91	1.36	13.70	6.05	0.18	1.24	3.44	4.25	2.58	97.71
	64.51	0.92	15.09	6.34	0.20	1.23	4.48	4.22	1.58	98.57
	63.85	0.84	15.17	6.20	0.26	1.21	4.53	4.26	1.53	97.85
	63.41	0.80	15.09	6.53	0.20	1.35	4.49	4.18	1.57	97.62
	63.38	0.88	14.98	6.65	0.19	1.34	4.55	3.89	1.57	97.43
	63.23	0.78	15.12	6.43	0.14	1.30	4.41	4.13	1.56	97.10
	62.57	0.91	15.15	6.62	0.19	1.36	4.44	4.06	1.57	96.87
	62.35	0.90	15.02	6.50	0.16	1.24	4.00	3.86	1.61	95.64
	62.31	0.85	14.90	5.92	0.17	1.14	3.97	4.04	1.72	95.02
mean	*63.39*	*0.92*	*14.91*	*6.36*	*0.19*	*1.27*	*4.26*	*4.10*	*1.70*	*97.09*
s.d.	*0.86*	*0.16*	*0.44*	*0.24*	*0.03*	*0.07*	*0.36*	*0.14*	*0.32*	*1.05*
(b)	47.45	4.44	12.57	13.07	0.25	4.61	9.95	3.11	0.76	96.21
	47.14	4.34	12.56	13.64	0.25	4.86	10.04	3.04	0.77	96.64
	45.86	4.56	12.35	14.46	0.22	5.04	9.72	3.04	0.78	96.03
mean	*46.82*	*4.45*	*12.49*	*13.72*	*0.24*	*4.84*	*9.90*	*3.06*	*0.77*	*96.29*
s.d.	*0.84*	*0.11*	*0.12*	*0.70*	*0.02*	*0.22*	*0.17*	*0.04*	*0.01*	*0.31*

24-1: 28/6-B H Total of 29 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	71.49	0.40	13.87	4.46	0.12	0.14	0.82	4.69	3.70	99.69
	70.28	0.24	13.83	4.62	0.18	0.15	1.13	4.51	3.46	98.40
	69.96	0.30	13.96	4.44	0.22	0.12	1.18	5.37	3.49	99.04
	69.90	0.34	13.64	4.87	0.14	0.18	1.19	5.23	3.66	99.15
	69.36	0.29	14.05	4.68	0.19	0.17	1.15	4.88	3.55	98.32
	69.31	0.28	14.34	2.89	0.13	0.05	1.42	6.43	3.23	98.08
	69.31	0.33	13.91	4.76	0.20	0.15	1.32	5.11	3.43	98.52
	69.28	0.28	13.93	4.58	0.11	0.15	1.20	4.14	3.60	97.27
	69.11	0.37	13.65	4.31	0.12	0.09	0.77	5.33	3.57	97.32
	69.10	0.30	13.81	4.88	0.16	0.13	1.30	5.11	3.61	98.40
	68.97	0.26	13.88	4.49	0.15	0.14	1.13	5.63	3.47	98.12
	68.93	0.33	13.98	4.39	0.14	0.14	1.19	5.28	3.43	97.81
	68.90	0.24	14.07	4.56	0.11	0.19	1.26	5.15	3.73	98.21
	68.71	0.25	13.69	4.53	0.12	0.18	1.32	4.98	3.53	97.31
	68.54	0.29	13.60	4.51	0.18	0.19	1.22	5.21	3.53	97.27
mean	*69.41*	*0.30*	*13.88*	*4.46*	*0.15*	*0.14*	*1.17*	*5.14*	*3.53*	*98.19*
s.d.	*0.75*	*0.05*	*0.19*	*0.47*	*0.04*	*0.04*	*0.17*	*0.52*	*0.13*	*0.73*
(b)	52.24	2.96	13.92	11.86	0.22	3.55	7.19	3.87	1.33	97.14
	51.46	2.99	13.90	11.88	0.21	3.55	7.27	4.04	1.32	96.62
	51.16	3.76	12.00	14.97	0.29	3.54	7.34	3.24	2.04	98.34
	50.94	4.11	12.14	14.48	0.24	3.58	7.07	3.27	1.91	97.74
	49.63	3.98	12.16	13.95	0.23	3.95	8.35	3.48	1.33	97.06
	49.37	3.99	12.06	13.81	0.22	3.89	7.88	3.49	1.32	96.03
	48.64	3.74	12.48	14.12	0.31	4.59	9.00	2.99	0.86	96.73
	47.99	4.50	12.21	13.72	0.17	4.53	9.16	3.28	0.99	96.55
	46.69	4.61	12.48	14.19	0.21	5.02	9.71	3.06	0.79	96.76
	46.48	4.46	12.50	14.03	0.21	5.01	9.48	2.97	0.75	95.89
mean	*49.46*	*3.91*	*12.59*	*13.70*	*0.23*	*4.12*	*8.25*	*3.37*	*1.26*	*96.89*
s.d.	*2.01*	*0.58*	*0.72*	*1.03*	*0.04*	*0.61*	*1.03*	*0.36*	*0.44*	*0.74*

24-2: CL 27/6/2000-1B Coarse layer, Unit U - repeat

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.31	4.62	12.73	14.04	0.24	4.94	9.43	3.09	0.71	96.11
	46.15	4.50	12.52	14.62	0.26	5.15	9.68	3.00	0.70	96.58
	46.12	4.41	12.61	14.33	0.21	5.03	9.84	3.03	0.70	96.28
	46.43	4.53	12.67	14.57	0.24	4.98	9.66	3.12	0.67	96.87
	46.41	4.55	12.27	14.47	0.25	4.70	9.57	3.11	0.84	96.17
	46.27	4.43	12.60	14.71	0.22	4.99	9.43	3.03	0.74	96.42
	46.68	4.76	12.23	14.55	0.24	4.77	9.61	3.14	0.75	96.73
	46.36	4.55	12.63	14.45	0.23	5.08	9.45	3.08	0.71	96.54
	46.18	4.45	12.84	14.42	0.19	5.12	9.60	3.24	0.73	96.77
	45.92	4.49	12.50	14.41	0.31	5.01	9.49	3.10	0.71	95.94
	45.98	4.28	12.31	14.24	0.25	5.04	9.62	3.10	0.68	95.50
	46.01	4.39	12.62	14.71	0.20	5.15	9.85	3.02	0.72	96.67
	27.79	3.87	10.63	13.04	0.03	1.00	2.67	0.37	0.18	59.58
	45.89	4.43	12.39	14.16	0.19	5.01	9.85	3.01	0.67	95.60
	46.17	4.25	12.72	14.47	0.23	5.07	9.47	3.13	0.69	96.20
	43.72	4.44	12.58	14.28	0.22	5.07	8.85	3.12	1.05	93.33
	46.42	4.43	12.65	14.32	0.27	5.00	9.63	3.16	0.78	96.66
mean	46.06	4.47	12.55	14.42	0.23	5.01	9.56	3.09	0.74	96.15
s.d.	0.66	0.12	0.17	0.19	0.03	0.12	0.24	0.06	0.09	0.85

24-2: CL 27/6/2000-1B Coarse layer, Unit U, PROFILE 24

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(b)	46.68	4.76	12.23	14.55	0.24	4.77	9.61	3.14	0.75	96.73
	46.43	4.53	12.67	14.57	0.24	4.98	9.66	3.12	0.67	96.87
	46.42	4.43	12.65	14.32	0.27	5.00	9.63	3.16	0.78	96.66
	46.41	4.55	12.27	14.47	0.25	4.70	9.57	3.11	0.84	96.17
	46.36	4.55	12.63	14.45	0.23	5.08	9.45	3.08	0.71	96.54
	46.31	4.62	12.73	14.04	0.24	4.94	9.43	3.09	0.71	96.11
	46.27	4.43	12.60	14.71	0.22	4.99	9.43	3.03	0.74	96.42
	46.18	4.45	12.84	14.42	0.19	5.12	9.60	3.24	0.73	96.77
	46.17	4.25	12.72	14.47	0.23	5.07	9.47	3.13	0.69	96.20
	46.15	4.50	12.52	14.62	0.26	5.15	9.68	3.00	0.70	96.58
	46.12	4.41	12.61	14.33	0.21	5.03	9.84	3.03	0.70	96.28
	46.01	4.39	12.62	14.71	0.20	5.15	9.85	3.02	0.72	96.67
mean	*46.29*	*4.49*	*12.59*	*14.47*	*0.23*	*5.00*	*9.60*	*3.10*	*0.73*	*96.50*
s.d.	*0.18*	*0.13*	*0.18*	*0.19*	*0.02*	*0.14*	*0.14*	*0.07*	*0.05*	*0.26*

PROFILES 25-29

26-1: 30/6 SmS 30/6/2000-1 Matrix SmS unit above Sm. Gully by Gigjökull

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	71.46	0.33	12.65	3.78	0.16	0.07	1.38	4.59	4.08	98.50
	69.39	0.28	13.68	3.89	0.15	0.11	1.69	5.70	3.63	98.52
	• 67.38	0.33	15.23	4.26	0.18	0.09	1.98	6.27	3.19	98.91
	• 67.03	0.19	15.81	3.06	0.13	0.06	1.86	6.76	3.21	98.11
mean	*68.82*	*0.28*	*14.34*	*3.75*	*0.16*	*0.08*	*1.73*	*5.83*	*3.53*	*98.51*
s.d.	*2.05*	*0.07*	*1.44*	*0.50*	*0.02*	*0.02*	*0.26*	*0.93*	*0.42*	*0.33*
	49.43	1.79	13.35	12.42	0.24	6.19	11.20	2.37	0.19	97.18
	49.33	1.96	13.14	12.85	0.24	6.17	11.29	2.53	0.29	97.80
	48.98	1.87	13.19	12.52	0.39	6.32	11.44	2.52	0.32	97.55
	48.86	1.76	13.23	12.71	0.22	6.46	11.51	2.47	0.23	97.45
	48.80	1.91	13.29	12.43	0.18	6.24	11.55	2.48	0.22	97.10
	47.84	4.26	12.27	14.09	0.32	4.48	9.26	3.30	0.99	96.81
	47.38	4.51	12.13	13.97	0.24	5.56	9.82	3.12	0.81	97.54
	47.38	4.49	12.29	12.90	0.25	6.03	10.61	2.98	0.94	97.87
	47.25	4.21	12.38	14.39	0.27	4.57	9.10	3.16	0.88	96.21
	47.04	4.66	12.27	14.42	0.29	4.66	9.48	3.34	0.83	96.99
	46.99	4.75	12.19	13.98	0.28	4.69	9.20	3.17	0.83	96.08
	46.89	4.67	12.38	14.77	0.26	4.82	9.88	3.02	0.97	97.66
	46.28	4.72	12.12	14.90	0.27	4.80	9.66	3.08	0.78	96.61
	46.23	4.69	12.00	15.08	0.31	4.71	9.72	3.20	0.73	96.67
mean	*47.76*	*3.59*	*12.59*	*13.67*	*0.27*	*5.41*	*10.27*	*2.91*	*0.64*	*97.11*
s.d.	*1.11*	*1.35*	*0.52*	*0.99*	*0.05*	*0.79*	*0.95*	*0.35*	*0.31*	*0.57*

PX

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
49.16	1.41	3	0.01	10.99	0.35	13.14	20.14	0.44	98.64

PL

SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
47.67	0.07	31.34	0.7	0.14	15.95	2.48	0.06	98.41
49.27	0.06	30.89	0.75	0.12	15.61	2.77	0.09	99.56
48.47	*0.07*	*31.12*	*0.73*	*0.13*	*15.78*	*2.63*	*0.08*	*98.99*
1.13	*0.01*	*0.32*	*0.04*	*0.01*	*0.24*	*0.21*	*0.02*	*0.81*

mean
s.d.

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.31	12.9	1.81	0	76.01	1.03	2.73	94.79

27-1: 30/6 Sm 30/6/2000-2 Gravel between layers H and Y, Gully by Gigjökull

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.03	0.32	15.97	3.80	0.11	0.09	2.09	7.11	2.80	99.32
•	62.79	0.13	19.14	1.45	0.70	0.07	2.40	7.93	2.40	97.01
•	61.16	0.07	21.89	0.67	0.01	0.05	4.37	7.94	1.31	97.47
mean	*63.66*	*0.17*	*19.00*	*1.97*	*0.27*	*0.07*	*2.95*	*7.66*	*2.17*	*97.93*
s.d.	*3.03*	*0.13*	*2.96*	*1.63*	*0.37*	*0.02*	*1.24*	*0.48*	*0.77*	*1.22*
	55.21	2.47	13.05	11.99	0.28	3.08	6.45	3.62	1.72	97.87
	53.10	3.31	12.16	14.16	0.21	2.64	6.14	4.08	2.15	97.95
	52.48	3.05	13.88	11.58	0.25	3.37	6.99	3.46	1.47	96.53
	52.26	2.68	10.77	13.78	0.38	5.23	7.13	3.30	1.58	97.11
	50.93	3.85	13.71	13.01	0.23	4.17	8.46	0.69	0.78	95.83
	47.97	4.40	12.24	13.47	0.28	4.35	8.78	3.27	0.98	95.74
	47.80	4.35	12.81	13.63	0.21	4.32	9.05	3.26	0.94	96.37
	46.89	4.43	12.77	14.67	0.17	4.81	9.28	3.11	0.86	96.99
	46.00	4.98	11.29	16.14	0.26	4.19	9.26	3.22	1.11	96.45
	45.88	4.62	11.71	18.13	0.27	3.91	9.16	2.26	1.24	97.18
	45.65	4.94	11.98	15.19	0.24	4.70	9.64	3.09	0.79	96.22
mean	*49.47*	*3.92*	*12.40*	*14.16*	*0.25*	*4.07*	*8.21*	*3.03*	*1.24*	*96.75*
s.d.	*3.41*	*0.90*	*0.96*	*1.86*	*0.05*	*0.77*	*1.28*	*0.89*	*0.44*	*0.74*

OL

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
36.93	0.04	0.11	0.00	27.88	0.48	33.27	0.30	0.02	99.03

PX

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
48.92	0.59	0.97	0.03	22.22	0.92	5.87	19.58	0.35	99.45
50.74	0.99	2.00	0.02	10.03	0.34	15.18	19.06	0.35	98.71
mean	*49.83*	*0.79*	*1.49*	*0.03*	*16.13*	*0.63*	*10.53*	*19.32*	*0.35*	*99.08*
s.d.	*1.29*	*0.28*	*0.73*	*0.01*	*8.62*	*0.41*	*6.58*	*0.37*	*0.00*	*0.52*

PL

SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
49.80	0.06	30.85	0.81	0.08	14.99	2.98	0.11	99.68
51.28	0.09	29.06	0.63	0.10	12.89	4.12	0.19	98.36
48.23	0.09	31.47	0.75	0.14	15.83	2.45	0.08	99.04
mean	*49.77*	*0.08*	*30.46*	*0.73*	*0.11*	*14.57*	*3.18*	*0.13*	*99.03*
s.d.	*1.53*	*0.02*	*1.25*	*0.09*	*0.03*	*1.51*	*0.85*	*0.06*	*0.66*

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.28	20.98	0.95	0.00	72.17	1.05	0.39	95.82

PROFILES 30-34

30-1: *1Un Layer UN 3/7/2000 Section by road — Total of 19 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	65.83	1.30	13.64	5.85	0.14	1.25	3.06	4.31	2.64	98.02
	65.78	1.31	13.79	5.68	0.21	1.27	3.60	5.29	2.43	99.36
	65.33	1.28	13.80	5.54	0.18	1.22	3.71	5.58	1.14	97.78
	65.31	1.21	13.91	6.18	0.23	1.33	3.30	4.26	2.53	98.26
	64.80	1.28	13.88	6.12	0.17	1.25	3.22	4.64	2.64	98.00
	64.78	1.41	13.70	6.06	0.14	1.27	3.53	4.66	2.50	98.05
	64.59	1.23	13.64	6.16	0.17	1.44	3.55	4.45	2.65	97.88
	64.59	1.29	13.65	6.07	0.23	1.37	3.56	4.57	2.63	97.96
	64.58	1.30	13.72	6.17	0.19	1.31	3.37	4.44	2.63	97.71
	64.29	1.19	13.83	6.04	0.22	1.30	3.28	4.52	2.74	97.41
	64.06	1.31	13.81	5.83	0.21	1.31	3.44	4.70	2.52	97.19
	63.95	1.35	13.49	5.85	0.18	1.30	3.14	4.68	2.46	96.40
mean	*64.82*	*1.29*	*13.74*	*5.96*	*0.19*	*1.30*	*3.40*	*4.68*	*2.46*	*97.84*
s.d.	*0.62*	*0.06*	*0.12*	*0.21*	*0.03*	*0.06*	*0.20*	*0.39*	*0.43*	*0.69*
(b)	47.21	4.55	11.40	14.74	0.23	4.74	9.41	3.18	0.94	96.40
	46.91	4.49	12.66	14.23	0.24	4.93	9.50	3.15	0.79	96.90
	46.87	4.53	12.35	14.55	0.19	4.83	9.69	3.12	0.80	96.93
	46.74	4.63	12.16	14.39	0.22	4.81	9.38	3.22	1.14	96.69
	46.69	4.69	12.24	14.54	0.23	4.71	9.69	3.17	0.78	96.74
	46.63	4.42	12.53	14.28	0.21	4.94	9.61	3.18	0.78	96.58
mean	*46.84*	*4.55*	*12.22*	*14.46*	*0.22*	*4.83*	*9.55*	*3.17*	*0.87*	*96.71*
s.d.	*0.21*	*0.10*	*0.44*	*0.19*	*0.02*	*0.09*	*0.14*	*0.03*	*0.15*	*0.20*

30-2: *2St Layer St 3/7/2000 Section by road — Total of 25 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	72.50	0.22	11.80	3.46	0.06	0.05	0.93	4.07	4.44	97.53
	69.97	0.22	13.81	4.56	0.13	0.18	1.28	4.49	3.40	98.04
	69.79	0.24	13.63	3.99	0.13	0.08	0.93	5.98	3.65	98.42
	69.60	1.64	13.99	4.45	0.19	0.13	1.02	5.07	3.62	99.71
	69.52	0.26	13.73	4.57	0.19	0.13	1.07	6.22	3.40	99.09
	69.03	0.25	13.97	3.92	0.14	0.14	1.38	6.90	2.85	98.58
	68.81	0.24	13.04	4.67	0.15	0.17	1.08	5.61	3.59	97.36
	68.74	0.32	13.91	4.55	0.22	0.20	1.32	5.53	3.34	98.13
	68.58	0.23	13.87	4.55	0.15	0.19	1.14	6.00	3.35	98.06
	68.39	0.26	14.33	3.98	0.02	0.14	1.48	6.48	3.06	98.14
	68.06	0.31	13.74	4.79	0.17	0.21	1.31	5.33	3.16	97.08
	64.01	0.87	15.30	5.96	0.11	0.94	4.49	4.83	1.58	98.09
	63.00	0.75	16.67	5.33	0.11	0.90	4.93	4.67	1.43	97.79
	62.82	0.91	15.08	6.74	0.18	1.28	4.24	4.02	1.48	96.75
mean	*68.06*	*0.48*	*14.06*	*4.68*	*0.14*	*0.34*	*1.90*	*5.37*	*3.03*	*98.06*
s.d.	*2.81*	*0.42*	*1.11*	*0.85*	*0.05*	*0.39*	*1.45*	*0.89*	*0.90*	*0.77*
(b)	• 58.05	1.47	16.86	7.79	0.22	1.83	6.70	4.74	1.34	99.00
	• 57.74	1.90	15.22	8.86	0.22	3.09	6.48	3.96	1.13	98.60
	• 57.12	1.85	16.07	8.74	0.18	1.83	6.00	4.67	1.45	97.91
	56.71	2.12	13.36	11.02	0.25	2.44	5.35	4.32	1.81	97.38
	56.41	1.91	16.07	10.11	0.19	2.01	6.99	4.21	1.28	99.18
	55.58	2.43	14.00	14.52	0.18	1.63	4.68	4.32	0.94	98.28
	54.87	2.16	13.75	11.45	0.32	2.82	6.16	3.65	1.38	96.56
	47.07	4.51	12.39	14.24	0.19	5.03	9.70	2.79	0.72	96.64
	46.45	4.40	12.31	14.71	0.22	5.09	9.88	2.99	0.72	96.77
mean	*54.44*	*2.53*	*14.45*	*11.27*	*0.22*	*2.86*	*6.88*	*3.96*	*1.20*	*97.81*
s.d.	*4.47*	*1.12*	*1.67*	*2.67*	*0.04*	*1.34*	*1.79*	*0.69*	*0.36*	*1.02*

30-3: T6 Layer Y 3/7/2000 Section by road

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.17	0.96	13.61	5.32	0.19	0.91	2.36	4.49	2.84	97.85
	66.69	1.01	14.02	5.84	0.22	0.91	2.93	4.64	2.75	99.01
	66.44	1.03	13.76	5.55	0.21	0.98	2.78	4.18	2.72	97.65
	66.33	1.03	13.72	5.43	0.46	0.91	2.53	4.58	2.92	97.91
	66.02	1.13	13.61	5.94	0.17	1.22	2.96	3.92	2.86	97.83
	65.93	1.09	13.77	6.23	0.18	1.09	3.14	4.28	2.74	98.45
	65.77	1.07	13.72	6.30	0.19	1.10	2.94	4.24	2.75	98.08
	65.57	1.18	13.66	6.25	0.21	1.09	3.28	4.61	2.84	98.69
	65.44	1.15	13.67	6.39	0.19	1.14	3.12	4.39	2.55	98.04
	65.39	1.09	13.58	6.15	0.19	1.11	3.07	4.50	2.58	97.66
	65.22	0.91	13.96	6.08	0.23	1.22	2.95	4.16	2.73	97.46
	65.16	1.10	13.97	6.10	0.23	1.19	3.04	4.46	2.67	97.92
	65.16	1.10	13.97	6.10	0.23	1.19	3.04	4.46	2.67	97.92
	65.07	1.22	13.64	6.32	0.15	1.14	2.93	4.29	2.87	97.63
	46.54	4.53	12.35	14.74	0.28	5.19	9.94	2.87	0.71	97.15
	46.51	4.43	12.59	14.32	0.20	5.17	9.90	3.00	0.77	96.89
	46.27	4.63	12.53	14.43	0.21	5.21	10.13	3.01	0.73	97.15
	46.23	4.55	12.66	14.32	0.24	5.18	9.95	2.99	0.77	96.89
	46.10	4.45	12.38	14.10	0.25	5.19	9.90	2.91	0.74	96.02
	45.99	4.54	12.58	14.37	0.19	5.22	10.14	2.95	0.68	96.66
Mean	**59.95**	**2.11**	**13.39**	**8.51**	**0.22**	**2.32**	**5.05**	**3.95**	**2.14**	**97.64**
Mean AN	**65.81**	**1.08**	**13.76**	**6.00**	**0.22**	**1.09**	**2.93**	**4.37**	**2.75**	**98.01**
Mean BS	**46.27**	**4.52**	**12.52**	**14.38**	**0.23**	**5.19**	**9.99**	**2.96**	**0.73**	**96.79**
S.D.(AN)	0.65	0.08	0.15	0.34	0.07	0.11	0.24	0.20	0.11	0.43
S.D. (BS)	0.22	0.07	0.12	0.21	0.03	0.02	0.11	0.06	0.04	0.42

30-4: T7, 3/7/2000-1 section by road

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.65	1.34	13.68	5.95	0.03	1.19	4.10	5.90	1.10	98.94
	65.63	1.42	13.66	5.92	0.03	1.25	3.41	4.52	2.64	98.48
	65.47	1.33	13.70	5.64	0.14	1.43	3.11	4.77	2.93	98.52
	65.43	1.31	13.79	5.86	0.07	1.32	3.39	4.22	2.58	97.97
	65.23	1.43	13.78	5.93	0.04	1.32	3.35	4.46	2.66	98.20
	65.16	1.24	13.41	6.10	0.09	1.33	3.55	4.28	2.52	97.68
	65.12	1.29	13.75	6.12	0.02	1.37	3.50	4.60	2.67	98.44
	65.07	1.33	13.83	5.75	0.07	1.37	3.40	4.62	2.50	97.94
	64.94	1.22	13.40	6.23	0.05	1.30	3.39	4.56	2.51	97.60
	64.90	1.39	13.95	6.37	0.00	1.34	3.48	4.25	2.60	98.28
	64.87	1.17	13.66	5.95	0.08	1.37	3.58	4.78	2.60	98.06
	64.61	1.34	13.53	5.99	0.08	1.22	3.45	4.38	2.56	97.16
mean	*65.18*	*1.32*	*13.66*	*6.01*	*0.06*	*1.31*	*3.48*	*4.61*	*2.49*	*98.12*
s.d.	*0.34*	*0.08*	*0.17*	*0.19*	*0.04*	*0.07*	*0.24*	*0.47*	*0.47*	*0.50*

30-5: T8, 3/7/2000-1 section by road, Total 18 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
•	63.90	0.74	16.58	5.19	0.10	0.96	4.99	5.35	1.32	99.13
	63.18	0.96	15.00	6.35	0.02	1.25	5.05	4.20	1.52	97.53
mean	*63.54*	*0.85*	*15.79*	*5.77*	*0.06*	*1.11*	*5.02*	*4.78*	*1.42*	*98.33*
s.d.	*0.51*	*0.16*	*1.12*	*0.82*	*0.06*	*0.21*	*0.04*	*0.81*	*0.14*	*1.13*
	57.42	1.73	15.05	9.42	0.22	1.77	5.75	4.49	1.51	97.36
	57.23	1.86	13.40	11.08	0.22	2.37	5.99	4.47	1.61	98.23
	56.95	1.73	14.77	10.25	0.23	2.55	5.66	3.53	1.35	97.02
	55.98	2.11	12.84	12.46	0.30	2.65	5.90	2.86	1.59	96.69
•	55.62	1.72	15.74	10.49	0.22	2.17	6.84	3.40	1.16	97.36
	55.12	1.97	13.38	12.15	0.31	2.84	5.92	3.50	1.44	96.63
	55.06	2.00	13.90	11.63	0.25	2.72	6.12	3.77	1.43	96.88
	54.44	1.97	13.70	12.01	0.31	2.73	6.11	3.69	1.58	96.54
mean	*55.98*	*1.89*	*14.10*	*11.19*	*0.26*	*2.48*	*6.04*	*3.71*	*1.46*	*97.09*
s.d.	*1.11*	*0.15*	*0.99*	*1.06*	*0.04*	*0.36*	*0.36*	*0.55*	*0.15*	*0.56*
	46.92	4.35	12.04	14.74	0.18	4.56	9.25	3.20	0.89	96.13
	46.34	5.17	11.28	16.48	0.24	4.00	9.00	3.18	1.04	96.73
	46.33	4.52	12.44	14.58	0.20	5.11	9.80	3.13	0.75	96.86
	46.31	4.31	12.60	14.30	0.27	5.08	9.54	3.13	0.71	96.25
	46.10	4.31	12.48	14.35	0.23	5.01	9.64	3.05	0.75	95.92
	46.08	5.06	12.11	15.04	0.25	4.71	9.50	3.24	0.74	96.73
	45.59	4.67	12.39	14.92	0.18	4.88	9.76	3.11	0.70	96.20
mean	*46.24*	*4.63*	*12.19*	*14.92*	*0.22*	*4.76*	*9.50*	*3.15*	*0.80*	*96.40*
s.d.	*0.40*	*0.36*	*0.45*	*0.74*	*0.04*	*0.39*	*0.29*	*0.06*	*0.12*	*0.36*

MT	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
	0.19	18.91	2.75	0.01	71.63	0.56	2.05	96.1

31-1: T1 Layer Y 18/8/2000-1 Layer Y

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.77	0.93	13.63	5.08	0.13	0.78	2.99	4.34	3.24	98.89
	67.36	1.22	13.31	6.10	0.42	0.85	2.41	4.23	3.23	99.13
	67.06	1.08	13.53	5.80	0.17	0.82	2.44	4.24	3.51	98.65
	66.50	1.06	13.75	5.69	0.19	0.93	3.09	5.92	1.73	98.86
	65.79	1.37	13.95	6.03	0.20	1.17	3.22	4.37	2.99	99.09
	65.71	0.92	13.86	6.00	0.18	1.09	2.99	4.29	2.68	97.72
	65.68	1.17	14.12	6.24	0.13	1.22	2.95	4.51	2.87	98.89
	65.65	1.17	13.89	6.39	0.20	1.19	3.12	4.29	2.77	98.67
	65.60	1.07	13.85	6.07	0.19	1.02	3.06	4.43	2.72	98.01
	65.39	1.10	14.12	5.91	0.19	1.09	3.03	4.44	2.74	98.01
	65.27	1.07	13.93	6.54	0.22	1.16	3.11	4.14	3.40	98.84
	65.10	1.03	13.67	6.28	0.20	0.98	3.45	4.32	2.97	98.00
•	63.63	0.42	19.74	2.62	0.09	0.30	5.87	6.75	1.59	101.01
	49.81	4.02	12.97	12.84	0.14	4.30	8.66	3.41	1.12	97.27
	48.52	4.20	12.79	12.83	0.20	4.50	8.77	3.36	1.03	96.20
	47.90	4.29	12.55	13.42	0.18	4.70	9.21	3.37	0.88	96.50
	46.91	4.53	12.74	14.34	0.21	5.14	9.94	3.10	0.85	97.76
	46.66	4.62	12.56	13.83	0.22	5.02	9.86	3.17	0.72	96.66
	46.47	4.70	12.83	13.98	0.22	5.02	10.07	3.02	0.74	97.05
	46.39	4.55	12.58	13.85	0.14	5.22	9.99	3.09	0.75	96.56
	46.28	4.38	12.40	13.75	0.17	5.25	9.92	3.16	0.81	96.12
	46.25	4.41	12.66	13.70	0.16	5.08	9.85	3.14	0.79	96.04
	46.17	4.45	12.38	14.17	0.16	5.17	9.96	2.94	0.73	96.13
	46.15	4.67	12.63	14.19	0.16	5.31	9.95	2.88	0.64	96.58
	46.00	4.49	12.56	13.79	0.17	5.16	10.00	2.92	0.70	95.79
	45.94	4.48	12.42	14.02	0.19	5.03	9.91	2.99	0.72	95.70
Mean	*56.38*	*2.75*	*13.44*	*9.75*	*0.19*	*2.98*	*6.45*	*3.88*	*1.80*	*97.62*
Mean AN	*66.07*	*1.10*	*13.80*	*6.01*	*0.20*	*1.03*	*2.99*	*4.46*	*2.90*	*98.56*
Mean BS	*46.88*	*4.45*	*12.62*	*13.75*	*0.18*	*4.99*	*9.70*	*3.12*	*0.81*	*96.49*
S.D. (AN)	*0.88*	*0.12*	*0.24*	*0.38*	*0.07*	*0.15*	*0.29*	*0.47*	*0.46*	*0.49*
S.D. (bs)	*1.16*	*0.19*	*0.18*	*0.47*	*0.03*	*0.31*	*0.49*	*0.17*	*0.14*	*0.59*

31-2: T2

Total of 29 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	70.19	0.19	13.95	4.08	0.14	0.10	0.98	5.33	3.74	98.70
	69.94	0.30	13.29	4.19	0.10	0.08	0.68	6.92	3.67	99.17
	69.91	0.24	14.19	4.29	0.14	0.13	1.10	5.33	3.80	99.13
	69.66	0.32	13.84	4.66	0.17	0.14	0.96	4.93	3.68	98.36
	69.64	0.25	14.06	4.27	0.11	0.07	0.82	5.18	3.78	98.18
	69.59	0.25	13.49	4.60	0.12	0.12	1.02	4.74	4.00	97.93
	69.55	0.30	13.40	5.36	0.33	0.28	1.78	4.09	3.19	98.28
	69.54	0.27	13.87	4.34	0.12	0.12	1.11	5.71	3.40	98.48
	69.17	0.29	14.04	4.58	0.15	0.14	1.22	5.26	3.50	98.35
	69.11	0.24	13.95	4.40	0.23	0.12	0.95	5.39	3.70	98.09
	64.11	0.41	11.71	8.91	0.41	0.77	5.17	5.11	2.70	99.30
mean	*69.13*	*0.28*	*13.62*	*4.88*	*0.18*	*0.19*	*1.44*	*5.27*	*3.56*	*98.54*
s.d.	*1.69*	*0.06*	*0.70*	*1.38*	*0.10*	*0.20*	*1.27*	*0.69*	*0.36*	*0.47*
(b)	51.32	2.87	13.83	11.87	0.23	3.64	7.41	4.11	1.31	96.59
	50.24	3.82	12.31	13.84	0.23	3.86	8.21	3.54	1.27	97.32
	49.43	3.57	12.73	12.79	0.23	4.41	8.26	3.55	1.10	96.07
	47.31	4.08	13.00	13.37	0.21	4.81	9.31	3.34	1.08	96.51
	47.31	4.07	13.05	13.60	0.21	4.94	9.30	3.35	0.96	96.79
	47.09	4.54	12.56	14.16	0.21	4.85	9.25	3.10	0.89	96.65
	46.37	4.90	12.21	14.56	0.36	4.62	9.69	3.06	1.46	97.23
	46.36	4.55	12.41	14.15	0.21	5.01	10.21	3.03	0.77	96.70
	46.34	4.97	12.58	14.12	0.24	5.14	9.87	3.00	0.77	97.03
	46.21	4.12	12.99	14.56	0.20	4.94	9.49	3.28	0.86	96.65
	45.99	4.67	12.52	14.34	0.34	5.19	9.62	3.13	0.74	96.54
mean	*47.63*	*4.20*	*12.74*	*13.76*	*0.24*	*4.67*	*9.15*	*3.32*	*1.02*	*96.73*
s.d.	*1.84*	*0.62*	*0.46*	*0.82*	*0.05*	*0.51*	*0.84*	*0.33*	*0.24*	*0.35*

31-3: T3

Total of 27 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	72.05	0.27	12.02	4.12	0.11	0.12	0.76	5.16	3.61	98.22
	71.18	0.27	13.84	4.34	0.14	0.10	0.81	5.31	3.81	99.80
	70.81	0.16	13.79	3.40	0.10	0.05	0.82	6.36	3.41	98.90
	70.73	0.25	13.42	4.65	0.08	0.07	0.87	6.76	2.83	99.66
	70.64	0.34	13.70	3.57	0.17	0.07	1.00	6.55	2.96	99.00
	70.55	0.35	13.98	4.54	0.15	0.09	1.10	5.15	3.67	99.58
	70.39	0.18	14.16	4.16	0.15	0.15	1.21	5.54	3.54	99.48
	70.35	0.24	13.80	4.42	0.14	0.14	1.12	4.87	4.14	99.22
	70.07	0.21	13.98	4.51	0.20	0.16	1.14	4.87	3.56	98.70
	70.06	0.26	14.08	4.22	0.15	0.14	1.02	5.40	3.87	99.20
	69.71	0.26	13.22	4.35	0.12	0.14	0.85	7.25	2.96	98.86
	68.98	0.19	13.67	5.74	0.20	0.17	0.69	6.76	3.33	99.73
	66.44	0.44	13.55	7.18	0.21	0.24	2.53	4.84	3.59	99.02
mean	*70.15*	*0.26*	*13.63*	*4.55*	*0.15*	*0.13*	*1.07*	*5.76*	*3.48*	*99.18*
s.d.	*1.33*	*0.08*	*0.55*	*0.96*	*0.04*	*0.05*	*0.47*	*0.85*	*0.38*	*0.46*
(b)	50.08	3.68	12.81	13.29	0.25	3.92	8.11	3.71	1.17	97.02
	49.96	4.07	12.89	13.66	0.24	4.18	8.60	3.37	1.04	98.01
	49.65	3.64	12.90	13.80	0.26	4.16	8.80	3.40	1.01	97.62
	49.05	3.31	12.57	14.05	0.54	4.69	8.76	3.88	1.17	98.02
	46.47	4.68	12.41	15.01	0.23	5.11	10.03	3.03	0.66	97.63
	46.35	4.65	12.45	14.66	0.28	5.14	9.88	3.10	0.69	97.20
mean	*48.59*	*4.01*	*12.67*	*14.08*	*0.30*	*4.53*	*9.03*	*3.42*	*0.96*	*97.58*
s.d.	*1.73*	*0.57*	*0.22*	*0.65*	*0.12*	*0.52*	*0.76*	*0.33*	*0.23*	*0.41*

32-1: T4 Total of 26 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	67.28	0.90	13.80	5.39	0.16	0.80	2.56	4.58	3.19	98.66
	67.19	0.89	13.79	5.23	0.34	0.82	2.50	4.26	3.11	98.13
	67.00	0.91	13.61	5.60	0.20	0.79	2.45	4.57	2.96	98.09
	66.80	1.04	13.66	5.83	0.20	0.90	2.65	4.26	2.96	98.30
	66.25	0.92	13.61	5.63	0.17	0.86	2.63	4.38	2.95	97.40
	66.23	1.14	13.87	5.89	0.18	1.11	3.23	4.35	2.63	98.63
	65.84	1.02	13.97	5.84	0.19	1.12	3.18	4.50	2.93	98.59
	65.68	1.11	14.02	5.77	0.17	1.06	2.96	4.49	2.89	98.15
	65.64	1.06	13.91	5.99	0.16	1.13	2.98	4.52	2.68	98.07
	65.55	1.00	13.85	6.43	0.22	1.14	3.21	4.22	2.69	98.31
	65.27	1.09	13.94	5.94	0.21	1.16	3.01	4.54	2.83	97.99
	65.13	1.94	13.88	6.16	0.25	1.11	2.88	4.44	2.75	98.54
mean	*66.16*	*1.09*	*13.83*	*5.81*	*0.20*	*1.00*	*2.85*	*4.43*	*2.88*	*98.24*
s.d.	*0.76*	*0.28*	*0.14*	*0.32*	*0.05*	*0.15*	*0.28*	*0.13*	*0.17*	*0.36*
(b)	49.57	3.96	12.85	12.82	0.17	4.31	8.71	3.39	1.12	96.90
	49.42	3.80	12.44	14.02	0.23	4.02	8.81	3.12	1.01	96.87
	49.24	4.11	12.86	13.38	0.21	4.52	8.91	3.30	1.00	97.53
	49.22	4.02	12.79	13.74	0.20	4.54	9.20	3.18	1.02	97.91
	49.12	3.91	12.90	13.75	0.32	4.51	10.01	3.26	1.04	98.82
	48.64	4.14	12.85	13.66	0.23	4.67	9.12	3.26	0.96	97.53
	46.86	4.57	12.74	14.88	0.24	5.18	10.02	2.92	0.74	98.15
	46.67	4.29	12.79	14.77	0.22	5.17	9.83	3.14	0.86	97.74
	46.57	4.61	12.74	14.31	0.17	5.08	10.03	2.95	0.73	97.19
	46.44	4.70	12.62	14.66	0.20	4.95	10.11	3.12	0.78	97.58
	46.28	4.45	12.75	14.73	0.24	5.41	9.83	2.96	0.77	97.42
	45.59	4.55	12.46	14.98	0.19	5.19	10.17	3.06	0.71	96.90
mean	*47.80*	*4.26*	*12.73*	*14.14*	*0.22*	*4.80*	*9.56*	*3.14*	*0.90*	*97.55*
s.d.	*1.51*	*0.31*	*0.15*	*0.69*	*0.04*	*0.43*	*0.56*	*0.15*	*0.15*	*0.57*

32-2: T5 Total of 24 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	71.57	0.15	14.16	3.23	0.07	0.04	0.78	6.36	3.38	99.74
	70.73	0.19	13.60	4.36	0.11	0.12	1.14	4.82	3.54	98.61
	70.47	0.27	14.00	4.23	0.14	0.12	1.08	5.25	3.70	99.26
	70.43	0.22	13.70	4.63	0.17	0.17	1.19	5.16	3.66	99.33
	70.28	0.22	13.56	4.19	0.15	0.12	1.04	7.13	2.19	98.88
	70.20	0.19	14.07	4.53	0.12	0.17	1.01	4.81	3.81	98.91
	70.07	0.33	14.04	4.48	0.18	0.15	1.26	4.60	3.44	98.55
	69.90	0.18	14.43	4.48	0.09	0.16	1.33	5.08	3.46	99.11
	69.87	0.28	13.98	4.56	0.10	0.15	1.18	5.00	3.92	99.04
	69.75	0.24	13.68	4.19	0.37	0.13	0.89	5.76	3.60	98.61
•	69.20	0.23	15.69	2.85	0.13	0.06	1.05	7.15	2.90	99.26
	67.23	0.26	12.33	7.85	0.34	0.59	2.59	5.61	3.12	99.92
mean	*69.98*	*0.23*	*13.94*	*4.47*	*0.16*	*0.17*	*1.21*	*5.56*	*3.39*	*99.10*
s.d.	*1.04*	*0.05*	*0.76*	*1.20*	*0.09*	*0.14*	*0.46*	*0.88*	*0.47*	*0.43*
(b)	49.38	3.89	12.85	13.65	0.24	4.26	8.56	3.41	0.99	97.23
	48.67	4.16	12.58	13.84	0.18	4.08	8.82	3.52	0.97	96.82
	47.64	4.52	12.71	14.18	0.18	5.11	9.85	3.00	0.75	97.94
	47.57	4.47	12.14	14.60	0.18	3.99	9.15	3.19	0.86	96.15
	47.22	4.56	12.25	14.43	0.20	4.62	9.49	3.18	0.92	96.87
	46.76	4.54	12.55	14.68	0.17	5.02	9.78	3.09	0.76	97.35
	46.52	4.39	12.49	14.56	0.21	5.04	9.90	2.94	0.64	96.69
mean	*47.68*	*4.36*	*12.51*	*14.28*	*0.19*	*4.59*	*9.36*	*3.19*	*0.84*	*97.01*
s.d.	*1.02*	*0.25*	*0.25*	*0.40*	*0.02*	*0.48*	*0.53*	*0.21*	*0.13*	*0.57*

32-3: T4 repeated Total of 18 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	67.20	0.97	13.84	5.45	0.08	0.82	2.61	4.97	3.11	99.05
	66.89	1.08	13.89	5.23	0.09	0.77	2.59	4.48	3.01	98.03
	66.49	1.06	14.01	5.65	0.62	0.82	2.78	4.74	2.69	98.86
	65.83	1.16	13.56	5.79	0.08	0.96	3.11	4.67	2.78	97.94
	65.75	1.12	14.04	6.45	0.12	1.05	3.09	4.83	2.66	99.11
	65.60	1.11	13.82	5.94	0.10	1.03	2.72	4.82	2.82	97.96
	65.56	1.21	13.65	6.35	0.21	1.11	3.11	4.06	2.79	98.05
	65.56	1.12	13.97	6.20	0.08	1.01	3.19	4.54	2.64	98.31
	65.48	1.21	13.95	5.74	0.16	1.02	2.82	4.72	2.83	97.93
	65.43	1.25	13.74	6.30	0.17	1.14	2.91	4.51	2.97	98.42
	65.26	1.02	13.00	6.13	0.05	1.09	3.15	4.52	2.83	97.05
	65.16	1.27	13.75	6.33	0.05	1.01	3.14	4.64	2.72	98.07
	65.13	1.22	13.97	6.04	0.08	0.98	2.82	4.94	2.78	97.96
mean	*65.80*	*1.14*	*13.78*	*5.97*	*0.15*	*0.99*	*2.93*	*4.65*	*2.82*	*98.21*
s.d.	*0.66*	*0.09*	*0.28*	*0.38*	*0.15*	*0.12*	*0.22*	*0.24*	*0.14*	*0.55*
(b)	48.01	4.21	12.40	13.56	0.13	4.73	9.11	3.17	0.88	96.20
	46.66	4.56	12.60	15.77	0.21	4.82	9.62	3.15	0.72	98.11
	46.34	4.47	12.52	13.99	0.19	5.14	10.19	2.88	0.73	96.45
	46.26	4.38	12.54	14.29	0.22	5.14	9.98	2.98	0.68	96.47
	46.13	4.52	12.48	13.91	0.16	5.05	10.13	2.93	0.71	96.02
mean	*46.68*	*4.43*	*12.51*	*14.30*	*0.18*	*4.98*	*9.81*	*3.02*	*0.74*	*96.65*
stdev	*0.77*	*0.14*	*0.07*	*0.86*	*0.04*	*0.19*	*0.45*	*0.13*	*0.08*	*0.84*

32-4: 21/8 Sm Basal gravel from section by road. Sm? Or SmL? Possibly below Y

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.80	0.27	12.98	3.64	0.16	0.26	1.29	4.79	3.69	96.88
	65.92	0.87	12.92	5.32	0.25	0.80	2.45	4.52	2.99	96.04
	64.36	1.22	13.85	6.16	0.17	1.26	3.42	4.35	2.72	97.51
mean	*66.69*	*0.79*	*13.25*	*5.04*	*0.19*	*0.77*	*2.39*	*4.55*	*3.13*	*96.81*
s.d.	*2.80*	*0.48*	*0.52*	*1.28*	*0.05*	*0.50*	*1.07*	*0.22*	*0.50*	*0.74*
	48.20	4.16	13.10	12.66	0.28	3.6	9.74	3.95	0.78	96.53
	48.12	2.41	13.19	12.69	0.23	6.59	10.97	2.43	0.33	96.96
	47.80	4.12	12.51	13.74	0.26	4.20	9.19	3.37	0.92	96.11
	46.73	4.61	12.44	14.21	0.26	4.61	9.26	3.32	0.84	96.28
	46.46	4.37	12.36	13.90	0.26	4.79	9.28	3.23	0.88	95.53
	45.94	4.63	12.41	14.24	0.23	5.07	9.81	3.06	0.70	96.09
	45.92	4.42	12.41	14.31	0.22	4.89	9.58	3.11	0.80	95.66
	45.88	4.56	12.44	14.21	0.27	4.97	9.85	2.93	0.76	95.87
	45.71	4.67	12.47	14.27	0.23	5.13	9.94	2.90	0.76	96.08
	45.63	4.40	12.58	14.57	0.24	5.07	9.62	3.04	0.76	95.91
	45.38	4.53	12.42	14.45	0.27	5.21	9.70	2.99	0.77	95.72
mean	*46.52*	*4.26*	*12.58*	*13.93*	*0.25*	*4.93*	*9.72*	*3.12*	*0.75*	*96.07*
s.d.	*1.05*	*0.64*	*0.29*	*0.66*	*0.02*	*0.72*	*0.49*	*0.37*	*0.15*	*0.41*

PL

SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
50.56	0.1	29.87	0.72	0.14	13.6	3.62	0.12	98.73

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.24	18.22	3.99	0.25	66.84	0.23	5.13	94.9

34-1: TB Layer Un

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.29	1.44	14.10	6.06	0.04	1.32	3.41	4.59	2.61	98.86
	65.28	1.38	14.31	5.57	0.10	1.16	3.18	4.74	2.58	98.30
	65.17	1.21	13.94	5.97	0.15	1.24	3.85	4.64	2.43	98.60
	65.12	1.29	13.90	5.71	0.09	1.25	3.02	4.25	2.58	97.21
	64.95	1.22	14.18	5.75	0.13	1.24	3.38	4.13	2.43	97.41
	64.83	1.33	13.81	5.94	2.39	1.31	3.30	4.25	2.60	99.76
	64.81	1.40	13.72	5.98	0.15	1.47	3.17	4.42	2.75	97.87
	64.79	1.24	14.00	6.03	0.13	1.36	3.40	4.18	2.48	97.61
	64.59	1.44	13.90	6.05	0.12	1.27	3.53	4.47	2.63	98.00
	64.58	1.30	14.00	6.01	0.12	1.37	3.41	4.54	2.48	97.81
	64.51	1.37	13.91	6.46	0.09	1.39	3.70	4.69	2.65	98.77
	64.20	1.34	13.91	5.92	0.34	1.23	3.27	4.21	2.64	97.06
	63.70	1.41	13.95	5.90	0.13	1.23	3.67	5.55	1.92	97.46
mean	*64.76*	*1.34*	*13.97*	*5.95*	*0.31*	*1.30*	*3.41*	*4.51*	*2.52*	*98.06*
s.d.	*0.45*	*0.08*	*0.15*	*0.21*	*0.63*	*0.08*	*0.23*	*0.37*	*0.20*	*0.77*
	47.95	4.16	13.36	11.13	0.13	5.68	12.73	2.99	0.43	98.56
	47.88	4.19	13.89	13.89	0.23	5.90	9.19	3.51	0.68	99.36
	47.85	4.90	12.97	16.30	0.20	3.54	9.53	2.64	0.94	98.87
	46.57	4.37	12.47	14.21	0.21	4.93	9.50	3.01	0.78	96.05
	46.51	4.56	12.54	14.22	0.15	4.89	9.69	3.18	0.75	96.49
	46.42	4.38	12.52	14.37	0.21	4.77	9.87	3.11	0.82	96.47
mean	*47.20*	*4.43*	*12.96*	*14.02*	*0.19*	*4.95*	*10.09*	*3.07*	*0.73*	*97.63*
s.d.	*0.77*	*0.27*	*0.57*	*1.66*	*0.04*	*0.83*	*1.32*	*0.28*	*0.17*	*1.45*

34-2: TA Layer St Total of 22 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.61	1.13	13.77	5.66	0.15	1.10	3.15	4.35	2.87	98.79
	64.35	0.89	15.34	6.64	0.09	1.28	4.48	3.90	1.64	98.61
	64.23	0.87	15.32	5.94	0.04	1.17	4.14	4.15	1.59	97.45
	64.22	0.88	15.44	6.59	0.05	1.38	4.48	4.01	1.59	98.64
	64.00	0.83	15.05	6.62	0.12	1.30	4.43	3.94	1.59	97.88
	63.98	0.79	15.35	6.62	0.11	1.24	4.32	3.94	1.65	98.00
	63.90	0.90	15.18	6.66	0.10	1.34	4.45	4.16	1.60	98.29
	63.87	0.77	15.48	6.62	0.07	1.30	4.32	4.54	1.67	98.64
•	63.76	0.00	19.64	0.25	0.00	0.02	1.54	8.52	3.38	97.11
•	63.27	0.62	18.47	4.14	0.00	0.68	5.68	5.51	1.09	99.46
	63.07	0.89	15.33	6.67	0.12	1.31	4.37	4.06	1.53	97.35
	62.96	0.86	13.63	6.56	0.12	1.28	4.47	4.20	1.67	95.75
	62.92	0.89	15.14	6.15	0.06	1.33	4.34	4.12	1.67	96.62
	62.67	0.88	15.29	6.53	0.14	1.13	4.21	4.27	1.46	96.58
	62.53	1.12	13.76	10.15	0.15	0.87	4.32	4.39	1.71	99.00
mean	*63.76*	*0.82*	*15.48*	*6.12*	*0.09*	*1.12*	*4.18*	*4.54*	*1.78*	*97.88*
s.d.	*0.99*	*0.26*	*1.60*	*2.02*	*0.05*	*0.36*	*0.88*	*1.17*	*0.57*	*1.05*
	47.24	3.79	13.33	13.69	0.20	5.87	11.25	3.13	0.23	98.73
	46.55	3.20	14.57	14.15	0.16	6.55	10.79	2.40	0.67	99.04
	46.20	3.92	12.54	14.08	0.19	5.45	10.81	2.93	0.56	96.68
	46.19	3.02	4.88	15.16	0.27	7.39	19.57	0.83	0.15	97.46
mean	*46.55*	*3.48*	*11.33*	*14.27*	*0.21*	*6.32*	*13.11*	*2.32*	*0.40*	*97.98*
s.d.	*0.49*	*0.44*	*4.38*	*0.63*	*0.05*	*0.85*	*4.32*	*1.04*	*0.25*	*1.10*

PX

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
51.23	0.54	1.65	0.01	13.28	0.52	13.3	19.01	0.24	99.78

PL

SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
53.91	0.98	27.87	0.51	0.07	11.46	5.12	0.13	100.05

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.19	19.13	2.82	0.03	72.22	0.58	2.05	97.02

34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 Total of 23 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	70.36	0.28	13.16	3.93	0.03	0.22	1.25	4.92	3.60	97.75
(b)	47.61	4.35	12.53	14.36	0.20	4.63	9.50	3.12	0.78	97.08
	46.78	4.40	12.63	14.35	0.22	5.10	9.78	3.15	0.72	97.13
	46.70	4.59	12.56	14.62	0.18	5.08	9.94	3.11	0.77	97.55
	46.65	4.57	12.63	14.45	0.24	5.03	9.62	3.15	0.75	97.09
	46.64	4.51	12.45	14.77	0.23	5.06	9.74	3.09	0.75	97.24
	46.62	4.58	12.76	14.74	0.22	5.03	9.86	3.03	0.71	97.55
	46.62	4.65	12.72	14.83	0.18	4.92	9.82	3.15	0.80	97.69
	46.59	4.46	12.65	14.09	0.21	4.98	9.79	2.98	0.72	96.47
	46.49	4.51	12.35	14.58	0.23	4.89	9.68	2.97	0.73	96.43
	46.38	4.51	12.60	14.51	0.19	4.96	9.73	3.00	0.80	96.68
	46.34	4.63	12.45	14.52	0.22	4.91	9.98	3.00	0.79	96.84
	46.33	4.51	12.44	14.57	0.21	4.77	9.87	2.94	0.69	96.33
	46.31	4.38	12.62	14.73	0.19	5.00	9.90	3.04	0.78	96.95
	46.30	4.39	12.48	14.33	0.21	4.97	9.63	3.03	0.84	96.18
	46.15	4.68	12.68	14.48	0.26	4.91	9.79	3.10	0.80	96.85
	46.07	4.29	12.71	14.32	0.28	5.03	9.81	3.04	0.72	96.27
	45.97	4.55	12.54	14.32	0.17	5.06	10.05	3.11	0.76	96.53
	45.88	4.51	12.52	14.49	0.18	4.96	9.82	3.06	0.70	96.12
mean	*46.47*	*4.50*	*12.57*	*14.50*	*0.21*	*4.96*	*9.80*	*3.06*	*0.76*	*96.83*
s.d.	*0.39*	*0.11*	*0.11*	*0.19*	*0.03*	*0.12*	*0.13*	*0.07*	*0.04*	*0.49*

34-4: MPU 4/9/2000-1 Main pumice unit. Unit U

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	45.66	4.46	12.58	13.71	0.27	5.02	9.57	3.05	0.76	95.08
	46.02	4.46	12.26	14.45	0.25	4.89	9.62	3.1	0.86	95.91
	46.07	4.29	12.71	14.32	0.28	5.03	9.81	3.04	0.72	96.27
	46.15	4.68	12.68	14.48	0.26	4.91	9.79	3.1	0.8	96.85
	46.26	4.43	12.6	14.16	0.19	4.89	9.61	3.09	0.72	95.95
	46.65	4.57	12.63	14.45	0.24	5.03	9.62	3.15	0.75	97.09
	46.64	4.51	12.45	14.77	0.23	5.06	9.74	3.09	0.75	97.24
mean	46.21	4.49	12.56	14.33	0.25	4.98	9.68	3.09	0.77	96.34
s.d.	0.35	0.12	0.16	0.33	0.03	0.08	0.10	0.04	0.05	0.77

34-5: TC (T below Un/St , above 2 pale tephras) N Markarfljót 4/9/2000 Total of 20 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	56.13	2.00	14.31	11.56	0.26	2.83	6.36	2.96	1.39	97.80
	56.02	1.80	14.75	10.43	0.18	2.44	5.90	4.25	1.24	97.01
	55.88	1.82	13.22	10.45	0.21	2.60	6.34	3.69	1.30	95.51
•	55.86	1.56	17.29	8.29	0.10	1.92	7.41	4.21	1.07	97.71
	55.79	1.84	13.93	11.31	0.19	2.71	6.57	3.66	1.27	97.27
	55.79	1.95	13.95	11.89	0.27	2.57	6.59	2.96	1.34	97.31
	55.69	2.03	14.46	11.27	0.21	2.82	6.32	2.92	1.25	96.97
	55.68	1.81	15.96	10.74	0.12	2.34	6.95	4.35	1.05	99.00
	55.61	1.97	14.29	10.95	0.13	2.49	5.79	3.17	1.40	95.80
	55.54	1.95	14.63	11.24	0.18	2.60	6.13	3.67	1.37	97.31
	55.37	1.92	14.51	10.67	0.25	2.66	6.20	3.19	1.34	96.11
	55.13	1.89	14.22	9.14	0.20	2.48	6.76	4.81	1.50	96.13
	54.31	1.96	14.57	11.61	0.22	2.68	6.21	3.39	1.27	96.22
mean	*55.60*	*1.88*	*14.62*	*10.73*	*0.19*	*2.55*	*6.43*	*3.63*	*1.29*	*96.93*
s.d.	*0.47*	*0.12*	*1.01*	*1.02*	*0.05*	*0.24*	*0.44*	*0.61*	*0.13*	*0.96*
	47.54	4.36	12.63	14.46	0.16	4.67	9.34	3.33	0.92	97.41
	46.14	4.85	12.24	15.08	0.23	4.71	9.92	3.30	0.75	97.22
	45.75	4.77	12.38	15.27	0.26	4.74	9.67	3.10	0.80	96.74
mean	*46.48*	*4.66*	*12.42*	*14.94*	*0.22*	*4.71*	*9.64*	*3.24*	*0.82*	*97.12*
s.d.	*0.94*	*0.26*	*0.20*	*0.42*	*0.05*	*0.04*	*0.29*	*0.13*	*0.09*	*0.35*

PX

	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
	47.77	4.86	9.7	15.97	0.26	6.5	11.19	1.93	1.02	99.2
	52.03	0.46	1.2	0	21.92	0.67	21.77	2.02	0.05	100.12
mean	*49.90*	*2.66*	*5.45*	*7.99*	*11.09*	*3.59*	*16.48*	*1.98*	*0.54*	*99.66*
s.d.	*3.01*	*3.11*	*6.01*	*11.29*	*15.32*	*4.12*	*7.48*	*0.06*	*0.69*	*0.65*

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.17	19.86	3.23	0.01	70.59	0.55	3.04	97.45

PROFILES 35-39

35-1, 35-2:TD upper pale tephra 4/9/2000

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.03	0.96	13.27	5.70	0.08	0.27	3.16	4.20	2.66	97.33
•	66.43	0.52	15.33	6.33	0.11	0.67	3.55	4.11	2.15	99.20
	66.32	0.58	14.98	6.43	0.13	0.62	3.47	2.80	2.17	97.50
	63.78	1.06	13.15	9.50	0.38	0.95	3.78	3.21	2.12	97.93
	63.66	0.74	15.16	7.50	0.14	0.94	3.71	4.50	2.00	98.35
	63.28	0.75	16.10	6.40	0.19	0.58	5.39	4.87	1.62	99.18
	63.22	0.87	15.32	7.66	0.08	0.59	4.50	5.04	1.70	98.98
	63.22	0.76	14.56	8.66	0.22	1.13	4.35	4.02	2.02	98.94
	63.00	1.16	13.33	9.73	0.99	1.00	3.85	4.42	1.97	99.45
	62.29	1.17	13.11	9.86	0.33	1.06	3.93	3.77	2.20	97.72
	62.20	0.99	14.25	9.88	0.28	0.98	4.76	4.39	1.40	99.13
	61.64	1.02	14.33	9.11	0.35	0.86	4.50	4.57	2.03	98.41
	61.61	1.06	13.03	10.59	0.34	1.33	4.31	4.55	1.68	98.50
	61.29	1.09	13.27	10.37	0.33	1.25	4.04	3.64	2.09	97.37
	61.23	1.42	14.43	10.81	0.53	0.45	4.19	4.63	1.61	99.30
	61.21	0.61	14.34	8.33	0.30	1.44	4.95	4.38	1.75	97.31
•	61.12	0.76	17.92	6.16	0.10	0.49	5.55	5.52	1.33	98.95
	60.91	0.99	15.34	8.71	0.20	1.02	5.15	4.33	1.53	98.18
	58.79	0.73	13.14	11.99	0.31	2.84	4.65	4.29	1.10	97.84
mean	*62.54*	*0.93*	*14.39*	*8.74*	*0.29*	*0.99*	*4.35*	*4.29*	*1.83*	*98.35*
s.d.	*1.95*	*0.22*	*1.29*	*1.79*	*0.21*	*0.56*	*0.66*	*0.64*	*0.38*	*0.74*
	56.27	2.38	13.68	11.51	0.25	2.23	6.33	2.93	1.61	97.19
	54.46	2.66	13.64	12.37	0.29	3.33	7.02	3.17	1.22	98.16
mean	*55.37*	*2.52*	*13.66*	*11.94*	*0.27*	*2.78*	*6.68*	*3.05*	*1.42*	*97.68*
s.d.	*1.28*	*0.20*	*0.03*	*0.61*	*0.03*	*0.78*	*0.49*	*0.17*	*0.28*	*0.69*
	48.87	4.00	12.56	13.75	0.18	4.12	8.88	3.29	1.12	96.77
	48.87	4.12	12.54	13.73	0.28	4.41	8.84	3.28	1.00	97.07
	48.34	4.28	12.79	13.76	0.23	4.47	8.86	3.38	0.89	97.00
	48.33	4.17	12.68	14.79	0.23	4.26	9.02	2.34	0.88	96.70
	48.31	4.36	12.43	13.52	0.21	4.45	8.78	3.23	1.01	96.30
	48.22	4.12	12.32	13.45	0.22	4.40	9.05	3.29	1.16	96.23
	47.73	4.37	12.64	13.94	0.22	4.55	9.01	3.26	0.90	96.62
	45.03	5.07	12.23	14.61	0.17	5.19	10.21	2.89	0.69	96.09
mean	*47.96*	*4.31*	*12.52*	*13.94*	*0.22*	*4.48*	*9.08*	*3.12*	*0.96*	*96.60*
s.d.	*1.24*	*0.33*	*0.19*	*0.49*	*0.03*	*0.32*	*0.47*	*0.35*	*0.15*	*0.36*

35-1: TD upper pale tephra 4/9/2000 Total of 38 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	67.03	0.96	13.27	5.70	0.08	0.27	3.16	4.20	2.66	97.33
	66.32	0.58	14.98	6.43	0.13	0.62	3.47	2.80	2.17	97.50
	63.78	1.06	13.15	9.50	0.38	0.95	3.78	3.21	2.12	97.93
	63.66	0.74	15.16	7.50	0.14	0.94	3.71	4.50	2.00	98.35
	63.28	0.75	16.10	6.40	0.19	0.58	5.39	4.87	1.62	99.18
	63.22	0.87	15.32	7.66	0.08	0.59	4.50	5.04	1.70	98.98
	63.22	0.76	14.56	8.66	0.22	1.13	4.35	4.02	2.02	98.94
	63.00	1.16	13.33	9.73	0.99	1.00	3.85	4.42	1.97	99.45
	62.29	1.17	13.11	9.86	0.33	1.06	3.93	3.77	2.20	97.72
	62.20	0.99	14.25	9.88	0.28	0.98	4.76	4.39	1.40	99.13
	61.64	1.02	14.33	9.11	0.35	0.86	4.50	4.57	2.03	98.41
	61.61	1.06	13.03	10.59	0.34	1.33	4.31	4.55	1.68	98.50
	61.29	1.09	13.27	10.37	0.33	1.25	4.04	3.64	2.09	97.37
	61.23	1.42	14.43	10.81	0.53	0.45	4.19	4.63	1.61	99.30
	61.21	0.61	14.34	8.33	0.30	1.44	4.95	4.38	1.75	97.31
•	61.12	0.76	17.92	6.16	0.10	0.49	5.55	5.52	1.33	98.95
	60.91	0.99	15.34	8.71	0.20	1.02	5.15	4.33	1.53	98.18
	58.79	0.73	13.14	11.99	0.31	2.84	4.65	4.29	1.10	97.84
mean	*62.54*	*0.93*	*14.39*	*8.74*	*0.29*	*0.99*	*4.35*	*4.29*	*1.83*	*98.35*
s.d.	*1.95*	*0.22*	*1.29*	*1.79*	*0.21*	*0.56*	*0.66*	*0.64*	*0.38*	*0.74*
(b)	56.27	2.38	13.68	11.51	0.25	2.23	6.33	2.93	1.61	97.19
	54.46	2.66	13.64	12.37	0.29	3.33	7.02	3.17	1.22	98.16
mean	*55.37*	*2.52*	*13.66*	*11.94*	*0.27*	*2.78*	*6.68*	*3.05*	*1.42*	*97.68*
s.d.	*1.28*	*0.20*	*0.03*	*0.61*	*0.03*	*0.78*	*0.49*	*0.17*	*0.28*	*0.69*
(c)	48.87	4.00	12.56	13.75	0.18	4.12	8.88	3.29	1.12	96.77
	48.87	4.12	12.54	13.73	0.28	4.41	8.84	3.28	1.00	97.07
	48.34	4.28	12.79	13.76	0.23	4.47	8.86	3.38	0.89	97.00
	48.33	4.17	12.68	14.79	0.23	4.26	9.02	2.34	0.88	96.70
	48.31	4.36	12.43	13.52	0.21	4.45	8.78	3.23	1.01	96.30
	48.22	4.12	12.32	13.45	0.22	4.40	9.05	3.29	1.16	96.23
	47.73	4.37	12.64	13.94	0.22	4.55	9.01	3.26	0.90	96.62
	45.03	5.07	12.23	14.61	0.17	5.19	10.21	2.89	0.69	96.09
mean	*47.96*	*4.31*	*12.52*	*13.94*	*0.22*	*4.48*	*9.08*	*3.12*	*0.96*	*96.60*
s.d.	*1.24*	*0.33*	*0.19*	*0.49*	*0.03*	*0.32*	*0.47*	*0.35*	*0.15*	*0.36*

35-3: TE Lower pale tephra, North Markarfljót Total of 17 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	68.19	1.21	14.09	4.74	0.08	0.85	2.34	4.53	3.07	99.10
	68.15	0.94	13.87	4.47	0.06	0.67	2.05	4.90	3.09	98.20
	66.77	1.19	13.91	5.06	0.07	0.88	2.36	4.58	2.88	97.70
	66.59	1.28	13.88	5.18	0.08	1.02	2.75	4.22	2.95	97.95
	66.44	1.17	13.95	5.55	0.10	1.09	2.65	4.04	2.90	97.89
	66.41	1.22	13.97	5.49	0.18	1.03	2.72	4.55	2.90	98.47
	66.21	1.20	13.97	5.14	0.10	0.96	2.60	4.44	2.97	97.59
	65.96	1.13	13.69	5.35	0.07	0.99	2.84	4.71	2.78	97.52
	65.73	1.27	13.73	5.42	0.01	1.15	2.80	4.14	2.89	97.14
	65.70	1.32	13.87	5.43	0.04	1.14	2.89	4.66	2.95	98.00
	65.46	1.21	13.66	5.59	0.09	1.12	2.91	3.46	2.88	96.38
	65.26	1.11	13.76	5.69	0.12	1.07	2.91	4.56	2.73	97.21
	65.06	1.22	13.82	5.80	0.04	1.11	2.93	4.60	2.77	97.35
mean	*66.15*	*1.19*	*13.84*	*5.35*	*0.08*	*1.02*	*2.70*	*4.41*	*2.89*	*97.62*
s.d.	*0.98*	*0.09*	*0.12*	*0.38*	*0.04*	*0.14*	*0.27*	*0.37*	*0.11*	*0.67*

PX

	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
	51.81	0.42	0.66	0	22.06	1.13	21.34	1.99	0.03	99.44
	51.16	0.61	1.19	0	12.71	0.73	14.31	18.43	0.35	99.49
mean	*51.49*	*0.52*	*0.93*	*0.00*	*17.39*	*0.93*	*17.83*	*10.21*	*0.19*	*99.47*
s.d.	*0.46*	*0.13*	*0.37*	*0.00*	*6.61*	*0.28*	*4.97*	*11.62*	*0.23*	*0.04*

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.25	19.06	2.18	0.01	72.16	0.8	2.75	97.21

35-5: 5/9/2000-1G Layer L Total of 26 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	68.07	0.92	13.73	4.32	0.17	0.77	2.09	4.66	3.15	97.88
	63.91	1.49	13.56	6.25	0.20	1.45	3.41	4.21	2.56	97.04
	63.63	1.55	13.82	6.07	0.15	1.29	3.29	4.30	2.64	96.74
	62.86	1.37	13.59	6.36	0.16	1.49	3.55	4.51	2.50	96.39
	62.84	1.43	13.61	5.98	0.09	1.40	3.53	4.30	2.56	95.74
	61.19	1.74	13.57	7.07	0.12	1.75	4.16	4.21	2.37	96.18
mean	*63.75*	*1.42*	*13.65*	*6.01*	*0.15*	*1.36*	*3.34*	*4.37*	*2.63*	*96.66*
s.d.	*2.32*	*0.27*	*0.10*	*0.91*	*0.04*	*0.33*	*0.68*	*0.18*	*0.27*	*0.75*
(b)	46.89	4.27	12.52	14.36	0.21	4.68	9.26	3.09	0.79	96.07
	46.21	4.34	12.43	14.58	0.22	4.91	9.37	3.16	0.79	96.01
	46.16	4.38	12.42	14.56	0.22	4.88	9.22	3.07	0.73	95.64
	46.07	4.18	12.25	14.52	0.22	4.95	9.24	3.15	0.69	95.27
	46.04	4.27	12.43	14.39	0.26	4.82	9.58	3.08	0.72	95.59
	45.97	4.28	12.38	14.22	0.25	4.86	9.56	2.96	0.71	95.19
	45.96	4.32	12.34	14.30	0.23	4.88	9.51	3.14	0.77	95.45
	45.90	4.29	12.49	14.46	0.23	4.94	9.65	3.14	0.71	95.81
	45.80	4.31	12.28	14.50	0.27	4.93	9.49	2.92	0.73	95.23
	45.70	4.42	12.43	14.73	0.23	4.94	9.38	3.05	0.78	95.66
	45.66	4.32	12.49	14.27	0.23	4.88	9.57	2.99	0.75	95.16
	45.64	4.42	12.55	14.13	0.23	4.93	9.50	3.07	0.75	95.22
	45.57	4.36	12.22	14.51	0.23	4.90	9.66	3.09	0.72	95.26
mean	*45.97*	*4.32*	*12.40*	*14.43*	*0.23*	*4.88*	*9.46*	*3.07*	*0.74*	*95.50*
s.d.	*0.34*	*0.07*	*0.10*	*0.17*	*0.02*	*0.07*	*0.15*	*0.07*	*0.03*	*0.32*

36-1: 6/9/2000 BLACK TEPHRA Total of 20 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.58	4.31	12.39	14.25	0.24	4.42	9.01	3.31	0.84	96.35
	47.50	4.38	12.72	14.48	0.22	4.55	9.25	3.16	0.88	97.14
	47.15	4.53	12.49	14.64	0.20	4.73	9.48	3.26	0.83	97.31
	47.11	4.69	12.52	14.77	0.21	4.73	9.59	3.09	0.84	97.55
	46.81	4.71	12.65	14.87	0.25	4.87	9.55	3.12	0.77	97.60
	46.78	4.67	12.39	14.50	0.20	4.93	9.54	2.99	0.80	96.80
	46.72	4.63	12.50	14.48	0.18	4.85	9.68	3.01	0.75	96.80
	46.66	4.64	12.55	14.31	0.20	4.88	9.34	3.22	0.95	96.75
	46.60	4.64	12.41	14.38	0.23	4.87	9.29	3.00	0.78	96.20
	46.50	4.56	12.57	14.51	0.19	4.85	9.45	3.06	0.85	96.54
	46.42	4.58	12.45	14.61	0.19	4.79	9.43	3.08	0.86	96.41
	46.34	4.28	12.43	14.63	0.19	4.91	9.92	2.99	0.76	96.45
	46.12	4.64	12.48	14.06	0.18	5.18	10.06	2.92	0.74	96.38
	45.99	4.76	12.52	14.76	0.21	5.13	9.79	2.91	0.68	96.75
mean	*46.73*	*4.57*	*12.51*	*14.52*	*0.21*	*4.84*	*9.53*	*3.08*	*0.81*	*96.79*
s.d.	*0.47*	*0.15*	*0.10*	*0.22*	*0.02*	*0.20*	*0.28*	*0.12*	*0.07*	*0.45*

PX

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
51.26	0.7	1.33	0	13.38	0.75	14.1	17.81	0.31	99.64

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.21	18.88	3.73	0.03	67.64	0.37	4.89	95.75

PROFILES 40-44

40-1: *T20 Layer Un. N. Markarfljót Total of 25 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.14	1.41	13.94	5.96	0.10	1.28	3.19	4.53	3.11	99.66
	65.91	1.42	14.00	6.16	0.12	1.33	3.37	3.36	2.69	98.36
	65.79	1.31	13.95	5.88	0.03	1.24	3.45	5.67	2.12	99.44
	65.33	1.32	13.85	6.27	0.12	1.34	3.47	4.27	2.66	98.63
	65.05	1.38	13.97	6.33	0.15	1.38	3.24	4.47	2.82	98.79
	65.05	1.38	14.11	6.05	0.08	1.32	3.29	4.01	2.67	97.96
	64.64	1.36	13.76	6.41	0.19	1.33	3.36	4.40	2.66	98.11
	64.64	1.42	13.89	6.04	0.07	1.29	3.33	4.47	2.60	97.75
	64.61	1.43	13.74	6.00	0.11	1.28	3.35	3.79	3.20	97.51
	64.57	1.29	13.82	5.85	0.07	1.33	3.33	4.52	2.56	97.34
	64.47	1.30	13.63	6.22	0.17	1.28	3.35	3.83	2.41	96.66
	64.39	1.31	13.72	6.11	0.12	1.37	3.63	4.64	2.81	98.10
	64.11	1.33	13.69	5.63	0.12	1.24	3.23	3.99	2.78	96.12
	64.09	1.27	13.50	5.81	0.08	1.39	3.26	4.38	2.55	96.33
	63.99	1.40	13.80	6.04	0.08	1.35	3.29	4.29	2.61	96.85
mean	*64.85*	*1.36*	*13.82*	*6.05*	*0.11*	*1.32*	*3.34*	*4.31*	*2.68*	*97.84*
s.d.	*0.68*	*0.05*	*0.16*	*0.21*	*0.04*	*0.05*	*0.11*	*0.51*	*0.26*	*1.06*
	48.17	4.73	10.98	17.48	0.25	3.57	8.54	2.67	1.31	97.70
	48.14	4.67	13.31	13.19	0.18	4.61	10.01	3.07	0.83	98.01
	47.91	4.60	12.75	14.79	0.25	4.50	10.00	3.03	0.72	98.55
	47.15	5.35	11.64	16.48	0.26	4.55	9.65	2.88	0.97	98.93
	46.55	4.91	12.13	14.84	0.92	4.74	9.61	2.99	0.82	97.51
	46.30	4.73	11.98	15.20	0.20	4.79	9.71	3.13	0.80	96.84
mean	*47.37*	*4.83*	*12.13*	*15.33*	*0.34*	*4.46*	*9.59*	*2.96*	*0.91*	*97.92*
s.d.	*0.82*	*0.27*	*0.82*	*1.49*	*0.28*	*0.45*	*0.54*	*0.17*	*0.21*	*0.75*

40-2: T25 Layer St. North Markarfljót Total of 30 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	64.78	0.87	15.54	5.27	0.08	0.94	4.54	4.72	1.41	98.15
	64.42	0.86	14.99	6.39	0.04	1.15	4.08	4.33	1.69	97.95
	64.18	0.86	15.23	6.56	0.10	1.10	4.00	4.18	1.96	98.17
	63.36	0.82	15.52	7.65	0.05	1.31	4.46	4.27	1.63	99.07
	63.15	0.81	15.17	6.70	0.11	1.24	4.01	4.27	1.92	97.38
	62.92	0.90	15.07	6.96	0.11	1.34	4.61	4.17	1.51	97.59
	62.81	0.88	15.86	6.51	0.10	1.26	4.66	4.43	1.56	98.07
	62.79	1.52	15.24	6.62	0.07	1.42	4.51	4.38	1.55	98.10
•	62.73	0.84	18.02	4.49	0.00	0.74	5.64	5.34	1.03	98.83
•	62.65	0.85	17.24	5.62	0.06	1.03	5.45	5.37	1.16	99.43
	62.43	0.90	15.29	6.50	0.15	1.30	4.63	4.16	1.67	97.03
	61.96	0.97	15.08	7.36	0.63	1.48	4.27	3.98	1.51	97.24
	61.78	0.81	15.78	6.23	0.11	1.15	4.24	4.47	1.64	96.21
mean	*63.07*	*0.91*	*15.69*	*6.37*	*0.12*	*1.19*	*4.55*	*4.47*	*1.56*	*97.94*
s.d.	*0.91*	*0.19*	*0.91*	*0.84*	*0.16*	*0.20*	*0.50*	*0.43*	*0.26*	*0.87*

40-3: 8/9/2000-1 Layer U, PROFILE 40 Total of 19 analyses (analyses >95.5)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(b)	49.11	4.00	12.63	13.63	0.23	4.24	8.50	3.27	1.02	96.63
	46.53	4.46	12.18	14.83	0.18	4.80	9.33	3.12	0.81	96.24
	46.52	4.49	12.07	14.61	0.27	4.45	9.50	3.11	0.89	95.91
	46.41	4.55	12.05	14.76	0.21	4.76	9.51	3.11	0.74	96.10
	46.28	4.34	12.31	14.81	0.23	5.02	9.68	2.97	0.76	96.40
	46.13	4.50	12.32	14.38	0.24	4.94	9.72	3.06	0.74	96.03
	46.08	4.41	12.32	14.62	0.26	4.76	9.72	3.05	0.76	95.98
	46.02	4.47	12.14	14.33	0.22	4.92	9.72	3.01	0.70	95.53
	45.99	4.37	11.29	13.73	0.21	6.51	10.84	2.56	0.69	96.19
	45.98	4.51	12.45	14.23	0.22	5.05	9.55	3.09	0.74	95.82
	45.90	4.38	12.27	14.58	0.24	4.94	9.78	2.99	0.73	95.81
	45.81	4.34	12.17	14.62	0.26	5.05	9.84	2.98	0.77	95.84
	45.67	4.46	12.30	14.63	0.23	5.07	9.53	3.05	0.73	95.67
mean	*46.34*	*4.41*	*12.19*	*14.44*	*0.23*	*4.96*	*9.63*	*3.03*	*0.78*	*96.01*
s.d.	*0.87*	*0.14*	*0.31*	*0.38*	*0.02*	*0.53*	*0.50*	*0.16*	*0.09*	*0.30*

41-1: T24 LOWER PALE TEPHRA

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.59	0.82	13.64	4.28	0.14	0.60	1.76	4.80	3.50	99.13
	66.73	1.14	13.97	5.12	0.14	1.02	2.60	4.55	3.09	98.36
	66.65	1.23	13.96	5.42	0.20	1.09	2.93	4.39	2.90	98.77
	66.55	1.12	13.99	5.53	0.13	1.08	2.87	4.23	2.84	98.34
	66.54	1.17	13.86	5.52	0.27	1.14	2.95	4.38	2.87	98.70
	66.37	1.07	13.85	5.25	0.14	1.10	2.85	4.77	2.86	98.26
	66.13	1.12	13.80	5.36	0.18	1.04	2.94	4.92	2.78	98.27
	66.13	1.11	13.77	5.35	0.17	1.06	2.85	4.43	2.96	97.83
	66.10	1.17	13.78	5.42	0.20	1.05	2.84	4.55	2.86	97.97
	65.90	1.15	13.93	5.79	0.28	1.14	3.13	4.45	2.82	98.59
	65.88	1.18	13.79	5.56	0.21	1.08	3.18	4.49	2.76	98.13
	65.84	1.27	13.83	5.27	0.17	1.08	3.05	3.92	2.79	97.22
	65.45	1.24	13.72	5.35	0.16	1.08	2.76	4.52	2.85	97.13
	65.39	1.11	13.71	5.19	0.18	1.11	2.79	4.39	2.91	96.78
	65.34	1.09	13.68	5.12	0.16	0.97	2.97	4.49	2.93	96.75
mean	*66.31*	*1.13*	*13.82*	*5.30*	*0.18*	*1.04*	*2.83*	*4.49*	*2.91*	*98.02*
s.d.	0.47	0.06	0.10	0.19	0.04	0.05	0.15	0.23	0.08	0.69

41-2: T21 UPPER PALE TEPHRA Total of 20 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	65.47	0.95	12.69	8.55	0.20	0.61	3.12	4.36	2.26	98.21
	65.26	0.69	15.25	6.27	0.25	0.40	4.43	4.97	1.80	99.32
	65.26	0.63	15.42	6.11	0.32	0.63	3.41	4.70	2.25	98.73
	64.29	0.59	13.32	8.15	0.36	0.95	4.70	4.85	1.56	98.77
	63.88	0.67	14.43	8.16	0.26	0.91	3.85	4.39	2.14	98.69
	63.66	0.82	14.85	7.55	0.23	0.89	3.89	5.00	1.81	98.70
	62.84	0.99	14.95	7.80	0.23	0.48	4.43	5.04	1.85	98.61
	62.72	0.93	13.11	9.57	0.28	0.85	4.29	4.61	2.09	98.45
	61.57	1.01	14.61	9.33	0.31	1.09	4.87	3.99	2.07	98.85
	61.37	0.81	13.29	10.23	0.36	1.83	4.62	4.15	1.99	98.65
	61.18	0.69	16.67	7.04	0.25	0.92	5.08	5.26	1.57	98.66
	61.10	1.02	14.46	9.21	0.25	1.24	4.86	4.26	1.86	98.26
mean	*63.22*	*0.82*	*14.42*	*8.16*	*0.28*	*0.90*	*4.30*	*4.63*	*1.94*	*98.66*
s.d.	*1.66*	*0.16*	*1.15*	*1.29*	*0.05*	*0.38*	*0.61*	*0.40*	*0.24*	*0.29*

41-3 8/9/2000-2 Layer M Total of 15 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(b)	46.11	4.28	12.42	14.32	0.22	5.11	9.85	2.91	0.68	95.90
	46.01	4.32	12.55	14.50	0.24	5.19	9.70	3.06	0.70	96.27
	45.92	4.29	12.53	14.28	0.25	5.07	10.08	3.04	0.76	96.22
	45.87	4.34	12.44	14.56	0.26	5.31	9.96	2.95	0.70	96.39
	45.87	4.19	12.49	14.33	0.21	5.20	9.71	3.01	0.73	95.74
	45.87	4.32	12.47	14.66	0.20	5.16	9.93	3.01	0.69	96.31
	45.83	4.41	12.40	14.35	0.25	5.18	9.86	2.95	0.65	95.88
	45.82	4.13	12.34	14.50	0.16	5.23	9.68	2.99	0.72	95.57
	45.76	4.49	12.37	14.51	0.21	5.16	10.09	3.01	0.69	96.29
	45.66	4.25	12.40	14.61	0.22	5.16	9.94	3.02	0.69	95.95
	45.65	4.25	12.29	14.65	0.21	5.02	9.79	2.99	0.72	95.57
	45.63	4.38	12.49	14.56	0.22	5.19	9.94	2.91	0.64	95.96
	45.61	4.26	12.49	14.37	0.23	5.10	9.67	3.12	0.70	95.55
mean	*45.82*	*4.30*	*12.44*	*14.48*	*0.22*	*5.16*	*9.86*	*3.00*	*0.70*	*95.97*
s.d.	*0.15*	*0.09*	*0.08*	*0.13*	*0.03*	*0.07*	*0.14*	*0.06*	*0.03*	*0.30*

42-2: 8/9/2000-3 'beetle' layer, Unit L Total of 20 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	64.70	1.49	13.50	6.62	0.24	1.37	3.62	4.43	2.47	98.44
	63.88	1.55	13.52	6.14	0.12	1.42	3.76	4.50	2.73	97.62
	63.48	1.64	13.42	6.56	0.23	1.59	3.93	4.48	2.58	97.89
mean	*64.02*	*1.56*	*13.48*	*6.44*	*0.19*	*1.46*	*3.77*	*4.47*	*2.60*	*97.99*
s.d.	*0.62*	*0.07*	*0.05*	*0.26*	*0.07*	*0.11*	*0.16*	*0.04*	*0.13*	*0.42*
(b)	48.76	3.70	12.62	12.77	0.19	4.30	8.34	3.42	1.04	95.13
	46.72	4.33	12.26	14.18	0.23	4.95	9.53	3.17	0.75	96.12
	46.67	4.26	12.24	14.32	0.21	4.88	9.53	3.06	0.77	95.94
	46.66	4.37	12.39	14.04	0.23	4.87	9.33	3.24	0.76	95.90
	46.53	4.38	12.31	14.56	0.23	5.03	9.54	3.14	0.84	96.56
	46.53	4.29	12.25	14.54	0.23	5.01	9.34	3.10	0.77	96.07
	46.52	4.28	12.34	14.69	0.24	4.97	9.42	3.06	0.75	96.28
	46.33	4.35	12.22	14.49	0.24	4.99	9.51	3.07	0.73	95.93
	46.24	4.30	12.47	14.47	0.25	4.98	9.46	3.07	0.73	95.96
	46.21	4.31	12.32	14.13	0.26	4.92	9.55	3.13	0.79	95.63
	46.11	4.48	12.27	14.43	0.21	4.97	9.48	3.10	0.69	95.74
	46.07	4.31	12.37	14.62	0.22	4.97	9.53	3.19	0.81	96.10
	45.94	4.25	12.22	14.97	0.23	4.90	9.81	3.09	0.88	96.28
	45.93	4.38	12.16	14.40	0.20	4.96	9.59	3.13	0.72	95.47
mean	*46.52*	*4.29*	*12.32*	*14.33*	*0.23*	*4.91*	*9.43*	*3.14*	*0.79*	*95.94*
s.d.	*0.70*	*0.18*	*0.12*	*0.51*	*0.02*	*0.18*	*0.33*	*0.10*	*0.09*	*0.36*

44-1: T28 Layer Un

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.78	1.32	14.16	5.06	0.08	1.12	2.84	4.26	2.83	98.45
	65.73	1.26	13.70	5.46	0.12	0.99	2.84	4.93	2.82	97.85
	64.97	1.31	14.02	5.87	0.13	1.28	3.34	4.22	2.65	97.79
	64.94	1.37	13.91	6.49	0.15	1.44	3.44	4.31	2.60	98.65
	64.83	1.34	13.56	5.67	0.02	1.20	3.08	3.83	2.59	96.12
	64.82	1.36	13.85	5.80	0.12	1.30	3.60	4.08	2.54	97.47
	64.76	1.42	14.08	5.73	0.11	1.25	3.40	4.32	2.55	97.62
	64.65	1.58	14.07	6.08	0.09	1.27	3.37	4.58	2.46	98.15
	64.63	1.38	13.70	6.09	0.12	1.30	3.45	4.50	2.60	97.77
	64.59	1.32	13.98	5.79	0.14	1.31	3.56	4.45	2.66	97.80
	64.46	1.42	13.85	6.16	0.10	1.30	3.33	4.46	2.53	97.61
	64.38	1.32	13.72	5.89	0.16	1.26	3.39	4.46	2.55	97.13
	64.34	1.29	13.52	5.91	0.16	1.27	3.36	4.71	2.57	97.13
mean	*64.91*	*1.36*	*13.86*	*5.85*	*0.12*	*1.25*	*3.31*	*4.39*	*2.61*	*97.66*
s.d.	*0.66*	*0.08*	*0.20*	*0.35*	*0.04*	*0.11*	*0.24*	*0.28*	*0.11*	*0.64*
	46.68	4.57	12.55	14.34	0.19	4.91	9.68	3.10	0.83	96.85
	46.65	5.06	11.73	15.64	0.24	4.57	9.66	3.11	0.87	97.53
	46.47	4.66	12.59	14.87	0.20	4.64	9.54	3.16	0.72	96.85
mean	*46.60*	*4.76*	*12.29*	*14.95*	*0.21*	*4.71*	*9.63*	*3.12*	*0.81*	*97.08*
s.d.	*0.11*	*0.26*	*0.49*	*0.65*	*0.03*	*0.18*	*0.08*	*0.03*	*0.08*	*0.39*

44-2: T29 Layer St Total of 26 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.91	1.36	13.62	5.89	0.14	1.16	3.14	4.40	2.92	98.54
	64.51	1.43	13.56	6.17	0.12	1.29	3.42	3.90	2.66	97.06
	64.05	0.83	15.25	6.51	0.04	1.21	4.47	4.13	1.69	98.18
	64.02	0.96	15.23	6.66	0.08	1.36	4.38	4.26	1.51	98.46
	63.75	0.81	15.31	7.24	0.10	1.33	4.47	4.30	1.48	98.79
	63.58	0.94	15.56	7.08	0.05	1.43	4.37	4.31	1.53	98.85
	63.56	0.93	15.27	6.72	0.11	1.28	4.22	4.33	1.68	98.10
	63.53	0.83	14.95	6.58	0.08	1.55	4.26	4.18	1.52	97.48
	63.52	0.85	15.23	7.14	0.08	1.35	4.66	4.41	1.57	98.81
	63.42	0.84	15.15	6.52	0.06	1.20	4.21	4.17	1.64	97.21
	63.33	0.86	15.31	7.04	0.11	1.26	4.63	4.11	1.44	98.09
	63.29	0.80	15.04	6.47	0.05	1.25	4.34	4.28	1.58	97.10
mean	*63.87*	*0.95*	*14.96*	*6.67*	*0.09*	*1.31*	*4.21*	*4.23*	*1.77*	*98.06*
s.d.	*0.73*	*0.21*	*0.66*	*0.41*	*0.03*	*0.11*	*0.46*	*0.14*	*0.49*	*0.68*
•	48.85	4.11	16.67	11.75	0.10	3.03	9.93	3.03	0.59	98.06
	47.66	4.24	12.21	14.59	0.19	4.31	8.71	3.31	0.94	96.16
	47.54	4.36	12.50	14.38	0.18	4.67	9.31	3.14	0.90	96.98
	47.47	4.35	12.28	13.70	0.17	4.68	9.22	3.27	0.76	95.90
	46.74	4.86	12.15	15.14	0.21	4.87	9.93	3.08	0.75	97.73
	46.69	4.48	12.51	14.83	0.25	5.06	9.93	3.13	0.76	97.64
	46.20	4.48	12.57	14.59	0.18	5.04	10.00	3.10	0.74	96.90
mean	*47.05*	*4.46*	*12.37*	*14.54*	*0.20*	*4.77*	*9.52*	*3.17*	*0.81*	*96.89*
s.d.	*0.59*	*0.22*	*0.18*	*0.49*	*0.03*	*0.28*	*0.52*	*0.09*	*0.09*	*0.75*

PX

	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
	51.17	0.51	1.75	0.01	13.14	0.49	13.08	19.29	0.28	99.72
	51.27	0.54	1.64	0.01	12.97	0.48	13.17	19.6	0.27	99.95
mean	*51.22*	*0.53*	*1.70*	*0.01*	*13.06*	*0.49*	*13.13*	*19.45*	*0.28*	*99.84*
s.d.	*0.07*	*0.02*	*0.08*	*0.00*	*0.12*	*0.01*	*0.06*	*0.22*	*0.01*	*0.16*

PL

SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
53.49	0.02	28.53	0.5	0.07	12	4.75	0.09	99.45

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.17	19.61	2.78	0.03	71.81	0.59	2.01	97

44-3: 9/9/2000-2 LOWER PUMICE Layer M Total of 19 analyses (kept analyses total >95)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(b)	45.80	4.32	12.19	14.71	0.23	5.26	10.09	3.10	0.70	96.40
	45.76	4.31	12.49	14.52	0.21	5.21	9.83	2.83	0.68	95.84
	45.73	4.55	12.24	14.65	0.20	5.22	10.03	2.96	0.72	96.30
	45.67	4.31	12.51	14.40	0.30	5.20	10.22	2.91	0.65	96.17
	45.64	4.27	12.43	14.26	0.20	5.28	9.91	2.91	0.66	95.56
	45.59	4.16	12.38	14.44	0.20	5.20	10.05	2.95	0.63	95.60
	45.49	4.31	12.50	14.72	0.23	5.30	9.85	2.90	0.72	96.02
	45.45	4.30	12.40	14.52	0.16	5.29	9.91	2.98	0.70	95.71
	45.41	4.13	12.43	14.40	0.18	5.22	10.04	2.88	0.63	95.32
	45.37	4.28	12.37	14.50	0.20	5.25	10.00	2.84	0.70	95.51
	45.33	4.17	12.28	14.59	0.23	5.14	10.00	2.91	0.68	95.33
	45.29	4.40	12.40	14.60	0.19	5.18	9.85	2.96	0.70	95.57
	45.27	4.36	12.27	14.25	0.22	5.21	9.89	2.93	0.74	95.14
	45.23	4.21	12.33	14.42	0.22	5.25	9.82	2.96	0.70	95.14
	45.04	4.38	12.47	14.44	0.28	5.25	9.87	2.84	0.73	95.30
mean	*45.47*	*4.30*	*12.38*	*14.49*	*0.22*	*5.23*	*9.96*	*2.92*	*0.69*	*95.66*
s.d.	*0.22*	*0.11*	*0.10*	*0.14*	*0.04*	*0.04*	*0.12*	*0.07*	*0.03*	*0.41*

44-4: PU2 9/92000-2 Layer M Total of 16 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.78	4.40	12.78	14.72	0.24	4.91	10.06	3.06	0.65	97.59
•	46.29	4.42	12.29	15.02	0.20	4.95	9.76	3.03	0.70	96.66
	46.15	4.41	12.47	14.54	0.22	5.11	9.93	3.16	0.66	96.66
	46.14	4.37	12.34	14.56	0.23	5.13	9.82	3.00	0.66	96.25
	46.13	4.32	12.81	14.63	0.20	5.09	10.03	3.04	0.66	96.90
	46.08	4.38	12.49	14.62	0.21	5.26	9.95	3.04	0.63	96.66
	46.07	4.38	12.57	14.81	0.24	5.28	9.99	3.11	0.70	97.14
	46.06	4.26	12.29	14.49	0.19	5.22	9.76	3.07	0.66	96.00
	46.05	4.29	12.36	14.59	0.20	5.14	9.93	3.08	0.67	96.30
	46.05	4.28	12.51	14.70	0.23	5.15	9.95	3.08	0.69	96.64
	46.03	4.41	12.37	14.79	0.26	5.18	9.84	3.04	0.67	96.60
	46.02	4.30	12.38	14.75	0.26	5.09	9.91	3.05	0.78	96.54
	46.00	4.38	12.53	14.90	0.31	5.30	9.96	3.03	0.70	97.11
	45.95	4.39	12.53	14.69	0.24	5.19	9.76	3.07	0.70	96.52
	45.91	4.28	12.58	14.55	0.23	5.28	10.12	2.98	0.70	96.63
	45.80	4.52	12.15	14.96	0.23	5.12	9.87	3.06	0.73	96.45
mean	*46.08*	*4.36*	*12.48*	*14.69*	*0.23*	*5.16*	*9.93*	*3.06*	*0.68*	*96.67*
s.d.	*0.21*	*0.07*	*0.17*	*0.14*	*0.03*	*0.10*	*0.10*	*0.04*	*0.04*	*0.39*

44-5: PUMICE UNIT 2 TRANSECT 1

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	45.84	4.38	12.45	14.60	0.23	5.27	9.89	3.04	0.66	96.36
	46.07	4.33	12.63	14.49	0.24	5.14	9.93	3.01	0.66	96.50
	46.07	4.48	12.53	14.71	0.19	5.22	9.96	3.02	0.63	96.81
	45.87	4.26	12.46	14.75	0.24	5.16	10.02	3.12	0.74	96.62
	46.04	4.37	12.53	14.71	0.27	5.20	9.98	3.14	0.66	96.90
	45.75	4.40	12.30	14.74	0.21	5.24	9.95	3.02	0.67	96.28
	46.01	4.24	12.46	14.71	0.19	5.16	10.06	3.05	0.68	96.56
	45.97	4.32	12.48	14.53	0.24	5.17	10.01	3.06	0.70	96.48
	46.00	4.28	12.47	14.64	0.20	5.14	9.83	3.05	0.68	96.29
	46.10	4.24	12.34	14.46	0.22	5.17	9.91	3.08	0.69	96.21
•	2.24	0.13	0.72	0.40	0.00	0.07	0.19	0.08	0.00	3.83
mean	*45.97*	*4.33*	*12.47*	*14.63*	*0.22*	*5.19*	*9.95*	*3.06*	*0.68*	*96.50*
s.d.	*0.12*	*0.08*	*0.09*	*0.11*	*0.03*	*0.04*	*0.07*	*0.04*	*0.03*	*0.23*

44-4:, 44-5: PU2 9/92000-2 Layer M including transect Total of 16 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(b)	46.78	4.40	12.78	14.72	0.24	4.91	10.06	3.06	0.65	97.59
	46.15	4.41	12.47	14.54	0.22	5.11	9.93	3.16	0.66	96.66
	46.14	4.37	12.34	14.56	0.23	5.13	9.82	3.00	0.66	96.25
	46.13	4.32	12.81	14.63	0.20	5.09	10.03	3.04	0.66	96.90
	46.10	4.24	12.34	14.46	0.22	5.17	9.91	3.08	0.69	96.21
	46.08	4.38	12.49	14.62	0.21	5.26	9.95	3.04	0.63	96.66
	46.07	4.33	12.63	14.49	0.24	5.14	9.93	3.01	0.66	96.50
	46.07	4.48	12.53	14.71	0.19	5.22	9.96	3.02	0.63	96.81
	46.07	4.38	12.57	14.81	0.24	5.28	9.99	3.11	0.70	97.14
	46.06	4.26	12.29	14.49	0.19	5.22	9.76	3.07	0.66	96.00
	46.05	4.29	12.36	14.59	0.20	5.14	9.93	3.08	0.67	96.30
	46.05	4.28	12.51	14.70	0.23	5.15	9.95	3.08	0.69	96.64
	46.04	4.37	12.53	14.71	0.27	5.20	9.98	3.14	0.66	96.90
	46.03	4.41	12.37	14.79	0.26	5.18	9.84	3.04	0.67	96.60
	46.02	4.30	12.38	14.75	0.26	5.09	9.91	3.05	0.78	96.54
	46.01	4.24	12.46	14.71	0.19	5.16	10.06	3.05	0.68	96.56
	46.00	4.38	12.53	14.90	0.31	5.30	9.96	3.03	0.70	97.11
	46.00	4.28	12.47	14.64	0.20	5.14	9.83	3.05	0.68	96.29
	45.97	4.32	12.48	14.53	0.24	5.17	10.01	3.06	0.70	96.48
	45.95	4.39	12.53	14.69	0.24	5.19	9.76	3.07	0.70	96.52
	45.91	4.28	12.58	14.55	0.23	5.28	10.12	2.98	0.70	96.63
	45.87	4.26	12.46	14.75	0.24	5.16	10.02	3.12	0.74	96.62
	45.84	4.38	12.45	14.60	0.23	5.27	9.89	3.04	0.66	96.36
	45.80	4.52	12.15	14.96	0.23	5.12	9.87	3.06	0.73	96.45
	45.75	4.40	12.30	14.74	0.21	5.24	9.95	3.02	0.67	96.28
mean	*46.04*	*4.35*	*12.47*	*14.67*	*0.23*	*5.17*	*9.94*	*3.06*	*0.68*	*96.60*
s.d.	*0.19*	*0.07*	*0.14*	*0.13*	*0.03*	*0.08*	*0.09*	*0.04*	*0.03*	*0.34*

PROFILES 50-59

59-1: Fljótsdalur reference profile T31, H-S?

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.59	0.30	14.51	4.65	0.22	0.31	2.69	4.44	2.48	99.20
	66.76	0.46	14.86	5.85	0.25	0.61	3.26	4.09	2.14	98.28
	66.45	0.45	15.12	5.71	0.20	0.58	3.37	4.31	2.23	98.42
	65.65	0.52	15.04	6.36	0.23	0.60	3.15	4.13	1.96	97.65
	65.47	0.52	14.80	6.26	0.22	0.60	3.36	4.16	1.93	97.34
	65.26	0.66	14.83	7.03	0.24	0.74	3.84	4.25	1.89	98.74
	64.93	0.56	15.04	6.03	0.23	0.66	3.47	5.06	2.21	98.18
	64.15	0.40	14.49	5.96	0.17	0.61	3.27	4.00	1.98	95.04
	63.74	1.04	13.56	8.23	0.24	0.62	3.97	4.59	1.79	97.79
	63.25	0.83	13.99	9.01	0.24	1.02	4.11	4.58	1.59	98.61
	62.17	1.18	14.43	9.68	0.23	0.69	4.43	4.82	2.11	99.74
	62.15	1.16	13.40	10.12	0.30	0.98	4.05	4.52	1.94	98.62
mean	*64.96*	*0.68*	*14.51*	*7.07*	*0.23*	*0.67*	*3.58*	*4.41*	*2.02*	*98.13*
s.d.	*2.10*	*0.30*	*0.58*	*1.75*	*0.03*	*0.18*	*0.50*	*0.32*	*0.23*	*1.17*

59-2: Fljótsdalur reference profile T33

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.58	1.24	14.09	5.66	0.18	1.06	2.98	4.57	2.80	99.16
	66.50	1.09	13.98	5.21	0.18	0.97	2.52	4.50	2.80	97.75
	66.16	1.34	14.04	5.25	0.11	1.07	2.61	4.42	2.88	97.88
	66.14	1.20	13.78	5.65	0.23	1.04	2.81	4.20	2.85	97.91
	65.86	1.28	14.09	5.67	0.21	1.08	2.96	4.12	3.00	98.26
	65.80	1.16	13.88	5.37	0.18	1.04	2.83	4.44	2.72	97.42
	65.75	1.07	13.65	5.15	0.22	0.92	2.61	4.56	2.81	96.73
	65.73	1.10	13.79	5.38	0.22	1.16	2.92	4.18	2.76	97.24
	65.68	1.29	13.95	5.59	0.25	1.07	3.17	4.05	2.68	97.73
	65.65	1.37	13.87	5.33	0.18	1.03	2.81	4.32	2.79	97.36
	65.50	1.28	13.80	5.69	0.22	1.19	2.98	4.37	2.68	97.72
	65.06	1.20	13.79	5.53	0.26	1.06	2.99	4.02	2.78	96.70
mean	*65.87*	*1.22*	*13.89*	*5.46*	*0.20*	*1.06*	*2.85*	*4.31*	*2.80*	*97.65*
s.d.	*0.42*	*0.10*	*0.14*	*0.20*	*0.04*	*0.07*	*0.19*	*0.19*	*0.09*	*0.66*

59-3: Fljótsdalur reference profile T60

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.64	1.37	14.27	6.02	0.15	1.26	3.50	3.35	2.57	98.14
	64.91	1.34	14.11	5.76	0.17	1.28	3.48	4.50	2.87	98.43
	64.68	1.17	14.04	5.91	0.16	1.36	3.63	3.97	2.59	97.51
	64.65	1.30	13.91	5.91	0.18	1.30	3.45	4.44	2.80	97.93
	64.59	1.31	13.89	5.99	0.18	1.39	3.64	4.14	2.63	97.77
	64.46	1.35	14.13	5.90	0.13	1.31	3.56	4.37	2.76	97.96
	64.36	1.24	14.10	5.84	0.15	1.26	3.44	4.49	2.45	97.33
	64.28	1.40	14.10	5.98	0.21	1.38	3.63	4.38	2.67	98.04
	64.13	1.32	14.10	6.12	0.17	1.35	3.62	4.44	2.64	97.90
	64.13	1.27	13.84	5.02	0.09	1.04	2.79	4.22	2.82	95.21
	64.04	1.25	14.06	5.66	0.17	1.26	3.29	4.41	2.67	96.81
	63.69	1.35	14.20	6.32	0.18	1.42	3.62	4.44	2.48	97.70
mean	*64.46*	*1.31*	*14.06*	*5.87*	*0.16*	*1.30*	*3.47*	*4.26*	*2.66*	*97.56*
s.d.	*0.50*	*0.06*	*0.13*	*0.32*	*0.03*	*0.10*	*0.24*	*0.33*	*0.13*	*0.85*

59-4: Fljótsdalur reference profile T62

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
•	67.02	1.32	14.14	5.72	0.15	1.27	3.25	4.40	2.80	100.07
	66.91	1.05	14.25	5.58	0.18	1.20	3.08	4.75	2.76	99.75
•	66.74	1.16	14.33	5.84	0.20	1.19	3.40	4.54	2.74	100.14
	66.72	1.14	14.32	5.35	0.16	1.12	3.05	4.28	2.82	98.98
	66.42	1.17	14.01	5.78	0.16	1.22	3.28	4.07	2.80	98.91
	66.39	1.16	14.01	5.74	0.23	1.12	3.24	4.45	2.69	99.04
	66.18	1.14	14.09	5.50	0.15	1.13	3.19	3.63	2.80	97.75
	66.17	1.20	14.04	5.77	0.22	1.27	3.49	4.55	2.70	99.42
	66.05	1.18	14.22	5.82	0.12	1.17	3.20	4.72	2.75	99.22
	66.05	1.16	14.21	5.58	0.18	1.18	3.13	4.70	2.68	98.88
	66.01	1.15	14.19	5.70	0.16	1.18	3.01	4.23	2.78	98.42
	65.99	1.18	14.27	6.05	0.21	1.23	3.25	4.79	2.88	99.84
	65.89	1.07	13.94	5.59	0.14	1.16	2.92	4.47	2.75	97.92
	65.65	1.12	14.09	5.61	0.12	1.20	3.07	4.48	2.90	98.24
mean	*66.20*	*1.14*	*14.14*	*5.67*	*0.17*	*1.18*	*3.16*	*4.43*	*2.78*	*98.86*
s.d.	*0.36*	*0.05*	*0.12*	*0.18*	*0.04*	*0.04*	*0.15*	*0.33*	*0.07*	*0.67*

59-5: Fljótsdalur reference profile T69

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
•	72.58	0.16	11.54	2.51	0.03	0.02	0.44	3.17	3.75	94.19
	48.73	3.80	12.54	13.33	0.24	3.86	8.30	3.26	1.03	95.09
	46.25	3.05	14.41	14.17	0.16	6.20	9.91	2.58	0.75	97.47
	46.07	3.99	12.49	13.86	0.26	5.01	9.48	3.17	0.72	95.05
	46.05	4.41	12.42	14.45	0.21	4.74	9.15	3.22	0.81	95.46
•	45.87	4.32	12.24	14.40	0.19	4.69	9.14	3.14	0.81	94.81
	45.65	2.95	14.61	14.10	0.21	6.70	10.32	2.75	0.45	97.75
	45.52	4.85	11.97	14.82	0.26	4.71	9.31	3.06	0.72	95.22
mean	*46.38*	*3.84*	*13.07*	*14.12*	*0.22*	*5.20*	*9.41*	*3.01*	*0.75*	*96.01*
s.d.	*1.18*	*0.75*	*1.13*	*0.51*	*0.04*	*1.05*	*0.69*	*0.28*	*0.19*	*1.25*

PROFILES 60-64

63-1: SLIDE 1: Smjörgil silicic inclusion 28/6/2001 - slumping? H

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	73.57	0.24	12.01	3.20	0.09	0.10	0.73	4.15	4.34	98.43
	72.93	0.31	11.37	2.61	0.06	0.01	0.33	4.18	4.23	96.04
	72.17	0.42	12.72	4.32	0.19	0.19	1.12	4.35	4.06	99.53
	71.94	0.33	13.45	4.05	0.11	0.24	1.40	4.64	3.51	99.66
	71.78	0.35	13.28	4.19	0.12	0.17	1.23	4.40	3.96	99.47
	71.22	0.34	13.52	4.34	0.17	0.26	1.32	4.41	3.52	99.09
	70.54	0.40	13.06	4.03	0.11	0.14	1.19	4.41	3.39	97.27
	70.01	0.26	13.01	3.92	0.12	0.15	1.17	4.52	3.36	96.51
	69.34	0.19	16.21	2.52	0.04	0.16	2.07	6.75	2.40	99.68
	68.69	0.94	13.61	5.05	0.17	0.63	2.20	3.67	3.21	98.17
	65.61	0.86	13.48	5.40	0.20	0.65	1.95	4.17	3.05	95.36
	49.01	3.82	12.84	13.51	0.23	3.69	8.01	3.06	1.24	95.40
	49.00	3.87	12.79	13.52	0.23	4.26	8.71	3.51	0.90	96.79
	47.09	4.60	12.45	14.44	0.24	4.87	9.24	3.18	0.86	96.97
	46.64	4.71	12.23	14.67	0.18	4.86	9.71	3.08	0.79	96.87
	46.50	4.63	12.49	14.80	0.23	4.91	9.61	3.21	0.71	97.08
	46.24	3.93	13.17	14.24	0.24	5.56	10.08	3.27	0.66	97.39
mean AN	*70.85*	*0.44*	*12.95*	*4.11*	*0.13*	*0.25*	*1.26*	*4.29*	*3.66*	*97.95*
mean BS	*47.41*	*4.26*	*12.66*	*14.20*	*0.23*	*4.69*	*9.23*	*3.22*	*0.86*	*96.75*
s.d. AN	*2.32*	*0.25*	*0.73*	*0.80*	*0.04*	*0.22*	*0.53*	*0.27*	*0.45*	*1.57*
s.d BS	*1.26*	*0.42*	*0.34*	*0.56*	*0.02*	*0.64*	*0.76*	*0.16*	*0.21*	*0.70*

PROFILES 65-69

68-1: North Aurasel Top pale tephra

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	71.77	0.27	14.70	2.38	0.03	0.28	0.89	4.29	4.68	99.30
	70.04	0.21	14.26	2.34	0.12	0.28	0.86	4.50	4.53	97.13
•	69.82	0.29	10.61	3.34	0.07	0.02	0.42	0.66	3.35	88.58
•	66.48	0.36	14.13	2.29	0.05	0.25	0.87	4.34	4.35	93.13
•	62.45	0.40	13.30	1.64	0.07	0.27	0.87	3.48	4.45	86.92
•	52.74	0.14	11.22	2.16	0.02	0.25	0.66	3.35	3.29	73.82
mean	*70.90*	*0.24*	*14.48*	*2.36*	*0.08*	*0.28*	*0.88*	*4.39*	*4.60*	*98.21*
s.d.	*1.22*	*0.04*	*0.31*	*0.03*	*0.06*	*0.01*	*0.03*	*0.15*	*0.11*	*1.54*
	48.60	4.21	12.90	13.47	0.24	6.82	8.72	3.30	0.96	99.21
	47.77	4.34	12.48	13.81	0.17	4.42	8.95	3.24	0.91	96.08
	47.11	4.41	12.59	14.07	0.18	4.76	8.97	3.24	0.80	96.12
	46.80	4.57	12.40	14.27	0.20	4.80	9.11	3.14	0.82	96.11
	46.76	4.45	12.44	14.38	0.22	4.83	9.15	3.16	0.80	96.19
	46.33	4.44	12.45	14.44	0.21	4.91	9.30	3.15	0.81	96.03
mean	*47.23*	*4.40*	*12.54*	*14.08*	*0.20*	*5.09*	*9.03*	*3.20*	*0.85*	*96.63*
s.d.	*0.83*	*0.12*	*0.19*	*0.37*	*0.03*	*0.86*	*0.20*	*0.06*	*0.07*	*1.27*

68-2: North Aurasel Bottom pale tephra

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	72.52	0.17	11.68	2.48	0.08	0.02	0.43	4.38	4.06	95.82
	72.22	0.18	13.32	2.10	0.05	0.06	0.65	5.32	2.96	96.89
•	70.15	0.37	9.41	4.77	0.06	0.02	0.26	0.20	2.94	88.18
	69.78	0.18	15.50	2.31	0.11	0.07	1.44	6.84	3.20	99.43
	67.71	0.34	13.09	3.79	0.11	0.23	1.28	3.65	3.39	93.59
•	67.45	0.37	12.75	3.84	0.11	0.17	1.21	3.52	3.41	92.83
•	67.18	0.33	12.80	3.89	0.15	0.21	1.34	3.32	3.23	92.45
mean AN	*71.51*	*0.18*	*13.50*	*2.30*	*0.08*	*0.05*	*0.84*	*5.51*	*3.41*	*97.38*
s.d. AN	*1.51*	*0.01*	*1.92*	*0.19*	*0.03*	*0.02*	*0.53*	*1.25*	*0.58*	*1.85*
	49.50	3.79	12.83	12.59	0.25	4.31	8.27	3.32	1.14	96.00
	47.01	4.53	12.61	14.02	0.25	4.96	9.80	3.17	0.78	97.12
	46.54	4.58	12.40	14.40	0.25	4.74	9.20	3.08	0.80	95.98
	46.44	4.44	12.37	14.67	0.25	5.04	9.82	3.03	0.74	96.79
	46.35	4.37	12.65	14.69	0.23	5.01	9.84	3.01	0.76	96.92
	45.72	4.53	12.57	14.23	0.24	5.07	9.76	3.02	0.71	95.84
mean	*46.92*	*4.37*	*12.57*	*14.10*	*0.24*	*4.86*	*9.45*	*3.11*	*0.82*	*96.44*
s.d.	*1.33*	*0.30*	*0.17*	*0.78*	*0.01*	*0.29*	*0.63*	*0.12*	*0.16*	*0.56*

68-P1: Top North Aurasel 2/7/01-A PUM A

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
•	98.16	0.23	14.06	2.23	0.08	0.24	0.85	4.45	4.26	94.59
•	72.53	0.27	14.72	2.33	0.07	0.25	0.91	4.47	4.64	100.18
	71.56	0.26	14.66	2.29	0.06	0.26	0.90	4.63	4.91	99.54
	71.52	0.30	14.14	2.30	0.07	0.30	1.01	4.59	4.53	98.76
	71.20	0.32	14.37	2.41	0.09	0.27	0.88	4.66	4.58	98.79
	71.20	0.25	14.80	2.38	0.02	0.32	0.86	4.47	4.87	99.16
	70.70	0.26	14.46	2.33	0.02	0.26	0.91	4.65	4.68	98.26
	70.45	0.22	14.33	2.15	0.05	0.25	0.89	4.40	4.54	97.28
	70.40	0.28	14.22	2.40	0.04	0.25	0.80	4.51	4.76	97.65
	70.31	0.32	14.54	2.31	0.04	0.18	0.88	4.69	4.52	97.79
	70.18	0.28	14.46	2.28	0.05	0.24	0.82	4.67	4.56	97.53
	70.08	0.25	14.20	2.15	0.02	0.23	0.91	4.55	4.44	96.82
	70.01	0.29	14.22	2.23	0.07	0.27	0.84	4.67	4.43	97.04
	69.48	0.29	14.33	2.26	0.10	0.24	0.91	4.64	4.48	96.74
•	66.58	0.30	13.82	2.13	0.04	0.27	0.89	4.42	4.33	92.77
•	66.52	0.29	13.58	2.03	0.04	0.21	0.87	4.33	4.35	92.22
•	63.80	0.18	13.03	1.99	0.00	0.20	0.84	3.94	4.08	88.07
mean	*70.59*	*0.28*	*14.39*	*2.29*	*0.05*	*0.25*	*0.88*	*4.59*	*4.61*	*97.95*
s.d.	*0.65*	*0.03*	*0.20*	*0.09*	*0.03*	*0.03*	*0.05*	*0.09*	*0.16*	*0.94*

68-P2: Top North Aurasel 2/7/01-B PUMPumice

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	71.61	0.29	14.72	2.28	0.09	0.28	0.87	4.50	4.75	99.39
	71.50	0.29	14.61	2.34	0.13	0.24	0.86	4.75	4.62	99.34
	71.43	0.29	14.60	2.31	0.07	0.26	0.84	4.44	4.58	98.81
	71.40	0.30	14.61	2.41	0.11	0.26	0.82	4.65	4.71	99.27
	71.35	0.24	14.48	2.22	0.10	0.28	0.94	4.63	4.61	98.84
	71.24	0.36	14.49	2.44	0.10	0.23	0.91	4.69	4.62	99.08
	71.00	0.28	14.42	2.24	0.08	0.23	0.82	4.60	4.57	98.23
	70.89	0.27	14.37	2.27	0.11	0.24	0.80	4.72	4.60	98.27
	70.72	0.29	14.51	2.26	0.12	0.23	0.84	4.81	4.65	98.43
	70.59	0.28	14.50	2.32	0.10	0.25	0.80	4.89	4.64	98.37
	69.64	0.29	14.62	2.25	0.10	0.28	0.75	4.67	4.59	97.18
	69.05	0.29	13.83	2.19	0.10	0.25	0.86	4.48	4.44	95.50
•	68.08	0.29	14.14	2.16	0.06	0.26	0.85	4.37	4.47	94.66
•	67.48	0.28	13.83	2.25	0.11	0.24	0.80	4.62	4.37	93.97
•	66.98	0.25	13.94	2.02	0.09	0.24	0.85	4.42	4.30	93.08
•	66.23	0.21	13.61	2.37	0.10	0.23	0.84	4.53	4.33	92.46
mean	*70.87*	*0.29*	*14.48*	*2.29*	*0.10*	*0.25*	*0.84*	*4.65*	*4.62*	*98.39*
s.d.	*0.79*	*0.03*	*0.23*	*0.07*	*0.02*	*0.02*	*0.05*	*0.13*	*0.08*	*1.10*

PROFILES 70-74

72-1: 9/7/01-1 T17

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	59.29	1.59	13.05	10.18	0.29	1.62	4.66	3.69	1.77	96.14
	58.63	1.78	12.72	11.26	0.30	1.70	5.05	3.99	1.59	97.02
	58.17	1.72	13.27	10.46	0.26	1.96	5.26	3.94	1.62	96.68
	58.14	1.48	14.38	9.89	0.22	1.43	5.12	4.87	1.57	97.09
	57.75	1.44	14.25	10.27	0.26	2.20	5.69	3.85	1.42	97.12
	57.56	1.48	14.64	10.00	0.29	2.21	5.53	4.16	1.37	97.25
•	57.03	1.48	13.93	8.67	0.30	1.80	5.27	3.68	1.60	93.76
	56.97	1.60	14.30	9.98	0.21	2.19	5.53	3.44	1.37	95.59
	56.88	1.59	14.46	10.12	0.26	2.35	5.46	3.90	1.32	96.35
	56.69	1.51	14.23	10.13	0.24	2.32	5.48	3.53	1.28	95.41
	56.29	1.42	14.28	10.48	0.28	2.43	5.72	3.44	1.30	95.65
	56.12	1.62	14.51	10.28	0.29	2.34	5.85	3.58	1.39	95.97
	56.08	1.68	14.09	10.20	0.25	2.37	5.78	3.69	1.39	95.53
	56.00	1.46	14.20	10.35	0.29	2.40	5.88	3.96	1.29	95.83
mean	*57.27*	*1.57*	*14.03*	*10.28*	*0.27*	*2.12*	*5.46*	*3.85*	*1.44*	*96.28*
s.d.	*1.07*	*0.11*	*0.61*	*0.34*	*0.03*	*0.33*	*0.36*	*0.38*	*0.15*	*0.68*
	45.80	4.14	12.41	15.10	0.22	5.14	9.98	3.00	0.67	96.46
	45.33	4.34	12.30	14.71	0.22	5.05	9.65	3.05	0.70	95.36
	45.22	4.11	12.28	14.39	0.27	5.10	10.30	3.08	0.66	95.40
mean	*45.45*	*4.19*	*12.33*	*14.74*	*0.24*	*5.10*	*9.98*	*3.04*	*0.68*	*95.74*
s.d.	*0.31*	*0.13*	*0.07*	*0.36*	*0.03*	*0.05*	*0.32*	*0.04*	*0.02*	*0.63*

PROFILES 75-79

75-1: West Kanastaðir 22 Triplet

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.53	1.14	13.93	5.75	0.16	1.16	3.28	4.40	2.67	98.02
	65.48	1.28	13.88	5.64	0.13	1.07	3.01	4.18	2.64	97.31
	65.29	1.16	13.97	5.49	0.16	1.12	3.18	4.03	2.77	97.16
	65.16	1.26	14.07	5.50	0.19	1.11	3.21	4.80	2.65	97.95
	65.16	1.24	13.90	5.49	0.18	1.24	3.00	4.58	2.80	97.59
	65.11	1.30	14.12	5.55	0.19	1.15	3.23	4.60	2.70	97.95
	65.08	1.21	14.27	5.60	0.19	1.20	3.27	4.43	2.75	98.00
	65.02	1.13	14.04	5.48	0.20	1.20	3.06	4.30	2.88	97.32
	64.87	1.18	14.09	5.72	0.17	1.19	3.32	4.24	2.76	97.54
	64.87	1.18	14.11	5.46	0.22	1.23	3.18	4.26	2.54	97.06
	64.74	1.17	13.85	5.40	0.13	1.28	3.29	4.52	2.71	97.08
	64.60	1.16	13.95	5.55	0.22	1.13	3.24	4.09	2.82	96.75
mean	*65.07*	*1.20*	*14.02*	*5.55*	*0.18*	*1.17*	*3.19*	*4.37*	*2.72*	*97.48*
s.d.	*0.28*	*0.06*	*0.12*	*0.11*	*0.03*	*0.06*	*0.11*	*0.23*	*0.09*	*0.43*

75-2: West Kanastaðir 25 Triplet

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.32	1.06	14.11	5.19	0.18	1.15	3.12	4.35	2.80	98.29
	66.21	1.20	14.31	5.00	0.22	1.07	2.83	4.36	2.85	98.05
	65.38	1.25	13.82	5.67	0.16	1.17	3.05	4.63	2.62	97.73
	65.32	1.26	14.13	5.15	0.20	1.20	2.92	4.67	2.86	97.72
	65.14	1.20	13.91	5.66	0.27	1.24	3.09	4.41	2.68	97.61
	65.13	1.14	13.73	5.35	0.17	1.19	3.00	4.41	2.54	96.65
	65.10	1.11	13.95	5.40	0.17	1.25	3.05	4.74	2.85	97.63
	65.09	1.23	13.94	5.41	0.15	1.08	2.95	4.39	2.77	97.02
	65.01	1.13	13.92	5.46	0.22	1.26	3.28	4.36	2.80	97.46
	64.93	1.21	13.95	3.52	0.20	1.22	3.35	4.71	2.61	97.72
	64.43	1.17	14.06	5.50	0.19	1.15	3.20	4.30	2.65	96.66
	64.36	1.18	14.01	5.64	0.14	1.16	3.13	4.45	2.90	96.95
mean	*65.20*	*1.18*	*13.99*	*5.25*	*0.19*	*1.18*	*3.08*	*4.48*	*2.75*	*97.46*
s.d.	*0.58*	*0.06*	*0.15*	*0.58*	*0.04*	*0.06*	*0.15*	*0.16*	*0.12*	*0.52*

75-3: West Kanastaðir 21 Triplet

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.41	1.16	14.16	5.12	0.11	1.16	3.17	4.45	2.64	97.37
	65.04	1.33	14.36	5.28	0.18	1.16	3.03	4.41	2.77	97.56
	65.02	1.20	14.13	5.99	0.22	1.33	3.65	3.35	2.57	97.47
	64.51	1.27	14.14	5.69	0.21	1.27	3.44	4.01	2.64	97.18
	64.47	1.23	14.38	5.90	0.18	1.26	3.55	4.63	2.67	98.26
	64.37	1.14	13.84	5.80	0.24	1.30	3.42	4.38	2.70	97.19
	64.29	1.30	14.20	5.66	0.19	1.34	3.21	4.68	2.74	97.61
	64.28	1.26	13.94	5.81	0.19	1.29	3.33	4.44	2.61	97.13
	64.18	1.46	13.86	5.84	0.19	1.27	3.32	4.25	2.69	97.05
	63.79	1.22	14.12	5.79	0.18	1.27	3.38	4.57	2.68	97.01
	63.67	1.38	14.11	6.11	0.24	1.37	3.54	4.60	2.58	97.60
	60.87	1.84	14.09	7.27	0.28	1.88	4.75	4.25	2.25	97.47
mean	*64.16*	*1.31*	*14.11*	*5.85*	*0.20*	*1.33*	*3.48*	*4.33*	*2.63*	*97.41*
s.d.	*1.15*	*0.19*	*0.17*	*0.53*	*0.04*	*0.19*	*0.44*	*0.36*	*0.13*	*0.34*

75-4: SLIDE 1: West Kanastaðir 9/7/2001

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	60.63	1.87	12.97	10.83	0.29	1.27	4.60	4.49	1.69	98.64
	59.34	1.70	12.55	11.83	0.34	2.60	4.75	3.47	1.76	98.32
	59.34	1.70	13.26	10.69	0.26	1.71	5.05	3.78	1.65	97.44
	59.16	1.65	13.82	11.32	0.23	2.58	5.59	3.68	1.69	99.72
	59.14	1.61	12.38	11.05	0.28	2.35	5.18	3.33	1.47	96.78
	59.00	1.49	14.18	10.01	0.27	1.96	5.14	3.59	1.56	97.21
	58.85	1.47	13.91	10.52	0.27	2.14	5.54	4.26	1.40	98.36
	58.77	1.53	14.44	10.57	0.29	2.33	5.50	4.13	1.32	98.88
	58.63	1.68	13.64	11.07	0.23	2.15	5.29	4.04	1.54	98.27
	58.52	1.14	17.31	6.84	0.14	1.72	6.55	4.76	1.10	98.08
	58.49	1.23	16.60	7.13	0.15	1.66	6.20	4.43	1.05	96.94
	58.27	1.40	14.03	10.24	0.27	2.15	5.33	3.77	1.51	96.97
	58.20	1.49	14.92	9.39	0.21	1.93	5.70	4.04	1.50	97.39
	57.79	1.50	14.61	10.02	0.23	2.37	5.77	3.30	1.39	96.98
mean	*58.87*	*1.53*	*14.19*	*10.11*	*0.25*	*2.07*	*5.44*	*3.93*	*1.47*	*97.86*
s.d.	*0.68*	*0.19*	*1.39*	*1.46*	*0.05*	*0.38*	*0.52*	*0.45*	*0.21*	*0.89*

76-1: 10/7/01 Drumbabót

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Tota
	67.32	2.75	14.08	4.49	0.17	0.91	2.47	4.40	2.88	99.47
	65.47	1.28	13.84	5.44	0.12	1.09	2.90	4.71	2.68	97.53
	65.28	1.22	13.61	5.11	0.17	1.06	2.68	4.45	2.78	96.39
	65.22	1.29	13.69	5.62	0.21	1.09	3.03	4.48	2.68	97.30
	65.17	1.28	13.64	5.23	0.30	1.11	2.79	4.43	2.72	96.67
	64.68	1.29	13.63	5.39	0.13	1.06	2.79	4.60	2.58	96.15
	64.67	1.26	13.46	5.34	0.12	1.09	2.84	4.76	2.63	96.18
	64.64	1.36	13.71	5.99	0.22	1.11	3.15	4.81	2.72	97.71
•	64.15	1.04	15.76	4.15	0.15	0.94	3.69	4.97	1.97	96.82
Mean	*65.31*	*1.47*	*13.71*	*5.33*	*0.18*	*1.07*	*2.83*	*4.58*	*2.71*	*97.17*
s.d.	*0.90*	*0.51*	*0.71*	*0.56*	*0.06*	*0.07*	*0.35*	*0.20*	*0.26*	*1.04*
	46.18	4.42	12.41	14.39	0.15	4.97	9.54	3.01	0.81	95.87

76-2: DRV82

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	70.33	0.77	13.67	3.76	0.06	0.52	1.47	4.50	3.34	98.42
(b)	66.51	1.16	14.17	5.64	0.20	1.15	2.95	4.60	2.94	99.31
	66.39	1.25	13.98	5.45	0.09	0.97	2.89	4.44	2.67	98.13
	66.18	1.24	14.05	5.56	0.19	1.11	2.72	4.06	2.72	97.84
	66.12	1.26	14.19	5.89	0.15	1.10	2.76	4.55	3.00	99.02
	66.04	1.31	13.79	5.53	0.15	1.06	2.80	4.48	2.87	98.05
	66.00	1.20	13.69	5.49	0.19	1.04	2.94	4.61	2.78	97.93
	66.00	1.18	14.07	5.75	0.11	1.03	2.76	4.73	2.76	98.39
	65.83	1.28	13.86	5.61	0.16	1.09	2.93	4.52	2.71	97.99
	65.82	1.29	14.05	5.73	0.18	1.10	2.95	4.33	2.57	98.03
	65.65	1.20	13.83	5.43	0.16	1.12	2.83	4.39	2.72	97.33
	65.59	1.21	13.98	5.41	0.10	1.13	2.91	4.39	2.78	97.50
	65.58	1.24	14.05	5.66	0.16	1.06	2.90	4.61	2.81	98.07
mean	*65.98*	*1.23*	*13.98*	*5.60*	*0.15*	*1.08*	*2.86*	*4.47*	*2.78*	*98.13*
s.d.	*0.30*	*0.05*	*0.15*	*0.15*	*0.04*	*0.05*	*0.08*	*0.17*	*0.12*	*0.56*
©	47.45	4.50	12.75	15.02	0.18	5.17	10.00	2.24	0.80	98.11
	46.49	4.26	12.70	14.47	0.15	5.05	9.57	3.08	0.79	96.56
	46.39	4.29	12.45	14.20	0.23	5.02	9.74	3.04	0.74	96.08
	46.33	4.36	12.61	14.43	0.23	4.98	9.69	3.08	0.78	96.50
mean	*46.66*	*4.35*	*12.63*	*14.53*	*0.20*	*5.06*	*9.75*	*2.86*	*0.78*	*96.82*
s.d.	*0.53*	*0.11*	*0.13*	*0.35*	*0.04*	*0.08*	*0.18*	*0.41*	*0.02*	*0.89*

78/92-1: 7/8/01-2 T1/1 ol/yt

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	60.96	1.36	13.50	9.60	0.28	1.33	4.60	4.14	1.89	97.65
•	59.96	0.68	17.60	7.84	0.24	1.73	6.50	5.46	0.93	100.94
	47.11	4.71	12.48	14.68	0.23	4.90	9.45	3.08	0.77	97.42
	47.06	4.63	12.73	14.56	0.21	4.82	9.69	3.09	0.75	97.54
	46.99	4.43	12.74	15.35	0.21	5.00	9.16	3.00	0.82	97.70
	46.72	4.68	12.60	14.61	0.24	4.80	9.54	3.14	0.75	97.06
	46.68	4.61	12.50	14.83	0.27	4.90	9.48	3.04	0.81	97.13
	46.38	4.64	12.54	15.05	0.21	5.02	9.61	3.12	0.66	97.23
	46.28	4.60	12.60	14.54	0.25	5.00	9.61	3.16	0.75	96.79
	46.21	2.92	14.83	13.35	0.18	6.72	10.27	2.51	0.51	97.51
	45.96	2.83	14.79	13.18	0.21	6.77	10.32	2.89	0.41	97.37
	45.92	4.73	12.46	14.76	0.24	5.19	9.80	3.09	0.64	96.82
	45.77	4.70	12.45	15.05	0.22	5.02	9.61	3.05	0.68	96.55
	45.70	4.57	12.63	14.65	0.23	5.18	9.51	3.20	0.72	96.29
mean	*46.40*	*4.34*	*12.95*	*14.55*	*0.23*	*5.28*	*9.67*	*3.03*	*0.69*	*97.12*
s.d.	*0.51*	*0.69*	*0.88*	*0.65*	*0.02*	*0.70*	*0.33*	*0.18*	*0.12*	*0.43*

78/92-4: 782T122

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.22	1.41	13.66	6.09	0.24	1.25	3.13	4.37	2.73	99.08
	65.56	1.41	13.65	5.89	0.13	1.22	2.99	4.03	2.70	97.57
	65.53	1.31	13.70	5.79	0.17	1.24	3.14	4.04	2.56	97.50
	65.51	1.27	13.76	5.66	0.16	1.16	2.98	4.39	2.67	97.56
	65.39	1.31	13.59	6.11	0.18	1.17	3.05	4.06	2.70	97.55
	65.37	1.28	13.46	6.22	0.33	1.12	3.11	4.39	2.89	98.18
	65.31	1.44	13.62	6.06	0.14	1.23	3.05	4.82	2.74	98.42
	65.14	1.35	13.60	6.15	0.22	1.28	3.15	4.31	2.78	97.98
	65.03	1.28	13.74	5.81	0.20	1.16	3.05	4.50	2.63	97.41
	64.93	1.35	13.64	6.06	0.21	1.23	3.14	4.55	2.69	97.80
	64.81	1.31	13.74	6.07	0.20	1.32	3.14	4.61	2.89	98.11
	64.80	1.36	13.59	6.00	0.16	1.20	3.05	4.55	2.64	97.36
	64.29	1.26	13.85	6.05	0.22	1.24	3.10	4.31	2.77	97.09
mean	*65.22*	*1.34*	*13.66*	*6.00*	*0.20*	*1.22*	*3.08*	*4.38*	*2.72*	*97.82*
s.d.	*0.47*	*0.06*	*0.10*	*0.16*	*0.05*	*0.06*	*0.06*	*0.24*	*0.10*	*0.53*
•	61.13	2.00	13.69	7.84	0.18	2.01	4.32	4.17	2.18	97.51
•	60.16	1.99	13.61	8.22	0.23	2.19	4.55	4.34	1.99	97.29
	57.73	0.21	23.91	1.01	0.05	0.17	7.20	6.87	0.52	97.68
	56.93	0.02	25.49	0.70	0.00	0.11	8.12	6.48	0.36	98.22

78/92-5: T122INC

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.65	1.27	9.89	6.13	0.23	1.27	3.04	3.51	2.93	93.94
	65.33	1.39	9.81	5.93	0.16	1.21	3.20	3.57	2.57	93.18
	65.31	1.28	10.08	5.75	0.24	1.26	3.16	3.55	2.78	93.40
	65.16	1.42	10.04	5.85	0.23	1.18	2.90	3.78	2.92	93.48
	65.11	1.29	10.03	6.25	0.25	1.22	3.05	3.51	2.78	93.48
	65.07	1.28	10.44	7.82	0.30	2.77	3.20	3.16	2.65	96.69
	65.03	1.40	10.08	5.82	0.17	1.24	2.99	3.58	2.90	93.21
	65.00	1.34	9.91	6.01	0.18	1.14	3.12	3.69	2.74	93.13
	64.92	1.28	9.70	5.89	0.21	1.21	3.17	3.45	2.75	92.59
	64.87	1.40	9.96	6.15	0.22	1.23	2.96	3.33	2.60	92.72
	64.68	1.39	10.01	6.10	0.21	1.17	3.13	3.25	2.62	92.55
	64.62	1.35	10.28	6.02	0.21	1.28	3.36	3.46	2.68	93.26
	63.83	1.49	9.92	6.69	0.22	1.45	3.60	3.44	2.65	93.30
	63.53	1.57	10.06	6.72	0.17	1.54	3.79	3.36	2.63	93.38
	63.17	1.56	9.98	6.66	0.25	1.52	4.00	3.49	2.62	93.25
•	62.47	1.35	9.81	5.77	0.17	1.26	2.85	3.68	2.76	90.13
mean	*64.75*	*1.38*	*10.01*	*6.25*	*0.22*	*1.38*	*3.25*	*3.47*	*2.72*	*93.44*
s.d.	*0.70*	*0.10*	*0.18*	*0.54*	*0.04*	*0.40*	*0.32*	*0.16*	*0.12*	*0.97*
	47.44	4.04	8.82	13.56	0.24	4.57	9.01	2.10	0.88	90.66

78/92-6: T22N

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.14	1.37	14.03	6.13	0.30	1.16	2.83	4.35	2.63	99.94
•	67.05	1.32	13.85	6.13	0.23	1.26	3.24	4.49	2.66	100.23
	66.52	1.33	13.59	5.75	0.19	1.15	3.09	4.50	2.86	98.97
	66.38	1.24	13.76	6.02	0.22	1.20	3.04	4.00	2.64	98.51
	66.28	1.28	13.81	6.16	0.23	1.26	3.17	4.29	2.66	99.15
	66.22	1.28	13.38	5.94	0.17	1.11	3.13	4.58	2.65	98.46
	65.89	1.27	13.78	6.13	0.26	1.17	2.94	4.32	2.76	98.50
	65.88	1.24	13.88	5.90	0.19	1.14	3.06	4.22	2.59	98.10
	65.77	1.33	13.62	5.94	0.22	1.26	3.35	4.08	2.63	98.19
	65.69	1.36	13.58	5.93	0.23	1.16	2.95	4.18	2.65	97.72
	65.67	1.30	13.44	6.03	0.18	1.23	3.07	4.54	2.76	98.20
	65.63	1.28	13.58	5.50	0.22	1.18	3.18	4.32	2.68	97.57
	65.58	1.22	13.59	5.84	0.14	1.20	3.02	4.53	2.59	97.69
	65.31	1.31	13.58	5.86	0.19	1.20	3.04	4.18	2.76	97.43
	64.85	1.35	13.57	5.96	0.20	1.34	3.33	4.00	2.68	97.28
mean	*65.91*	*1.30*	*13.66*	*5.93*	*0.21*	*1.20*	*3.09*	*4.29*	*2.68*	*98.27*
s.d.	*0.56*	*0.05*	*0.18*	*0.17*	*0.04*	*0.06*	*0.14*	*0.20*	*0.08*	*0.74*

78/92-7: 78T25

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.77	1.28	14.06	5.83	0.15	1.24	3.15	3.54	2.81	98.84
	66.71	1.26	14.24	5.23	0.10	0.85	2.79	4.34	2.88	98.41
	66.55	1.20	13.71	6.03	0.19	1.25	3.19	4.25	2.67	99.06
	66.51	1.20	14.17	5.51	0.16	1.22	3.20	4.54	2.70	99.21
	66.38	1.26	14.09	5.87	0.18	1.16	3.01	4.27	2.77	98.99
	66.23	1.08	14.12	5.28	0.18	1.12	2.96	4.31	3.05	98.33
	66.23	1.25	13.76	5.84	0.11	1.25	3.07	4.55	2.77	98.83
	66.11	1.31	13.86	5.71	0.17	1.12	3.06	4.45	2.70	98.48
	65.94	1.14	14.08	5.81	0.19	1.18	3.25	4.35	2.65	98.59
	65.89	1.18	13.96	5.88	0.17	1.20	3.08	4.37	2.91	98.63
	65.82	1.20	14.04	5.52	0.21	1.21	3.29	4.49	2.86	98.63
	65.64	1.24	14.29	5.82	0.20	1.21	3.29	4.38	2.62	98.67
	65.48	1.16	14.03	5.73	0.17	1.18	3.12	4.49	2.64	98.00
mean	*66.17*	*1.21*	*14.03*	*5.70*	*0.17*	*1.17*	*3.11*	*4.33*	*2.77*	*98.67*
s.d.	*0.41*	*0.06*	*0.17*	*0.24*	*0.03*	*0.11*	*0.14*	*0.26*	*0.13*	*0.33*

79-1: 881Y N Þórsmörk gully section 8/8/2001-1 Y?

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.78	0.85	13.44	5.15	0.17	0.76	2.19	4.36	3.14	97.85
	67.00	0.99	13.72	5.15	0.08	0.81	2.61	4.37	2.92	97.65
	66.81	0.98	13.80	5.40	0.10	0.93	2.63	4.65	2.68	97.97
	66.69	1.26	13.94	5.19	0.19	0.94	2.92	4.72	2.68	98.53
	66.43	1.03	13.41	5.53	0.15	0.95	2.69	4.56	2.80	97.56
	66.25	1.16	13.61	5.63	0.16	0.93	2.73	4.82	2.91	98.20
	65.72	1.11	13.78	5.78	0.13	1.12	2.95	4.49	2.74	97.82
	65.59	1.18	13.79	6.25	0.21	1.25	3.20	4.41	2.62	98.50
	65.57	1.21	13.90	6.04	0.18	1.11	2.96	4.56	2.67	98.19
	65.55	1.23	13.71	6.14	0.17	1.12	3.08	4.59	2.67	98.25
	65.48	1.21	13.97	5.71	0.14	1.15	3.01	4.46	2.78	97.91
	65.38	1.16	13.81	5.74	0.19	1.06	3.06	4.43	2.67	97.50
	65.36	1.29	13.60	5.89	0.19	1.02	2.86	4.28	2.73	97.22
	65.16	1.19	13.69	5.99	0.14	1.15	3.12	4.54	2.57	97.55
	65.07	1.24	13.70	5.88	0.24	1.12	3.18	4.50	2.70	97.62
Mean	*65.99*	*1.14*	*13.73*	*5.70*	*0.16*	*1.03*	*2.88*	*4.52*	*2.75*	*97.89*
S.d.	*0.79*	*0.12*	*0.16*	*0.36*	*0.04*	*0.14*	*0.27*	*0.14*	*0.15*	*0.38*
	49.65	5.01	13.01	13.16	0.22	4.36	8.73	3.25	0.99	98.39
	46.26	4.49	12.32	14.32	0.25	5.22	10.14	2.91	0.72	96.62

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81-3: 883DG N Þórsmörk

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	63.30	1.43	13.74	7.05	0.17	1.54	4.05	4.12	2.51	97.89
	62.23	1.69	13.63	8.04	0.15	1.86	4.49	4.62	2.26	98.97
•	55.33	3.32	13.36	11.92	0.23	3.07	7.43	4.00	1.35	100.01
	54.81	3.26	13.73	10.54	0.26	2.76	7.50	3.52	1.55	97.93
	53.59	3.25	12.94	11.67	0.19	3.56	7.21	3.77	1.59	97.77
	53.39	3.24	13.09	11.58	0.22	3.27	7.53	3.61	1.37	97.30
	53.05	3.64	12.79	12.81	0.25	3.60	7.67	3.62	1.35	98.80
	52.82	3.27	12.91	11.89	0.18	3.58	7.39	3.20	1.52	96.78
	52.62	3.56	12.93	12.42	0.19	3.76	7.94	3.51	1.41	98.34
	52.31	3.65	12.70	12.65	0.46	3.77	7.92	3.43	1.51	98.40
	52.08	3.47	12.92	12.18	0.20	3.76	7.84	3.47	1.29	97.23
	51.76	3.96	12.74	12.74	0.28	3.41	8.00	3.09	1.32	97.30
	51.39	3.62	12.89	12.16	0.26	3.85	8.10	3.49	1.35	97.12
	51.21	3.66	12.78	12.64	0.25	3.94	8.18	3.52	1.17	97.35
	51.18	3.78	12.58	12.78	0.24	3.96	7.92	3.44	1.27	97.15
	50.14	3.71	12.82	12.61	0.22	4.06	8.54	3.52	1.23	96.84
	46.66	4.51	12.41	14.30	0.23	4.61	8.91	3.21	0.86	95.70
	46.24	4.39	12.44	14.24	0.25	5.15	9.78	3.00	0.81	96.29
mean	*51.55*	*3.66*	*12.85*	*12.48*	*0.25*	*3.80*	*8.03*	*3.43*	*1.31*	*97.35*
s.d.	*2.37*	*0.38*	*0.31*	*0.94*	*0.07*	*0.55*	*0.65*	*0.21*	*0.23*	*0.81*

81-4: 883H N Þórsmörk

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.75	0.31	13.80	4.33	0.12	0.10	0.89	5.59	3.57	99.46
	70.02	0.27	13.67	4.64	0.18	0.10	0.84	5.77	3.87	99.37
	69.97	0.36	13.97	4.40	0.09	0.20	1.08	5.77	3.63	99.46
	69.64	0.34	13.48	4.43	0.13	0.11	0.93	5.90	3.80	98.76
•	69.24	0.36	13.72	0.03	0.35	0.18	1.20	5.43	3.42	93.94
•	69.19	0.37	13.78	5.91	0.18	0.31	1.84	6.31	3.05	100.93
	69.15	0.28	13.95	4.43	0.11	0.19	1.13	5.72	3.80	98.77
	68.78	0.40	13.76	4.43	0.09	0.11	1.14	5.41	3.66	97.78
•	66.89	0.00	19.63	0.12	0.04	0.00	1.23	10.33	1.37	99.61
•	66.60	0.00	19.68	0.21	0.02	0.00	1.30	9.93	1.57	99.32
•	66.57	0.01	19.85	0.20	0.00	0.04	1.04	9.87	1.89	99.48
•	66.54	0.00	19.45	0.17	0.00	0.02	0.61	9.61	2.89	99.28
•	66.48	0.02	19.21	0.56	0.00	0.03	1.10	10.07	1.70	99.17
mean	*69.72*	*0.33*	*13.77*	*4.44*	*0.12*	*0.13*	*1.00*	*5.69*	*3.72*	*98.94*
s.d.	*0.70*	*0.05*	*0.18*	*0.11*	*0.03*	*0.05*	*0.13*	*0.17*	*0.12*	*0.65*
	49.38	2.80	12.74	13.45	0.18	5.60	9.93	2.84	0.43	97.34
	47.27	4.42	12.61	14.21	0.21	4.40	9.34	3.33	0.86	96.63
	46.98	4.48	12.54	14.18	0.19	4.65	9.14	3.15	0.83	96.14
	46.76	4.53	12.57	14.11	0.21	4.86	9.54	3.30	0.80	96.69
	46.55	4.73	12.34	14.83	0.26	4.81	9.82	3.26	0.68	97.29
	46.42	4.52	12.45	14.50	0.21	4.95	9.63	3.27	0.71	96.65
	46.17	5.31	11.30	16.26	0.23	4.50	9.53	3.04	0.85	97.19
mean	*47.08*	*4.40*	*12.36*	*14.51*	*0.21*	*4.82*	*9.56*	*3.17*	*0.74*	*96.85*
s.d.	*1.08*	*0.77*	*0.49*	*0.88*	*0.03*	*0.40*	*0.27*	*0.18*	*0.15*	*0.44*

81-5: 883INC N Þórsmörk

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.33	0.94	13.76	5.44	0.17	0.81	2.44	4.02	3.05	97.95
	67.08	0.89	13.78	5.15	0.14	0.76	2.34	4.53	2.98	97.65
	66.78	1.05	13.50	5.66	0.44	0.90	2.59	4.55	2.89	98.37
	66.29	1.08	13.57	5.58	0.17	0.89	2.63	4.56	2.71	97.47
	66.20	1.15	13.80	5.83	0.14	1.06	2.84	4.25	2.85	98.11
	65.85	1.23	13.85	5.90	0.25	1.06	3.16	4.49	2.73	98.52
	65.76	1.22	13.89	5.95	0.14	1.11	2.93	4.35	2.84	98.19
	65.75	1.17	13.72	6.06	0.22	1.07	3.50	4.49	2.71	98.69
	65.44	1.20	14.01	6.28	0.18	1.05	3.09	4.47	2.78	98.49
	65.38	1.24	13.91	6.48	0.16	1.16	3.09	4.81	2.87	99.09
	64.96	1.15	13.63	6.16	0.22	1.13	3.14	4.51	2.63	97.52
	63.75	1.16	13.65	5.98	0.18	1.15	3.01	4.44	2.75	96.06
mean	*65.88*	*1.12*	*13.76*	*5.87*	*0.20*	*1.01*	*2.90*	*4.46*	*2.82*	*98.01*
s.d.	*0.98*	*0.11*	*0.15*	*0.37*	*0.08*	*0.14*	*0.34*	*0.19*	*0.12*	*0.78*
	49.93	3.64	12.76	12.60	0.19	4.26	8.26	3.47	1.14	96.24
	49.84	2.56	13.17	12.68	0.24	5.72	10.28	2.70	0.45	97.39
	48.39	4.09	12.61	13.55	0.22	4.77	9.06	3.24	0.86	96.78
	48.30	4.09	12.52	13.23	0.23	4.55	9.21	3.27	0.96	96.35
	46.71	4.45	12.62	14.37	0.25	5.05	9.66	3.40	1.16	97.66
	46.50	4.32	12.41	13.79	0.18	5.02	9.87	3.00	0.79	95.88
	46.20	4.44	12.48	14.19	0.21	5.04	9.72	3.07	0.72	96.08
	45.93	4.35	12.52	14.30	0.19	5.06	9.78	3.03	0.67	95.82
	45.76	4.46	12.38	14.43	0.24	5.12	9.84	3.06	0.72	96.03
mean	*47.51*	*4.05*	*12.61*	*13.68*	*0.22*	*4.96*	*9.52*	*3.14*	*0.83*	*96.47*
s.d.	*1.64*	*0.62*	*0.24*	*0.71*	*0.02*	*0.41*	*0.59*	*0.23*	*0.23*	*0.67*

83-1: 885A

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	50.31	1.93	13.69	12.30	0.17	6.43	11.16	2.22	0.19	98.42
	48.14	4.25	12.61	13.87	0.27	4.44	8.86	3.44	0.90	96.78
	47.48	4.40	12.65	14.30	0.19	4.70	9.17	3.08	0.83	96.79
	47.26	4.30	12.44	14.33	0.24	4.73	9.27	3.17	0.76	96.50
	47.16	4.03	12.77	14.37	0.18	4.99	9.72	3.12	0.80	97.15
	46.93	4.58	12.38	14.66	0.18	4.81	9.45	3.26	0.71	96.95
	46.92	4.58	12.25	14.80	0.21	4.83	9.28	3.19	0.80	96.86
	46.89	3.43	13.58	12.89	0.18	5.39	10.06	3.17	0.73	96.33
	46.66	4.65	12.62	14.72	0.19	5.24	9.84	3.05	0.74	97.70
	46.59	4.60	12.43	14.99	0.22	5.19	9.73	3.15	0.68	97.60
	46.54	4.93	12.23	14.83	0.22	5.18	9.41	3.16	0.67	97.17
	46.36	4.29	12.53	14.73	0.18	4.95	9.43	3.35	0.73	96.54
	46.07	4.81	12.44	15.12	0.22	4.92	9.48	2.99	0.73	96.77
mean	*46.92*	*4.40*	*12.58*	*14.47*	*0.21*	*4.95*	*9.47*	*3.18*	*0.76*	*96.93*
s.d.	*0.55*	*0.40*	*0.35*	*0.60*	*0.03*	*0.27*	*0.32*	*0.12*	*0.06*	*0.42*

83-2: 885C

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.93	0.23	12.98	3.43	0.13	0.15	1.05	4.34	3.92	96.15
	49.65	1.76	13.44	12.36	0.21	6.75	11.56	2.39	0.20	98.30
	49.64	1.89	13.24	12.63	0.27	6.65	11.03	2.46	0.27	98.08
	49.38	1.88	13.14	12.54	0.20	6.54	10.91	2.48	0.23	97.30
	47.62	4.53	12.40	14.46	0.24	4.68	9.04	3.22	0.84	97.03
	47.24	4.41	12.54	13.67	0.28	4.91	9.50	2.97	0.81	96.32
	47.04	4.57	12.36	14.85	0.27	4.87	9.32	3.15	0.76	97.18
	46.98	4.58	12.64	14.45	0.24	4.97	9.37	3.17	0.77	97.16
	46.78	4.63	12.17	14.35	0.27	4.77	9.16	3.29	0.82	96.23
	46.75	4.62	12.36	14.28	0.27	4.89	9.21	3.14	0.78	96.30
	46.74	4.83	12.28	14.83	0.26	4.76	9.08	3.17	0.75	96.70
	46.35	4.11	12.75	14.24	0.26	5.01	9.37	3.20	0.75	96.03
	46.06	4.61	12.32	14.94	0.22	4.93	9.58	3.06	0.70	96.41
	45.98	4.13	12.61	14.68	0.22	5.01	9.39	3.38	0.72	96.12
mean	*47.40*	*3.89*	*12.63*	*14.02*	*0.25*	*5.29*	*9.73*	*3.01*	*0.65*	*96.86*
s.d.	*1.31*	*1.18*	*0.40*	*0.92*	*0.03*	*0.78*	*0.84*	*0.34*	*0.24*	*0.73*

83-3: 885E

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	48.55	3.98	14.90	12.61	0.16	4.06	9.69	3.64	0.67	98.26
	47.91	4.85	12.56	13.86	0.21	5.32	10.11	2.92	0.93	98.67
	47.13	4.71	12.30	14.31	0.21	4.83	9.62	3.24	0.76	97.12
	46.94	4.90	12.16	14.64	0.21	4.81	9.25	3.17	0.85	96.92
	46.74	4.59	12.29	14.71	0.22	4.74	9.05	3.21	0.85	96.42
	46.71	4.78	12.24	14.61	0.26	4.86	9.06	3.20	0.79	96.51
	46.70	4.74	12.02	14.82	0.22	4.83	9.35	3.20	0.80	96.67
	46.59	4.77	12.35	14.56	0.19	4.89	9.25	3.31	0.82	96.73
	46.51	4.72	12.13	14.56	0.20	4.82	9.31	3.18	0.83	96.25
	46.47	4.53	12.19	14.38	0.21	4.73	9.31	3.23	0.84	95.88
	46.46	4.77	12.30	14.30	0.20	4.76	9.26	3.30	0.88	96.23
	46.36	4.84	11.92	14.73	0.25	4.96	3.11	0.83	0.83	96.38
	45.18	5.70	10.30	17.95	0.26	4.75	8.96	2.60	0.89	96.61
mean	*46.79*	*4.76*	*12.28*	*14.62*	*0.22*	*4.80*	*8.87*	*3.00*	*0.83*	*96.82*
s.d.	*0.80*	*0.37*	*0.96*	*1.16*	*0.03*	*0.27*	*1.76*	*0.69*	*0.07*	*0.80*

83-4: 8/8/01-5 TB, North Þórsmörk

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.97	4.64	12.31	14.62	0.29	4.41	9.16	3.28	0.79	96.46
	46.95	4.59	12.75	14.27	0.17	4.97	9.26	3.00	0.79	96.74
	46.72	4.48	12.50	14.19	0.20	4.67	9.14	3.22	0.75	95.87
	46.60	5.29	11.87	16.61	0.35	4.33	9.51	2.69	0.79	98.04
	46.25	4.88	12.33	15.03	0.23	5.07	9.57	3.05	0.70	97.11
	46.14	4.73	12.33	14.55	0.21	5.16	9.69	3.04	0.73	96.60
	46.10	4.90	11.96	14.96	0.25	4.87	9.42	2.95	0.78	96.21
•	45.99	6.11	14.29	18.06	0.19	2.56	7.11	4.26	1.00	99.58
	45.84	5.00	11.99	15.51	0.28	5.00	9.54	3.08	0.76	97.00
	45.65	4.70	12.30	14.83	0.20	5.04	9.51	3.07	0.64	95.93
	45.59	4.93	12.19	14.43	0.23	5.12	9.61	3.21	0.69	95.99
	45.57	4.73	12.31	14.80	0.23	5.18	9.45	3.06	0.71	96.03
•	44.86	4.64	12.21	14.72	0.21	4.93	9.60	3.04	0.65	94.86
mean	*46.22*	*4.81*	*12.26*	*14.89*	*0.24*	*4.89*	*9.44*	*3.06*	*0.74*	*96.54*
s.d.	*0.53*	*0.23*	*0.25*	*0.68*	*0.05*	*0.29*	*0.18*	*0.16*	*0.05*	*0.66*

84-1: 886D

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	59.35	1.36	15.06	10.16	0.23	1.76	5.45	3.91	1.61	98.89
	59.02	1.41	14.36	10.39	0.29	1.86	5.21	3.93	1.59	98.06
	47.87	4.42	13.22	15.43	0.19	5.19	9.99	2.70	0.74	99.75
	47.26	4.64	12.41	14.28	0.19	4.69	9.35	3.24	0.77	96.83
	46.96	4.52	12.36	14.39	0.22	4.74	9.19	3.21	0.85	96.45
	46.65	4.93	11.76	15.45	0.24	4.57	9.13	3.25	0.72	96.70
	46.60	4.77	12.34	14.73	0.21	4.93	9.23	3.20	0.66	96.67
	46.59	4.82	11.80	15.16	0.20	4.63	9.17	3.22	0.80	96.38
	46.49	2.24	15.19	11.06	0.12	7.80	11.53	2.40	0.41	97.23
	46.31	2.36	15.63	11.65	0.11	7.70	11.09	2.43	0.40	97.68
	46.29	4.64	12.79	14.39	0.20	5.01	9.30	3.11	0.68	96.40
	46.10	2.56	15.37	12.53	0.12	7.04	10.59	2.73	0.45	97.49
	45.93	2.78	14.76	13.22	0.16	6.75	10.06	2.74	0.44	96.83
	45.49	3.14	14.21	14.30	0.19	6.08	9.87	2.87	0.49	96.64
mean	*46.55*	*3.82*	*13.48*	*13.88*	*0.18*	*5.76*	*9.88*	*2.92*	*0.62*	*97.09*
s.d.	*0.62*	*1.09*	*1.46*	*1.45*	*0.04*	*1.25*	*0.82*	*0.32*	*0.17*	*0.94*

84-2: 8/8/01-6 TD2, North Þórsmörk

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	59.36	1.36	14.82	9.99	0.24	1.63	5.38	4.63	1.49	98.89
	58.92	1.14	16.65	8.53	0.19	1.32	5.73	4.77	1.37	98.63
	58.53	1.75	13.05	11.49	0.26	1.81	5.01	3.53	1.86	97.29
	58.53	1.80	13.17	11.38	0.28	1.78	5.05	3.74	1.82	97.55
	58.50	1.52	13.37	11.47	0.30	1.97	4.93	3.51	1.79	97.36
	58.18	1.58	13.15	11.87	0.31	2.49	5.09	3.68	1.56	97.92
	58.04	1.48	14.59	10.34	0.28	2.06	5.35	3.56	1.57	97.27
	57.64	1.61	13.68	10.77	0.30	2.08	5.29	3.39	1.59	96.36
	57.44	1.49	14.85	11.23	0.28	1.99	5.54	3.56	1.44	97.81
	56.80	1.47	14.25	10.64	0.31	2.25	5.42	3.96	1.46	96.57
mean	*58.19*	*1.52*	*14.16*	*10.77*	*0.28*	*1.94*	*5.28*	*3.83*	*1.60*	*97.57*
s.d.	*0.75*	*0.19*	*1.13*	*0.98*	*0.04*	*0.33*	*0.26*	*0.48*	*0.17*	*0.80*
	48.35	4.08	12.71	13.91	0.23	4.33	8.68	3.54	0.91	96.72
	46.83	3.03	14.27	13.84	0.20	5.90	10.21	2.24	0.49	97.01
	46.37	4.68	12.64	15.10	0.26	5.11	9.86	3.10	0.69	97.80
	46.03	3.03	14.27	14.19	0.20	6.54	9.72	2.94	0.49	97.41
	45.92	3.36	13.45	15.31	0.23	6.71	10.16	2.73	0.46	98.33
	45.88	2.74	14.99	13.07	0.18	6.68	10.13	2.80	0.44	96.90
mean	*46.57*	*3.48*	*13.72*	*14.24*	*0.22*	*5.88*	*9.79*	*2.89*	*0.58*	*97.36*
s.d.	*0.94*	*0.74*	*0.95*	*0.84*	*0.03*	*0.98*	*0.58*	*0.43*	*0.19*	*0.61*

PROFILES 85-89

86-1: 9/8/01-1 T10 ol/yt, North Þórsmörk

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	68.33	0.93	13.65	5.18	0.21	0.66	2.31	4.34	2.98	98.58
	67.97	1.08	13.91	5.21	0.20	0.78	2.58	4.44	2.93	99.10
	67.89	1.08	14.03	5.66	0.18	0.93	2.72	3.99	2.88	99.35
	67.52	1.12	14.41	6.02	0.24	0.99	2.96	3.86	2.82	99.96
	67.28	1.01	13.72	5.36	0.17	0.81	2.59	4.45	2.89	98.28
	66.99	0.99	13.94	5.29	0.19	0.78	2.51	4.42	2.99	98.12
	66.65	1.21	14.14	5.90	0.16	1.11	3.00	4.03	2.84	99.05
	66.54	1.18	14.10	5.91	0.21	0.00	3.03	3.60	2.76	97.34
	66.30	1.13	14.27	6.33	0.20	1.14	2.98	4.08	2.78	99.21
	66.28	1.09	13.86	5.80	0.25	1.06	3.07	4.56	2.84	98.80
	66.25	1.25	13.90	5.71	0.19	1.02	2.73	4.34	2.98	98.37
	65.03	1.14	13.83	6.19	0.21	1.10	3.18	4.34	2.70	97.71
	64.17	1.14	14.76	5.41	0.11	1.42	3.79	4.97	2.64	98.40
mean	*66.71*	*1.10*	*14.04*	*5.69*	*0.19*	*0.91*	*2.88*	*4.26*	*2.85*	*98.64*
s.d.	*1.17*	*0.09*	*0.30*	*0.38*	*0.04*	*0.34*	*0.37*	*0.35*	*0.11*	*0.71*
	47.34	4.34	12.65	13.81	0.26	5.00	9.52	3.03	0.91	96.87
	47.16	4.35	12.51	13.88	0.22	5.13	9.52	2.92	0.82	96.52
	46.69	4.51	12.58	14.66	0.22	5.27	9.93	2.90	0.72	97.48
	46.48	4.46	12.69	14.24	0.21	5.20	9.87	2.94	0.72	96.80
	46.35	4.54	12.69	14.57	0.20	5.29	10.03	3.01	0.68	97.36
	46.26	4.43	12.60	14.57	0.19	5.24	10.03	2.90	0.76	96.99
mean	*46.71*	*4.44*	*12.62*	*14.29*	*0.22*	*5.19*	*9.82*	*2.95*	*0.77*	*97.00*
s.d.	*0.45*	*0.08*	*0.07*	*0.37*	*0.02*	*0.11*	*0.24*	*0.06*	*0.08*	*0.36*

88-1: 9/8/01-3 T2 white tephra, North Þórsmörk

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
•	71.14	0.33	14.13	4.27	0.13	0.11	1.08	5.68	3.47	100.34
	70.51	0.33	14.04	4.07	0.12	0.13	0.92	6.13	3.62	99.87
	70.46	0.29	13.88	4.29	0.11	0.12	1.02	5.01	3.47	98.65
	70.42	0.32	14.03	4.23	0.08	0.14	1.06	5.38	3.39	99.04
	70.30	0.33	13.90	4.39	0.20	0.15	0.76	5.48	3.67	99.18
	69.92	0.33	14.01	4.63	0.17	0.14	1.16	5.26	3.51	99.13
	69.91	0.31	13.71	4.31	0.16	0.05	0.84	5.44	4.00	98.74
	69.90	0.31	13.93	4.51	0.15	0.23	1.10	4.97	3.51	98.59
	69.88	0.32	13.98	4.28	0.12	0.12	0.98	5.80	3.55	99.05
	69.85	0.34	13.86	4.43	0.16	0.10	0.92	5.09	3.85	98.59
	69.84	0.37	13.20	4.65	0.12	0.13	0.86	5.32	4.05	98.53
	69.40	0.31	14.13	4.89	0.20	0.17	1.39	5.96	3.27	99.71
	69.31	0.34	14.12	4.42	0.13	0.09	1.12	5.18	3.51	98.23
	68.98	0.36	13.29	5.06	0.23	0.21	1.82	5.12	3.79	98.86
•	65.44	0.30	13.10	3.90	0.12	0.10	0.78	4.24	3.53	91.51
mean	*69.90*	*0.33*	*13.85*	*4.47*	*0.15*	*0.14*	*1.07*	*5.39*	*3.63*	*98.94*
s.d.	*0.46*	*0.02*	*0.29*	*0.27*	*0.04*	*0.05*	*0.28*	*0.37*	*0.23*	*0.47*
•	54.90	0.54	5.25	18.22	0.79	3.83	14.86	2.47	0.90	101.75
	50.58	3.75	12.98	12.74	0.22	4.11	8.16	3.32	1.22	97.08
	46.75	4.35	12.55	14.42	0.25	4.83	9.36	3.14	0.83	96.48
	46.61	4.93	11.87	15.57	0.25	4.66	9.33	3.21	0.74	97.16
	46.32	4.55	12.60	14.45	0.25	5.06	9.61	3.03	0.74	96.60
	46.24	4.43	12.45	14.61	0.24	5.12	9.80	3.04	0.64	96.57
	46.21	4.44	12.47	14.62	0.21	5.10	9.72	3.10	0.71	96.58
	45.71	5.03	12.22	15.26	0.18	5.01	10.05	2.98	0.71	97.14
mean	*46.92*	*4.50*	*12.45*	*14.52*	*0.23*	*4.84*	*9.43*	*3.12*	*0.80*	*96.80*
s.d.	*1.65*	*0.42*	*0.34*	*0.90*	*0.03*	*0.36*	*0.61*	*0.12*	*0.19*	*0.31*

PROFILES 90-94

91-1: North Þórsmörk H 12/8/01-3

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.74	0.29	14.01	3.56	0.14	0.07	0.84	6.52	3.53	98.70
	69.54	0.33	14.02	4.67	0.18	0.18	1.18	5.54	3.35	98.98
	69.47	0.23	13.82	4.03	0.10	0.10	0.92	6.40	3.15	98.22
	69.46	0.31	13.96	4.48	0.15	0.16	1.05	6.89	3.02	99.49
	69.34	0.31	14.04	4.61	0.20	0.15	1.06	5.36	3.66	98.73
	69.33	0.36	13.85	4.34	0.15	0.10	0.89	4.77	3.89	97.69
	69.26	0.38	13.97	4.33	0.16	0.15	1.00	6.32	3.18	98.74
	69.19	0.33	13.66	4.24	0.13	0.13	0.90	5.88	3.40	97.85
	69.17	0.30	13.82	4.25	0.12	0.13	1.11	5.15	3.42	97.47
	69.09	0.35	14.07	4.39	0.18	0.18	1.21	6.22	3.44	99.13
	67.91	0.13	16.93	2.03	0.06	0.05	1.18	8.90	2.20	99.38
	64.54	1.09	13.64	5.89	0.22	1.00	2.96	4.68	2.61	96.64
mean	*68.84*	*0.37*	*14.15*	*4.24*	*0.15*	*0.20*	*1.19*	*6.05*	*3.24*	*98.42*
s.d.	*1.43*	*0.24*	*0.89*	*0.88*	*0.04*	*0.26*	*0.57*	*1.14*	*0.46*	*0.86*
	47.73	4.26	12.62	13.96	0.20	4.52	8.73	3.43	0.90	96.35
	47.55	4.36	12.77	14.23	0.19	4.97	9.48	3.01	0.75	97.29
	47.36	4.15	12.59	14.06	0.17	4.82	9.40	3.21	0.76	96.51
	47.05	4.49	12.69	14.16	0.15	4.69	9.25	3.30	0.82	96.60
	46.95	4.55	12.71	14.25	0.18	4.84	9.23	3.07	0.82	96.59
•	46.85	4.12	12.32	13.64	0.22	4.40	9.09	3.39	0.85	94.89
•	45.85	4.21	12.37	9.53	0.19	4.76	9.35	2.94	0.73	89.93
	45.67	4.03	12.99	14.48	0.19	5.08	9.56	3.29	0.73	96.01
mean	*47.05*	*4.31*	*12.73*	*14.19*	*0.18*	*4.82*	*9.27*	*3.22*	*0.80*	*96.56*
s.d.	*0.74*	*0.20*	*0.15*	*0.18*	*0.02*	*0.20*	*0.30*	*0.16*	*0.06*	*0.42*

91-2: North Þórsmörk Y 12/8/01-3

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	72.63	0.15	12.76	3.39	0.08	0.14	0.89	4.46	3.95	98.44
	68.44	0.89	13.66	5.09	0.14	0.68	2.39	4.53	2.96	98.78
	67.36	1.02	13.81	5.45	0.15	0.88	2.41	4.35	2.76	98.19
	66.34	1.32	13.99	5.97	0.15	1.02	3.07	4.18	2.81	98.84
	65.91	1.21	13.78	6.11	0.17	1.10	2.97	4.39	2.76	98.42
	65.84	1.18	13.91	5.37	0.10	0.93	2.77	3.76	2.66	96.52
	65.82	1.12	13.86	5.68	0.18	0.98	3.03	4.56	2.65	97.88
	65.81	1.15	14.14	6.00	0.16	1.06	2.97	3.90	2.57	97.76
	65.56	1.17	14.30	5.45	0.15	0.95	2.64	4.14	2.59	96.95
	65.42	1.18	14.02	6.37	0.20	1.10	3.21	4.41	2.46	98.37
	65.27	1.17	13.78	6.09	0.20	1.11	3.07	4.32	2.74	97.75
	65.24	1.03	13.99	6.31	0.16	1.02	2.84	4.33	2.78	97.69
mean	*66.09*	*1.13*	*13.93*	*5.81*	*0.16*	*0.99*	*2.85*	*4.26*	*2.70*	*97.92*
s.d.	*0.98*	*0.11*	*0.18*	*0.42*	*0.03*	*0.13*	*0.27*	*0.25*	*0.14*	*0.72*
	46.66	4.43	12.59	14.53	0.18	5.19	9.86	3.03	0.72	97.19
	46.65	4.41	12.42	14.53	0.24	4.93	9.46	3.18	0.76	96.57
	46.61	4.46	12.69	14.31	0.25	5.10	9.74	2.98	0.70	96.85
	46.54	4.51	12.60	14.40	0.25	5.17	9.80	3.05	0.70	97.02
	46.16	4.53	12.60	14.66	0.23	5.19	9.86	2.97	0.63	96.83
	45.92	4.44	12.52	14.44	0.19	5.17	9.78	2.86	0.71	96.03
mean	*46.43*	*4.46*	*12.57*	*14.48*	*0.22*	*5.12*	*9.75*	*3.01*	*0.70*	*96.75*
s.d.	*0.31*	*0.05*	*0.09*	*0.12*	*0.03*	*0.10*	*0.15*	*0.10*	*0.04*	*0.41*

92-8: AN 12/8/01-4A pol/yt

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.61	1.41	14.19	5.41	0.11	1.18	3.16	3.37	2.83	98.27
	66.49	1.25	14.33	4.86	0.17	1.16	3.10	4.26	2.79	98.41
	65.91	1.25	14.30	5.90	0.13	1.30	3.54	4.43	2.51	99.29
	65.75	1.32	13.93	5.75	0.24	1.28	3.16	4.13	2.85	98.42
	65.73	1.28	14.13	6.12	0.14	1.28	3.52	4.45	2.70	99.36
	65.47	1.19	14.06	5.89	0.15	1.30	3.58	4.42	2.52	98.59
	65.34	1.33	14.37	6.24	0.14	1.31	3.43	4.54	2.73	99.44
	65.20	1.18	14.43	5.74	0.16	1.32	3.26	4.21	2.87	98.38
	65.14	1.27	14.00	5.93	0.21	1.32	3.46	4.16	2.61	98.11
	65.10	1.34	14.04	6.29	0.20	1.26	3.54	4.29	2.63	98.71
	65.06	1.39	13.95	5.83	0.24	1.29	3.51	4.34	2.67	98.28
	65.02	1.33	14.17	6.32	0.16	1.20	3.45	4.02	2.75	98.44
	64.36	1.51	14.06	6.35	0.23	1.48	4.00	4.44	2.47	98.89
mean	*65.48*	*1.31*	*14.15*	*5.90*	*0.18*	*1.28*	*3.44*	*4.24*	*2.69*	*98.66*
s.d.	*0.62*	*0.09*	*0.16*	*0.41*	*0.04*	*0.08*	*0.24*	*0.30*	*0.13*	*0.45*

94-1: SLIDE 1: North Þórsmörk H4? 13/8/2001-3

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	68.99	0.95	13.83	5.17	0.14	0.76	2.32	4.39	3.10	99.65
	68.52	0.87	13.74	5.44	0.12	0.79	2.20	3.90	3.33	98.90
	67.99	1.03	13.90	5.08	0.13	0.80	2.57	4.05	3.08	98.62
	66.39	1.06	13.99	6.46	0.14	1.10	2.95	4.56	2.78	99.44
	66.38	1.05	13.98	5.99	0.14	0.99	2.71	4.40	2.73	98.38
	66.26	1.12	13.92	5.93	0.13	1.13	2.85	4.51	2.69	98.55
	66.13	1.16	13.90	5.93	0.13	1.14	2.92	4.53	2.73	98.56
	66.04	1.21	14.01	6.03	0.21	1.05	3.11	4.52	2.87	99.05
	66.00	1.23	14.10	6.07	0.15	1.10	3.08	4.48	3.03	99.24
	65.97	1.24	14.02	6.22	0.23	1.16	3.00	4.39	2.73	98.97
	65.86	1.14	13.79	6.50	0.22	1.10	3.07	4.05	2.74	98.46
	65.79	1.10	13.72	6.04	0.20	1.05	2.89	4.51	2.83	98.14
	65.75	1.27	13.93	6.11	0.21	1.09	2.86	4.45	2.65	98.32
mean	*66.62*	*1.11*	*13.91*	*5.92*	*0.17*	*1.02*	*2.81*	*4.36*	*2.87*	*98.79*
s.d.	*1.11*	*0.12*	*0.11*	*0.44*	*0.04*	*0.14*	*0.29*	*0.22*	*0.20*	*0.46*
	49.87	3.85	12.80	13.05	0.24	4.32	8.57	3.39	1.12	97.21
	48.50	4.12	12.69	13.59	0.24	4.56	9.05	3.21	1.02	96.97
	46.51	4.45	12.62	14.47	0.27	5.20	10.04	3.02	0.73	97.33
	46.43	4.54	12.60	14.43	0.19	5.15	10.22	2.88	0.71	97.15
	46.28	4.57	12.43	14.09	0.23	5.06	9.88	2.94	0.76	96.24
	46.08	4.51	12.55	14.65	0.25	5.18	9.83	3.14	0.70	96.89
mean	*47.28*	*4.34*	*12.61*	*14.05*	*0.24*	*4.91*	*9.60*	*3.10*	*0.84*	*96.96*
s.d.	*1.55*	*0.29*	*0.13*	*0.62*	*0.03*	*0.38*	*0.64*	*0.19*	*0.18*	*0.39*

94-2: 1383 CGR

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	58.76	1.34	14.85	9.89	0.23	1.88	5.26	3.50	1.63	97.34
	58.67	2.05	13.04	11.45	0.31	1.92	5.28	3.76	1.89	98.37
	58.31	1.48	14.61	9.93	0.25	1.98	5.31	4.07	1.44	97.36
	57.70	1.63	14.45	10.03	0.27	1.91	5.52	4.04	1.59	97.15
	• 57.25	1.15	16.23	8.43	0.19	1.57	6.07	4.66	1.18	96.75
	• 52.77	1.58	12.92	10.29	0.30	2.07	4.85	3.77	1.42	89.97
mean	*58.36*	*1.62*	*14.24*	*10.32*	*0.26*	*1.92*	*5.34*	*3.84*	*1.64*	*97.56*
s.d.	*0.48*	*0.30*	*0.81*	*0.75*	*0.04*	*0.04*	*0.12*	*0.26*	*0.18*	*0.55*
	47.41	4.75	12.22	14.77	0.28	4.81	9.33	3.19	0.74	97.50
	46.96	4.41	12.55	14.58	0.24	4.77	9.42	3.21	0.85	97.00
	46.76	4.78	12.55	14.53	0.24	4.77	9.39	3.14	0.79	96.95
	46.45	4.25	12.44	14.60	0.22	4.97	9.47	3.38	0.67	96.44
	46.44	2.25	15.29	11.02	0.20	7.82	11.75	2.36	0.34	97.46
	46.28	4.24	12.65	14.33	0.23	4.83	9.39	3.21	0.74	95.90
	46.06	2.90	14.85	13.46	0.20	6.63	10.19	2.80	0.45	97.54
	45.96	4.69	12.43	14.69	0.26	4.95	9.49	3.29	0.72	96.47
	45.76	4.61	12.51	14.49	0.29	5.25	9.74	3.04	0.67	96.35
	45.60	3.13	14.53	14.84	0.23	6.52	9.84	2.38	0.45	97.53
	45.60	3.00	13.97	13.79	0.21	6.35	9.97	2.86	0.48	96.24
	45.42	3.33	13.82	14.93	0.30	5.78	9.85	2.90	0.51	96.84
	45.23	3.28	13.99	14.46	0.23	5.81	10.11	2.87	0.47	96.46
mean	*46.15*	*3.82*	*13.37*	*14.19*	*0.24*	*5.64*	*9.84*	*2.97*	*0.61*	*96.82*
s.d.	*0.64*	*0.86*	*1.07*	*1.04*	*0.03*	*0.96*	*0.64*	*0.32*	*0.16*	*0.56*

PROFILES 95-99

99?-1: North Þórsmörk, Ljósá-14

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.90	1.28	13.52	5.85	0.28	1.15	3.05	3.73	3.04	97.79
	65.45	1.22	13.73	5.70	0.16	1.05	2.94	3.88	2.72	96.85
	65.36	1.26	13.42	5.79	0.19	1.16	2.92	4.36	2.68	97.14
	65.31	1.31	13.39	5.93	0.17	1.19	2.94	4.35	2.85	97.44
	65.18	1.32	13.39	5.96	0.17	1.12	2.90	4.35	2.74	97.13
	65.11	1.25	13.48	5.71	0.19	1.17	2.84	4.56	2.76	97.05
	64.95	1.30	13.33	5.58	0.26	1.16	2.89	4.07	2.82	96.36
	64.74	1.36	13.63	5.67	0.17	1.21	3.05	3.83	2.76	96.42
	64.67	1.32	13.42	5.93	0.18	1.22	3.06	4.15	2.62	96.59
	64.38	1.32	13.45	5.84	0.16	1.18	2.92	4.50	2.86	96.60
	64.24	1.52	13.40	5.95	0.12	1.25	3.23	4.28	2.88	96.88
	63.80	1.48	13.28	6.02	0.18	1.27	3.32	4.21	2.59	96.16
mean	*64.93*	*1.33*	*13.45*	*5.83*	*0.19*	*1.18*	*3.01*	*4.19*	*2.78*	*96.87*
s.d.	*0.59*	*0.09*	*0.12*	*0.14*	*0.04*	*0.06*	*0.15*	*0.26*	*0.12*	*0.47*

PROFILES 100-104

100-1: North Þórsmörk, Þröngá H

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.89	0.37	13.94	4.54	0.20	0.11	1.05	4.96	3.66	98.73
	69.48	0.36	13.96	3.97	0.12	0.08	0.89	4.98	3.81	97.65
	69.44	0.37	13.90	4.20	0.15	0.08	0.95	5.35	3.24	97.69
	69.04	0.26	13.95	4.37	0.17	0.12	0.99	5.23	3.72	97.84
	68.93	0.35	14.02	4.47	0.22	0.12	0.99	5.38	3.54	98.02
	68.91	0.29	13.91	4.47	0.15	0.12	1.16	4.83	3.42	97.28
	68.86	0.37	14.22	3.71	0.12	0.06	0.84	5.49	3.46	97.12
	68.61	0.36	14.27	4.35	0.11	0.08	1.14	5.96	3.29	98.17
	68.48	0.36	13.99	4.52	0.18	0.11	1.12	5.48	3.57	97.80
•	68.22	0.30	12.77	3.91	0.15	0.11	1.14	3.56	3.66	93.83
	66.47	0.05	19.51	0.23	0.01	0.94	0.00	9.58	2.06	98.84
	65.66	1.36	13.83	6.08	0.24	1.15	3.03	4.12	2.68	98.16
	63.95	1.39	14.07	7.01	0.19	1.32	3.50	4.42	2.53	98.39
mean	*68.14*	*0.49*	*14.46*	*4.33*	*0.15*	*0.36*	*1.31*	*5.48*	*3.25*	*97.97*
s.d.	*1.81*	*0.42*	*1.60*	*1.59*	*0.06*	*0.48*	*0.97*	*1.38*	*0.54*	*0.53*
	45.81	4.09	12.61	14.59	0.24	4.92	9.64	3.20	0.69	95.79
	45.63	4.44	12.46	14.16	0.26	5.16	9.94	2.92	0.76	95.73
	45.55	4.34	12.92	14.17	0.22	5.10	9.76	3.10	0.68	95.85
mean	*45.66*	*4.29*	*12.66*	*14.31*	*0.24*	*5.06*	*9.78*	*3.08*	*0.71*	*95.79*
s.d.	*0.13*	*0.18*	*0.23*	*0.24*	*0.02*	*0.12*	*0.15*	*0.14*	*0.04*	*0.06*

100-2: North Þórsmörk, Þröngá Y

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.55	1.00	13.79	5.26	0.19	0.77	2.56	3.92	2.89	97.94
	67.48	0.85	13.77	5.53	0.21	0.82	2.51	4.20	2.99	98.35
	67.25	0.95	13.84	5.17	0.18	0.82	2.56	4.24	2.93	97.93
	65.92	1.15	13.87	6.17	0.21	1.09	2.86	3.99	2.93	98.20
	65.76	1.22	13.91	5.70	0.16	1.02	2.95	4.50	2.83	98.04
	65.68	1.24	13.94	6.21	0.17	1.08	2.98	4.49	2.62	98.41
	65.53	1.01	14.01	6.44	0.28	1.09	3.04	4.13	2.85	98.38
	65.38	1.14	14.17	6.40	0.20	1.12	3.08	4.25	2.58	98.31
	65.07	1.08	13.81	6.19	0.22	1.11	2.94	4.51	2.54	97.48
	64.85	1.06	13.69	6.03	0.27	1.09	3.02	4.14	2.68	96.84
	64.57	1.14	13.74	6.25	0.24	1.15	3.20	4.11	2.71	97.11
	60.96	1.79	13.69	8.05	0.21	1.94	4.38	4.27	2.19	97.47
mean	*65.50*	*1.14*	*13.85*	*6.12*	*0.21*	*1.09*	*3.00*	*4.23*	*2.73*	*97.87*
s.d.	*1.75*	*0.23*	*0.14*	*0.74*	*0.04*	*0.30*	*0.49*	*0.19*	*0.23*	*0.53*
	48.89	4.24	12.66	13.35	0.22	4.54	8.92	3.25	0.97	97.05
	46.90	4.40	12.61	14.54	0.27	4.78	9.37	3.32	0.74	96.93
	46.85	4.35	12.43	14.23	0.19	5.07	9.80	3.08	0.78	96.78
	46.59	4.31	12.67	14.01	0.19	5.06	9.61	3.01	0.80	96.26
	45.93	4.42	12.50	14.49	0.23	5.07	9.66	3.04	0.69	96.01
	45.87	4.43	12.44	14.63	0.29	5.09	9.75	2.99	0.75	96.25
	45.80	4.64	12.56	14.46	0.23	4.99	9.85	3.01	0.67	96.22
mean	*46.69*	*4.40*	*12.55*	*14.25*	*0.23*	*4.94*	*9.57*	*3.10*	*0.77*	*96.50*
s.d.	*1.08*	*0.13*	*0.10*	*0.45*	*0.04*	*0.21*	*0.32*	*0.13*	*0.10*	*0.41*

100-3: North Þórsmörk, Þröngá UN

	SiO_2	TiO_2	l_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.81	1.30	14.06	6.31	0.20	1.30	3.74	6.26	0.63	99.61
	65.52	1.28	14.11	5.80	0.22	1.33	3.28	3.87	2.54	97.94
	65.48	1.49	13.96	6.63	0.19	1.49	3.64	4.01	2.51	99.41
	65.33	1.42	14.29	6.30	0.21	1.29	3.42	4.13	2.56	98.95
	65.21	1.30	14.10	6.44	0.20	1.42	3.41	3.87	2.61	98.54
	65.14	1.32	14.30	5.87	0.17	1.40	3.51	4.07	2.33	98.12
	65.14	1.47	13.85	6.13	0.27	1.40	3.15	3.79	2.58	97.78
	64.88	1.36	13.82	6.15	0.19	1.35	3.42	4.50	2.54	98.21
	64.84	1.42	14.28	6.15	0.23	1.32	3.46	4.26	2.62	98.59
	64.52	1.24	14.07	6.05	0.17	1.35	3.46	3.97	2.53	97.34
	64.51	1.36	13.70	6.34	0.18	1.36	3.49	4.60	2.57	98.12
	64.46	1.37	14.05	6.01	0.14	1.33	3.54	4.52	2.52	97.94
mean	*65.07*	*1.36*	*14.05*	*6.18*	*0.20*	*1.36*	*3.46*	*4.32*	*2.38*	*98.38*
s.d.	*0.44*	*0.08*	*0.19*	*0.24*	*0.03*	*0.06*	*0.15*	*0.67*	*0.56*	*0.67*
	46.93	4.44	12.69	14.83	0.21	5.01	9.60	3.07	0.72	97.49
	46.85	4.40	12.66	14.46	0.20	4.93	9.64	3.04	0.74	96.91
	46.57	4.39	12.76	14.19	0.25	4.91	9.53	3.14	0.77	96.52
	46.50	4.75	12.46	14.92	0.23	4.76	9.51	3.33	0.75	97.22
	46.06	4.78	12.49	14.78	0.23	5.24	10.65	2.87	0.68	97.77
	46.05	4.83	12.57	14.60	0.22	4.95	9.50	3.21	0.70	96.62
mean	*46.49*	*4.60*	*12.61*	*14.63*	*0.22*	*4.97*	*9.74*	*3.11*	*0.73*	*97.09*
s.d.	*0.38*	*0.21*	*0.12*	*0.27*	*0.02*	*0.16*	*0.45*	*0.16*	*0.03*	*0.49*

100-4: North Þórsmörk, Þröngá ST

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	63.91	0.91	15.55	6.31	0.16	1.20	4.22	4.43	1.74	98.42
	63.81	0.97	15.37	6.28	0.17	1.24	4.09	4.19	1.68	97.81
	63.43	0.99	15.42	6.77	0.25	1.35	4.55	4.28	1.60	98.64
	63.42	0.87	14.96	6.64	0.19	1.48	4.24	4.37	1.72	97.89
	63.42	0.90	15.36	6.69	0.20	1.27	4.39	4.13	1.66	98.02
	63.38	0.90	15.65	6.73	0.17	1.31	4.56	3.98	1.62	98.30
	63.34	0.91	15.17	7.01	0.22	1.50	4.63	4.30	1.60	98.67
	62.93	0.90	15.20	5.87	0.19	1.31	4.67	4.48	1.56	97.12
•	62.48	1.21	13.50	9.34	0.27	2.56	5.29	4.08	1.57	100.30
	61.18	1.07	15.19	7.43	0.18	1.59	4.78	4.30	1.58	97.31
mean	*63.20*	*0.94*	*15.32*	*6.64*	*0.19*	*1.36*	*4.46*	*4.27*	*1.64*	*98.02*
s.d.	*0.81*	*0.06*	*0.21*	*0.45*	*0.03*	*0.13*	*0.23*	*0.15*	*0.06*	*0.55*
	54.99	2.01	14.13	11.54	0.22	2.66	5.84	3.32	1.37	96.08
•	54.46	0.89	13.60	5.32	0.15	1.00	3.15	3.64	1.54	83.76
•	54.28	0.83	13.51	6.07	0.09	1.23	3.71	3.63	1.39	84.74
	47.51	4.18	12.68	13.97	0.28	4.67	8.96	3.39	0.89	96.52
	47.25	4.29	12.07	14.42	0.24	4.28	8.55	3.66	0.94	95.69
	46.73	4.48	12.63	13.99	0.24	5.04	9.40	3.22	0.80	96.53
	46.60	4.49	12.53	14.64	0.22	4.99	9.52	3.24	0.76	97.00
	46.50	4.56	12.58	14.52	0.25	4.84	9.57	3.25	0.75	96.81
	45.94	4.46	12.79	14.61	0.23	5.07	9.51	3.21	0.73	96.55
	45.75	4.29	12.70	14.27	0.22	5.35	9.94	3.01	0.66	96.19
mean	*46.61*	*4.39*	*12.57*	*14.35*	*0.24*	*4.89*	*9.35*	*3.28*	*0.79*	*96.47*
s.d.	*0.64*	*0.14*	*0.24*	*0.28*	*0.02*	*0.34*	*0.46*	*0.20*	*0.10*	*0.43*

101-1: 16/8/01-1 T1? Pale

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.78	1.03	13.82	4.96	0.19	0.87	2.45	4.32	2.86	98.28
	67.56	1.15	14.07	5.21	0.21	0.99	2.68	4.20	2.86	98.93
	67.43	1.27	13.91	5.67	0.21	1.06	2.87	4.25	2.65	99.31
●	67.37	1.26	14.16	6.01	0.20	1.15	3.07	4.05	2.77	100.04
	67.30	1.29	13.95	5.71	0.20	1.10	3.04	4.46	2.82	99.86
	66.97	1.15	13.83	5.36	0.21	0.96	2.66	4.34	2.95	98.43
	66.80	1.24	13.98	5.48	0.19	1.08	2.98	4.33	2.95	99.04
	66.78	1.12	13.92	5.42	0.19	1.07	2.94	4.35	2.90	98.69
	66.56	1.15	14.03	5.47	0.19	1.11	2.91	4.11	2.73	98.27
	66.46	1.23	13.94	5.57	0.18	1.08	2.94	4.29	2.59	98.28
	66.39	1.25	14.11	5.71	0.26	1.16	2.88	4.40	2.61	98.78
	66.31	1.17	14.07	5.46	0.17	1.10	2.94	4.57	2.87	98.65
	66.10	1.24	13.95	5.68	0.24	1.08	2.93	4.50	2.77	98.49
mean	*66.87*	*1.19*	*13.96*	*5.47*	*0.20*	*1.05*	*2.85*	*4.34*	*2.80*	*98.75*
s.d.	*0.54*	*0.08*	*0.09*	*0.22*	*0.03*	*0.08*	*0.17*	*0.13*	*0.13*	*0.48*

101-2: 16/8/01-1 T1 blue?

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.14	0.45	15.04	5.83	0.14	0.53	3.33	4.08	2.32	98.86
	64.22	0.69	15.09	7.70	0.21	0.83	4.01	4.88	1.53	99.17
	63.93	0.73	14.71	8.31	0.21	0.98	4.08	4.95	1.76	99.67
	62.77	0.78	17.12	6.41	0.14	0.52	4.92	5.24	1.47	99.36
	62.59	0.79	14.83	9.05	0.23	1.17	4.44	4.61	1.59	99.30
●	61.94	0.99	14.81	11.59	0.35	1.63	4.54	5.00	1.50	102.34
●	61.32	0.64	16.83	9.04	0.27	1.54	5.63	5.05	1.00	101.32
mean	*64.13*	*0.69*	*15.36*	*7.46*	*0.19*	*0.81*	*4.16*	*4.75*	*1.73*	*99.27*
s.d.	*1.82*	*0.14*	*0.99*	*1.33*	*0.04*	*0.28*	*0.58*	*0.44*	*0.34*	*0.29*
	49.18	3.90	12.86	13.43	0.25	4.27	8.73	3.39	0.98	97.00
	49.04	3.89	12.66	13.73	0.25	4.19	8.75	3.36	1.02	96.89
	48.91	3.95	12.83	13.68	0.25	4.18	8.65	3.38	0.99	96.83
	48.65	4.30	12.77	14.35	0.26	4.26	9.05	3.39	1.07	98.10
	48.41	4.34	12.84	14.20	0.21	4.43	8.82	3.31	0.91	97.46
	47.96	4.29	12.48	14.23	0.21	4.37	8.88	3.30	0.97	96.69
	47.15	3.04	14.97	14.29	0.20	6.63	11.07	1.75	0.45	99.55
●	46.81	2.45	15.81	12.67	0.21	7.36	11.09	2.16	0.46	99.03
	46.44	4.19	12.72	14.18	0.22	5.39	10.75	3.00	0.57	97.46
●	45.97	2.45	15.53	12.40	0.19	7.42	10.73	2.61	0.44	97.74
	45.97	4.76	12.70	14.87	0.24	5.14	9.84	3.04	0.63	97.18
	45.48	5.06	12.20	14.84	0.27	5.07	10.10	2.88	0.71	96.61
mean	*47.72*	*4.17*	*12.90*	*14.18*	*0.24*	*4.79*	*9.46*	*3.08*	*0.83*	*97.38*
s.d.	*1.36*	*0.54*	*0.75*	*0.47*	*0.02*	*0.78*	*0.91*	*0.50*	*0.22*	*0.88*

102-1: Njál A

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.25	0.82	13.96	4.22	0.12	0.71	1.84	4.51	3.15	98.57
●	66.91	0.38	12.88	3.91	0.10	0.25	1.33	4.00	3.52	93.27
	58.04	1.94	14.29	8.49	0.10	2.44	5.49	3.49	2.13	96.42
	47.46	4.43	12.65	14.34	0.16	4.79	9.02	3.27	0.84	96.96
	47.13	4.46	12.53	14.35	0.17	4.90	9.25	3.13	0.79	96.72
	46.92	4.57	12.43	14.32	0.22	4.92	9.15	3.10	0.81	96.44
	46.85	4.45	12.10	14.79	0.24	4.52	9.00	3.25	0.87	96.05
	46.79	4.78	12.62	14.41	0.21	4.74	9.30	3.21	0.78	96.85
	46.78	4.56	12.77	14.44	0.21	4.81	9.23	3.18	0.83	96.81
	46.77	4.61	12.30	14.32	0.21	4.80	9.44	3.10	0.77	96.32
	46.68	4.49	12.38	14.46	0.20	4.76	9.21	3.15	0.77	96.11
	46.55	4.45	12.45	14.53	0.21	4.79	9.37	3.02	0.78	96.15
	46.46	4.41	12.35	14.08	0.23	4.80	9.33	3.13	0.72	95.50
mean	*46.84*	*4.52*	*12.46*	*14.41*	*0.21*	*4.78*	*9.23*	*3.15*	*0.79*	*96.39*
s.d.	*0.29*	*0.11*	*0.19*	*0.18*	*0.02*	*0.11*	*0.14*	*0.07*	*0.04*	*0.46*

102-2: Njál D

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	72.07	0.36	13.61	4.17	0.15	0.00	1.28	4.75	3.68	100.06
	71.85	0.33	13.73	3.82	0.14	0.23	1.24	4.32	3.42	99.07
	70.40	0.36	12.27	4.44	0.18	0.22	1.08	4.52	3.93	97.39
	69.71	0.34	13.63	3.98	0.12	0.25	1.50	4.85	3.46	97.85
	69.66	0.36	13.04	4.07	0.12	0.13	1.28	4.60	3.79	97.04
	68.11	0.13	14.58	2.79	0.04	0.10	1.34	6.42	2.87	96.37
	67.14	0.95	13.79	5.26	0.13	0.88	2.52	4.17	2.79	97.62
	64.77	1.20	13.78	6.04	0.22	1.13	2.97	4.51	2.72	97.34
	64.02	1.28	14.09	6.62	0.23	1.25	3.53	4.32	2.55	97.88
mean	*68.21*	*0.62*	*13.62*	*4.62*	*0.15*	*0.52*	*1.93*	*4.71*	*3.19*	*97.57*
s.d.	*2.75*	*0.45*	*0.69*	*1.26*	*0.06*	*0.48*	*0.94*	*0.72*	*0.53*	*0.78*
	47.32	4.00	12.75	14.06	0.28	4.69	9.47	3.10	0.73	96.40
	47.25	4.49	12.77	13.90	0.26	4.71	8.99	3.19	0.80	96.36
	46.85	4.20	12.73	14.34	0.25	4.76	9.37	3.45	0.77	96.70
	46.35	4.54	12.46	14.41	0.27	4.89	9.39	3.09	0.77	96.18
	46.33	4.33	12.53	14.49	0.24	4.87	9.41	3.06	0.66	95.92
	46.27	4.96	11.86	15.74	0.26	4.49	9.21	3.24	0.73	96.77
	44.29	4.09	12.34	13.39	0.23	4.85	9.32	3.21	0.64	92.36
mean	*46.73*	*4.42*	*12.52*	*14.49*	*0.26*	*4.74*	*9.31*	*3.19*	*0.74*	*96.39*
s.d.	*0.48*	*0.33*	*0.35*	*0.65*	*0.01*	*0.14*	*0.18*	*0.15*	*0.05*	*0.32*

102-3: NjálE

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	72.71	0.33	13.30	3.62	0.17	0.15	0.89	5.11	3.46	99.75
	68.99	0.32	13.42	4.23	0.13	0.20	1.42	4.62	3.56	96.89
	68.91	0.26	12.83	3.63	0.14	0.11	1.14	4.07	3.84	94.94
	68.83	0.33	12.93	3.42	0.07	0.13	1.15	4.70	3.73	95.27
	68.35	0.33	12.96	3.85	0.14	0.13	1.12	4.67	3.47	95.02
	68.26	0.31	12.95	3.73	0.11	0.14	1.27	4.36	3.61	94.73
	67.96	1.10	13.96	5.31	0.22	0.84	2.49	3.94	2.72	98.54
	67.09	1.00	13.97	5.55	0.19	0.90	2.60	4.35	2.90	98.56
	67.07	1.03	13.67	5.60	0.21	0.93	2.43	3.96	2.82	97.70
	66.65	1.03	13.59	5.59	0.18	0.86	2.50	4.17	2.87	97.43
	64.84	1.31	13.82	6.38	0.21	1.24	3.19	4.10	2.42	97.51
	64.08	1.56	13.92	6.42	0.14	1.39	3.25	4.54	2.73	98.03
	63.66	0.10	9.62	0.68	0.02	0.00	2.94	1.49	1.44	79.95
mean	*67.66*	*0.83*	*13.55*	*5.00*	*0.17*	*0.68*	*2.10*	*4.42*	*3.07*	*97.47*
s.d.	*2.40*	*0.47*	*0.39*	*1.12*	*0.05*	*0.48*	*0.88*	*0.38*	*0.45*	*1.45*
	46.63	4.41	12.48	14.51	0.22	4.78	9.33	3.21	0.79	96.35
	46.60	4.45	12.54	14.46	0.21	5.00	9.42	3.14	0.77	96.58
	46.54	4.57	12.49	14.52	0.25	4.81	9.42	2.95	0.78	96.33
	46.42	4.43	12.46	14.59	0.22	4.88	9.31	2.96	0.76	96.03
	46.19	4.42	12.47	14.85	0.19	4.77	9.57	3.01	0.75	96.22
	45.75	4.81	12.07	15.01	0.29	4.91	9.44	2.94	0.73	95.95
mean	*46.35*	*4.52*	*12.42*	*14.66*	*0.23*	*4.86*	*9.41*	*3.03*	*0.76*	*96.24*
s.d.	*0.33*	*0.16*	*0.17*	*0.22*	*0.04*	*0.09*	*0.09*	*0.11*	*0.02*	*0.23*

PROFILES 105-109

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PROFILES 110-114

112-1: ENT 35 B

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	48.36	2.72	12.68	13.05	0.19	5.68	10.03	2.76	0.43	95.89
	47.32	3.83	12.87	13.55	0.21	4.51	8.62	3.43	0.98	95.32
	46.76	4.53	12.65	14.47	0.28	4.82	9.25	3.31	0.77	96.84
	46.46	4.66	12.43	14.50	0.26	4.90	9.24	3.22	0.74	96.41
	46.20	4.06	12.73	14.24	0.22	5.00	9.44	3.11	0.72	95.71
	46.18	4.70	12.42	14.84	0.26	4.96	9.48	3.15	0.76	96.74
	46.18	4.46	12.65	14.36	0.23	5.08	9.69	3.13	0.72	96.50
	45.95	4.59	12.38	14.27	0.23	4.95	9.32	3.24	0.69	95.61
	45.95	4.68	12.47	14.63	0.24	5.02	9.34	3.26	0.65	96.25
	45.88	4.62	12.35	14.23	0.22	4.99	9.17	3.13	0.72	95.29
•	45.80	4.45	12.52	13.30	0.27	4.92	9.50	3.19	0.66	94.62
	45.65	4.49	12.51	14.61	0.22	5.24	9.57	2.97	0.73	95.98
	45.64	4.60	12.44	14.62	0.26	5.03	9.17	3.14	0.74	95.65
mean	*46.38*	*4.33*	*12.55*	*14.28*	*0.23*	*5.01*	*9.36*	*3.15*	*0.72*	*96.02*
s.d.	*0.78*	*0.57*	*0.16*	*0.50*	*0.03*	*0.27*	*0.34*	*0.17*	*0.12*	*0.53*

PROFILES 115-151

115-1: 7:30 A

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.98	0.98	13.80	5.55	0.21	0.83	2.59	4.39	3.09	98.43
	66.81	1.14	13.90	5.74	0.19	0.89	2.67	4.70	3.12	99.16
	66.48	1.22	14.06	6.40	0.22	1.07	2.89	3.52	2.81	98.66
	66.29	1.05	13.73	5.89	0.14	0.92	2.66	4.38	2.83	97.90
	66.08	1.11	13.92	5.80	0.18	0.94	2.80	4.08	2.81	97.73
	65.62	1.20	14.07	5.57	0.11	1.00	2.80	4.51	2.92	97.79
	65.28	1.16	13.79	5.76	0.13	0.98	2.84	4.16	2.69	96.79
	65.24	0.87	13.89	5.31	0.17	0.68	2.10	4.23	2.97	95.46
	65.08	1.15	13.91	5.75	0.16	1.09	2.86	4.54	2.71	97.24
	64.68	1.18	13.78	6.02	0.23	1.11	2.98	4.50	2.71	97.20
	64.19	1.22	13.85	6.19	0.21	1.12	3.05	4.28	2.73	96.85
	60.84	1.66	13.69	7.61	0.18	1.44	3.88	4.77	2.19	96.26
mean	*65.30*	*1.16*	*13.87*	*5.97*	*0.18*	*1.01*	*2.84*	*4.34*	*2.80*	*97.46*
s.d.	*1.65*	*0.19*	*0.12*	*0.59*	*0.04*	*0.19*	*0.41*	*0.33*	*0.24*	*1.05*
	47.52	4.05	12.66	13.97	0.20	4.37	8.85	3.31	0.93	95.87
	46.94	3.88	12.62	13.94	0.20	4.86	9.54	3.12	0.73	95.84
	46.71	4.36	12.52	14.52	0.27	4.69	9.23	3.19	0.86	96.35
	46.65	4.24	12.51	14.03	0.24	4.90	9.25	3.04	0.80	95.68
	46.29	4.55	11.88	14.86	0.24	4.65	9.64	3.07	0.82	95.99
	45.90	4.11	12.54	14.68	0.24	5.05	9.41	3.28	0.71	95.93
	45.38	4.39	12.66	14.48	0.22	5.20	9.82	2.83	0.74	95.72
mean	*46.48*	*4.23*	*12.48*	*14.36*	*0.23*	*4.82*	*9.39*	*3.12*	*0.80*	*95.91*
s.d.	*0.70*	*0.23*	*0.27*	*0.37*	*0.02*	*0.27*	*0.32*	*0.17*	*0.08*	*0.22*

115-2: 7:30 B Botn

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.84	1.05	14.00	5.34	0.13	0.87	2.48	4.40	3.03	98.14
	66.01	1.14	13.97	5.77	0.18	0.92	2.59	4.38	2.87	97.84
	65.99	1.18	14.09	5.49	0.18	0.93	2.62	4.48	2.92	97.88
	65.82	1.18	14.05	5.71	0.14	1.04	2.76	4.68	2.85	98.23
	65.35	1.13	14.05	6.22	0.19	1.08	2.96	4.59	2.67	98.24
	65.19	1.14	13.88	5.66	0.15	1.02	3.05	5.02	2.56	97.67
	65.10	1.21	14.27	6.34	0.16	1.19	3.07	3.46	2.52	97.32
	65.03	1.24	13.91	5.75	0.14	1.01	3.04	4.72	2.76	97.61
	64.82	1.17	14.04	6.07	0.17	1.10	2.91	4.75	2.64	97.66
	64.76	1.29	14.10	5.89	0.15	1.04	3.14	4.78	2.72	97.86
	64.75	1.17	13.90	5.95	0.22	1.08	2.88	4.58	2.67	97.19
	64.70	1.05	13.49	5.43	0.14	0.93	2.72	4.69	2.81	95.96
	64.65	1.24	13.86	6.01	0.15	1.14	3.00	4.46	2.53	97.05
	64.36	1.25	13.75	6.40	0.16	1.13	3.12	4.67	2.67	97.50
mean	*65.24*	*1.18*	*13.95*	*5.86*	*0.16*	*1.03*	*2.88*	*4.55*	*2.73*	*97.58*
s.d.	*0.69*	*0.07*	*0.18*	*0.33*	*0.02*	*0.09*	*0.21*	*0.36*	*0.15*	*0.59*
	49.37	3.89	12.84	12.77	0.23	4.45	8.63	3.33	1.07	96.58
	47.32	4.31	14.73	13.92	0.21	4.85	9.27	3.15	0.80	96.57
	47.19	4.33	12.47	13.54	0.22	5.87	10.12	3.21	0.88	97.81
	46.17	4.34	12.61	14.29	0.18	5.03	9.74	3.13	0.76	96.26
	45.60	4.68	12.63	14.54	0.24	5.23	9.74	2.98	0.71	96.35
mean	*47.13*	*4.31*	*13.05*	*13.81*	*0.22*	*5.08*	*9.50*	*3.16*	*0.84*	*96.71*
s.d.	*1.44*	*0.28*	*0.94*	*0.70*	*0.02*	*0.52*	*0.57*	*0.13*	*0.14*	*0.63*

129-1: 10/9/01-1 J H4 Kanastaðir reference profile

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	72.56	0.04	12.35	1.94	0.09	0.07	1.66	4.67	2.80	96.19
	59.83	1.43	12.74	9.65	0.30	1.63	4.60	4.43	1.97	96.58
	58.80	1.61	13.14	10.08	0.33	1.91	5.00	4.14	1.81	96.81
	58.56	1.47	13.47	9.69	0.27	1.81	5.07	4.26	1.81	96.41
	58.35	1.72	13.23	10.96	0.27	2.15	5.30	3.52	1.74	97.22
	58.04	1.51	14.00	9.93	0.26	2.08	5.20	4.40	1.61	97.03
	57.79	1.51	13.98	9.49	0.20	2.17	5.26	4.14	1.50	96.03
	57.67	1.11	16.22	8.51	0.24	1.80	6.17	5.33	1.28	98.31
	57.58	1.45	14.71	9.45	0.20	2.48	5.64	4.07	1.41	96.98
	57.29	1.45	14.63	9.52	0.24	2.37	5.82	4.36	1.42	97.09
	57.27	1.44	14.71	9.08	0.25	2.19	5.71	4.41	1.40	96.46
	56.97	1.45	14.66	9.57	0.26	2.46	5.77	4.09	1.35	96.56
	56.89	1.45	14.34	9.48	0.23	2.35	5.52	4.13	1.40	95.79
	56.70	1.19	16.83	7.70	0.22	1.90	6.57	5.42	0.98	97.51
mean	*57.83*	*1.44*	*14.36*	*9.47*	*0.25*	*2.10*	*5.51*	*4.36*	*1.51*	*96.83*
s.d.	*0.88*	*0.16*	*1.17*	*0.77*	*0.04*	*0.27*	*0.52*	*0.51*	*0.27*	*0.65*
	47.15	3.73	13.59	13.44	0.26	6.22	11.27	2.91	0.59	99.15

129-2: 10/9/01-1 L H4? Kanastaðir reference profile, only analyses with total >95%

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	73.88	0.07	13.25	1.86	0.06	0.02	1.33	5.26	2.87	98.60
	73.42	0.05	13.15	1.83	0.07	0.03	1.24	5.02	2.71	97.51
	73.37	0.06	12.98	1.73	0.05	0.01	1.33	4.99	2.80	97.32
	72.77	0.07	13.01	1.92	0.09	0.05	1.32	5.02	2.89	97.13
	72.64	0.06	13.12	1.83	0.06	0.05	1.34	5.12	2.91	97.13
	72.29	0.10	12.98	1.81	0.10	0.02	1.30	4.53	2.79	95.91
	72.19	0.05	13.02	1.81	0.07	0.04	1.25	4.82	2.86	96.12
	72.10	0.06	13.00	1.80	0.06	0.01	1.25	4.84	2.84	95.95
	71.92	0.07	12.84	1.65	0.03	0.04	1.29	4.90	2.75	95.48
	71.42	0.08	12.82	1.87	0.06	0.01	1.25	4.97	2.75	95.22
	71.27	0.07	13.13	1.69	0.04	0.03	1.20	5.27	2.74	95.43
mean	*72.48*	*0.07*	*13.03*	*1.80*	*0.06*	*0.03*	*1.28*	*4.98*	*2.81*	*96.53*
s.d.	*0.83*	*0.01*	*0.13*	*0.08*	*0.02*	*0.02*	*0.05*	*0.21*	*0.07*	*1.07*
	64.15	1.26	14.09	5.42	0.12	1.52	3.41	4.49	2.64	97.10
	62.18	1.00	15.77	7.38	0.19	1.06	4.78	5.67	1.49	99.52
	60.84	1.01	15.04	9.06	0.20	1.28	4.66	5.48	1.48	99.05
	60.42	1.59	13.67	10.02	0.27	1.71	4.53	5.06	1.77	99.03
	58.45	1.47	15.09	8.57	0.24	1.45	5.68	5.34	1.43	97.70
mean	*61.21*	*1.27*	*14.73*	*8.09*	*0.20*	*1.40*	*4.61*	*5.21*	*1.76*	*98.48*
s.d.	*2.12*	*0.27*	*0.85*	*1.77*	*0.05*	*0.25*	*0.81*	*0.46*	*0.51*	*1.03*

146-1: 18/7/02-1 Lambafellsheiði T11 Layer H

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	68.55	0.30	13.90	4.07	0.15	0.17	1.29	6.73	3.10	98.26
	68.53	0.32	14.08	4.32	0.20	0.18	1.33	5.80	3.47	98.25
	68.53	0.32	14.18	3.96	0.17	0.13	1.13	5.62	3.63	97.66
	68.50	0.32	14.08	4.16	0.14	0.18	1.12	4.93	3.55	96.98
	68.42	0.33	14.22	4.22	0.18	0.15	1.15	5.63	3.53	97.83
	68.40	0.31	14.06	4.11	0.19	0.15	1.12	4.95	3.40	96.67
	68.34	0.32	14.18	4.09	0.14	0.16	1.14	5.52	3.46	97.36
	67.98	0.34	13.88	4.15	0.19	0.18	1.09	5.51	3.70	97.00
	67.89	0.34	14.04	4.34	0.23	0.19	1.32	4.77	3.38	96.49
	67.74	0.29	14.13	4.10	0.19	0.16	1.19	5.55	3.50	96.84
	67.72	0.27	14.04	4.17	0.17	0.18	1.10	5.02	3.47	96.13
	67.53	0.27	14.29	3.78	0.12	0.11	1.01	6.63	3.23	96.97
	66.74	0.33	13.74	4.30	0.17	0.19	1.23	5.47	3.37	95.54
•	66.53	0.14	17.26	2.61	0.13	0.12	2.02	9.34	1.74	99.89
mean	*68.07*	*0.31*	*14.06*	*4.14*	*0.17*	*0.16*	*1.17*	*5.55*	*3.44*	*97.08*
s.d.	*0.54*	*0.02*	*0.15*	*0.15*	*0.03*	*0.02*	*0.10*	*0.60*	*0.16*	*0.80*

156-1: 23/7/02 Tröllagjá 1 (analysed using small raster)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.14	1.00	14.14	5.06	0.15	0.85	2.57	4.29	2.94	97.13
	66.12	1.01	13.97	4.86	0.20	0.85	2.47	3.84	2.86	96.17
	65.43	1.19	14.33	5.71	0.19	1.13	2.91	4.03	2.69	97.60
	65.38	1.02	14.18	5.04	0.18	0.81	2.45	3.96	2.92	95.95
	64.96	1.16	14.31	5.66	0.19	1.17	2.98	3.99	2.74	97.14
	64.73	1.19	14.16	5.85	0.22	1.19	3.15	3.95	2.74	97.18
	64.60	1.20	14.17	5.87	0.20	1.14	3.06	4.32	2.71	97.25
	64.55	1.16	14.18	5.80	0.21	1.16	3.03	4.23	2.65	96.96
	64.49	1.17	13.99	5.72	0.19	1.10	3.09	4.25	2.68	96.67
	64.30	1.22	13.91	5.69	0.25	1.17	2.99	4.13	2.64	96.29
	64.24	1.25	14.34	5.65	0.22	1.14	3.02	4.21	2.63	96.70
	64.21	1.16	13.93	5.73	0.23	1.14	3.07	3.64	2.72	95.84
	64.02	1.18	14.24	5.66	0.19	1.05	2.88	4.29	2.74	96.27
	64.01	1.15	13.91	5.76	0.26	1.15	3.10	4.23	2.62	96.19
mean	*64.80*	*1.15*	*14.13*	*5.57*	*0.20*	*1.07*	*2.91*	*4.10*	*2.73*	*96.67*
s.d.	0.71	0.08	0.16	0.33	0.03	0.13	0.24	0.20	0.10	0.55
	48.22	4.08	13.03	12.95	0.26	4.75	9.17	3.32	0.96	96.74
	47.20	4.49	12.91	13.76	0.28	4.93	9.35	3.30	0.85	97.06
	46.50	4.54	13.08	13.70	0.20	5.26	9.97	3.14	0.68	97.08
	46.15	4.53	13.07	13.57	0.20	5.26	9.89	3.08	0.72	96.45
mean	*47.02*	*4.41*	*13.02*	*13.50*	*0.23*	*5.05*	*9.59*	*3.21*	*0.80*	*96.83*
s.d.	*0.92*	*0.22*	*0.08*	*0.37*	*0.04*	*0.25*	*0.39*	*0.12*	*0.13*	*0.30*

156-2: 23/7/02 Tröllagjá Diamict Matix (analysed using large raster)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.54	4.04	12.65	13.30	0.21	4.66	9.50	3.46	0.90	96.26
	47.38	4.06	12.35	13.24	0.25	4.91	9.23	3.36	0.86	95.64
	47.33	4.37	13.14	13.53	0.24	4.88	9.32	3.41	0.85	97.08
	46.92	4.35	12.88	13.98	0.21	4.95	9.26	3.35	0.80	96.70
	46.63	4.39	12.95	14.02	0.26	5.12	9.73	3.23	0.75	97.08
	46.40	4.24	12.66	13.66	0.26	5.37	9.76	3.09	0.75	96.18
	46.30	4.47	12.87	14.03	0.25	5.26	10.02	3.07	0.72	97.00
	46.12	4.43	12.97	13.89	0.22	5.38	9.87	3.05	0.67	96.61
	45.94	4.54	13.00	13.80	0.23	5.24	10.05	2.99	0.76	96.53
	45.93	4.49	12.60	13.90	0.24	5.48	9.85	3.16	0.69	96.34
	45.84	4.40	12.63	13.56	0.19	5.30	9.91	3.09	0.71	95.63
	45.82	4.43	12.38	14.00	0.21	5.25	9.78	3.04	0.72	95.63
mean	*46.51*	*4.35*	*12.76*	*13.74*	*0.23*	*5.15*	*9.69*	*3.19*	*0.76*	*96.39*
s.d.	*0.64*	*0.16*	*0.25*	*0.28*	*0.02*	*0.25*	*0.29*	*0.16*	*0.07*	*0.55*

SAMPLES NOT ASSOCIATED WITH PROFILES

N/A-1: SKS 6/10 Skógasandur tephra, Andy's campsite 6/10/1999

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.34	4.37	12.31	14.18	0.18	4.44	9.01	3.13	0.90	95.86
	47.32	4.18	12.31	14.16	0.22	4.53	9.24	3.11	0.93	96.00
	47.26	4.43	12.55	14.01	0.21	4.58	9.99	3.12	0.84	96.99
	47.13	4.47	12.60	14.14	0.22	4.56	9.38	3.13	0.93	96.56
	47.12	4.29	11.97	14.88	0.21	4.59	9.36	3.15	0.86	96.43
	47.07	4.31	12.42	14.18	0.19	4.64	9.50	3.23	0.84	96.38
	47.06	4.36	12.41	14.38	0.20	4.61	9.68	3.02	0.90	96.62
	46.90	4.53	12.62	14.08	0.19	4.64	9.34	3.23	0.84	96.37
	46.83	4.42	12.40	14.34	0.17	4.66	9.63	3.25	0.89	96.59
	46.79	4.60	12.36	14.33	0.22	4.62	9.39	3.23	0.88	96.42
	46.64	4.49	12.42	14.34	0.20	4.58	9.41	3.17	0.84	96.09
	46.57	4.49	12.46	13.81	0.18	4.56	9.34	3.16	0.83	95.40
	45.83	4.63	12.25	14.44	0.19	4.50	9.57	3.19	0.97	95.57
mean	*46.91*	*4.43*	*12.39*	*14.25*	*0.20*	*4.58*	*9.45*	*3.16*	*0.88*	*96.25*
s.d.	*0.41*	*0.13*	*0.17*	*0.26*	*0.02*	*0.06*	*0.24*	*0.06*	*0.04*	*0.45*

N/A-2: EMS 5/10 Emstrur, in front of moraines, 5/10/1999

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	67.76	1	12.98	6	0.13	0.57	2.1	4.05	3.24	97.83
(b)	46.96	4.55	12.30	14.12	0.19	4.63	9.54	3.24	0.89	96.42
	46.87	4.49	12.61	14.32	0.19	4.78	9.51	3.23	0.76	96.76
	46.81	4.66	12.64	14.65	0.21	4.89	9.55	3.16	0.72	97.29
	46.71	4.55	12.51	14.65	0.18	4.86	9.51	3.24	0.81	97.02
	46.68	4.62	12.39	14.44	0.16	4.85	9.53	3.08	0.76	96.51
	46.66	4.67	12.51	14.62	0.21	5.11	9.74	3.01	0.75	97.28
	46.63	4.53	12.46	14.59	0.19	4.84	9.48	3.19	0.88	96.79
	46.59	4.65	12.35	14.46	0.18	4.81	9.64	3.16	0.79	96.63
	46.49	4.76	12.22	15.09	0.17	4.79	9.65	3.04	0.72	96.93
	46.46	4.63	12.58	14.57	0.18	5.08	10.05	2.91	0.72	97.18
	46.14	4.67	12.52	14.85	0.22	4.89	9.48	3.13	0.78	96.68
	46.14	4.62	12.56	14.40	0.16	5.09	9.83	3.05	0.71	96.56
mean	*46.60*	*4.62*	*12.47*	*14.56*	*0.19*	*4.89*	*9.63*	*3.12*	*0.77*	*96.84*
s.d.	*0.26*	*0.07*	*0.13*	*0.25*	*0.02*	*0.14*	*0.17*	*0.10*	*0.06*	*0.30*

N/A-3: SHS610, Sólheimasandur tephra, just outside LIA moraines, 6/10/1999

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.73	4.33	12.60	14.23	0.23	4.76	9.06	3.27	0.81	96.02
	46.65	4.39	12.31	14.81	0.23	5.03	9.72	3.03	0.69	96.86
	46.45	4.39	12.11	14.34	0.22	5.01	9.91	3.05	0.64	96.12
	46.44	4.68	11.93	14.51	0.22	4.60	9.89	3.22	0.77	96.26
	46.40	4.68	12.29	14.31	0.30	4.83	9.48	3.06	0.61	95.96
	46.24	4.69	11.79	14.75	0.25	4.65	9.51	3.03	0.78	95.69
	46.17	4.73	12.36	14.41	0.22	4.95	9.62	2.99	0.66	96.11
	46.12	4.20	12.15	14.35	0.23	4.88	9.55	3.11	0.66	95.25
	46.04	4.62	12.07	14.41	0.20	4.91	9.74	3.06	0.67	95.72
	45.91	4.46	12.24	14.65	0.24	4.94	9.42	3.02	0.63	95.51
	45.88	4.39	12.23	14.70	0.20	4.93	9.70	2.98	0.62	95.63
	45.74	4.49	12.35	14.71	0.35	4.73	9.64	3.04	0.69	95.74
	45.71	4.42	12.39	14.59	0.21	4.93	9.40	3.13	0.68	95.46
mean	*46.19*	*4.50*	*12.22*	*14.52*	*0.24*	*4.86*	*9.59*	*3.08*	*0.69*	*95.87*
s.d.	*0.33*	*0.17*	*0.21*	*0.19*	*0.04*	*0.13*	*0.23*	*0.09*	*0.06*	*0.42*

N/A-4: EMS 410, Emstrur near huts, 4/10/1999

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	70.87	0.27	13.27	3.99	0.17	0.25	1.40	4.20	3.90	98.32
	70.37	0.33	13.08	3.93	0.17	0.20	1.46	4.96	3.50	98.00
	70.12	0.34	12.42	4.31	0.17	0.23	1.11	4.38	3.85	96.93
	69.60	0.37	13.10	3.95	0.15	0.17	1.14	4.57	3.39	96.44
mean	*70.24*	*0.33*	*12.97*	*4.05*	*0.17*	*0.21*	*1.28*	*4.53*	*3.66*	*97.42*
s.d.	*0.53*	*0.04*	*0.37*	*0.18*	*0.01*	*0.03*	*0.18*	*0.33*	*0.25*	*0.88*
(b)	47.07	4.28	12.15	14.01	0.24	4.55	9.33	3.21	0.77	95.61
	46.19	4.44	12.51	14.94	0.29	5.32	10.03	2.90	0.60	97.22
	46.18	4.39	12.35	14.24	0.23	4.72	9.72	3.09	0.69	95.61
	46.15	4.36	12.36	14.15	0.22	4.81	9.92	3.15	0.73	95.85
	46.13	4.33	12.44	14.13	0.22	4.89	9.71	3.04	0.68	95.57
	46.10	4.46	12.31	14.80	0.23	5.12	10.02	2.95	0.63	96.62
	46.03	4.43	12.46	14.44	0.25	4.90	9.67	3.07	0.66	95.91
	45.96	4.34	12.46	14.23	0.22	5.16	10.02	2.97	0.61	95.97
	45.92	4.57	12.35	14.39	0.27	5.09	9.97	3.05	0.64	96.25
	45.67	4.42	12.46	13.90	0.23	5.03	9.70	3.07	0.61	95.09
	45.60	4.62	12.41	13.94	0.17	5.25	9.97	3.01	0.65	95.62
mean	*46.09*	*4.42*	*12.39*	*14.29*	*0.23*	*4.99*	*9.82*	*3.05*	*0.66*	*95.94*
s.d.	*0.38*	*0.10*	*0.10*	*0.33*	*0.03*	*0.23*	*0.22*	*0.09*	*0.05*	*0.58*

N/A-5: SKS 6/10/1999 Skógasandur tephra Andy's campsite

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.32	5.00	12.57	14.26	0.20	4.64	9.23	3.16	0.97	97.35
	47.21	4.46	12.58	13.94	1.82	4.81	9.44	3.21	0.91	98.38
	47.17	4.48	12.55	14.31	0.25	4.69	9.54	3.20	0.86	97.05
	47.15	4.38	12.38	14.09	0.18	4.59	9.26	3.12	0.85	96.00
	46.88	4.52	12.69	14.34	0.20	4.63	9.36	3.19	0.89	96.70
	46.87	4.61	12.33	14.33	0.17	4.45	9.37	3.03	0.90	96.06
mean	*47.10*	*4.58*	*12.52*	*14.21*	*0.47*	*4.64*	*9.37*	*3.15*	*0.90*	*96.92*
s.d.	*0.18*	*0.22*	*0.14*	*0.16*	*0.66*	*0.12*	*0.11*	*0.07*	*0.04*	*0.89*

PL

SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
52.67	0.17	28.27	0.96	0.16	12.01	4.56	0.16	98.96

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.3	47.98	0.56	0.01	42.51	0.2	5.53	97.09
0.32	19.05	3.73	0.03	67.05	0.32	4.86	95.36

N/A-6: SHS610 6/10/1999 Sólheimasandur just outside LIA moraines

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.37	4.51	12.41	13.95	0.22	4.93	9.59	3.02	0.72	95.72
	46.17	4.47	12.46	14.70	0.20	4.96	9.65	3.10	1.10	96.81
	46.48	4.67	12.44	14.61	0.20	4.90	9.59	3.08	0.72	96.69
	46.57	4.69	12.44	14.62	0.20	4.86	9.84	3.09	0.74	97.05
	46.32	4.22	12.11	14.52	0.16	4.96	9.54	3.10	0.76	95.69
	46.67	4.57	11.91	14.73	0.35	4.80	9.45	2.98	0.78	96.24
	46.76	4.50	12.48	14.57	0.18	4.86	9.59	2.95	0.71	96.60
mean	*46.48*	*4.52*	*12.32*	*14.53*	*0.22*	*4.90*	*9.61*	*3.05*	*0.79*	*96.40*
s.d.	*0.21*	*0.16*	*0.22*	*0.27*	*0.06*	*0.06*	*0.12*	*0.06*	*0.14*	*0.53*

N/A-7: E5 EMS5/10. Emstrur in front of Entujökull moraines 5/9/1999

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.98	4.69	12.59	14.6	0.26	4.88	9.72	3.11	0.77	97.6
	46.13	4.39	12.55	14.5	0.29	4.81	9.59	3.26	0.75	96.27
	46.08	4.55	12.41	14.67	0.25	5.15	9.85	3.03	0.69	96.68
	47.03	4.55	12.66	14.19	0.3	4.72	9.33	3.08	0.82	96.68
	45.84	4.72	12.55	14.66	0.27	5.15	10.03	2.98	0.77	96.97
	46.10	4.39	12.34	14.68	0.28	4.86	9.52	3.23	0.73	96.13
mean	*46.36*	*4.55*	*12.52*	*14.55*	*0.28*	*4.93*	*9.67*	*3.12*	*0.76*	*96.72*
s.d.	*0.51*	*0.14*	*0.12*	*0.19*	*0.02*	*0.18*	*0.25*	*0.11*	*0.04*	*0.53*

MT	SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
	0.34	17.64	3.93	0.15	67.67	0.39	5.42	95.54

N/A-8: EMS410 Emstrur near huts, 4/10/1999

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.37	4.17	12.31	14.34	0.23	4.93	9.86	3.20	0.79	96.20
	45.84	4.51	12.33	14.38	0.27	4.98	9.81	2.97	0.78	95.87
	45.53	4.39	12.48	14.53	0.16	5.14	10.11	2.79	0.68	95.81
	45.75	4.63	12.48	14.34	0.24	5.11	9.98	3.10	0.69	96.32
	46.60	4.47	12.58	14.43	0.27	4.94	10.10	3.01	0.73	97.13
	45.75	4.45	12.46	14.54	0.18	5.07	9.84	3.11	0.71	96.11
mean	*45.97*	*4.44*	*12.44*	*14.43*	*0.23*	*5.03*	*9.95*	*3.03*	*0.73*	*96.24*
s.d.	*0.42*	*0.15*	*0.10*	*0.09*	*0.05*	*0.09*	*0.13*	*0.14*	*0.05*	*0.48*

N/A-9: 10/9 Coarse Markarfljót sand

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.71	0.39	13.29	4.40	0.11	0.26	1.43	4.73	3.54	98.86
	70.35	0.38	13.32	4.17	0.12	0.31	1.48	4.88	3.72	98.73
•	69.33	0.93	13.63	5.27	0.14	0.72	2.07	4.31	3.15	99.55
	63.88	1.29	13.50	6.02	0.15	1.24	3.02	4.77	2.67	96.54
mean	*68.31*	*0.69*	*13.37*	*4.86*	*0.13*	*0.60*	*1.98*	*4.79*	*3.31*	*98.04*
s.d.	*3.84*	*0.52*	*0.11*	*1.01*	*0.02*	*0.55*	*0.90*	*0.08*	*0.56*	*1.30*
	53.07	2.91	14.20	11.92	0.26	3.65	6.61	3.63	0.79	97.04
	49.80	3.70	12.67	13.10	0.27	4.02	8.26	3.66	1.13	96.61
	48.44	3.92	12.57	13.34	0.24	4.10	8.57	3.60	1.00	95.78
•	48.42	4.19	13.44	10.83	0.22	6.03	12.18	2.97	0.45	98.73
	48.08	3.82	12.61	13.96	0.24	4.63	8.81	3.35	0.99	96.49
	47.48	4.10	12.42	14.14	0.25	4.36	8.75	3.48	0.90	95.88
	46.69	4.59	12.29	14.56	0.25	4.60	9.32	3.17	0.67	96.14
	46.59	4.84	10.98	16.53	0.33	3.83	9.12	3.24	0.97	96.43
	46.43	4.59	12.27	14.70	0.30	4.80	9.44	3.18	0.87	96.58
	46.20	4.50	12.33	14.77	0.23	5.12	9.96	3.03	0.68	96.82
	46.10	4.30	12.33	14.53	0.23	4.99	10.18	3.07	0.63	96.36
	46.04	4.57	12.69	14.63	0.27	5.09	9.97	3.16	0.67	97.09
	45.94	4.79	12.34	14.74	0.23	4.88	9.29	3.23	0.69	96.13
	45.70	4.29	12.12	14.85	0.23	5.28	10.38	3.24	0.76	96.85
mean	*47.43*	*4.22*	*12.45*	*14.29*	*0.26*	*4.57*	*9.13*	*3.31*	*0.83*	*96.48*
s.d.	*2.07*	*0.54*	*0.68*	*1.09*	*0.03*	*0.53*	*1.00*	*0.21*	*0.16*	*0.42*

PX

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	CaO	Na_2O	Total
46.33	2.64	5.32	11.11	0.28	12.72	19.57	0.44	0.01	98.42

PL

SiO_2	TiO_2	Al_2O_3	FeO	MgO	CaO	Na_2O	K_2O	Total
54.35	0.21	26.74	1.01	0.17	10.82	5.19	0.34	98.83

MT

SiO_2	TiO_2	Al_2O_3	Cr	FeO	MnO	MgO	Total
0.36	18.97	3.82	0.02	67.36	0.35	5.23	96.11

N/A-10: 10/9 Fine Markarfljót sand Total of 20 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.45	0.30	11.80	3.85	0.18	0.17	0.86	4.53	3.94	96.08
	70.13	0.27	12.71	3.47	0.12	0.15	1.02	4.63	3.91	96.41
	67.98	0.84	12.89	4.99	0.16	0.66	2.13	4.50	3.04	97.19
	65.51	1.27	13.43	5.60	0.19	1.13	3.01	4.37	2.94	97.45
	65.04	1.24	13.31	6.11	0.17	1.12	2.98	4.92	2.77	97.66
mean	*67.82*	*0.78*	*12.83*	*4.80*	*0.16*	*0.65*	*2.00*	*4.59*	*3.32*	*96.96*
s.d.	*2.52*	*0.49*	*0.65*	*1.13*	*0.03*	*0.48*	*1.03*	*0.21*	*0.56*	*0.68*
	58.97	2.12	13.79	8.35	0.24	2.26	5.12	4.01	1.97	96.83
	47.85	4.01	12.64	13.48	0.21	4.37	8.92	3.35	0.89	95.72
	46.83	4.09	12.62	14.30	0.23	4.78	9.52	3.28	0.80	96.45
	46.74	4.00	12.66	14.15	0.21	4.81	9.45	3.11	0.82	95.95
	46.50	3.40	13.03	13.60	0.23	5.85	10.89	2.97	0.48	96.95
	46.49	4.61	12.30	14.49	0.34	4.71	9.47	3.28	0.84	96.53
	46.34	4.88	11.80	15.46	0.22	4.48	9.48	3.06	0.88	96.60
	46.21	4.86	12.10	15.09	0.29	4.88	9.85	3.25	0.80	97.33
	46.04	4.54	12.19	14.70	0.25	4.88	9.57	3.17	0.72	96.06
	46.03	4.38	12.56	15.03	0.20	4.80	9.66	3.18	0.74	96.58
	45.87	4.64	11.92	14.55	0.19	4.95	9.99	3.09	0.77	95.97
	45.81	4.65	12.57	14.35	0.21	5.21	9.97	3.08	0.66	96.51
	45.78	4.67	12.44	14.81	0.27	5.17	9.96	3.09	0.67	96.86
mean	*46.37*	*4.39*	*12.40*	*14.50*	*0.24*	*4.91*	*9.73*	*3.16*	*0.76*	*96.46*
s.d.	*0.58*	*0.44*	*0.35*	*0.58*	*0.04*	*0.38*	*0.47*	*0.11*	*0.11*	*0.47*

PUMICE SAMPLE ANALYSES

N/A-P1: Entujökull 8/9/01-P8A

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.39	1.32	14.37	6.92	0.21	1.18	3.28	4.01	2.63	99.31
	65.36	1.34	13.98	6.59	0.20	1.18	3.23	4.39	2.47	98.73
	65.24	1.36	14.00	6.39	0.20	1.12	3.26	4.46	2.71	98.75
	65.05	1.27	14.16	6.36	0.14	1.10	3.18	4.57	2.73	98.56
	65.00	1.37	14.25	6.71	0.22	1.11	3.15	4.62	2.84	99.26
	64.86	1.44	14.06	6.73	0.17	1.21	3.42	4.50	2.59	98.96
	64.84	1.42	14.06	6.81	0.24	1.37	3.38	4.52	2.62	99.26
	64.78	1.39	13.89	6.66	0.22	1.30	3.38	4.15	2.69	98.44
	64.68	1.31	14.06	6.46	0.21	1.15	3.15	4.47	2.57	98.06
	64.58	1.50	13.89	6.72	0.25	1.24	3.27	4.66	2.50	98.60
	64.36	1.46	14.03	6.87	0.20	1.29	3.14	4.44	2.55	98.35
	63.42	1.47	13.62	6.86	0.26	1.22	3.11	4.41	2.50	96.87
mean	*64.80*	*1.39*	*14.03*	*6.67*	*0.21*	*1.21*	*3.25*	*4.43*	*2.62*	*98.59*
s.d.	*0.53*	*0.07*	*0.19*	*0.19*	*0.03*	*0.08*	*0.11*	*0.19*	*0.11*	*0.67*
	46.51	4.96	12.62	14.74	0.24	5.17	9.74	3.02	0.73	97.72
	46.26	4.86	12.70	14.75	0.23	5.22	9.71	3.08	0.63	97.45
	46.24	5.05	12.53	14.78	0.22	5.16	9.84	2.91	0.75	97.47
	46.21	4.79	12.61	14.68	0.25	5.16	9.90	2.89	0.70	97.19
	46.11	4.98	12.60	14.49	0.25	5.02	9.94	2.99	0.72	97.09
	46.01	4.89	12.63	14.49	0.23	5.11	9.90	3.02	0.72	97.00
mean	*46.22*	*4.92*	*12.61*	*14.66*	*0.23*	*5.14*	*9.84*	*2.98*	*0.71*	*97.32*
s.d.	*0.17*	*0.09*	*0.06*	*0.13*	*0.01*	*0.07*	*0.09*	*0.07*	*0.04*	*0.27*

N/A-P2: Entujökull 8/9/01-P8B

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.24	1.35	13.84	6.80	0.25	1.18	3.33	4.27	2.49	98.75
•	65.08	1.47	14.15	6.58	3.77	1.27	3.54	4.48	2.59	102.91
	64.95	1.31	14.08	6.46	0.22	1.23	3.31	4.49	2.69	98.73
	64.82	1.41	14.12	6.85	0.20	1.22	3.50	4.42	2.72	99.26
	64.81	1.39	14.22	7.03	0.26	1.31	3.44	4.02	2.62	99.09
	64.68	1.36	14.08	6.68	0.23	1.22	3.28	4.22	2.52	98.26
	64.39	1.36	14.22	6.92	0.27	1.23	3.48	4.44	2.50	98.81
	64.35	1.43	13.94	6.40	0.18	1.21	3.37	4.52	2.61	98.00
	64.34	1.42	13.94	6.65	0.20	1.25	3.58	4.44	2.75	98.57
	64.32	1.38	13.93	6.69	0.23	1.15	3.49	4.47	2.39	98.05
	64.31	1.42	14.00	6.52	0.26	1.18	3.53	4.37	2.67	98.26
	64.29	1.29	13.89	6.88	0.18	1.22	3.50	4.21	2.61	98.06
	64.25	1.43	13.86	6.82	0.26	1.25	3.44	4.65	2.70	98.65
mean	*64.56*	*1.38*	*14.01*	*6.72*	*0.23*	*1.22*	*3.44*	*4.38*	*2.61*	*98.54*
s.d.	*0.33*	*0.05*	*0.13*	*0.19*	*0.03*	*0.04*	*0.09*	*0.17*	*0.11*	*0.42*

"DARK" PUMICE (10s, small raster)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	68.72	0.30	13.11	3.50	0.18	0.23	1.36	5.35	3.56	96.31
	68.66	0.33	13.32	3.61	0.20	0.24	1.35	5.41	3.43	96.55
	68.65	0.26	12.91	3.59	0.21	0.21	1.29	5.47	3.45	96.04
	68.61	0.25	13.37	3.47	0.22	0.21	1.27	5.22	3.66	96.27
	68.26	0.26	13.21	3.50	0.21	0.20	1.33	5.47	3.44	95.88
	68.19	0.26	12.96	3.41	0.16	0.19	1.33	5.38	3.56	95.43
	68.06	0.31	12.92	3.59	0.15	0.22	1.32	5.48	3.49	95.52
•	67.60	0.24	12.75	3.32	0.24	0.19	1.29	5.18	3.50	94.32
•	67.56	0.23	12.78	3.43	0.21	0.24	1.32	5.18	3.48	94.42
•	67.54	0.20	13.08	3.64	0.18	0.26	1.24	5.10	3.40	94.63
•	66.89	0.22	12.75	3.37	0.17	0.20	1.36	5.25	3.34	93.55
•	66.18	0.25	12.75	3.37	0.17	0.22	1.19	5.21	3.49	92.81
•	64.50	0.30	12.84	3.35	0.17	0.22	1.36	5.31	3.05	91.10
mean	*68.45*	*0.28*	*13.11*	*3.52*	*0.19*	*0.21*	*1.32*	*5.40*	*3.51*	*96.00*
s.d.	*0.27*	*0.03*	*0.19*	*0.08*	*0.03*	*0.02*	*0.03*	*0.09*	*0.08*	*0.42*

Drumbabót pumice (DRM) (primarily 10s, large raster)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	63.26	1.29	13.93	6.43	0.20	1.25	3.47	4.98	2.61	97.40
	62.73	1.38	13.44	6.47	0.19	1.29	3.38	4.85	2.77	96.49
	62.58	1.46	13.63	6.52	0.20	1.40	3.58	4.95	2.56	96.87
	62.54	1.25	13.07	6.20	0.19	1.22	3.36	5.76	2.10	95.68
	62.17	1.26	13.20	6.63	0.18	1.10	3.01	6.17	1.48	95.20
	62.06	1.46	13.58	6.55	0.21	1.41	3.70	4.96	2.52	96.43
	61.74	1.37	13.14	6.53	0.23	1.30	3.18	3.93	4.41	95.83
	61.32	1.56	13.36	7.01	0.19	1.45	3.77	5.02	2.40	96.09
	61.21	1.40	13.12	6.88	0.22	1.42	3.96	4.76	2.48	95.45
•	61.03	1.32	13.11	6.23	0.17	1.26	3.34	5.15	2.42	94.03
•	60.90	1.55	13.12	6.67	0.19	1.44	3.76	4.92	2.44	94.96
•	60.60	1.38	12.79	6.76	0.18	1.32	3.61	5.11	2.45	94.20
•	60.55	1.38	12.69	6.91	0.16	1.44	3.57	5.18	2.54	94.41
20s LR	• 59.97	1.43	12.71	7.28	0.22	1.39	3.89	5.63	2.04	94.56
mean	*62.18*	*1.38*	*13.39*	*6.58*	*0.20*	*1.31*	*3.49*	*5.04*	*2.59*	*96.16*
s.d.	*0.67*	*0.10*	*0.29*	*0.24*	*0.02*	*0.11*	*0.30*	*0.63*	*0.78*	*0.71*

3/9-3 PUMICE FLOOD

Condition	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
10s SR	63.59	1.31	13.80	6.06	0.19	1.27	3.36	4.71	2.62	96.89
10s LR	63.45	1.24	13.77	6.05	0.24	1.17	3.24	5.17	2.50	96.83
10s LR	63.37	1.19	13.57	5.34	0.18	1.12	3.12	5.05	2.59	95.52
10s SR	63.20	1.21	13.61	6.25	0.20	1.30	3.23	4.88	2.48	96.36
10s SR	63.19	1.22	13.48	5.80	0.15	1.17	3.13	4.64	2.60	95.39
10s SR	63.11	1.23	13.65	6.17	0.23	1.21	3.33	5.12	2.51	96.55
10s LR	63.08	1.23	13.52	6.36	0.17	1.15	3.31	5.32	2.59	96.73
10s LR	63.06	1.27	13.70	6.11	0.19	1.22	3.42	4.92	2.55	96.43
10s LR	62.84	1.30	13.63	6.26	0.22	1.24	3.32	5.08	2.50	96.37
10s LR	62.73	1.20	13.44	6.04	0.23	1.20	3.29	5.12	2.63	95.87
10s SR	62.68	1.24	13.42	6.36	0.17	1.23	3.31	4.67	2.49	95.57
10s SR	62.54	1.20	13.62	6.51	0.22	1.25	3.32	4.86	2.54	96.07
10s LR	62.54	1.27	13.40	6.45	0.22	1.26	3.50	5.20	2.54	96.37
10s LR	62.30	1.26	13.31	6.46	0.23	1.20	3.48	5.27	2.63	96.14
mean	*62.98*	*1.24*	*13.56*	*6.16*	*0.20*	*1.21*	*3.31*	*5.00*	*2.56*	*96.22*
s.d.	*0.38*	*0.04*	*0.14*	*0.31*	*0.03*	*0.05*	*0.11*	*0.22*	*0.06*	*0.48*

8/9 PUMICE (10s, large raster)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	64.27	1.20	13.73	5.77	0.22	1.10	3.21	5.24	2.69	97.42
	64.23	1.16	13.93	6.44	0.26	1.19	3.34	4.91	2.56	98.02
	64.22	1.21	14.15	5.99	0.24	1.06	3.14	5.11	2.71	97.82
	64.09	1.24	14.30	6.02	0.18	1.19	3.24	5.36	2.52	98.15
	64.01	1.18	13.97	6.05	0.20	1.22	3.25	5.20	2.61	97.69
	63.92	1.19	13.99	6.25	0.21	1.22	3.27	5.06	2.63	97.73
	63.91	1.18	14.03	6.16	0.21	1.27	3.39	5.02	2.48	97.66
	63.83	1.19	13.92	6.30	0.18	1.31	3.20	4.69	2.57	97.19
	63.81	1.17	14.21	6.29	0.18	1.22	3.21	5.00	2.59	97.67
	63.77	1.16	14.02	6.32	0.22	1.16	3.24	5.08	2.55	97.53
	63.65	1.19	14.07	6.11	0.13	1.18	3.32	5.22	2.55	97.42
	63.62	1.23	13.97	6.58	0.24	1.21	3.40	4.59	2.53	97.37
	62.79	1.22	14.28	6.14	0.21	1.13	3.34	4.93	2.59	96.63
	47.60	4.76	12.58	14.76	0.28	5.24	9.38	3.48	0.79	98.85
mean	*62.69*	*1.45*	*13.94*	*6.80*	*0.21*	*1.48*	*3.71*	*4.92*	*2.46*	*97.65*
s.d.	*4.36*	*0.95*	*0.42*	*2.30*	*0.04*	*1.08*	*1.63*	*0.46*	*0.48*	*0.51*

1/701? Above River

Condition	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
10s SR	70.36	0.25	14.75	2.27	0.07	0.27	0.91	4.99	4.50	98.36
10s LR	69.63	0.25	14.74	2.19	0.14	0.22	0.86	5.35	4.76	98.14
10s LR	69.61	0.22	14.74	2.18	0.08	0.23	0.89	5.42	4.63	98.00
10s LR	69.60	0.24	14.68	2.11	0.08	0.25	0.90	5.37	4.71	97.93
10s pt	69.46	0.25	14.53	2.10	0.12	0.26	0.91	4.83	4.77	97.23
10s SR	69.37	0.23	14.26	2.17	0.07	0.25	0.91	4.89	4.58	96.72
10s LR	69.35	0.28	14.96	2.14	0.06	0.23	0.88	5.67	4.62	98.18
10s SR	68.99	0.25	14.72	2.25	0.02	0.26	0.89	4.95	4.67	96.99
10s SR	66.51	1.21	13.48	5.49	0.14	0.74	2.53	4.32	3.14	97.56
10s LR	65.53	0.22	13.92	2.13	0.05	5.16	0.85	5.16	4.25	92.36
10s SR	65.10	0.22	14.36	2.01	0.07	0.26	0.86	5.01	4.19	92.07
10s LR	63.38	1.20	14.02	6.08	0.20	1.22	3.42	4.76	2.63	96.91
mean	*68.63*	*0.44*	*14.49*	*2.90*	*0.10*	*0.39*	*1.31*	*5.05*	*4.30*	*97.60*
s.d.	*2.10*	*0.41*	*0.45*	*1.53*	*0.05*	*0.33*	*0.90*	*0.40*	*0.76*	*0.60*

P4 (10s, large raster)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.38	1.16	14.04	5.41	0.14	0.93	2.74	5.16	2.77	97.73
	64.66	1.20	13.74	6.15	0.20	1.09	3.18	5.03	2.66	97.91
	64.23	1.32	13.79	5.39	0.14	1.18	3.24	5.28	2.69	97.25
	64.19	1.28	13.91	6.28	0.24	1.06	3.23	5.30	2.72	98.19
	64.06	1.25	14.07	6.22	0.19	1.14	3.33	5.23	2.53	98.02
	63.92	1.32	13.57	6.04	0.19	1.13	3.08	5.24	2.66	97.13
	63.81	1.29	13.70	6.34	0.17	1.15	3.22	5.33	2.63	97.64
	63.72	1.14	13.79	6.19	0.18	1.12	3.16	5.19	2.61	97.10
	63.69	1.29	13.68	6.02	0.14	1.05	3.55	5.22	2.77	97.39
	63.64	1.17	13.55	6.18	0.24	1.11	3.25	5.17	2.66	96.96
	63.57	1.29	14.18	6.07	0.16	1.10	3.13	5.34	2.65	97.48
	63.43	1.25	13.70	6.37	0.19	1.10	3.19	5.15	2.67	97.05
	63.12	1.24	13.65	6.35	0.15	1.16	3.34	5.12	2.57	96.70
mean	*63.95*	*1.25*	*13.80*	*6.08*	*0.18*	*1.10*	*3.20*	*5.21*	*2.66*	*97.43*
s.d.	*0.58*	*0.06*	*0.20*	*0.32*	*0.03*	*0.06*	*0.18*	*0.09*	*0.07*	*0.45*

P5 Entujökull Pumice

Condition	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
10s LR	64.05	1.16	13.96	6.43	0.26	1.16	3.34	5.14	2.60	98.09
10s LR	63.83	1.16	13.39	6.02	0.18	1.04	3.10	5.26	2.68	96.65
10s LR	63.77	1.13	13.54	5.52	0.22	0.99	2.96	5.21	2.74	96.07
10s LR	63.58	1.23	13.88	6.13	0.15	1.14	3.17	5.00	2.64	96.91
10s LR	63.42	1.26	13.81	6.20	0.15	1.17	3.27	5.32	2.51	97.10
10s LR	63.27	1.16	13.98	6.39	0.24	1.25	3.22	5.18	2.52	97.21
10s SR	63.24	1.22	13.56	6.08	0.22	1.15	3.24	4.86	2.56	96.12
10s LR	63.13	1.26	13.43	6.46	0.19	1.29	3.33	5.14	2.50	96.72
10s SR	63.08	1.22	13.44	5.95	0.17	1.13	3.31	5.01	2.63	95.95
10s SR	63.06	1.18	13.53	6.10	0.27	1.18	3.33	4.84	2.60	96.08
10s LR	62.94	1.17	13.92	6.00	0.15	1.08	3.20	5.08	2.61	96.15
10s LR	62.85	1.29	13.44	6.25	0.18	1.14	3.19	5.06	2.54	95.95
10s LR	62.01	1.21	13.39	6.26	0.21	1.18	3.21	5.27	2.57	95.31
mean	*63.25*	*1.20*	*13.63*	*6.14*	*0.20*	*1.15*	*3.22*	*5.10*	*2.59*	*96.49*
s.d.	*0.52*	*0.05*	*0.24*	*0.25*	*0.04*	*0.08*	*0.11*	*0.15*	*0.07*	*0.73*

P6 Entujökull Pumice

Condition	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
LR	61.98	1.61	13.74	6.38	0.12	1.55	3.93	4.97	2.41	96.69
LR	61.09	1.80	14.08	7.98	0.17	1.91	4.40	4.63	2.16	98.22
LR	60.70	1.86	13.86	7.79	0.21	1.82	4.49	4.55	2.36	97.63
LR	60.66	1.79	13.54	7.47	0.22	1.80	4.42	4.95	2.23	97.07
LR	60.56	1.76	13.71	7.75	0.17	1.78	4.44	4.99	2.28	97.43
LR	60.51	1.80	13.64	7.24	0.15	1.76	4.31	4.87	2.34	96.60
LR	60.48	1.82	13.50	7.80	0.14	1.83	4.49	4.89	2.27	97.22
LR	60.43	1.84	13.76	8.20	0.14	1.88	4.46	4.67	2.31	97.70
LR	60.24	1.81	13.68	7.85	0.15	1.88	4.61	4.78	2.24	97.23
SR	60.18	1.65	14.12	7.93	0.15	1.60	4.50	4.52	2.31	96.95
LR	60.08	1.80	13.84	8.13	0.17	1.79	4.59	4.67	2.23	97.30
SR	59.88	1.79	13.46	7.72	0.22	1.80	4.54	4.42	2.26	96.08
LR	59.64	1.77	13.55	7.74	0.19	1.80	4.54	4.68	2.31	96.20
SR	59.32	1.76	13.47	7.76	0.18	1.77	4.53	4.32	2.17	95.27
mean	*60.41*	*1.78*	*13.71*	*7.69*	*0.17*	*1.78*	*4.45*	*4.71*	*2.28*	*96.97*
s.d.	*0.64*	*0.07*	*0.21*	*0.45*	*0.03*	*0.10*	*0.17*	*0.21*	*0.07*	*0.76*

P7 Entujökull Pumice

Condition	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
SR	64.00	1.42	13.94	5.57	0.21	1.21	3.38	5.11	2.53	97.37
SR	63.84	1.20	13.94	6.15	0.20	1.20	3.21	5.11	2.71	97.56
LR	63.22	1.38	13.72	6.77	0.22	1.37	3.56	5.10	2.58	97.91
SR	63.21	1.31	13.98	6.43	0.15	1.26	3.48	4.91	2.57	97.29
SR	63.11	1.29	13.73	6.04	0.20	1.29	3.45	4.39	2.58	96.08
SR	63.03	1.30	13.67	6.27	0.18	1.31	3.44	4.91	2.57	96.68
SR	62.93	1.23	13.38	6.35	0.22	1.26	3.19	4.88	2.52	95.96
SR	62.90	1.32	13.83	6.45	0.17	1.35	3.52	4.52	2.57	96.62
SR	62.60	1.33	13.80	6.67	0.18	1.34	3.68	4.91	2.46	96.97
SR	62.54	1.31	13.66	6.45	0.22	1.44	3.54	4.81	2.45	96.44
SR	62.36	1.30	13.45	6.43	0.25	1.37	3.56	4.94	2.51	96.17
LR	62.19	1.34	13.63	6.63	0.29	1.35	3.58	5.20	2.43	96.64
LR	62.03	1.31	13.76	6.43	0.22	1.28	3.42	5.04	2.52	96.01
mean	*62.92*	*1.31*	*13.73*	*6.36*	*0.21*	*1.31*	*3.46*	*4.91*	*2.54*	*96.75*
s.d.	*0.58*	*0.06*	*0.18*	*0.31*	*0.04*	*0.07*	*0.14*	*0.23*	*0.07*	*0.63*

31-C1: T1 18/8/2000 Y Camebax comparison data

30s bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.314	1.079	13.747	5.803	0.215	0.969	2.948	2.569	2.754	95.397

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 13 analyses	65.43	1.18	13.98	5.74	0.19	1.08	2.99	2.53	2.72	95.85
	65.14	1.17	13.89	5.45	0.16	1.00	2.95	2.85	2.77	95.38
	65.05	1.12	13.64	5.74	0.16	0.98	2.90	2.88	2.84	95.30
	64.90	1.19	13.74	5.64	0.17	0.97	2.83	2.87	2.74	95.04
	64.86	1.17	13.78	5.88	0.19	1.08	3.04	3.10	2.70	95.81
	64.83	1.22	13.84	5.99	0.18	1.16	3.08	2.50	2.69	95.47
	64.67	1.19	13.82	5.82	0.16	1.07	3.11	3.07	2.74	95.65
	64.66	1.21	13.77	5.85	0.20	1.09	3.01	2.88	2.72	95.38
	64.55	1.20	13.71	5.89	0.20	1.09	3.00	3.09	2.73	95.46
mean (totals >/=95)	*64.90*	*1.18*	*13.79*	*5.78*	*0.18*	*1.06*	*2.99*	*2.86*	*2.74*	*95.48*
s.d.	*0.27*	*0.03*	*0.10*	*0.16*	*0.02*	*0.06*	*0.09*	*0.22*	*0.04*	*0.26*

30s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 12 analyses	65.79	1.09	13.90	5.39	0.16	0.96	2.71	4.25	2.84	97.09
	65.12	1.16	13.72	5.53	0.16	0.97	2.84	4.48	2.86	96.84
	64.98	1.17	13.98	5.64	0.14	1.04	2.96	4.62	2.74	97.27
	64.89	1.16	13.92	5.78	0.17	1.07	2.96	4.47	2.72	97.14
	64.84	1.16	13.90	5.80	0.18	1.11	3.02	4.42	2.69	97.10
	64.74	1.12	13.83	5.76	0.22	1.06	2.97	4.65	2.77	97.11
	64.64	1.18	13.91	5.79	0.21	1.13	2.97	4.19	2.69	96.70
	64.25	1.18	13.83	5.60	0.17	1.11	2.99	4.49	2.71	96.33
	64.24	1.16	13.64	5.78	0.18	1.06	3.06	4.48	2.76	96.38
	64.23	1.15	13.72	5.57	0.17	0.95	2.82	4.50	2.88	95.99
	64.08	1.18	13.78	5.82	0.18	1.04	2.99	4.18	2.72	95.97
	64.03	1.13	13.81	5.75	0.19	1.10	3.02	4.58	2.78	96.39
mean	*64.65*	*1.15*	*13.83*	*5.68*	*0.18*	*1.05*	*2.94*	*4.44*	*2.76*	*96.69*
s.d.	*0.52*	*0.03*	*0.10*	*0.14*	*0.02*	*0.06*	*0.10*	*0.16*	*0.07*	*0.47*

30s small rastered ar	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 5 analyses	65.24	1.16	13.73	5.65	0.14	0.97	2.93	3.67	2.82	96.31
	65.23	1.20	13.92	5.91	0.16	1.09	3.05	3.52	2.77	96.84
	64.61	1.10	13.87	5.74	0.22	1.04	2.99	2.95	2.77	95.28
	64.49	1.17	13.72	5.69	0.19	1.00	2.87	3.38	2.78	95.29
	64.31	1.23	13.87	5.81	0.17	1.04	2.96	3.09	2.71	95.19
mean	*64.77*	*1.17*	*13.82*	*5.76*	*0.17*	*1.03*	*2.96*	*3.32*	*2.77*	*95.78*
s.d.	*0.43*	*0.05*	*0.09*	*0.10*	*0.03*	*0.04*	*0.07*	*0.30*	*0.04*	*0.75*

20s for bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.79	1.06	13.80	5.67	0.15	1.00	2.95	3.40	2.78	96.58

20s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 8 analyses	66.16	1.10	13.90	5.71	0.16	0.99	2.86	3.04	2.85	96.74
	65.65	1.14	14.00	5.75	0.17	0.99	2.84	2.36	2.78	95.69
	65.44	1.21	13.83	5.57	0.17	0.95	2.91	3.02	2.84	95.94
	65.36	1.17	13.85	5.81	0.21	1.04	2.98	3.11	2.69	96.22
	65.12	1.17	13.87	5.60	0.13	1.05	2.94	3.27	2.73	95.86
	64.80	1.16	13.80	5.75	0.17	1.09	3.11	3.19	2.74	95.81
	64.69	1.21	13.98	5.88	0.17	1.11	3.01	3.14	2.75	95.94
mean (total >/=95)	*65.31*	*1.16*	*13.89*	*5.72*	*0.17*	*1.03*	*2.95*	*3.02*	*2.77*	*96.03*
s.d.	*0.51*	*0.04*	*0.08*	*0.11*	*0.03*	*0.06*	*0.09*	*0.30*	*0.06*	*0.35*

20s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 8 analyses	66.23	1.09	13.90	5.54	0.15	0.95	2.83	4.61	2.87	98.16
	65.27	1.08	13.91	5.30	0.14	0.98	2.80	4.27	2.80	96.56
	65.07	1.12	13.82	5.93	0.15	1.12	3.11	4.49	2.74	97.54
	65.04	1.11	13.93	5.59	0.18	1.03	2.95	3.43	2.77	96.02
	65.03	1.19	13.78	5.56	0.12	0.92	2.87	4.54	2.81	96.83
	64.89	1.17	13.86	5.72	0.17	1.07	3.07	4.65	2.68	97.27
	64.54	1.13	13.87	5.64	0.14	0.98	3.04	4.66	2.75	96.75
	64.45	1.17	13.93	5.73	0.16	1.12	2.99	4.56	2.76	96.88
mean	*65.07*	*1.13*	*13.88*	*5.63*	*0.15*	*1.02*	*2.95*	*4.40*	*2.77*	*97.00*
s.d.	*0.54*	*0.04*	*0.05*	*0.18*	*0.02*	*0.08*	*0.11*	*0.41*	*0.06*	*0.65*

31-1: T1 Layer Y 18/8/2000-1 Layer Y MICROSCAN DATA

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 12 analyses	67.77	0.93	13.63	5.08	0.13	0.78	2.99	4.34	3.24	98.89
	67.36	1.22	13.31	6.10	0.42	0.85	2.41	4.23	3.23	99.13
	67.06	1.08	13.53	5.80	0.17	0.82	2.44	4.24	3.51	98.65
	66.50	1.06	13.75	5.69	0.19	0.93	3.09	5.92	1.73	98.86
	65.79	1.37	13.95	6.03	0.20	1.17	3.22	4.37	2.99	99.09
	65.71	0.92	13.86	6.00	0.18	1.09	2.99	4.29	2.68	97.72
	65.68	1.17	14.12	6.24	0.13	1.22	2.95	4.51	2.87	98.89
	65.65	1.17	13.89	6.39	0.20	1.19	3.12	4.29	2.77	98.67
	65.60	1.07	13.85	6.07	0.19	1.02	3.06	4.43	2.72	98.01
	65.39	1.10	14.12	5.91	0.19	1.09	3.03	4.44	2.74	98.01
	65.27	1.07	13.93	6.54	0.22	1.16	3.11	4.14	3.40	98.84
	65.10	1.03	13.67	6.28	0.20	0.98	3.45	4.32	2.97	98.00
mean	*66.07*	*1.10*	*13.80*	*6.01*	*0.20*	*1.03*	*2.99*	*4.46*	*2.90*	*98.56*
s.d.	*0.88*	*0.12*	*0.24*	*0.38*	*0.07*	*0.15*	*0.29*	*0.47*	*0.46*	*0.49*

32-C1: T4 H Camebax comparison data

30s for bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 5 analyses	67.60	0.99	13.94	5.03	0.17	0.81	2.47	3.62	3.02	97.66
	67.44	0.92	13.83	4.89	0.13	0.71	2.27	2.91	3.00	96.10
	65.16	1.22	13.87	5.94	0.21	1.11	3.03	3.33	2.72	96.58
	47.31	4.55	13.08	14.50	0.20	5.44	10325.00	1.78	0.93	98.11
mean	*66.73*	*1.04*	*13.88*	*5.29*	*0.17*	*0.88*	*2.59*	*3.29*	*2.91*	*96.78*
s.d	*1.37*	*0.16*	*0.06*	*0.57*	*0.04*	*0.21*	*0.39*	*0.36*	*0.17*	*0.80*

30s for bkds rastere	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.47	1.11	13.36	5.55	0.20	0.83	2.57	4.59	3.01	97.69

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.77	0.99	13.92	4.97	0.18	0.78	2.43	2.85	2.96	96.84
	67.57	0.92	13.85	4.92	0.16	0.68	2.29	2.88	3.05	96.33
	65.05	1.22	13.97	5.78	0.22	1.09	3.13	3.34	2.73	96.53
	64.98	1.13	13.87	5.79	0.18	1.05	2.99	3.11	2.71	95.81
mean	*66.34*	*1.06*	*13.90*	*5.37*	*0.18*	*0.90*	*2.71*	*3.04*	*2.86*	*96.38*
s.d	*1.54*	*0.13*	*0.06*	*0.48*	*0.03*	*0.20*	*0.41*	*0.23*	*0.17*	*0.43*

30s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	68.71	0.88	14.19	4.85	0.14	0.68	2.23	4.55	3.02	99.23
	67.57	0.97	14.06	4.95	0.15	0.79	2.45	4.46	3.02	98.41
	65.23	1.15	14.01	5.86	0.22	1.13	3.01	4.63	2.77	98.00
	65.13	1.17	14.09	5.80	0.17	1.18	3.04	4.72	2.79	98.08
mean	*66.66*	*1.04*	*14.09*	*5.36*	*0.17*	*0.94*	*2.68*	*4.59*	*2.90*	*98.43*
s.d	*1.77*	*0.14*	*0.07*	*0.54*	*0.04*	*0.25*	*0.41*	*0.11*	*0.14*	*0.56*

20s for bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.76	0.90	13.86	4.71	0.19	0.70	2.34	3.04	2.95	96.44
	67.33	1.01	13.88	5.15	0.17	0.80	2.45	3.48	3.06	97.34
	65.47	1.18	14.02	5.91	0.18	1.09	3.08	3.10	2.73	96.76
	65.09	1.21	13.96	5.90	0.17	1.11	3.03	3.14	2.68	96.30
mean	*66.42*	*1.08*	*13.93*	*5.42*	*0.18*	*0.93*	*2.72*	*3.19*	*2.85*	*96.71*
s.d	*1.33*	*0.15*	*0.08*	*0.59*	*0.01*	*0.21*	*0.38*	*0.20*	*0.18*	*0.46*

20s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.79	0.91	13.88	4.91	0.14	0.72	2.32	3.00	3.01	96.67
	67.25	0.95	13.94	5.22	0.21	0.81	2.52	3.47	2.97	97.34
	65.42	1.18	13.98	5.98	0.16	1.10	3.02	3.45	2.74	97.02
	65.17	1.19	13.84	5.69	0.16	1.15	3.06	3.63	2.73	96.61
mean	*66.41*	*1.06*	*13.91*	*5.45*	*0.17*	*0.94*	*2.73*	*3.39*	*2.86*	*96.91*
s.d	*1.31*	*0.15*	*0.06*	*0.48*	*0.03*	*0.21*	*0.37*	*0.27*	*0.15*	*0.34*

20s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.68	0.87	13.97	4.78	0.19	0.73	2.29	4.29	3.10	97.90
	67.08	0.95	13.93	5.04	0.22	0.83	2.46	4.80	2.93	98.24
	65.25	1.20	14.10	5.97	0.23	1.10	3.06	4.60	2.72	98.22
	64.68	1.18	13.81	5.88	0.18	1.12	3.01	4.64	2.72	97.22
mean	*66.17*	*1.05*	*13.95*	*5.42*	*0.21*	*0.94*	*2.70*	*4.58*	*2.87*	*97.89*
s.d	*1.43*	*0.16*	*0.12*	*0.60*	*0.02*	*0.19*	*0.39*	*0.22*	*0.19*	*0.47*

10s for bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 4 analyses	66.66	0.89	13.75	5.08	0.16	0.81	2.52	3.84	2.99	96.69
	65.15	1.18	13.92	5.81	0.19	1.17	3.09	3.65	2.83	96.99
	64.63	1.18	13.92	5.67	0.15	1.13	2.96	3.70	2.71	96.04
mean	*65.48*	*1.09*	*13.86*	*5.52*	*0.17*	*1.04*	*2.86*	*3.73*	*2.84*	*96.57*
s.d	*1.05*	*0.17*	*0.10*	*0.39*	*0.02*	*0.20*	*0.30*	*0.10*	*0.14*	*0.48*

10s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.88	0.98	13.91	5.25	0.15	0.71	2.45	3.66	2.93	96.92
	65.33	1.20	14.09	5.53	0.21	1.16	2.99	3.90	2.64	97.05
	64.80	1.17	13.97	5.75	0.14	1.15	2.96	3.53	2.72	96.19
mean	*65.67*	*1.11*	*13.99*	*5.51*	*0.17*	*1.01*	*2.80*	*3.70*	*2.76*	*96.72*
s.d	*1.08*	*0.12*	*0.09*	*0.25*	*0.04*	*0.26*	*0.31*	*0.19*	*0.15*	*0.46*

10s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.99	0.91	13.92	4.87	0.13	0.78	2.43	5.14	2.97	98.14
	65.07	1.09	14.19	5.86	0.19	1.01	2.98	4.79	2.71	97.89
	64.77	1.12	13.80	5.89	0.13	1.15	2.94	4.81	2.78	97.39
mean	*65.61*	*1.04*	*13.97*	*5.54*	*0.15*	*0.98*	*2.78*	*4.91*	*2.82*	*97.80*
s.d	*1.21*	*0.11*	*0.20*	*0.58*	*0.03*	*0.19*	*0.31*	*0.19*	*0.13*	*0.38*

32-1: T4 Layer Ho 21/8/2000-1 Section by road MICROSCAN DATA

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	67.28	0.90	13.80	5.39	0.16	0.80	2.56	4.58	3.19	98.66
	67.19	0.89	13.79	5.23	0.34	0.82	2.50	4.26	3.11	98.13
	67.00	0.91	13.61	5.60	0.20	0.79	2.45	4.57	2.96	98.09
	66.80	1.04	13.66	5.83	0.20	0.90	2.65	4.26	2.96	98.30
	66.25	0.92	13.61	5.63	0.17	0.86	2.63	4.38	2.95	97.40
	66.23	1.14	13.87	5.89	0.18	1.11	3.23	4.35	2.63	98.63
	65.84	1.02	13.97	5.84	0.19	1.12	3.18	4.50	2.93	98.59
	65.68	1.11	14.02	5.77	0.17	1.06	2.96	4.49	2.89	98.15
	65.64	1.06	13.91	5.99	0.16	1.13	2.98	4.52	2.68	98.07
	65.55	1.00	13.85	6.43	0.22	1.14	3.21	4.22	2.69	98.31
	65.27	1.09	13.94	5.94	0.21	1.16	3.01	4.54	2.83	97.99
	65.13	1.94	13.88	6.16	0.25	1.11	2.88	4.44	2.75	98.54
mean	*66.16*	*1.09*	*13.83*	*5.81*	*0.20*	*1.00*	*2.85*	*4.43*	*2.88*	*98.24*
s.d.	*0.76*	*0.28*	*0.14*	*0.32*	*0.05*	*0.15*	*0.28*	*0.13*	*0.17*	*0.36*

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	49.57	3.96	12.85	12.82	0.17	4.31	8.71	3.39	1.12	96.90
	49.42	3.80	12.44	14.02	0.23	4.02	8.81	3.12	1.01	96.87
	49.24	4.11	12.86	13.38	0.21	4.52	8.91	3.30	1.00	97.53
	49.22	4.02	12.79	13.74	0.20	4.54	9.20	3.18	1.02	97.91
	49.12	3.91	12.90	13.75	0.32	4.51	10.01	3.26	1.04	98.82
	48.64	4.14	12.85	13.66	0.23	4.67	9.12	3.26	0.96	97.53
	46.86	4.57	12.74	14.88	0.24	5.18	10.02	2.92	0.74	98.15
	46.67	4.29	12.79	14.77	0.22	5.17	9.83	3.14	0.86	97.74
	46.57	4.61	12.74	14.31	0.17	5.08	10.03	2.95	0.73	97.19
	46.44	4.70	12.62	14.66	0.20	4.95	10.11	3.12	0.78	97.58
	46.28	4.45	12.75	14.73	0.24	5.41	9.83	2.96	0.77	97.42
	45.59	4.55	12.46	14.98	0.19	5.19	10.17	3.06	0.71	96.90
mean	*47.80*	*4.26*	*12.73*	*14.14*	*0.22*	*4.80*	*9.56*	*3.14*	*0.90*	*97.55*
s.d.	*1.51*	*0.31*	*0.15*	*0.69*	*0.04*	*0.43*	*0.56*	*0.15*	*0.15*	*0.57*

35-C5: 5/9-1G L Camebax comparison data

30s bkds

SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
48.15	4.44	13.26	14.33	0.21	5.03	9.79	2.72	0.85	98.78

30s

SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
50.30	3.72	13.04	12.66	0.22	4.28	8.42	3.24	1.13	97.01
50.15	3.60	13.37	12.05	0.16	4.12	8.16	3.27	1.14	96.02
47.42	4.29	12.92	14.00	0.21	5.06	9.55	3.13	0.78	97.36
47.39	4.32	12.93	13.69	0.21	4.77	9.52	3.20	0.82	96.86
47.12	4.27	12.83	14.10	0.21	5.19	9.64	2.93	0.77	97.05
47.07	4.33	12.98	13.90	0.22	4.88	9.55	3.15	0.76	96.85
46.97	4.24	12.88	13.78	0.20	4.93	9.62	3.04	0.79	96.44
46.92	4.33	13.02	13.58	0.22	5.05	9.56	3.00	0.78	96.45
46.89	4.31	12.86	13.77	0.22	5.10	9.67	3.07	0.75	96.64
46.89	4.28	12.96	13.67	0.25	5.03	9.54	3.17	0.75	96.53
46.84	4.33	13.03	14.07	0.20	5.05	9.63	3.04	0.79	96.98
47.63	*4.18*	*12.98*	*13.57*	*0.21*	*4.86*	*9.35*	*3.11*	*0.84*	*96.74*
1.30	*0.26*	*0.15*	*0.64*	*0.02*	*0.35*	*0.53*	*0.11*	*0.15*	*0.37*

30s rastered

SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
50.33	3.61	13.29	11.99	0.23	4.08	8.22	3.55	1.16	96.45
47.05	4.36	12.89	13.91	0.18	5.07	9.56	3.24	0.80	97.05
46.95	4.28	12.80	13.87	0.22	5.03	9.52	3.19	0.74	96.61
46.90	4.30	12.89	13.86	0.19	4.91	9.61	3.05	0.76	96.46
46.87	4.35	12.92	13.79	0.23	4.98	9.71	3.14	0.78	96.76
46.24	4.26	13.01	13.85	0.21	5.02	9.54	3.07	0.75	95.95
47.39	*4.19*	*12.96*	*13.55*	*0.21*	*4.85*	*9.36*	*3.21*	*0.83*	*96.55*
1.47	*0.29*	*0.17*	*0.76*	*0.02*	*0.38*	*0.56*	*0.18*	*0.16*	*0.37*

35-5: 5/9/2000-1G Layer L MICROSCAN DATA

Total of 26 analyses

SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
68.07	0.92	13.73	4.32	0.17	0.77	2.09	4.66	3.15	97.88
63.91	1.49	13.56	6.25	0.20	1.45	3.41	4.21	2.56	97.04
63.63	1.55	13.82	6.07	0.15	1.29	3.29	4.30	2.64	96.74
62.86	1.37	13.59	6.36	0.16	1.49	3.55	4.51	2.50	96.39
62.84	1.43	13.61	5.98	0.09	1.40	3.53	4.30	2.56	95.74
61.19	1.74	13.57	7.07	0.12	1.75	4.16	4.21	2.37	96.18
63.75	*1.42*	*13.65*	*6.01*	*0.15*	*1.36*	*3.34*	*4.37*	*2.63*	*96.66*
2.32	*0.27*	*0.10*	*0.91*	*0.04*	*0.33*	*0.68*	*0.18*	*0.27*	*0.75*

SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
46.89	4.27	12.52	14.36	0.21	4.68	9.26	3.09	0.79	96.07
46.21	4.34	12.43	14.58	0.22	4.91	9.37	3.16	0.79	96.01
46.16	4.38	12.42	14.56	0.22	4.88	9.22	3.07	0.73	95.64
46.07	4.18	12.25	14.52	0.22	4.95	9.24	3.15	0.69	95.27
46.04	4.27	12.43	14.39	0.26	4.82	9.58	3.08	0.72	95.59
45.97	4.28	12.38	14.22	0.25	4.86	9.56	2.96	0.71	95.19
45.96	4.32	12.34	14.30	0.23	4.88	9.51	3.14	0.77	95.45
45.90	4.29	12.49	14.46	0.23	4.94	9.65	3.14	0.71	95.81
45.80	4.31	12.28	14.50	0.27	4.93	9.49	2.92	0.73	95.23
45.70	4.42	12.43	14.73	0.23	4.94	9.38	3.05	0.78	95.66
45.66	4.32	12.49	14.27	0.23	4.88	9.57	2.99	0.75	95.16
45.64	4.42	12.55	14.13	0.23	4.93	9.50	3.07	0.75	95.22
45.57	4.36	12.22	14.51	0.23	4.90	9.66	3.09	0.72	95.26
45.97	*4.32*	*12.40*	*14.43*	*0.23*	*4.88*	*9.46*	*3.07*	*0.74*	*95.50*
0.34	*0.07*	*0.10*	*0.17*	*0.02*	*0.07*	*0.15*	*0.07*	*0.03*	*0.32*

40-C3: 8/9-1 U Camebax comparison data

30s bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.00	4.34	12.68	13.96	0.21	5.15	9.70	3.04	0.75	96.84
	46.83	4.55	12.72	15.07	0.24	4.80	9.70	3.09	0.69	97.69

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	48.29	3.80	15.61	11.41	0.16	4.00	10.43	3.55	0.46	97.70
	47.84	4.52	13.03	14.98	0.19	4.95	9.26	3.04	0.87	98.68
	47.24	4.40	12.91	13.75	0.19	5.07	9.62	3.03	0.80	97.01
	47.16	4.45	12.85	13.98	0.24	4.92	9.63	3.04	0.75	97.01
	47.11	4.35	12.90	13.95	0.20	5.14	9.75	3.16	0.73	97.29
	47.09	4.37	12.97	13.82	0.18	5.01	9.63	3.20	0.76	97.02
	47.07	4.39	12.83	13.61	0.22	4.90	9.60	3.03	0.79	96.43
	46.97	4.41	12.89	13.80	0.20	4.95	9.67	3.11	0.74	96.73
	46.93	4.47	12.72	14.05	0.21	5.12	9.70	3.06	0.71	96.96
	46.81	4.41	12.86	13.95	0.17	5.05	9.59	3.11	0.70	96.64
	46.79	4.36	12.88	13.83	0.18	5.13	9.67	3.10	0.76	96.71
	45.71	4.42	12.98	13.60	0.23	4.99	9.75	2.79	0.65	95.10
mean	*47.08*	*4.36*	*13.12*	*13.73*	*0.20*	*4.94*	*9.69*	*3.10*	*0.73*	*96.94*
s.d.	*0.61*	*0.18*	*0.79*	*0.81*	*0.02*	*0.31*	*0.26*	*0.17*	*0.10*	*0.83*

30s (same grains we	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	48.29	3.80	15.61	11.41	0.16	4.00	10.43	3.55	0.46	97.70
	47.84	4.52	13.03	14.98	0.19	4.95	9.26	3.04	0.87	98.68
	47.09	4.37	12.97	13.82	0.18	5.01	9.63	3.20	0.76	97.02
	46.93	4.47	12.72	14.05	0.21	5.12	9.70	3.06	0.71	96.96
	46.81	4.41	12.86	13.95	0.17	5.05	9.59	3.11	0.70	96.64
	46.79	4.36	12.88	13.83	0.18	5.13	9.67	3.10	0.76	96.71
mean	*47.29*	*4.32*	*13.35*	*13.67*	*0.18*	*4.88*	*9.72*	*3.18*	*0.71*	*97.29*
s.d.	*0.63*	*0.26*	*1.11*	*1.19*	*0.02*	*0.43*	*0.39*	*0.19*	*0.14*	*0.78*

30s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.13	4.32	12.96	13.72	0.19	4.99	9.52	3.16	0.79	96.77
	46.93	4.48	12.86	14.14	0.22	5.13	9.65	3.16	0.73	97.30
	46.89	4.40	12.94	13.94	0.19	5.20	9.78	3.08	0.76	97.17
	46.85	4.43	12.78	14.16	0.23	5.11	9.63	3.21	0.77	97.15
	46.78	4.46	12.95	14.03	0.20	5.07	9.72	3.01	0.72	96.94
	46.70	4.40	12.78	14.02	0.21	5.14	9.68	3.14	0.75	96.81
mean	*46.88*	*4.42*	*12.88*	*14.00*	*0.21*	*5.11*	*9.66*	*3.12*	*0.75*	*97.02*
s.d.	*0.15*	*0.06*	*0.08*	*0.16*	*0.02*	*0.07*	*0.09*	*0.07*	*0.03*	*0.22*

40-3: 8/9/2000-1 Layer U, PROFILE 40 MICROCSCAN DATA

Total of 19 analyses (analyses >95.5)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	49.11	4.00	12.63	13.63	0.23	4.24	8.50	3.27	1.02	96.63
	46.53	4.46	12.18	14.83	0.18	4.80	9.33	3.12	0.81	96.24
	46.52	4.49	12.07	14.61	0.27	4.45	9.50	3.11	0.89	95.91
	46.41	4.55	12.05	14.76	0.21	4.76	9.51	3.11	0.74	96.10
	46.28	4.34	12.31	14.81	0.23	5.02	9.68	2.97	0.76	96.40
	46.13	4.50	12.32	14.38	0.24	4.94	9.72	3.06	0.74	96.03
	46.08	4.41	12.32	14.62	0.26	4.76	9.72	3.05	0.76	95.98
	46.02	4.47	12.14	14.33	0.22	4.92	9.72	3.01	0.70	95.53
	45.99	4.37	11.29	13.73	0.21	6.51	10.84	2.56	0.69	96.19
	45.98	4.51	12.45	14.23	0.22	5.05	9.55	3.09	0.74	95.82
	45.90	4.38	12.27	14.58	0.24	4.94	9.78	2.99	0.73	95.81
	45.81	4.34	12.17	14.62	0.26	5.05	9.84	2.98	0.77	95.84
	45.67	4.46	12.30	14.63	0.23	5.07	9.53	3.05	0.73	95.67
mean	*46.34*	*4.41*	*12.19*	*14.44*	*0.23*	*4.96*	*9.63*	*3.03*	*0.78*	*96.01*
s.d.	*0.87*	*0.14*	*0.31*	*0.38*	*0.02*	*0.53*	*0.50*	*0.16*	*0.09*	*0.30*

41-C3: 8/9-2 M Camebax comparison data

30s bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	45.84	4.17	12.78	14.03	0.22	5.12	9.91	2.98	0.70	95.75

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.82	4.26	12.79	14.12	0.20	5.18	9.93	3.03	0.73	97.05
	46.70	4.37	12.75	13.98	0.24	5.24	9.94	3.08	0.74	97.03
	46.57	4.34	12.89	13.90	0.23	5.16	9.88	3.07	0.74	96.78
	46.56	4.32	12.68	13.89	0.25	5.37	9.89	2.97	0.67	96.60
	46.54	4.35	12.83	13.78	0.21	5.29	9.89	3.02	0.68	96.58
	46.41	4.42	12.78	14.16	0.24	4.75	9.73	3.22	0.73	96.44
	46.35	4.29	12.91	13.84	0.24	5.26	9.91	2.96	0.67	96.43
	46.29	4.36	12.55	13.99	0.25	5.43	9.83	3.08	0.68	96.45
	46.28	4.39	12.80	13.75	0.21	5.18	10.00	2.91	0.71	96.22
	46.27	4.36	13.07	13.88	0.24	5.34	9.82	3.02	0.71	96.70
	46.13	4.34	12.59	13.66	0.24	5.29	9.80	3.01	0.69	95.74
	46.08	4.28	12.84	13.82	0.21	5.24	9.88	2.93	0.72	96.00
	45.93	4.38	12.87	13.92	0.23	5.06	9.87	2.91	0.69	95.86
	45.90	4.34	12.60	13.63	0.25	5.25	9.82	2.97	0.67	95.43
	45.89	4.29	12.54	13.76	0.24	5.20	9.93	2.82	0.69	95.36
mean	*46.31*	*4.34*	*12.77*	*13.87*	*0.23*	*5.21*	*9.87*	*3.00*	*0.70*	*96.31*
s.d.	*0.29*	*0.04*	*0.15*	*0.15*	*0.02*	*0.16*	*0.07*	*0.09*	*0.03*	*0.53*

30s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.42	4.35	12.65	13.92	0.23	5.25	9.90	3.04	0.71	96.48
	46.40	4.34	12.83	13.96	0.23	5.24	10.00	3.11	0.71	96.82
	46.35	4.33	12.81	13.91	0.21	5.25	9.87	3.01	0.68	96.41
	46.30	4.33	12.64	13.71	0.24	5.24	9.85	2.95	0.70	95.97
	46.12	4.32	12.86	13.86	0.22	5.15	9.88	2.99	0.68	96.09
	45.92	4.30	12.95	13.77	0.25	5.09	9.93	3.02	0.72	95.93
mean	*46.25*	*4.33*	*12.79*	*13.85*	*0.23*	*5.20*	*9.90*	*3.02*	*0.70*	*96.28*
s.d.	*0.19*	*0.02*	*0.12*	*0.09*	*0.01*	*0.07*	*0.05*	*0.06*	*0.01*	*0.35*

41-3 8/9/2000-2 Layer M MICROSCAN DATA

Total of 15 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(b)	46.11	4.28	12.42	14.32	0.22	5.11	9.85	2.91	0.68	95.90
	46.01	4.32	12.55	14.50	0.24	5.19	9.70	3.06	0.70	96.27
	45.92	4.29	12.53	14.28	0.25	5.07	10.08	3.04	0.76	96.22
	45.87	4.34	12.44	14.56	0.26	5.31	9.96	2.95	0.70	96.39
	45.87	4.19	12.49	14.33	0.21	5.20	9.71	3.01	0.73	95.74
	45.87	4.32	12.47	14.66	0.20	5.16	9.93	3.01	0.69	96.31
	45.83	4.41	12.40	14.35	0.25	5.18	9.86	2.95	0.65	95.88
	45.82	4.13	12.34	14.50	0.16	5.23	9.68	2.99	0.72	95.57
	45.76	4.49	12.37	14.51	0.21	5.16	10.09	3.01	0.69	96.29
	45.66	4.25	12.40	14.61	0.22	5.16	9.94	3.02	0.69	95.95
	45.65	4.25	12.29	14.65	0.21	5.02	9.79	2.99	0.72	95.57
	45.63	4.38	12.49	14.56	0.22	5.19	9.94	2.91	0.64	95.96
	45.61	4.26	12.49	14.37	0.23	5.10	9.67	3.12	0.70	95.55
mean	*45.82*	*4.30*	*12.44*	*14.48*	*0.22*	*5.16*	*9.86*	*3.00*	*0.70*	*95.97*
s.d.	*0.15*	*0.09*	*0.08*	*0.13*	*0.03*	*0.07*	*0.14*	*0.06*	*0.03*	*0.30*

42-C2: T4 8/9/00-3 L Camebax comparison data

30s for bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.59	4.36	12.65	14.01	0.18	4.99	9.52	3.13	0.74	96.17

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	64.02	1.44	12.81	14.23	0.18	1.35	3.44	3.18	2.56	96.07
	63.91	1.44	13.72	6.10	0.18	1.48	3.59	3.25	2.51	96.18
	63.63	1.44	13.87	5.99	0.16	1.39	3.57	3.18	2.57	95.81
mean	*63.85*	*1.44*	*13.47*	*8.77*	*0.17*	*1.41*	*3.54*	*3.20*	*2.55*	*96.02*
s.d.	*0.20*	*0.00*	*0.57*	*4.73*	*0.01*	*0.07*	*0.08*	*0.04*	*0.04*	*0.19*

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	48.44	4.03	13.21	13.26	0.21	4.56	8.72	3.40	0.93	96.75
	48.44	4.03	13.21	13.26	0.21	4.56	8.72	3.40	0.93	96.75
	47.53	4.39	13.19	14.47	0.21	4.96	9.78	2.32	0.78	97.64
	47.28	4.30	12.81	14.23	0.18	5.10	9.55	3.08	0.76	97.29
	47.27	4.32	12.86	14.10	0.23	5.02	9.66	3.05	0.77	97.28
	47.27	4.29	12.93	14.10	0.21	5.02	9.73	3.21	0.74	97.49
	47.14	4.32	12.92	14.23	0.19	5.09	9.60	2.92	0.74	97.15
	47.08	5.18	11.29	16.03	0.23	4.55	9.29	2.98	1.01	97.64
	47.07	4.44	12.63	14.25	0.20	4.83	9.63	3.15	0.80	96.99
	46.98	4.64	12.55	14.07	0.18	4.97	9.56	3.20	0.72	96.87
	46.76	4.28	12.63	14.46	0.19	5.67	9.26	3.05	0.73	97.03
	46.71	4.14	13.13	13.63	0.21	4.96	9.52	2.96	0.75	95.99
mean	*47.23*	*4.39*	*12.74*	*14.26*	*0.20*	*4.98*	*9.48*	*3.03*	*0.79*	*97.10*
s.d.	*0.46*	*0.30*	*0.53*	*0.69*	*0.02*	*0.30*	*0.30*	*0.27*	*0.09*	*0.47*

30s rastered										
	48.53	4.02	12.87	12.93	0.21	4.64	8.69	3.45	0.91	96.25
	47.69	4.15	13.28	13.43	0.20	4.70	9.80	3.30	0.78	97.33
	47.04	4.30	12.95	14.24	0.21	5.02	9.61	2.62	0.80	96.78
	46.93	4.27	13.01	13.92	0.17	4.89	9.53	3.18	0.78	96.66
	46.91	4.27	12.91	14.08	0.19	5.00	9.53	3.16	0.79	96.85
	46.89	4.27	12.88	14.16	0.21	5.01	9.60	3.19	0.77	96.97
	46.88	4.24	12.64	13.94	0.20	4.93	9.51	3.22	0.77	96.34
	46.80	4.27	12.97	13.90	0.24	5.11	9.50	3.10	0.75	96.62
mean	*47.21*	*4.22*	*12.94*	*13.82*	*0.20*	*4.91*	*9.47*	*3.15*	*0.79*	*96.73*
s.d.	*0.60*	*0.09*	*0.18*	*0.44*	*0.02*	*0.16*	*0.33*	*0.24*	*0.05*	*0.34*

42-2: 8/9/2000-3 Hard beetle layer, Unit L MICROSCAN DATA — Total of 20 analyses

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
(a)	64.70	1.49	13.50	6.62	0.24	1.37	3.62	4.43	2.47	98.44
	63.88	1.55	13.52	6.14	0.12	1.42	3.76	4.50	2.73	97.62
	63.48	1.64	13.42	6.56	0.23	1.59	3.93	4.48	2.58	97.89
mean	*64.02*	*1.56*	*13.48*	*6.44*	*0.19*	*1.46*	*3.77*	*4.47*	*2.60*	*97.99*
s.d.	*0.62*	*0.07*	*0.05*	*0.26*	*0.07*	*0.11*	*0.16*	*0.04*	*0.13*	*0.42*
(b)	48.76	3.70	12.62	12.77	0.19	4.30	8.34	3.42	1.04	95.13
	46.72	4.33	12.26	14.18	0.23	4.95	9.53	3.17	0.75	96.12
	46.67	4.26	12.24	14.32	0.21	4.88	9.53	3.06	0.77	95.94
	46.66	4.37	12.39	14.04	0.23	4.87	9.33	3.24	0.76	95.90
	46.53	4.38	12.31	14.56	0.23	5.03	9.54	3.14	0.84	96.56
	46.53	4.29	12.25	14.54	0.23	5.01	9.34	3.10	0.77	96.07
	46.52	4.28	12.34	14.69	0.24	4.97	9.42	3.06	0.75	96.28
	46.33	4.35	12.22	14.49	0.24	4.99	9.51	3.07	0.73	95.93
	46.24	4.30	12.47	14.47	0.25	4.98	9.46	3.07	0.73	95.96
	46.21	4.31	12.32	14.13	0.26	4.92	9.55	3.13	0.79	95.63
	46.11	4.48	12.27	14.43	0.21	4.97	9.48	3.10	0.69	95.74
	46.07	4.31	12.37	14.62	0.22	4.97	9.53	3.19	0.81	96.10
	45.94	4.25	12.22	14.97	0.23	4.90	9.81	3.09	0.88	96.28
	45.93	4.38	12.16	14.40	0.20	4.96	9.59	3.13	0.72	95.47
mean	*46.52*	*4.29*	*12.32*	*14.33*	*0.23*	*4.91*	*9.43*	*3.14*	*0.79*	*95.94*
s.d.	*0.70*	*0.18*	*0.12*	*0.51*	*0.02*	*0.18*	*0.33*	*0.10*	*0.09*	*0.36*

44-C3: 9/9-2 LP Camebax comparison data

30s bkds

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.07	4.28	12.86	14.13	0.18	5.44	10.20	2.98	0.63	96.76

30s

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	47.75	4.13	14.39	12.85	0.23	4.45	10.59	3.11	0.63	98.12
	47.71	4.08	14.38	12.94	0.16	4.52	10.69	3.20	0.61	98.30
	47.36	4.14	14.24	13.09	0.19	4.21	10.00	3.30	0.66	97.19
	46.91	4.43	12.66	14.26	0.24	5.46	10.37	2.59	0.69	97.60
	46.91	4.37	13.10	12.84	0.23	5.75	11.95	2.70	0.43	98.27
	46.88	4.34	13.33	12.38	0.20	6.34	11.72	2.65	0.56	98.39
	46.45	4.32	12.86	14.13	0.20	5.47	10.10	2.86	0.66	97.06
	46.40	4.26	12.84	14.03	0.25	5.44	10.10	2.85	0.65	96.82
	46.38	4.33	12.75	13.94	0.21	5.50	10.22	2.89	0.66	96.88
	46.34	4.34	12.79	14.01	0.25	5.48	10.13	3.04	0.67	97.03
	46.16	4.23	12.87	13.52	0.20	5.32	10.12	3.10	0.65	96.16
	45.91	4.29	12.86	14.01	0.19	5.43	10.09	2.94	0.67	96.40
mean	*46.76*	*4.27*	*13.26*	*13.50*	*0.21*	*5.28*	*10.51*	*2.94*	*0.63*	*97.35*
s.d.	*0.60*	*0.11*	*0.68*	*0.64*	*0.03*	*0.60*	*0.66*	*0.22*	*0.07*	*0.77*

30s rastered

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.80	4.52	12.71	14.65	0.23	5.10	10.27	3.08	0.73	98.10
	46.74	4.43	12.94	14.32	0.23	5.51	10.57	2.62	0.66	98.02
	46.32	4.42	12.84	14.54	0.23	5.41	10.11	3.05	0.71	97.63
	46.28	4.31	12.70	14.21	0.21	5.50	10.14	3.16	0.67	97.17
	46.25	4.38	12.95	14.08	0.22	5.39	10.32	2.95	0.68	97.22
	45.76	4.28	12.92	14.03	0.18	5.32	10.11	2.88	0.66	96.15
mean	*46.36*	*4.39*	*12.84*	*14.31*	*0.22*	*5.37*	*10.26*	*2.96*	*0.68*	*97.38*
s.d.	*0.38*	*0.09*	*0.11*	*0.25*	*0.02*	*0.15*	*0.18*	*0.19*	*0.03*	*0.72*

44-3: 9/9/2000-2 LOWER PUMICE Layer M MICROSCAN DATA — Total of 19 analyses (kept analyses total >95)

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	45.80	4.32	12.19	14.71	0.23	5.26	10.09	3.10	0.70	96.40
	45.76	4.31	12.49	14.52	0.21	5.21	9.83	2.83	0.68	95.84
	45.73	4.55	12.24	14.65	0.20	5.22	10.03	2.96	0.72	96.30
	45.67	4.31	12.51	14.40	0.30	5.20	10.22	2.91	0.65	96.17
	45.64	4.27	12.43	14.26	0.20	5.28	9.91	2.91	0.66	95.56
	45.59	4.16	12.38	14.44	0.20	5.20	10.05	2.95	0.63	95.60
	45.49	4.31	12.50	14.72	0.23	5.30	9.85	2.90	0.72	96.02
	45.45	4.30	12.40	14.52	0.16	5.29	9.91	2.98	0.70	95.71
	45.41	4.13	12.43	14.40	0.18	5.22	10.04	2.88	0.63	95.32
	45.37	4.28	12.37	14.50	0.20	5.25	10.00	2.84	0.70	95.51
	45.33	4.17	12.28	14.59	0.23	5.14	10.00	2.91	0.68	95.33
	45.29	4.40	12.40	14.60	0.19	5.18	9.85	2.96	0.70	95.57
	45.27	4.36	12.27	14.25	0.22	5.21	9.89	2.93	0.74	95.14
	45.23	4.21	12.33	14.42	0.22	5.25	9.82	2.96	0.70	95.14
	45.04	4.38	12.47	14.44	0.28	5.25	9.87	2.84	0.73	95.30
mean	*45.47*	*4.30*	*12.38*	*14.49*	*0.22*	*5.23*	*9.96*	*2.92*	*0.69*	*95.66*
s.d.	*0.22*	*0.11*	*0.10*	*0.14*	*0.04*	*0.04*	*0.12*	*0.07*	*0.03*	*0.41*

44-C4: 9/9-2 PU2 Camebax comparison data

30s bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.60	4.34	12.53	14.13	0.24	5.17	9.85	2.90	0.69	96.44

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 13 analyses	47.35	4.46	12.85	14.66	0.21	5.40	10.22	2.93	0.72	98.80
	46.95	4.35	12.60	13.94	0.19	5.06	9.52	3.08	0.78	96.48
	46.94	4.37	12.71	14.00	0.20	5.26	9.60	3.17	0.71	96.96
	46.75	4.27	12.65	14.27	0.23	5.39	9.96	3.12	0.66	97.31
	46.66	4.41	12.53	13.93	0.22	5.36	9.88	3.09	0.71	96.80
	46.62	4.38	12.73	14.02	0.27	5.41	9.96	2.94	0.70	97.02
	46.58	4.31	12.63	14.01	0.19	5.38	9.72	3.04	0.69	96.56
	46.57	4.32	12.78	13.96	0.22	5.36	9.88	3.03	0.68	96.79
	46.57	4.30	12.58	14.25	0.22	5.44	9.99	3.01	0.69	97.05
	46.57	4.40	12.35	14.03	0.21	5.23	9.77	3.10	0.71	96.37
	46.53	4.36	12.48	14.11	0.23	5.51	9.92	3.08	0.66	96.87
	46.19	4.29	12.26	14.08	0.21	5.42	9.82	3.04	0.67	95.99
mean	*46.69*	*4.35*	*12.60*	*14.10*	*0.22*	*5.35*	*9.85*	*3.05*	*0.70*	*96.92*
s.d.	*0.29*	*0.06*	*0.17*	*0.21*	*0.02*	*0.12*	*0.19*	*0.07*	*0.03*	*0.69*

30s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	46.83	4.34	12.63	13.81	0.23	5.36	9.82	2.91	0.81	96.72
	46.76	4.37	12.85	14.27	0.21	5.36	10.00	3.08	0.70	97.60
	46.59	4.33	12.51	14.03	0.24	5.13	9.51	3.21	0.77	96.31
	46.52	4.41	12.61	14.16	0.18	5.34	9.90	2.98	0.67	96.78
	46.50	4.42	12.64	13.98	0.21	5.44	9.87	3.08	0.69	96.82
	46.31	4.32	12.44	14.21	0.19	5.51	10.03	3.13	0.70	96.84
mean	*46.59*	*4.36*	*12.61*	*14.08*	*0.21*	*5.36*	*9.86*	*3.06*	*0.72*	*96.84*
s.d.	*0.19*	*0.04*	*0.14*	*0.17*	*0.02*	*0.13*	*0.19*	*0.11*	*0.05*	*0.42*

44-4:, 44-5: PU2 9/92000-2 Layer M including transect MICROSCAN DATA Total of 16 analyses

SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
46.78	4.40	12.78	14.72	0.24	4.91	10.06	3.06	0.65	97.59
46.15	4.41	12.47	14.54	0.22	5.11	9.93	3.16	0.66	96.66
46.14	4.37	12.34	14.56	0.23	5.13	9.82	3.00	0.66	96.25
46.13	4.32	12.81	14.63	0.20	5.09	10.03	3.04	0.66	96.90
46.10	4.24	12.34	14.46	0.22	5.17	9.91	3.08	0.69	96.21
46.08	4.38	12.49	14.62	0.21	5.26	9.95	3.04	0.63	96.66
46.07	4.33	12.63	14.49	0.24	5.14	9.93	3.01	0.66	96.50
46.07	4.48	12.53	14.71	0.19	5.22	9.96	3.02	0.63	96.81
46.07	4.38	12.57	14.81	0.24	5.28	9.99	3.11	0.70	97.14
46.06	4.26	12.29	14.49	0.19	5.22	9.76	3.07	0.66	96.00
46.05	4.29	12.36	14.59	0.20	5.14	9.93	3.08	0.67	96.30
46.05	4.28	12.51	14.70	0.23	5.15	9.95	3.08	0.69	96.64
46.04	4.37	12.53	14.71	0.27	5.20	9.98	3.14	0.66	96.90
46.03	4.41	12.37	14.79	0.26	5.18	9.84	3.04	0.67	96.60
46.02	4.30	12.38	14.75	0.26	5.09	9.91	3.05	0.78	96.54
46.01	4.24	12.46	14.71	0.19	5.16	10.06	3.05	0.68	96.56
46.00	4.38	12.53	14.90	0.31	5.30	9.96	3.03	0.70	97.11
46.00	4.28	12.47	14.64	0.20	5.14	9.83	3.05	0.68	96.29
45.97	4.32	12.48	14.53	0.24	5.17	10.01	3.06	0.70	96.48
45.95	4.39	12.53	14.69	0.24	5.19	9.76	3.07	0.70	96.52
45.91	4.28	12.58	14.55	0.23	5.28	10.12	2.98	0.70	96.63
45.87	4.26	12.46	14.75	0.24	5.16	10.02	3.12	0.74	96.62
45.84	4.38	12.45	14.60	0.23	5.27	9.89	3.04	0.66	96.36
45.80	4.52	12.15	14.96	0.23	5.12	9.87	3.06	0.73	96.45
45.75	4.40	12.30	14.74	0.21	5.24	9.95	3.02	0.67	96.28
mean	*46.04*	*4.35*	*12.47*	*14.67*	*0.23*	*5.17*	*9.94*	*3.06*	*0.68*	*96.60*
s.d.	*0.19*	*0.07*	*0.14*	*0.13*	*0.03*	*0.08*	*0.09*	*0.04*	*0.03*	*0.34*

68-CP2: North Aurasel Pumice 2/7/01 - B Camebax comparison data

30s bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.29	0.24	14.45	2.20	0.06	0.24	0.88	2.75	4.28	95.37
	70.02	0.22	14.21	2.17	0.09	0.22	0.83	2.81	4.07	94.63
	69.89	0.25	14.06	2.23	0.09	0.21	0.85	2.55	4.21	94.33
	69.64	0.27	14.11	2.21	0.08	0.23	0.89	2.63	4.34	94.38
	67.92	0.23	13.81	2.13	0.09	0.25	0.86	2.96	4.12	92.35
	66.22	0.22	13.68	2.11	0.03	0.22	0.85	2.74	4.02	90.09
	54.58	0.17	11.75	1.61	0.06	0.20	0.59	2.40	2.82	74.17
mean (total>/= 94)	*69.96*	*0.24*	*14.21*	*2.20*	*0.08*	*0.22*	*0.86*	*2.68*	*4.22*	*94.68*
s.d.	*0.27*	*0.02*	*0.17*	*0.02*	*0.01*	*0.01*	*0.03*	*0.12*	*0.12*	*0.48*

30s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.10	0.27	14.13	2.18	0.10	0.21	0.85	2.22	4.31	94.35
	69.65	0.26	14.01	2.25	0.09	0.24	0.85	2.59	4.30	94.25
	69.22	0.27	13.85	2.21	0.08	0.25	0.86	3.00	4.32	94.05
	68.94	0.24	13.88	2.17	0.07	0.19	0.84	2.83	4.13	93.29
	68.04	0.24	13.64	2.21	0.05	0.22	0.88	2.84	4.25	92.37
	67.95	0.21	13.82	2.11	0.05	0.24	0.85	3.59	4.15	92.97
	56.86	0.17	11.69	1.83	0.05	0.17	0.64	2.39	3.23	77.02
mean (total>/= 94)	*69.65*	*0.27*	*14.00*	*2.21*	*0.09*	*0.23*	*0.85*	*2.60*	*4.31*	*94.22*
s.d.	*0.44*	*0.00*	*0.14*	*0.03*	*0.01*	*0.02*	*0.01*	*0.39*	*0.01*	*0.15*

30s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.37	0.23	14.14	2.11	0.07	0.24	0.82	3.56	4.33	95.86
	69.99	0.21	14.25	2.11	0.04	0.23	0.85	4.63	4.38	96.70
	69.38	0.25	14.10	2.16	0.06	0.23	0.88	4.78	4.32	96.15
	68.39	0.25	13.82	2.13	0.08	0.21	0.89	4.76	4.44	94.98
	67.39	0.23	13.63	2.10	0.08	0.21	0.77	4.85	4.26	93.51
	67.25	0.21	13.68	2.15	0.07	0.22	0.79	4.60	4.22	93.19
mean (total>/= 94)	*69.53*	*0.24*	*14.08*	*2.13*	*0.06*	*0.23*	*0.86*	*4.43*	*4.37*	*95.92*
s.d.	*0.86*	*0.02*	*0.18*	*0.02*	*0.02*	*0.01*	*0.03*	*0.59*	*0.05*	*0.72*

10s for bkds	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.44	0.24	14.09	2.20	0.10	0.24	0.85	3.56	4.37	96.08
	70.05	0.26	14.17	2.23	0.07	0.19	0.88	2.92	4.21	94.98
	69.63	0.23	14.11	2.15	0.07	0.22	0.89	3.39	4.32	95.00
	68.75	0.25	13.93	2.20	0.06	0.23	0.84	2.87	4.19	93.31
	68.71	0.26	13.81	2.06	0.11	0.26	0.85	3.25	4.35	93.64
	67.82	0.26	14.00	2.09	0.08	0.25	0.89	3.76	4.11	93.27
	63.93	0.28	13.12	2.06	0.05	0.20	0.83	2.96	3.98	87.40
mean (total>/= 94)	*70.04*	*0.24*	*14.12*	*2.19*	*0.08*	*0.22*	*0.87*	*3.29*	*4.30*	*95.35*
s.d.	*0.40*	*0.02*	*0.04*	*0.04*	*0.02*	*0.03*	*0.02*	*0.33*	*0.08*	*0.63*

10s	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.58	0.26	14.27	2.18	0.06	0.21	0.86	3.05	4.15	95.62
	69.99	0.21	14.21	2.22	0.06	0.24	0.89	3.27	4.30	95.38
	69.49	0.22	13.85	2.11	0.07	0.21	0.82	3.53	4.33	94.62
	69.45	0.22	14.02	2.13	0.11	0.25	0.83	3.27	4.30	94.58
	69.05	0.26	14.02	2.10	0.05	0.22	0.87	2.90	4.33	93.80
	67.98	0.23	13.91	2.07	0.13	0.25	0.92	3.42	4.13	93.03
	65.85	0.22	13.26	1.99	0.05	0.24	0.83	3.40	4.01	89.84
	58.92	0.20	12.22	1.80	0.09	0.22	0.67	3.05	3.46	80.63
	58.56	0.21	11.90	1.72	0.05	0.17	0.68	2.43	3.31	79.04
mean (total>/= 94)	*69.88*	*0.23*	*14.08*	*2.16*	*0.07*	*0.23*	*0.85*	*3.28*	*4.27*	*95.05*
s.d.	*0.53*	*0.02*	*0.19*	*0.05*	*0.02*	*0.02*	*0.03*	*0.19*	*0.08*	*0.53*

10s rastered	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.52	0.27	14.39	2.27	0.09	0.24	0.85	5.11	4.40	98.13
	68.99	0.19	13.93	2.24	0.08	0.18	0.79	4.95	4.45	95.80
	68.36	0.24	13.93	2.12	0.07	0.22	0.85	4.69	4.28	94.76
	68.27	0.23	13.95	2.08	0.06	0.19	0.83	4.68	4.29	94.57
	67.76	0.21	13.78	2.17	0.09	0.24	0.92	4.32	4.48	93.95
	66.68	0.22	13.45	2.11	0.10	0.25	0.82	4.97	4.32	92.92
	62.98	0.21	12.89	1.92	0.05	0.19	0.74	4.60	3.94	87.51
*mean (total>/= **94**)*	*69.04*	*0.23*	*14.05*	*2.18*	*0.07*	*0.21*	*0.83*	*4.86*	*4.35*	*95.81*
s.d.	*1.04*	*0.03*	*0.23*	*0.09*	*0.01*	*0.03*	*0.03*	*0.21*	*0.08*	*1.64*

68-P2: Top North Aurasel 2/7/01-B PUM B MICROSCAN DATA

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	71.61	0.29	14.72	2.28	0.09	0.28	0.87	4.50	4.75	99.39
	71.50	0.29	14.61	2.34	0.13	0.24	0.86	4.75	4.62	99.34
	71.43	0.29	14.60	2.31	0.07	0.26	0.84	4.44	4.58	98.81
	71.40	0.30	14.61	2.41	0.11	0.26	0.82	4.65	4.71	99.27
	71.35	0.24	14.48	2.22	0.10	0.28	0.94	4.63	4.61	98.84
	71.24	0.36	14.49	2.44	0.10	0.23	0.91	4.69	4.62	99.08
	71.00	0.28	14.42	2.24	0.08	0.23	0.82	4.60	4.57	98.23
	70.89	0.27	14.37	2.27	0.11	0.24	0.80	4.72	4.60	98.27
	70.72	0.29	14.51	2.26	0.12	0.23	0.84	4.81	4.65	98.43
	70.59	0.28	14.50	2.32	0.10	0.25	0.80	4.89	4.64	98.37
	69.64	0.29	14.62	2.25	0.10	0.28	0.75	4.67	4.59	97.18
	69.05	0.29	13.83	2.19	0.10	0.25	0.86	4.48	4.44	95.50
	68.08	0.29	14.14	2.16	0.06	0.26	0.85	4.37	4.47	94.66
	67.48	0.28	13.83	2.25	0.11	0.24	0.80	4.62	4.37	93.97
	66.98	0.25	13.94	2.02	0.09	0.24	0.85	4.42	4.30	93.08
	66.23	0.21	13.61	2.37	0.10	0.23	0.84	4.53	4.33	92.46
	47.24	0.17	9.75	1.63	0.03	0.13	0.60	3.50	3.25	66.27
	33.64	0.09	7.34	1.20	0.00	0.13	0.36	2.45	2.00	47.21
*mean (total>/= **95**)*	70.87	0.29	14.48	2.29	0.10	0.25	0.84	4.65	4.62	98.39
s.d.	0.79	0.03	0.23	0.07	0.02	0.02	0.05	0.13	0.08	1.10

91-C1: 12/8/2000-3 H Camebax comparison data

30s bkds pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.23	0.29	13.84	3.65	0.15	0.09	1.04	5.41	3.14	96.83
	69.05	0.34	13.33	4.49	0.18	0.12	0.95	2.44	3.44	94.34
	68.80	0.42	12.89	4.68	0.12	0.08	0.93	4.52	3.20	95.63
	68.76	0.32	13.44	3.93	0.14	0.09	0.88	4.94	3.12	95.61
	68.43	0.29	13.67	4.28	0.17	0.13	1.08	2.85	2.91	93.79
	67.81	0.20	15.32	2.64	0.09	0.06	0.97	5.98	2.20	95.27
	46.80	4.51	12.55	13.84	0.24	4.77	9.94	2.94	0.60	96.21
mean	*68.65*	*0.31*	*13.87*	*3.73*	*0.12*	*0.08*	*0.96*	*5.21*	*2.91*	*95.83*
s.d.	*0.60*	*0.09*	*1.04*	*0.84*	*0.03*	*0.01*	*0.06*	*0.63*	*0.48*	*0.68*

30s pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	70.13	0.37	12.91	4.40	0.19	0.10	0.78	2.96	2.97	94.80
	70.07	0.32	12.08	4.33	0.14	0.08	0.83	3.32	3.33	94.50
	68.96	0.33	13.04	4.64	0.16	0.16	1.34	3.33	3.15	95.11
	68.85	0.25	15.07	2.91	0.10	0.06	0.80	7.16	2.74	97.93
	68.59	0.32	13.35	4.12	0.14	0.09	0.81	4.24	3.30	94.96
	68.41	0.32	13.73	4.02	0.15	0.12	1.08	2.90	2.90	93.63
mean	*68.90*	*0.29*	*14.06*	*3.77*	*0.13*	*0.11*	*1.07*	*5.24*	*2.94*	*96.52*
s.d.	*0.08*	*0.06*	*1.43*	*1.22*	*0.04*	*0.07*	*0.38*	*2.71*	*0.29*	*2.00*

30s raster	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.20	0.35	13.09	3.98	0.19	0.09	0.79	4.99	3.13	95.81
	68.85	0.28	13.70	3.83	0.17	0.08	0.80	5.79	3.40	96.90
	68.76	0.23	13.62	3.85	0.15	0.13	1.24	6.19	3.06	97.23
	68.45	0.29	13.53	4.04	0.13	0.12	0.95	5.40	3.30	96.22
	67.95	0.25	14.33	3.31	0.10	0.09	0.92	6.93	2.87	96.73
	67.58	0.28	13.60	3.98	0.16	0.14	1.08	5.58	2.95	95.34
mean	*68.46*	*0.28*	*13.64*	*3.83*	*0.15*	*0.11*	*0.96*	*5.81*	*3.12*	*96.37*
s.d.	*0.60*	*0.04*	*0.40*	*0.27*	*0.03*	*0.02*	*0.17*	*0.68*	*0.20*	*0.71*

20s bkds pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 6 analyses	69.92	0.34	13.32	5.21	0.23	0.16	1.63	5.31	2.85	98.95
	69.19	0.28	13.98	3.67	0.10	0.06	0.97	4.52	2.71	95.47
	69.01	0.27	14.53	3.07	0.12	0.05	0.95	6.92	2.95	97.88
	68.17	0.28	13.97	3.92	0.16	0.08	0.92	4.55	3.16	95.21
mean	*69.07*	*0.29*	*13.95*	*3.97*	*0.15*	*0.09*	*1.12*	*5.33*	*2.91*	*96.88*
s.d.	*0.72*	*0.03*	*0.49*	*0.90*	*0.05*	*0.05*	*0.34*	*1.13*	*0.19*	*1.83*

20s pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 6 analyses	69.56	0.33	13.27	4.41	0.15	0.14	0.89	2.91	3.46	95.10
	68.74	0.30	12.82	4.02	0.13	0.06	0.90	4.81	3.23	95.01
	68.53	0.33	13.71	3.68	0.13	0.08	0.89	4.72	3.33	95.38
	66.77	0.17	16.30	2.14	0.06	0.04	1.13	7.69	1.91	96.21
mean	*68.40*	*0.28*	*14.02*	*3.56*	*0.12*	*0.08*	*0.95*	*5.03*	*2.98*	*95.42*
s.d.	*1.17*	*0.08*	*1.56*	*0.99*	*0.04*	*0.04*	*0.12*	*1.98*	*0.72*	*0.55*

20s raster	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 7 analyses	69.09	0.27	13.87	3.34	0.11	0.07	1.03	6.46	3.04	97.27
	69.09	0.32	13.32	4.19	0.13	0.12	0.87	5.34	3.39	96.75
	68.64	0.31	13.68	3.88	0.15	0.10	1.27	6.46	2.90	97.39
	67.95	0.28	13.75	3.61	0.11	0.09	0.84	6.44	2.65	95.72
	67.20	0.28	13.29	3.94	0.12	0.09	0.83	6.11	3.22	95.07
mean	*68.40*	*0.29*	*13.58*	*3.79*	*0.12*	*0.10*	*0.97*	*6.16*	*3.04*	*96.44*
s.d.	*0.82*	*0.02*	*0.26*	*0.33*	*0.02*	*0.02*	*0.19*	*0.48*	*0.29*	*1.01*

91-1: North Þórsmörk H 12/8/01-3 MICROSCAN DATA

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	69.74	0.29	14.01	3.56	0.14	0.07	0.84	6.52	3.53	98.70
	69.54	0.33	14.02	4.67	0.18	0.18	1.18	5.54	3.35	98.98
	69.47	0.23	13.82	4.03	0.10	0.10	0.92	6.40	3.15	98.22
	69.46	0.31	13.96	4.48	0.15	0.16	1.05	6.89	3.02	99.49
	69.34	0.31	14.04	4.61	0.20	0.15	1.06	5.36	3.66	98.73
	69.33	0.36	13.85	4.34	0.15	0.10	0.89	4.77	3.89	97.69
	69.26	0.38	13.97	4.33	0.16	0.15	1.00	6.32	3.18	98.74
	69.19	0.33	13.66	4.24	0.13	0.13	0.90	5.88	3.40	97.85
	69.17	0.30	13.82	4.25	0.12	0.13	1.11	5.15	3.42	97.47
	69.09	0.35	14.07	4.39	0.18	0.18	1.21	6.22	3.44	99.13
	67.91	0.13	16.93	2.03	0.06	0.05	1.18	8.90	2.20	99.38
	64.54	1.09	13.64	5.89	0.22	1.00	2.96	4.68	2.61	96.64
mean	*68.84*	*0.37*	*14.15*	*4.24*	*0.15*	*0.20*	*1.19*	*6.05*	*3.24*	*98.42*
s.d.	*1.43*	*0.24*	*0.89*	*0.88*	*0.04*	*0.26*	*0.57*	*1.14*	*0.46*	*0.86*

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 8 analyses	47.73	4.26	12.62	13.96	0.20	4.52	8.73	3.43	0.90	96.35
	47.55	4.36	12.77	14.23	0.19	4.97	9.48	3.01	0.75	97.29
	47.36	4.15	12.59	14.06	0.17	4.82	9.40	3.21	0.76	96.51
	47.05	4.49	12.69	14.16	0.15	4.69	9.25	3.30	0.82	96.60
	46.95	4.55	12.71	14.25	0.18	4.84	9.23	3.07	0.82	96.59
	45.67	4.03	12.99	14.48	0.19	5.08	9.56	3.29	0.73	96.01
mean	*47.05*	*4.31*	*12.73*	*14.19*	*0.18*	*4.82*	*9.27*	*3.22*	*0.80*	*96.56*
s.d.	*0.74*	*0.20*	*0.15*	*0.18*	*0.02*	*0.20*	*0.30*	*0.16*	*0.06*	*0.42*

91-C2: 12/8/2000-3 Y Camebax comparison data

30s bkds pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 7 analyses	66.20	1.01	13.87	5.36	0.17	0.87	2.66	3.00	2.59	95.73
	65.91	1.11	13.89	5.56	0.15	0.91	2.88	3.03	2.68	96.11
	65.39	1.11	13.98	5.92	0.21	1.08	3.08	2.77	2.54	96.08
	64.94	1.18	13.88	5.87	0.20	1.02	3.10	2.97	2.45	95.61
	64.78	1.15	14.02	5.79	0.18	1.09	3.08	3.18	2.40	95.65
	64.65	1.16	13.08	5.96	0.20	1.07	3.17	3.00	2.48	95.58
mean	*65.31*	*1.12*	*13.79*	*5.74*	*0.18*	*1.00*	*3.00*	*2.99*	*2.52*	*95.79*
s.d.	*0.63*	*0.06*	*0.35*	*0.24*	*0.02*	*0.09*	*0.19*	*0.13*	*0.10*	*0.24*

30s pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 6 analyses	66.38	1.07	13.81	5.47	0.16	0.88	2.74	3.08	2.54	96.13
	65.95	1.04	13.74	5.56	0.19	0.87	2.74	2.98	2.58	95.65
	65.71	1.13	14.10	5.45	0.16	0.95	2.87	3.11	2.47	95.95
	65.00	1.11	13.85	5.81	0.21	1.01	3.08	2.99	2.51	95.56
	64.86	1.19	13.83	5.88	0.19	1.02	3.05	3.00	2.42	95.45
mean	*65.58*	*1.11*	*13.86*	*5.63*	*0.18*	*0.95*	*2.90*	*3.03*	*2.50*	*95.75*
s.d.	*0.64*	*0.06*	*0.14*	*0.20*	*0.02*	*0.07*	*0.17*	*0.06*	*0.06*	*0.28*

30s raster	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	65.99	1.00	13.76	5.42	0.18	0.87	2.67	4.59	2.69	97.17
	65.40	1.02	13.68	5.49	0.14	0.85	2.67	4.47	2.63	96.36
	64.85	1.14	13.88	5.57	0.15	1.01	3.02	4.49	2.38	96.50
	64.47	1.15	13.80	5.81	0.18	1.03	3.12	4.51	2.54	96.61
	64.44	1.16	13.68	5.84	0.16	1.00	3.04	4.42	2.53	96.27
	63.58	1.20	13.49	6.01	0.21	1.03	3.05	4.38	2.48	95.43
mean	*64.79*	*1.11*	*13.72*	*5.69*	*0.17*	*0.96*	*2.93*	*4.48*	*2.54*	*96.39*
s.d.	*0.84*	*0.08*	*0.13*	*0.23*	*0.02*	*0.08*	*0.20*	*0.07*	*0.11*	*0.57*

20s bkds pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.08	1.06	13.99	5.46	0.20	0.91	2.77	3.22	2.66	96.35
	66.05	1.05	13.84	5.44	0.17	0.88	2.80	3.11	2.55	95.88
	65.38	1.16	13.87	5.54	0.21	1.01	3.00	3.10	2.50	95.78
	65.14	1.16	13.82	5.98	0.19	1.02	3.10	3.14	2.42	95.97
	64.99	1.19	13.82	5.86	0.23	1.02	3.06	3.31	2.48	95.96
	64.87	1.19	13.82	5.90	0.21	1.04	3.08	2.41	2.53	95.05
mean	*65.42*	*1.13*	*13.86*	*5.70*	*0.20*	*0.98*	*2.97*	*3.05*	*2.52*	*95.83*
s.d.	*0.53*	*0.07*	*0.07*	*0.24*	*0.02*	*0.07*	*0.15*	*0.32*	*0.08*	*0.43*

20s pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.07	1.03	13.84	5.27	0.17	0.93	2.79	3.32	2.60	96.02
	65.95	1.03	13.71	5.43	0.19	0.88	2.75	3.29	2.66	95.88
	65.14	1.18	13.85	5.89	0.15	1.02	3.11	3.00	2.56	95.90
	65.05	1.19	13.87	5.91	0.21	1.03	3.16	3.29	2.47	96.16
	64.72	1.21	13.76	5.93	0.20	1.03	3.22	3.10	2.47	95.63
	64.55	1.18	13.78	5.84	0.18	1.05	3.03	3.16	2.54	95.31
mean	*65.25*	*1.14*	*13.80*	*5.71*	*0.18*	*0.99*	*3.01*	*3.19*	*2.55*	*95.82*
s.d.	*0.63*	*0.08*	*0.06*	*0.29*	*0.02*	*0.07*	*0.19*	*0.13*	*0.08*	*0.30*

20s raster	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.10	1.06	13.81	5.25	0.17	0.89	2.71	4.53	2.66	97.18
	65.49	1.02	13.76	5.51	0.18	0.87	2.82	4.55	2.65	96.86
	64.87	1.17	13.90	6.05	0.18	1.05	3.09	4.74	2.39	97.42
	64.84	1.13	13.89	5.76	0.12	1.00	3.11	4.64	2.59	97.08
	64.44	1.11	13.69	5.81	0.16	1.07	3.12	4.49	2.46	96.35
	63.88	1.10	13.52	5.81	0.25	1.00	3.04	4.58	2.55	95.72
mean	*64.94*	*1.10*	*13.76*	*5.70*	*0.18*	*0.98*	*2.98*	*4.59*	*2.55*	*96.77*
s.d.	*0.78*	*0.05*	*0.14*	*0.28*	*0.04*	*0.08*	*0.17*	*0.09*	*0.11*	*0.63*

10s bkds pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 7 analyses	66.00	1.07	3.05	0.85	0.20	0.91	2.84	3.60	2.66	96.70
	65.59	1.17	13.98	5.15	0.16	0.97	2.83	3.60	2.51	95.94
	65.39	1.08	13.51	5.52	0.15	0.85	2.88	3.58	2.59	95.55
	65.00	1.24	13.91	5.58	0.17	1.06	3.19	3.62	2.44	96.19
	64.64	1.21	13.74	5.68	0.19	1.00	3.08	3.48	2.52	95.55
mean	*65.32*	*1.15*	*11.64*	*4.56*	*0.17*	*0.96*	*2.97*	*3.57*	*2.54*	*95.99*
s.d.	*0.52*	*0.08*	*4.80*	*2.08*	*0.02*	*0.08*	*0.16*	*0.05*	*0.08*	*0.49*

10s pt	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.10	1.07	13.95	5.30	0.22	0.96	2.77	3.53	2.61	96.50
	65.80	1.01	13.71	5.58	0.18	0.85	2.81	3.53	2.56	96.01
	65.43	1.15	13.94	5.89	0.24	1.03	3.06	3.54	2.46	96.74
	64.75	1.16	13.90	6.02	0.20	1.02	3.19	3.43	2.52	96.18
	64.54	1.13	13.56	5.69	0.18	0.96	3.01	3.57	2.59	95.22
	64.22	1.13	13.76	5.72	0.16	1.05	3.03	3.52	2.48	95.07
mean	*65.14*	*1.11*	*13.80*	*5.70*	*0.20*	*0.98*	*2.98*	*3.52*	*2.54*	*95.95*
s.d.	*0.75*	*0.06*	*0.16*	*0.25*	*0.03*	*0.07*	*0.16*	*0.05*	*0.06*	*0.68*

10s raster	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	66.00	1.11	13.62	5.43	0.15	0.82	2.79	4.84	2.67	97.42
	65.46	1.03	13.71	5.37	0.11	0.83	2.63	4.51	2.65	96.30
	65.36	1.13	13.75	5.39	0.11	0.89	2.86	4.60	2.45	96.56
	65.02	1.15	3.02	5.67	0.14	0.94	3.07	4.65	2.83	96.77
	64.82	1.22	13.78	5.70	0.17	1.08	2.99	4.70	2.50	96.96
	64.48	1.18	13.60	5.84	0.16	1.03	3.04	4.81	2.52	96.65
mean	*65.19*	*1.13*	*11.91*	*5.57*	*0.14*	*0.93*	*2.90*	*4.68*	*2.60*	*96.78*
s.d.	*0.53*	*0.07*	*4.36*	*0.20*	*0.02*	*0.11*	*0.17*	*0.12*	*0.14*	*0.38*

91-2: North Þórsmörk Y 12/8/01-3 MICROSCAN DATA

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
	72.63	0.15	12.76	3.39	0.08	0.14	0.89	4.46	3.95	98.44
	68.44	0.89	13.66	5.09	0.14	0.68	2.39	4.53	2.96	98.78
	67.36	1.02	13.81	5.45	0.15	0.88	2.41	4.35	2.76	98.19
	66.34	1.32	13.99	5.97	0.15	1.02	3.07	4.18	2.81	98.84
	65.91	1.21	13.78	6.11	0.17	1.10	2.97	4.39	2.76	98.42
	65.84	1.18	13.91	5.37	0.10	0.93	2.77	3.76	2.66	96.52
	65.82	1.12	13.86	5.68	0.18	0.98	3.03	4.56	2.65	97.88
	65.81	1.15	14.14	6.00	0.16	1.06	2.97	3.90	2.57	97.76
	65.56	1.17	14.30	5.45	0.15	0.95	2.64	4.14	2.59	96.95
	65.42	1.18	14.02	6.37	0.20	1.10	3.21	4.41	2.46	98.37
	65.27	1.17	13.78	6.09	0.20	1.11	3.07	4.32	2.74	97.75
	65.24	1.03	13.99	6.31	0.16	1.02	2.84	4.33	2.78	97.69
mean	*66.64*	*1.05*	*13.83*	*5.61*	*0.15*	*0.91*	*2.69*	*4.28*	*2.81*	*97.97*
s.d.	*2.10*	*0.30*	*0.38*	*0.80*	*0.03*	*0.27*	*0.62*	*0.24*	*0.38*	*0.70*

	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	Na_2O	K_2O	Total
total of 7 analyses	46.66	4.43	12.59	14.53	0.18	5.19	9.86	3.03	0.72	97.19
	46.65	4.41	12.42	14.53	0.24	4.93	9.46	3.18	0.76	96.57
	46.61	4.46	12.69	14.31	0.25	5.10	9.74	2.98	0.70	96.85
	46.54	4.51	12.60	14.40	0.25	5.17	9.80	3.05	0.70	97.02
	46.16	4.53	12.60	14.66	0.23	5.19	9.86	2.97	0.63	96.83
	45.92	4.44	12.52	14.44	0.19	5.17	9.78	2.86	0.71	96.03
mean	*46.43*	*4.46*	*12.57*	*14.48*	*0.22*	*5.12*	*9.75*	*3.01*	*0.70*	*96.75*
s.d.	*0.31*	*0.05*	*0.09*	*0.12*	*0.03*	*0.10*	*0.15*	*0.10*	*0.04*	*0.41*

Appendix 2

Electron microprobe data: interpretation

- Tephra and diamict matrices: means and standard deviations
- Tephra only: means and standard deviations
- Analyses like Veiðivötn
- Analysis like Eyjafjallajökull
- Analyses like Katla basalt
- Analyses like SILK YN
- Analyses like SILK UN
- Analyses like Hekla-S
- Analyses like Hekla 3

Electron Microprobe Data (Tephra and Diamict Matrices): means and standard deviations for each sample

Profile	Title sample	Tephra or not	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
16	16-1: 21/6/2000-1 SmL Lower cobble, Oully be Gigjokull (a)	Not		68.57	2.06	0.39	0.07	13.16	1.00	4.85	1.11	0.19	0.05	0.20	0.03	1.59	0.27	4.85	0.32	3.70	0.13	97.48	2.30
16	16-1: 21/6/2000-1 SmL Lower cobble, Oully be Gigjokull (b)	Not		48.47	2.94	4.25	0.73	12.61	0.51	14.25	1.02	0.25	0.05	4.27	1.00	8.55	1.37	3.35	0.50	1.14	0.58	97.13	1.01
17	17-2: 22/6 H	Tephra	Layer H	68.82	0.90	0.25	0.06	13.57	0.41	4.32	0.63	0.17	0.04	0.11	0.02	1.05	0.32	5.79	0.24	3.63	0.20	97.70	0.67
17	17-1: 226Y (a)	Tephra	SILK YN	66.37	1.07	1.09	0.09	13.86	0.15	5.89	0.34	0.19	0.03	1.05	0.14	2.89	0.20	4.39	0.35	2.86	0.15	98.58	0.63
17	17-1: 226Y (b)	Tephra	SILK YN	48.72	1.27	4.29	0.24	12.66	0.20	13.80	0.67	0.23	0.03	4.64	0.35	9.18	0.43	3.20	0.12	0.95	0.14	97.66	0.62
18	18-1: 22/6/2000 BLACK NEEDLE LAYER	Tephra		47.05	0.65	4.54	0.11	12.46	0.26	14.62	0.30	0.21	0.03	4.78	0.07	9.40	0.31	3.14	0.16	0.85	0.05	97.04	1.05
19	19-1: 22/6/2000-3 SmL Unit X	Not		47.11	0.42	4.51	0.13	12.64	0.11	14.17	0.20	0.24	0.03	4.70	0.06	9.10	0.16	3.23	0.06	0.86	0.08	96.57	0.68
23	23-2: 27/6St Layer St 27/6/2000-S1A, Oudrun's ref section (a)	Tephra	Layer St	63.39	0.86	0.92	0.16	14.91	0.44	6.36	0.24	0.19	0.03	1.27	0.07	4.26	0.36	4.10	0.14	1.70	0.32	97.09	1.05
23	23-2: 27/6St Layer St 27/6/2000-S1A, Oudrun's ref section (b)	Tephra	Layer St	46.82	0.84	4.45	0.11	12.49	0.12	13.72	0.70	0.24	0.02	4.84	0.22	9.90	0.17	3.06	0.04	0.77	0.01	96.29	0.31
23	23-1: 27/6Un Layer UN, 27/6/2000-S1A Oudrun's ref section (a)	Tephra	SILK UN	64.40	0.56	1.33	0.08	13.73	0.32	6.01	0.18	0.23	0.03	1.33	0.06	3.42	0.33	4.30	0.20	2.77	0.44	97.52	0.77
23	23-1: 27/6Un Layer UN, 27/6/2000-S1A Oudrun's ref section (b)	Tephra	SILK UN	46.73	0.28	4.44	0.20	12.32	0.51	14.43	0.71	0.24	0.05	4.71	0.32	9.30	0.23	3.24	0.16	0.88	0.11	96.28	0.33
24	24-2: CL 27/6/2000-1B Coarse layer, Unit U, PROFILE 24	Tephra		46.29	0.18	4.49	0.13	12.59	0.18	14.47	0.19	0.23	0.02	5.00	0.14	9.60	0.14	3.10	0.07	0.73	0.05	96.50	0.26
24	24-2: CL 27/6/2000-1B Coarse layer, Unit U - same as above?	Tephra		46.06	0.66	4.47	0.12	12.55	0.17	14.42	0.19	0.23	0.03	5.01	0.12	9.56	0.24	3.09	0.06	0.74	0.09	96.15	0.85
24	24-1: 28/6-B H (a)	Tephra	Layer H	69.41	0.75	0.3	0.05	13.88	0.19	4.46	0.47	0.15	0.04	0.14	0.04	1.17	0.17	5.14	0.52	3.53	0.13	98.19	0.73
24	24-1: 28/6-B H (b)	Tephra	Layer H	49.46	2.01	3.91	0.58	12.59	0.72	13.70	1.03	0.23	0.04	4.12	0.61	8.25	1.03	3.37	0.36	1.26	0.44	96.89	0.74
26	26-1: 30/6 SmS 30/6/2000-1 Matrix SmS unit above Sm, Oully by Gigjokull (a)	Not		68.82	2.05	0.28	0.07	14.34	1.44	3.75	0.50	0.16	0.02	0.08	0.02	1.73	0.26	5.83	0.93	3.53	0.42	98.51	0.33
26	26-1: 30/6 SmS 30/6/2000-1 Matrix SmS unit above Sm, Oully by Gigjokull (b)	Not		47.76	1.11	3.59	1.35	12.59	0.52	13.67	0.99	0.27	0.05	5.41	0.79	10.27	0.95	2.91	0.35	0.64	0.31	97.11	0.57
27	27-1: 30/6 Sm 30/6/2000-2 Gravel between layers H and Y, Oully by Gigjokull (a)	Not		67.03	1 analysis	0.32	1 analysis	15.97	1 analysis	3.60	1 analysis	0.11	1 analysis	0.09	1 analysis	2.09	1 analysis	7.11	1 analysis	2.80	1 analysis	99.32	1 analysis
27	27-1: 30/6 Sm 30/6/2000-2 Gravel between layers H and Y, Oully by Gigjokull (b)	Not		49.47	3.41	3.92	0.90	12.40	0.96	14.16	1.86	0.25	0.05	4.07	0.77	8.21	1.28	3.03	0.89	1.24	0.44	96.75	0.74
30	30-5: T6, 3/7/2000-1 section by road, St? (a)	Tephra	St?	63.54	0.51	0.85	0.16	15.79	1.12	5.77	0.82	0.06	0.06	1.11	0.21	5.02	0.04	4.78	0.81	1.42	0.14	98.33	1.13
30	30-5: T6, 3/7/2000-1 section by road, St? (b)	Tephra	St?	55.98	1.11	1.89	0.15	14.10	0.99	11.19	1.06	0.26	0.04	2.48	0.36	6.04	0.36	3.71	0.55	1.46	0.15	97.09	0.56
30	30-5: T6, 3/7/2000-1 section by road, St? ©	Tephra	St?	46.24	0.40	4.63	0.36	12.19	0.45	14.92	0.74	0.22	0.04	4.76	0.39	9.50	0.29	3.15	0.06	0.80	0.12	96.40	0.36
30	30-4: T7, 3/7/2000-1 section by road, Un?	Tephra	SILK UN?	65.18	0.34	1.32	0.08	13.66	0.17	6.01	0.19	0.06	0.04	1.31	0.07	3.48	0.24	4.61	0.47	2.49	0.47	98.12	0.50
30	30-2: *2St Layer St 3/7/2000 Section by road (a)	Tephra	St	68.06	2.81	0.48	0.42	14.06	1.11	4.68	0.85	0.14	0.05	0.34	0.39	1.90	1.45	5.37	0.89	3.03	0.90	98.06	0.77
30	30-2: *2St Layer St 3/7/2000 Section by road (b)	Tephra	St	54.44	4.47	2.53	1.12	14.45	1.67	11.27	2.67	0.22	0.04	2.86	1.34	6.88	1.79	3.96	0.69	1.20	0.36	97.81	1.02
30	30-1: *1Un Layer UN 3/7/2000 Section by road (a)	Tephra	SILK UN	64.82	0.62	1.29	0.06	13.74	0.12	5.96	0.21	0.19	0.03	1.30	0.06	3.40	0.20	4.68	0.39	2.46	0.43	97.84	0.69
30	30-1: *1Un Layer UN 3/7/2000 Section by road (b)	Tephra	SILK UN	46.84	0.21	4.55	0.10	12.22	0.44	14.46	0.19	0.22	0.02	4.83	0.09	9.55	0.14	3.17	0.03	0.87	0.15	96.71	0.20
30	30-3: T6 Layer Y 3/7/2000 Section by road (a)	Tephra	SILK YN	65.81	0.65	1.08	0.08	13.76	0.15	6.00	0.34	0.22	0.07	1.09	0.11	2.93	0.24	4.37	0.20	2.75	0.11	98.01	0.43
30	30-3: T6 Layer Y 3/7/2000 Section by road (b)	Tephra	SILK YN	46.27	0.22	4.52	0.07	12.52	0.12	14.38	0.21	0.23	0.03	5.19	0.02	9.99	0.11	2.96	0.06	0.73	0.04	96.79	0.42
31	31-2: T2 (a)	Tephra		69.13	1.69	0.28	0.06	13.62	0.70	4.88	1.38	0.18	0.10	0.19	0.20	1.44	1.27	5.27	0.69	3.56	0.36	98.54	0.47
31	31-2: T2 (b)	Tephra		47.63	1.84	4.20	0.62	12.74	0.46	13.76	0.82	0.24	0.05	4.67	0.51	9.15	0.84	3.32	0.33	1.02	0.24	96.73	0.35
31	31-3: T3 (a)	Tephra		70.15	1.33	0.26	0.08	13.63	0.55	4.55	0.96	0.15	0.04	0.13	0.05	1.07	0.47	5.76	0.85	3.48	0.38	99.18	0.46
31	31-3: T3 (b)	Tephra		48.59	1.73	4.01	0.57	12.67	0.22	14.08	0.65	0.30	0.12	4.53	0.52	9.03	0.76	3.42	0.33	0.96	0.23	97.58	0.41
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (a)	Tephra	SILK YN	66.07	0.88	1.10	0.12	13.80	0.24	6.01	0.38	0.20	0.07	1.03	0.15	2.99	0.29	4.46	0.47	2.90	0.46	98.56	0.49
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (b)	Tephra	SILK YN	46.88	1.16	4.45	0.19	12.62	0.18	13.75	0.47	0.18	0.03	4.99	0.31	9.70	0.49	3.12	0.17	0.81	0.14	96.49	0.59
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (a)	Tephra	SILK YN	66.07	0.88	1.10	0.12	13.80	0.24	6.01	0.38	0.20	0.07	1.03	0.15	2.99	0.29	4.46	0.47	2.90	0.46	98.56	0.49
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (b)	Tephra	SILK YN	46.88	1.16	4.45	0.19	12.62	0.18	13.75	0.47	0.18	0.03	4.99	0.31	9.70	0.49	3.12	0.17	0.81	0.14	96.49	0.59
31	31-2: T2 Layer Ho 18/8/2000-1 Oully by Gigjokull (a)	Tephra	Layer H	69.48	0.58	0.25	0.06	14.06	0.87	4.27	0.77	0.15	0.07	0.12	0.06	1.10	0.31	5.54	1.08	3.54	0.42	98.52	0.43
31	31-2: T2 Layer Ho 18/8/2000-1 Oully by Gigjokull (b)	Tephra	Layer H	47.46	1.86	4.25	0.63	12.62	0.62	13.95	1.02	0.25	0.06	4.63	0.51	9.13	0.80	3.29	0.33	1.02	0.23	96.59	0.60
31	31-3: T3 Layer Ho(2) 18/8/2000-1 Oully by Gigjokull (a)	Tephra	Layer H (2)	70.46	0.76	0.25	0.06	13.64	0.58	4.34	0.58	0.14	0.04	0.12	0.04	0.95	0.17	5.83	0.84	3.47	0.40	99.20	0.48
31	31-3: T3 Layer Ho(2) 18/8/2000-1 Oully by Gigjokull (b)	Tephra	Layer H (2)	48.59	1.73	4.01	0.57	12.67	0.22	14.08	0.65	0.30	0.12	4.53	0.52	9.03	0.76	3.42	0.33	0.96	0.23	97.58	0.41
32	32-4: 21/8 Sm Basal gravel from section by road. Sm? Or SmL? Possibly below Y (a)	Not		66.69	2.80	0.79	0.48	13.25	0.52	5.04	1.28	0.19	0.05	0.77	0.50	2.39	1.07	4.55	0.22	3.13	0.50	96.81	0.74
32	32-4: 21/8 Sm Basal gravel from section by road. Sm? Or SmL? Possibly below Y (b)	Not		46.52	1.05	4.26	0.64	12.58	0.29	13.93	0.66	0.25	0.02	4.93	0.72	9.72	0.49	3.12	0.37	0.75	0.15	96.07	0.41
32	32-2: T5 (a)	Tephra		69.98	1.04	0.23	0.05	13.94	0.76	4.47	1.20	0.16	0.09	0.17	0.14	1.21	0.46	5.56	0.88	3.39	0.47	99.10	0.43
32	32-2: T5 (b)	Tephra		47.68	1.02	4.36	0.25	12.51	0.25	14.28	0.40	0.19	0.02	4.59	0.48	9.36	0.53	3.19	0.21	0.84	0.13	97.01	0.57
32	32-1: T4 (a)	Tephra		66.16	0.76	1.09	0.28	13.83	0.14	5.81	0.32	0.20	0.05	1.00	0.15	2.85	0.28	4.43	0.13	2.88	0.17	98.24	0.36
32	32-1: T4 (b)	Tephra		47.80	1.51	4.26	0.31	12.73	0.15	14.14	0.69	0.22	0.04	4.60	0.43	9.56	0.56	3.14	0.15	0.90	0.15	97.55	0.57
32	32-3: T4 repeated (a)	Tephra		65.80	0.66	1.14	0.09	13.78	0.28	5.97	0.38	0.15	0.15	0.99	0.12	2.93	0.22	4.65	0.24	2.82	0.14	98.21	0.55
32	32-3: T4 repeated (b)	Tephra		46.68	0.77	4.43	0.14	12.51	0.07	14.30	0.86	0.18	0.04	4.98	0.19	9.81	0.45	3.02	0.13	0.74	0.08	96.65	0.84
32	32-1: T4 Layer Ho 21/8/2000-1 Section by road (a)	Tephra	Layer H	66.16	0.76	1.09	0.28	13.83	0.14	5.81	0.32	0.20	0.05	1.00	0.15	2.85	0.28	4.43	0.13	2.88	0.17	98.24	0.36
32	32-1: T4 Layer Ho 21/8/2000-1 Section by road (b)	Tephra	Layer H	47.80	1.51	4.26	0.31	12.73	0.15	14.14	0.69	0.22	0.04	4.60	0.43	9.56	0.56	3.14	0.15	0.90	0.15	97.55	0.57
32	32-2: T5 Layer Ho(2) 21/8/2000 Section by road (a)	Tephra	Layer H (2)	70.33	0.53	0.23	0.05	13.92	0.28	4.29	0.40	0.15	0.08	0.13	0.04	1.09	0.17	5.40	0.80	3.47	0.48	99.00	0.38
32	32-2: T5 Layer Ho(2) 21/8/2000 Section by road (b)	Tephra	Layer H (2)	47.68	1.02	4.36	0.25	12.51	0.25	14.28	0.40	0.19	0.02	4.59	0.48	9.36	0.53	3.19	0.21	0.84	0.13	97.01	0.57
34	34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 (a)	Tephra	K-E or K-N	70.36	1 analysis	0.28	1 analysis	13.16	1 analysis	3.93	1 analysis	0.03	1 analysis	0.22	1 analysis	1.25	1 analysis	4.92	1 analysis	3.6	1 analysis	97.75	1 analysis
34	34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 (b)	Tephra	K-E or K-N	46.47	0.39	4.50	0.11	12.57	0.11	14.50	0.19	0.21	0.03	4.96	0.12	9.80	0.13	3.06	0.07	0.76	0.04	96.83	0.49
34	34-4: MPU 4/9/2000-1 Main pumice unit, Unit U	Tephra	K-E or K-N	46.21	0.35	4.49	0.12	12.56	0.16	14.33	0.33	0.25	0.03	4.98	0.08	9.68	0.10	3.09	0.04	0.77	0.05	96.34	0.77
34	34-5: TC (T below Un/St , above 2 pale tephras) N Markarfljot 4/9/2000 (b)	Tephra		*55.60*	*0.47*	*1.88*	*0.12*	*14.62*	*1.01*	*10.73*	*1.02*	*0.19*	*0.05*	*2.55*	*0.24*	*6.43*	*0.44*	*3.63*	*0.61*	*1.29*	*0.13*	*96.93*	*0.96*
34	34-5: TC (T below Un/St , above 2 pale tephras) N Markarfljot 4/9/2000 ©	Tephra		46.48	0.94	4.66	0.26	12.42	0.20	14.94	0.42	0.22	0.05	4.71	0.04	9.64	0.29	3.24	0.13	0.82	0.09	97.12	0.35
34	34-1: TB Layer Un (a)	Tephra	SILK UN	64.76	0.45	1.34	0.08	13.97	0.15	5.95	0.21	0.31	0.63	1.30	0.08	3.41	0.23	4.51	0.37	2.52	0.20	98.06	0.77
34	34-1: TB Layer Un (b)	Tephra	SILK UN	47.20	0.77	4.43	0.27	12.96	0.57	14.02	1.66	0.19	0.04	4.95	0.83	10.09	1.32	3.07	0.28	0.73	0.17	97.63	1.45
34	34-2: TA Layer St (a)	Tephra	St	63.76	0.99	0.82	0.26	15.48	1.60	6.12	2.02	0.09	0.05	1.12	0.36	4.18	0.88	4.54	1.17	1.78	0.57	97.88	1.05
34	34-2: TA Layer St (b)	Tephra	St	46.55	0.49	3.48	0.44	11.33	4.38	14.27	0.63	0.21	0.05	6.32	0.85	13.11	4.32	2.32	1.04	0.40	0.25	97.98	1.10
35	35-5: 5/9/2000-1G Layer L (a)	Tephra		63.75	2.32	1.42	0.27	13.65	0.10	6.01	0.91	0.15	0.04	1.36	0.33	3.34	0.68	4.37	0.18	2.63	0.27	96.66	0.75
35	35-5: 5/9/2000-1G Layer L (b)	Tephra		45.97	0.34	4.32	0.07	12.40	0.10	14.43	0.17	0.23	0.02	4.88	0.07	9.46	0.15	3.07	0.07	0.74	0.03	95.50	0.32
35	35-1, 35-2:TD upper pale tephra 4/9/2000 (a)	Tephra		62.54	1.95	0.93	0.22	14.39	1.29	8.74	1.79	0.29	0.21	0.99	0.56	4.35	0.66	4.29	0.64	1.83	0.38	98.35	0.74
35	35-1, 35-2:TD upper pale tephra 4/9/2000 (b)	Tephra		55.37	1.28	2.52	0.20	13.66	0.03	11.94	0.61	0.27	0.03	2.78	0.78	6.68	0.49	3.05	0.17	1.42	0.28	97.68	0.69
35	35-1, 35-2:TD upper pale tephra 4/9/2000 ©	Tephra		47.96	1.24	4.31	0.33	12.52	0.19	13.94	0.49	0.22	0.03	4.48	0.32	9.08	0.47	3.12	0.35	0.96	0.15	96.60	0.36
35	35-3: TE Lower pale tephra, North Markarfljot	Tephra		66.15	0.98	1.19	0.09	13.84	0.12	5.35	0.38	0.08	0.04	1.02	0.14	2.70	0.27	4.41	0.37	2.89	0.11	97.62	0.67
35	35-1: TD upper pale tephra 4/9/2000 (a)	Tephra		62.54	1.95	0.93	0.22	14.39	1.29	8.74	1.79	0.29	0.21	0.99	0.56	4.35	0.66	4.29	0.64	1.83	0.38	98.35	0.74
35	35-1: TD upper pale tephra 4/9/2000 (b)	Tephra		55.37	1.28	2.52	0.20	13.66	0.03	11.94	0.61	0.27	0.03	2.78	0.78	6.68	0.49	3.05	0.17	1.42	0.28	97.68	0.69
35	35-1: TD upper pale tephra 4/9/2000 ©	Tephra		47.96	1.24	4.31	0.33	12.52	0.19	13.94	0.49	0.22	0.03	4.48	0.32	9.08	0.47	3.12	0.35	0.96	0.15	96.60	0.36
36	36-1: 6/9/2000 BLACK TEPHRA	Tephra		46.73	0.47	4.57	0.15	12.51	0.10	14.52	0.22	0.21	0.02	4.84	0.20	9.53	0.28	3.08	0.12	0.81	0.07	96.79	0.45
40	40-3: 8/9/2000-1 Layer U, PROFILE 40	Tephra		46.34	0.87	4.41	0.14	12.19	0.31	14.44	0.38	0.23	0.02	4.96	0.53	9.63	0.50	3.03	0.16	0.78	0.09	96.01	0.30
40	40-1: *T20 Layer Un, N. Markarfljot (a)	Tephra	SILK UN	64.85	0.68	1.36	0.05	13.82	0.16	6.05	0.21	0.11	0.04	1.32	0.05	3.34	0.11	4.31	0.51	2.68	0.26	97.84	1.06
40	40-1: *T20 Layer Un, N. Markarfljot (b)	Tephra	SILK UN	47.37	0.82	4.83	0.27	12.13	0.82	15.33	1.49	0.34	0.28	4.46	0.45	9.59	0.54	2.96	0.17	0.91	0.21	97.92	0.75
40	40-2: T25 Layer St, North Markarfljot (a)	Tephra	Layer St	63.07	0.91	0.91	0.19	15.69	0.91	6.37	0.84	0.12	0.16	1.19	0.20	4.55	0.50	4.47	0.43	1.56	0.26	97.94	0.87
40	40-2: T25 Layer St, North Markarfljot (b)	Tephra	Layer St	54.00	2.25	2.49	0.66	13.38	0.48	12.62	0.40	0.23	0.05	3.04	0.56	6.45	0.89	3.29	0.44	1.37	0.22	96.87	0.44

Profile	Title sample	Tephra or not	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
41	41-1: T24 LOWER PALE TEPHRA	Tephra		66.31	0.47	1.13	0.06	12.82	0.10	5.30	0.19	0.18	0.04	1.04	0.05	2.83	0.15	4.49	0.23	2.91	0.08	98.02	0.69
41	41-2: T21 UPPER PALE TEPHRA	Tephra		60.22	1.66	0.82	0.16	14.42	1.15	8.16	1.29	0.28	0.05	0.90	0.38	4.30	0.61	4.63	0.40	1.94	0.24	96.66	0.29
41	41-3 8/9/2000-2 Layer M	Tephra		45.82	0.15	4.30	0.09	12.44	0.08	14.48	0.13	0.22	0.03	5.16	0.07	9.86	0.14	3.00	0.06	0.70	0.03	95.97	0.30
42	42-2: 8/9/2000-3 Hard beetle layer, Unit L (a)	Not		64.02	0.62	1.56	0.07	12.48	0.05	6.44	0.26	0.19	0.07	1.46	0.11	3.77	0.16	4.47	0.04	2.60	0.13	97.99	0.42
42	42-2: 8/9/2000-3 Hard beetle layer, Unit L (b)	Not		46.52	0.70	4.29	0.18	12.32	0.12	14.33	0.51	0.23	0.02	4.91	0.18	9.43	0.33	3.14	0.10	0.79	0.09	95.94	0.36
44	44-4:, 44-5: PU2 9/92000-2 Layer M including transect	Tephra		46.04	0.19	4.35	0.07	12.47	0.14	14.67	0.13	0.23	0.03	5.17	0.08	9.94	0.09	3.06	0.04	0.68	0.03	96.60	0.34
44	44-1: T28 Layer Un (a)	Tephra	SILK UN	64.91	0.66	1.36	0.08	12.86	0.20	5.85	0.35	0.12	0.04	1.25	0.11	3.31	0.24	4.39	0.28	2.61	0.11	97.66	0.64
44	44-1: T28 Layer Un (b)	Tephra	SILK UN	46.60	0.11	4.76	0.26	12.29	0.49	14.95	0.65	0.21	0.03	4.71	0.18	9.63	0.08	3.12	0.03	0.81	0.08	97.08	0.39
44	44-3: 9/9/2000-2 LOWER PUMICE Layer M	Tephra		45.47	0.22	4.30	0.11	12.38	0.10	14.49	0.14	0.22	0.04	5.23	0.04	9.96	0.12	2.92	0.07	0.69	0.03	96.66	0.41
44	44-4: PU2 9/92000-2 Layer M	Tephra		46.08	0.21	4.36	0.07	12.48	0.17	14.69	0.14	0.23	0.03	5.16	0.10	9.93	0.10	3.06	0.04	0.68	0.04	96.67	0.39
44	44-2: T29 Layer St	Tephra	Layer St	62.87	0.73	0.95	0.21	14.96	0.66	6.67	0.41	0.09	0.03	1.31	0.11	4.21	0.46	4.23	0.14	1.77	0.49	98.06	0.68
44	44-2: T29 Layer St	Tephra	Layer St	42.05	0.59	4.46	0.22	12.37	0.18	14.54	0.49	0.20	0.03	4.77	0.28	9.52	0.52	3.17	0.09	0.81	0.09	96.89	0.75
59	59-1: Fljotsdalur reference profile T31, H-S?	Tephra	H-S?	64.96	2.10	0.68	0.30	14.51	0.58	7.07	1.75	0.23	0.03	0.67	0.18	3.58	0.50	4.41	0.32	2.02	0.23	98.13	1.17
59	59-2: Fljotsdalur reference profile T33, N4?	Tephra	SILK N4?	65.87	0.42	1.22	0.10	12.89	0.14	5.46	0.20	0.20	0.04	1.06	0.07	2.85	0.19	4.31	0.19	2.80	0.09	97.65	0.66
59	59-3: Fljotsdalur reference profile T60	Tephra		64.46	0.50	1.31	0.06	14.06	0.13	5.87	0.32	0.16	0.03	1.30	0.10	3.47	0.24	4.26	0.33	2.66	0.13	97.56	0.85
59	59-4: Fljotsdalur reference profile T62	Tephra		66.20	0.36	1.14	0.05	14.14	0.12	5.67	0.18	0.17	0.04	1.18	0.04	3.16	0.15	4.43	0.33	2.78	0.07	98.86	0.67
59	59-5: Fljotsdalur reference profile T69	Tephra		46.38	1.18	3.84	0.75	12.07	1.13	14.12	0.51	0.22	0.04	5.20	1.05	9.41	0.69	3.01	0.28	0.75	0.19	96.01	1.25
63	63-1: SLIDE 1: Smjorgil silicic inclusion 28/6/2001 - slumping?? H	Not	Layer H	70.85	2.32	0.44	0.25	12.95	0.73	4.11	0.80	0.13	0.04	0.25	0.22	1.26	0.53	4.29	0.27	3.66	0.45	97.95	1.57
63	63-1: SLIDE 1: Smjorgil silicic inclusion 28/6/2001 - slumping?? H	Not	Layer H	42.41	1.26	4.26	0.42	12.66	0.34	14.20	0.56	0.23	0.02	4.69	0.64	9.23	0.76	3.22	0.16	0.86	0.21	96.75	0.70
68	68-P1: Top North Auraseal 2/7/01-A PUM A	Not		70.59	0.65	0.28	0.03	14.39	0.20	2.29	0.09	0.05	0.03	0.25	0.03	0.88	0.05	4.59	0.09	4.61	0.16	97.95	0.94
68	68-P2: Top North Auraseal 2/7/01-B PUM B	Not		70.87	0.79	0.29	0.03	14.48	0.23	2.29	0.07	0.10	0.02	0.25	0.02	0.84	0.05	4.65	0.13	4.62	0.08	98.39	1.10
68	68-1: North Auraseal Top pale tephra (a)	Tephra		70.90	1.22	0.24	0.04	14.48	0.31	2.36	0.03	0.08	0.06	0.28	0.01	0.88	0.03	4.39	0.15	4.60	0.11	98.21	1.54
68	68-1: North Auraseal Top pale tephra (b)	Tephra		47.23	0.83	4.40	0.12	12.54	0.19	14.08	0.37	0.20	0.03	5.09	0.86	9.03	0.20	3.20	0.06	0.85	0.07	96.63	1.27
68	68-2: North Auraseal Bottom pale tephra (a)	Tephra		71.51	1.51	0.18	0.01	12.50	1.92	2.30	0.19	0.08	0.03	0.05	0.02	0.84	0.53	5.51	1.25	3.41	0.58	97.38	1.85
68	68-2: North Auraseal Bottom pale tephra (b)	Tephra		46.92	1.33	4.37	0.30	12.57	0.17	14.10	0.78	0.24	0.01	4.86	0.29	9.45	0.63	3.11	0.12	0.82	0.16	96.44	0.56
72	72-1: 9/7/01-1 T17	Tephra		57.27	1.07	1.57	0.11	14.03	0.61	10.28	0.34	0.27	0.03	2.12	0.33	5.46	0.36	3.85	0.38	1.44	0.15	96.28	0.68
72	72-1: 9/7/01-1 T17	Tephra		45.45	0.31	4.19	0.13	12.33	0.07	14.74	0.36	0.24	0.03	5.10	0.05	9.98	0.32	3.04	0.04	0.68	0.02	95.74	0.63
75	75-4: SLIDE 1: West Kanastadir H47 9/7/2001	Tephra		58.87	0.68	1.53	0.19	14.19	1.39	10.11	1.46	0.25	0.05	2.07	0.38	5.44	0.52	3.93	0.45	1.47	0.21	97.86	0.89
75	75-1: West Kanastadir 22 Triplet	Tephra		65.07	0.28	1.20	0.06	14.02	0.12	5.55	0.11	0.18	0.03	1.17	0.06	3.19	0.11	4.37	0.23	2.72	0.09	97.48	0.43
75	75-2: West Kanastadir 25 Triplet	Tephra		65.20	0.58	1.18	0.06	12.99	0.15	5.25	0.58	0.19	0.04	1.18	0.06	3.08	0.15	4.48	0.16	2.75	0.12	97.46	0.52
75	75-3: West Kanastadir 21 Triplet	Tephra		64.46	0.53	1.27	0.10	14.11	0.18	5.73	0.29	0.19	0.04	1.27	0.07	3.37	0.18	4.34	0.38	2.66	0.06	97.40	0.36
76	76-1: 10/7/01 Drumbabol V570?	Tephra		65.18	0.90	1.42	0.51	12.94	0.71	5.20	0.56	0.18	0.06	1.05	0.07	2.93	0.35	4.62	0.20	2.63	0.26	97.13	1.04
76	76-2: DRV82 (a)	Tephra		70.33	1 analysis	0.77	1 analysis	12.67	1 analysis	3.76	1 analysis	0.06	1 analysis	0.52	1 analysis	1.47	1 analysis	4.50	1 analysis	3.34	1 analysis	98.42	1 analysis
76	76-2: DRV82 (b)	Tephra		65.98	0.30	1.23	0.05	12.98	0.15	5.60	0.15	0.15	0.04	1.08	0.05	2.86	0.08	4.47	0.17	2.78	0.12	98.13	0.56
76	76-2: DRV82 ©	Tephra		46.66	0.53	4.35	0.11	12.63	0.13	14.53	0.35	0.20	0.04	5.06	0.08	9.75	0.18	2.86	0.41	0.78	0.02	96.82	0.89
78	78/92-1: 7/8/01-2 T1/1 olÿt (a)	Tephra		60.96	1 analysis	1.36	1 analysis	12.50	1 analysis	9.60	1 analysis	0.28	1 analysis	1.33	1 analysis	4.60	1 analysis	4.14	1 analysis	1.89	1 analysis	97.65	1 analysis
78	78/92-1: 7/8/01-2 T1/1 olÿt (b)	Tephra		46.40	0.51	4.34	0.69	12.95	0.88	14.55	0.65	0.23	0.02	5.28	0.70	9.67	0.33	3.03	0.18	0.69	0.12	97.12	0.43
78	78/92-4: 78ZT122	Tephra		65.22	0.47	1.34	0.06	13.66	0.10	6.00	0.16	0.20	0.05	1.22	0.06	3.08	0.06	4.38	0.24	2.72	0.10	97.82	0.53
78	78/92-5: T122INC 1 analysis (others below 95%)	Tephra		65.07	1 analysis	1.28	1 analysis	10.44	1 analysis	7.82	1 analysis	0.30	1 analysis	2.77	1 analysis	3.20	1 analysis	3.16	1 analysis	2.65	1 analysis	96.69	1 analysis
78	78/92-5: T122INC other anelyses above 90%	Tephra		64.75	0.70	1.38	0.10	10.01	0.18	6.25	0.54	0.22	0.04	1.38	0.40	3.25	0.32	3.47	0.16	2.72	0.12	93.44	0.97
78	78/92-6: T22N	Tephra		65.91	0.56	1.30	0.05	13.66	0.18	5.93	0.17	0.21	0.04	1.20	0.06	3.09	0.14	4.29	0.20	2.68	0.08	98.27	0.74
78	78/92-7: 78T25	Tephra		66.17	0.41	1.21	0.06	14.03	0.17	5.70	0.24	0.17	0.03	1.17	0.11	3.11	0.14	4.33	0.26	2.77	0.13	98.67	0.33
79	79-1: 881Y N Thorsmork gully section 8/8/2001-1 Y?	Tephra	SILK YN?	65.99	0.79	1.14	0.12	13.73	0.16	5.70	0.36	0.16	0.04	1.03	0.14	2.88	0.27	4.52	0.14	2.75	0.15	97.89	0.38
81	81-5: 883INC N THORSMORK (a)	Tephra		65.88	0.98	1.12	0.11	12.76	0.15	5.87	0.37	0.20	0.08	1.01	0.14	2.90	0.34	4.46	0.19	2.82	0.12	98.01	0.78
81	81-3: 883DG N THORSMORK (a)	Tephra		62.76	0.76	1.56	0.19	12.69	0.07	7.54	0.70	0.16	0.01	1.70	0.22	4.27	0.31	4.37	0.36	2.38	0.18	98.43	0.76
81	81-3: 883DG N THORSMORK (b)	Tephra		52.34	1.24	3.54	0.23	12.91	0.28	12.21	0.65	0.25	0.07	3.64	0.34	7.83	0.36	3.48	0.17	1.38	0.13	97.56	0.63
81	81-3: 883DG N THORSMORK ©	Tephra		46.45	0.30	4.45	0.08	12.42	0.02	14.27	0.05	0.24	0.01	4.88	0.38	9.35	0.61	3.10	0.15	0.83	0.04	95.99	0.42
81	81-4: 883H N THORSMORK (a)	Tephra	layer H?	68.31	1.70	0.18	0.17	16.40	3.03	2.54	2.19	0.07	0.06	0.08	0.07	1.03	0.20	7.63	2.24	2.89	1.03	99.13	0.53
81	81-4: 883H N THORSMORK (b)	Tephra	Layer H?	47.23	1.10	4.25	0.72	12.54	0.14	14.21	0.46	0.21	0.03	4.88	0.40	9.57	0.30	3.19	0.18	0.72	0.16	96.79	0.45
82	81-5: 883INC N THORSMORK (b)	Tephra		47.51	1.64	4.05	0.62	12.61	0.24	13.68	0.71	0.22	0.02	4.96	0.41	9.52	0.59	3.14	0.23	0.83	0.23	96.47	0.67
83	83-1: 885A	Tephra		46.92	0.55	4.40	0.40	12.58	0.35	14.47	0.60	0.21	0.03	4.95	0.27	9.47	0.32	3.18	0.12	0.76	0.06	96.93	0.42
83	83-2: 885C (a)	Tephra		49.56	0.15	1.84	0.07	13.27	0.16	12.51	0.14	0.23	0.04	6.65	0.10	11.17	0.34	2.44	0.05	0.23	0.03	97.89	0.53
83	83-2: 885C (b)	Tephra		46.75	0.51	4.50	0.23	12.44	0.18	14.47	0.38	0.25	0.02	4.88	0.11	9.30	0.18	3.17	0.11	0.77	0.04	96.55	0.43
83	83-3: 885E	Tephra		46.82	0.44	4.74	0.11	12.25	0.15	14.47	0.27	0.21	0.02	4.86	0.17	9.36	0.31	3.20	0.11	0.84	0.05	96.74	0.77
83	83-4: 8/8/01-5 TB, North Thorsmork	Tephra		46.22	0.53	4.81	0.23	12.26	0.25	14.89	0.68	0.24	0.05	4.89	0.29	9.44	0.18	3.06	0.16	0.74	0.05	96.54	0.66
84	84-1: 886D (a)	Tephra		58.19	0.23	1.39	0.04	14.71	0.50	10.27	0.17	0.26	0.04	1.61	0.07	5.33	0.17	3.92	0.02	1.60	0.02	98.47	0.59
84	84-1: 886D (b)	Tephra		46.55	0.62	3.82	1.09	12.48	1.46	13.88	1.45	0.18	0.04	5.76	1.25	9.88	0.82	2.92	0.32	0.62	0.17	97.09	0.94
84	84-2: 8/8/01-6 H4? TD2, North Thorsmork (a)	Tephra		58.19	0.75	1.52	0.19	14.16	1.13	10.77	0.98	0.28	0.04	1.94	0.33	5.28	0.26	3.83	0.48	1.60	0.17	97.57	0.80
84	84-2: 8/8/01-6 H4? TD2, North Thorsmork (b)	Tephra		46.57	0.94	3.48	0.74	12.72	0.95	14.24	0.84	0.22	0.03	5.88	0.96	9.79	0.58	2.89	0.43	0.58	0.19	97.36	0.61
86	86-1: 9/8/01-1 T10 olÿt, North Thorsmork (a)	Tephra		66.71	1.17	1.10	0.09	14.04	0.30	5.69	0.38	0.19	0.04	0.91	0.34	2.88	0.37	4.26	0.35	2.85	0.11	98.64	0.71
86	86-1: 9/8/01-1 T10 olÿt, North Thorsmork (b)	Tephra		46.71	0.45	4.44	0.08	12.62	0.07	14.29	0.37	0.22	0.02	5.19	0.11	9.82	0.24	2.95	0.06	0.77	0.08	97.00	0.36
88	88-1: 9/8/01-3 T2 white tephra, North Thorsmork (a)	Tephra		69.90	0.46	0.33	0.02	12.85	0.29	4.47	0.27	0.15	0.04	0.14	0.05	1.07	0.28	5.39	0.37	3.63	0.23	98.94	0.47
88	88-1: 9/8/01-3 T2 white tephra, North Thorsmork (b)	Tephra		46.31	0.36	4.62	0.29	12.36	0.27	14.82	0.48	0.23	0.03	4.96	0.18	9.65	0.27	3.08	0.08	0.73	0.06	96.76	0.31
91	91-1: north thorsmork H 12/8/01-3 (a)	Tephra	Layer H?	69.36	0.20	0.32	0.04	12.92	0.13	4.29	0.32	0.15	0.03	0.13	0.04	1.02	0.13	5.91	0.68	3.40	0.25	98.50	0.66
91	91-1: north thorsmork H 12/8/01-3 (b)	Tephra	Layer H?	47.05	0.74	4.31	0.20	12.73	0.15	14.19	0.18	0.18	0.02	4.82	0.20	9.27	0.30	3.22	0.16	0.80	0.06	96.56	0.42
91	91-2: north thorsmork Y 12/8/01-3 (a)	Tephra	Silk YN	72.63	1 analysis	0.15	1 analysis	12.76	1 analysis	3.39	1 analysis	0.08	1 analysis	0.14	1 analysis	0.89	1 analysis	4.46	1 analysis	3.95	1 analysis	98.44	1 analysis
91	91-2: north thorsmork Y 12/8/01-3 (b)	Tephra	Silk YN	66.09	0.98	1.13	0.11	13.93	0.18	5.81	0.42	0.16	0.03	0.99	0.13	2.85	0.27	4.26	0.25	2.70	0.14	97.92	0.72
91	91-2: north thorsmork Y 12/8/01-3 ©	Tephra	Silk YN	46.43	0.31	4.46	0.05	12.57	0.09	14.48	0.12	0.22	0.03	5.12	0.10	9.75	0.15	3.01	0.10	0.70	0.04	96.75	0.41
92	92-6: AN 12/8/01-4A polÿt which tephra is this?	Tephra		65.48	0.62	1.31	0.09	14.15	0.16	5.90	0.41	0.18	0.04	1.28	0.08	3.44	0.24	4.24	0.30	2.69	0.13	98.66	0.45
94	94-1: SLIDE 1: North Thorsmork H4? 13/8/2001-3 (a)	Tephra		66.62	1.11	1.11	0.12	12.91	0.11	5.92	0.44	0.17	0.04	1.02	0.14	2.81	0.29	4.36	0.22	2.87	0.20	98.79	0.46
94	94-1: SLIDE 1: North Thorsmork H4? 13/8/2001-3 (b)	Tephra		47.28	1.55	4.34	0.29	12.61	0.13	14.05	0.62	0.24	0.03	4.91	0.38	9.60	0.64	3.10	0.19	0.84	0.18	96.96	0.39
94	94-2: 1383 COR (a)	Tephra		58.14	0.65	1.53	0.34	14.64	1.14	9.95	1.07	0.25	0.04	1.85	0.16	5.49	0.34	4.01	0.43	1.55	0.26	97.39	0.60
94	94-2: 1383 COR (b)	Tephra		46.15	0.64	3.82	0.86	12.37	1.07	14.19	1.04	0.24	0.03	5.64	0.96	9.84	0.64	2.97	0.32	0.61	0.16	96.82	0.56
99	997-1: North Thorsmork, Ljosa-14	Tephra		64.93	0.59	1.33	0.09	12.45	0.12	5.83	0.14	0.19	0.04	1.18	0.06	3.01	0.15	4.19	0.26	2.78	0.12	96.87	0.47
100	100-3: North Thorsmork, Thronga UN (a)	Tephra	SILK UN	65.07	0.44	1.36	0.08	14.05	0.19	6.18	0.24	0.20	0.03	1.36	0.06	3.46	0.15	4.32	0.67	2.38	0.56	98.38	0.67
100	100-3: North Thorsmork, Thronga UN (b)	Tephra	SILK UN	46.49	0.38	4.60	0.21	12.61	0.12	14.63	0.27	0.22	0.02	4.97	0.16	9.74	0.45	3.11	0.16	0.73	0.03	97.09	0.49
100	100-4: North Thorsmork, Thronga ST (a)	Tephra	Layer St	62.20	0.81	0.94	0.06	15.32	0.21	6.64	0.45	0.19	0.03	1.36	0.13	4.46	0.23	4.27	0.15	1.64	0.06	98.02	0.55
100	100-4: North Thorsmork, Thronga ST (b)	Tephra	Layer St	54.99	1 analysis	2.01	1 analysis	14.13	1 analysis	11.54	1 analysis	0.22	1 analysis	2.66	1 analysis	5.84	1 analysis	3.32	1 analysis	1.37	1 analysis	96.08	1 analysis
100	100-4: North Thorsmork, Thronga ST ©	Tephra	Layer St	46.61	0.64	4.39	0.14	12.57	0.24	14.35	0.28	0.24	0.02	4.89	0.34	9.35	0.46	3.28	0.20	0.79	0.10	96.47	0.43
100	100-1: North Thorsmork, Thronga H (a)	Tephra	Layer H	66.07	0.45	0.34	0.04	14.02	0.13	4.29	0.28	0.16	0.04	0.10	0.02	1.02	0.11	5.30	0.35	3.52	0.19	97.81	0.48

Profile	Title sample	Tephra or not	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
100	100-1: North Thorsmork, Thronge H (b)	Tephra	Layer H	64.81	1.21	1.38	0.03	13.95	0.17	6.54	0.66	0.21	0.04	1.24	0.13	3.27	0.33	4.27	0.21	2.61	0.11	98.27	0.17
100	100-1: North Thorsmork, Thronge H Ø	Tephra	Layer H	45.66	0.13	4.29	0.18	12.66	0.23	14.31	0.24	0.24	0.02	5.06	0.12	9.78	0.15	3.08	0.14	0.71	0.04	95.79	0.06
100	100-2: North Thorsmork, Thronge Y (a)	Tephra	SILK YN	65.91	1.05	1.08	0.12	13.87	0.14	5.94	0.45	0.21	0.04	1.01	0.14	2.88	0.24	4.23	0.20	2.78	0.16	97.91	0.54
100	100-2: North Thorsmork, Thronge Y (b)	Tephra	SILK YN	46.69	1.08	4.40	0.13	12.55	0.10	14.25	0.45	0.23	0.04	4.94	0.21	9.57	0.32	3.10	0.13	0.77	0.10	96.50	0.41
101	101-1: 16/8/01-1 T1? Pale	Tephra		66.87	0.54	1.19	0.08	13.96	0.09	5.47	0.22	0.20	0.03	1.05	0.08	2.85	0.17	4.34	0.13	2.80	0.13	98.75	0.48
101	101-2: 16/8/01-1 T1 blue? (a)	Tephra		64.47	1.92	0.67	0.15	14.92	0.18	7.72	1.38	0.20	0.04	0.88	0.27	3.97	0.46	4.63	0.39	1.80	0.36	99.25	0.33
101	101-2: 16/8/01-1 T1 blue? (b)	Tephra		47.78	1.43	4.30	0.39	12.67	0.21	14.17	0.49	0.24	0.02	4.59	0.47	9.28	0.76	3.23	0.20	0.87	0.19	97.14	0.47
102	102-2: NJAL D (a)	Tephra		68.22	2.97	0.69	0.44	13.48	0.62	4.89	1.10	0.16	0.05	0.58	0.49	2.02	0.98	4.47	0.22	3.24	0.55	97.74	0.66
102	102-2: NJAL D (b)	Tephra		46.73	0.48	4.42	0.33	12.52	0.35	14.49	0.65	0.26	0.01	4.74	0.14	9.31	0.18	3.19	0.15	0.74	0.05	96.39	0.32
102	102-3: NJAL E (a)	Tephra		69.72	2.01	0.33	0.00	13.15	0.25	3.78	0.35	0.13	0.04	0.15	0.03	1.14	0.21	4.77	0.23	3.56	0.12	96.73	2.17
102	102-3: NJAL E (b)	Tephra		66.26	1.49	1.17	0.22	13.82	0.16	5.81	0.47	0.19	0.03	1.03	0.23	2.74	0.37	4.18	0.23	2.74	0.17	97.96	0.50
102	102-3: NJAL E (c)	Tephra		46.35	0.33	4.52	0.16	12.42	0.17	14.66	0.22	0.23	0.04	4.86	0.09	9.41	0.09	3.03	0.11	0.76	0.02	96.24	0.23
102	102-1: Njal A	Tephra		69.25	1 analysis	0.82	1 analysis	13.96	1 analysis	4.22	1 analysis	0.12	1 analysis	0.71	1 analysis	1.84	1 analysis	4.51	1 analysis	3.15	1 analysis	98.57	1 analysis
102	102-1: Njal A	Tephra		58.04	1 analysis	1.94	1 analysis	14.29	1 analysis	8.49	1 analysis	0.10	1 analysis	2.44	1 analysis	5.49	1 analysis	3.49	1 analysis	2.13	1 analysis	96.42	1 analysis
102	102-1: Njal A	Tephra		46.84	0.29	4.52	0.11	12.46	0.19	14.41	0.18	0.21	0.02	4.78	0.11	9.23	0.14	3.15	0.07	0.79	0.04	96.39	0.46
112	112-1: ENT 35 B	Tephra		46.08	0.35	4.54	0.19	12.50	0.13	14.48	0.20	0.24	0.02	5.00	0.11	9.37	0.17	3.17	0.10	0.72	0.03	96.10	0.53
115	115-1: 7:30 A (a)	Tephra		65.70	0.90	1.12	0.11	13.88	0.11	5.82	0.30	0.18	0.04	0.97	0.13	2.75	0.26	4.30	0.32	2.85	0.15	97.56	1.02
115	115-1: 7:30 A (b)	Tephra		46.48	0.70	4.23	0.23	12.48	0.27	14.36	0.37	0.23	0.02	4.82	0.27	9.39	0.32	3.12	0.17	0.80	0.08	95.91	0.22
115	115-2: 7:30 B BOTN (a)	Tephra		65.24	0.69	1.18	0.07	13.95	0.18	5.86	0.33	0.16	0.02	1.03	0.09	2.88	0.21	4.55	0.36	2.73	0.15	97.58	0.59
115	115-2: 7:30 B BOTN (b)	Tephra		47.13	1.44	4.31	0.28	13.05	0.94	13.81	0.70	0.22	0.02	5.08	0.52	9.50	0.57	3.16	0.13	0.84	0.14	96.71	0.63
129	?-?: 10/9/01-1 J H4? Kanastadir reference profile (a)	Tephra		72.56	1 analysis	0.04	1 analysis	12.35	1 analysis	1.94	1 analysis	0.09	1 analysis	0.07	1 analysis	1.66	1 analysis	4.67	1 analysis	2.80	1 analysis	96.19	1 analysis
129	?-?: 10/9/01-1 J H4? Kanastadir reference profile (b)	Tephra		57.94	0.89	1.50	0.09	13.96	0.72	9.72	0.49	0.25	0.04	2.14	0.27	5.35	0.38	4.18	0.26	1.58	0.22	96.63	0.45
129	?-?: 10/9/01-1 L H4? Kanastadir reference profile, only analyses with total >95% (a)	Tephra		72.48	0.83	0.07	0.01	13.03	0.13	1.80	0.08	0.06	0.02	0.03	0.02	1.28	0.05	4.98	0.21	2.81	0.07	96.53	1.07
129	?-?: 10/9/01-1 L H4? Kanastadir reference profile, only analyses with total >95% (b)	Tephra		61.21	2.12	1.27	0.27	14.73	0.85	8.09	1.77	0.20	0.05	1.40	0.25	4.61	0.81	5.21	0.46	1.76	0.51	98.48	1.03
146	?-?: 18/7/02-1 Lambafellsheidi T11 Layer H?	Tephra	Layer H?	68.07	0.54	0.31	0.02	14.06	0.15	4.14	0.15	0.17	0.03	0.16	0.02	1.17	0.10	5.55	0.60	3.44	0.16	97.08	0.80
156?	x-x: 23/7/02 Trollagja 1 (a)	Not		64.80	0.71	1.15	0.08	14.13	0.16	5.57	0.33	0.20	0.03	1.07	0.13	2.91	0.24	4.10	0.20	2.73	0.10	96.67	0.55
156?	x-x: 23/7/02 Trollagja 1 (b)	Not		47.02	0.92	4.41	0.22	13.02	0.08	13.50	0.37	0.23	0.04	5.05	0.25	9.59	0.39	3.21	0.12	0.80	0.13	96.83	0.30
156?	x-x: 23/7/02 Trollagja Dismict Metix	Not		46.51	0.64	4.35	0.16	12.76	0.25	13.74	0.28	0.23	0.02	5.15	0.25	9.69	0.29	3.19	0.16	0.76	0.07	96.39	0.55
151	151-1 7.30 site Botn Tephra 1	tephra		63.34	0.58	1.25	0.04	14.15	0.11	5.51	0.11	0.2	0.02	1.51	0.06	3.44	0.08	4.86	0.3	2.66	0.04	96.92	0.84
151	151-1 7.30 site Botn Tephra 2a	tephra		74.59		0.1		12.79		1.42		0.07		0.05		1.17		4.34		2.92		97.45	
151	151-1 7.30 site Botn Tephra 2b	tephra		64.02		1.2		14.15		5.68		0.17		1.55		3.59		5.1		2.67		98.13	
151	151-1 7.30 site Botn Tephra 2c	tephra		61.08	0.66	1.2	0.06	14.4	0.47	8.59	0.82	0.24	0.04	1.75	0.35	4.51	0.24	5.48	0.17	1.59	0.25	99.94	0.56
151	151-1 7.30 site Botn Tephra 2d	tephra		47.12	0.49	4.26	0.28	13.01	0.04	13.71	0.08	0.22	0.01	5.59	0.48	8.21	0.8	3.89	0.18	0.88	0.17	97.89	0.69
151	151-1 7.30 site Botn Tephra 3a	tephra		64.74	0.92	1.12	0.1	14.05	0.14	5.57	0.42	0.19	0.02	1.18	0.18	2.87	0.3	5.03	0.28	2.81	0.12	97.57	0.72
151	151-1 7.30 site Botn Tephra 3b	tephra		46.65	1.15	4.1	0.13	13.02	0.2	13.15	0.38	0.27	0.03	5.18	0.31	8.99	0.26	3.97	0.39	1.02	0.17	98.35	1.03

Electron Microprobe Data (Tephra only): means and standard deviations for each sample

Profile	Title sample	Tephra or not	Type	System	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
17	17-1: 226Y (a)	Tephra	Pale tephra	Katla silicic	SILK YN	66.37	1.07	1.09	0.09	13.86	0.15	5.89	0.34	0.19	0.03	1.05	0.14	2.89	0.20	4.39	0.35	2.86	0.15	98.58	0.63
17	17-1: 226Y (b)	Tephra	Pale tephra	Katla silicic	SILK YN	48.72	1.27	4.29	0.24	12.66	0.20	13.80	0.67	0.23	0.03	4.64	0.35	9.18	0.43	3.20	0.12	0.95	0.14	97.66	0.62
23	23-1: 27/6Un Layer UN, 27/6/2000-S1A Gudrun's ref section (a)	Tephra	Pale tephra	Katla silicic	SILK UN	64.40	0.56	1.33	0.08	13.73	0.32	6.01	0.18	0.23	0.03	1.33	0.06	3.42	0.33	4.30	0.20	2.77	0.44	97.52	0.77
23	23-1: 27/6Un Layer UN, 27/6/2000-S1A Gudrun's ref section (b)	Tephra	Pale tephra	Katla silicic	SILK UN	46.73	0.28	4.44	0.20	12.32	0.51	14.43	0.71	0.24	0.05	4.71	0.32	9.30	0.23	3.24	0.16	0.88	0.11	96.28	0.33
30	30-4: T7, 3/7/2000-1 section by road, Un?	Tephra	Pale needle tephra	Katla silicic	SILK UN?	65.18	0.34	1.32	0.08	13.66	0.17	6.01	0.19	0.06	0.04	1.31	0.07	3.48	0.24	4.61	0.47	2.49	0.47	98.12	0.50
30	30-1: *1Un Layer UN 3/7/2000 Section by road (a)	Tephra	Pale needle tephra	Katla silicic	SILK UN	64.82	0.62	1.29	0.06	13.74	0.12	5.96	0.21	0.19	0.03	1.30	0.06	3.40	0.20	4.68	0.39	2.46	0.43	97.84	0.69
30	30-1: *1Un Layer UN 3/7/2000 Section by road (b)	Tephra	Pale needle tephra	Katla silicic	SILK UN	46.84	0.21	4.55	0.10	12.22	0.44	14.46	0.19	0.22	0.02	4.83	0.09	9.55	0.14	3.17	0.03	0.87	0.15	96.71	0.20
30	30-3: T6 Layer Y 3/7/2000 Section by road (a)	Tephra	Pale tephra	Katla silicic	SILK YN	65.81	0.65	1.08	0.08	13.76	0.15	6.00	0.34	0.22	0.07	1.09	0.11	2.93	0.24	4.37	0.20	2.75	0.11	98.01	0.43
30	30-3: T6 Layer Y 3/7/2000 Section by road (b)	Tephra	Pale tephra	Katla silicic	SILK YN	46.27	0.22	4.52	0.07	12.52	0.12	14.38	0.21	0.23	0.03	5.19	0.02	9.99	0.11	2.96	0.06	0.73	0.04	96.79	0.42
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (a)	Tephra	Pale tephra	Katla silicic	SILK YN	66.07	0.88	1.10	0.12	13.80	0.24	6.01	0.38	0.20	0.07	1.03	0.15	2.99	0.29	4.46	0.47	2.90	0.46	98.56	0.49
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (b)	Tephra	Pale tephra	Katla silicic	SILK YN	46.88	1.16	4.45	0.19	12.62	0.18	13.75	0.47	0.18	0.03	4.99	0.31	9.70	0.49	3.12	0.17	0.81	0.14	96.49	0.59
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (a)	Tephra	Pale tephra	Katla silicic	SILK YN	66.07	0.88	1.10	0.12	13.80	0.24	6.01	0.38	0.20	0.07	1.03	0.15	2.99	0.29	4.46	0.47	2.90	0.46	98.56	0.49
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (b)	Tephra	Pale tephra	Katla silicic	SILK YN	46.88	1.16	4.45	0.19	12.62	0.18	13.75	0.47	0.18	0.03	4.99	0.31	9.70	0.49	3.12	0.17	0.81	0.14	96.49	0.59
34	34-1: TB Layer Un (a)	Tephra	Pale tephra	Katla silicic	SILK UN	64.76	0.45	1.34	0.08	13.97	0.15	5.95	0.21	0.31	0.63	1.30	0.08	3.41	0.23	4.51	0.37	2.52	0.20	98.06	0.77
34	34-1: TB Layer Un (b)	Tephra	Pale tephra	Katla silicic	SILK UN	47.20	0.77	4.43	0.27	12.96	0.57	14.02	1.66	0.19	0.04	4.95	0.83	10.09	1.32	3.07	0.28	0.73	0.17	97.63	1.45
35	35-3: TE Lower pale tephra, North Markarfljot	Tephra	Pale tephra	Katla silicic		66.15	0.98	1.19	0.09	13.84	0.12	5.35	0.38	0.08	0.04	1.02	0.14	2.70	0.27	4.41	0.37	2.89	0.11	97.62	0.67
40	40-1: *T20 Layer Un, N. Markarfljot (a)	Tephra	Pale tephra	Katla silicic	SILK UN	64.85	0.68	1.36	0.05	13.82	0.16	6.05	0.21	0.11	0.04	1.32	0.05	3.34	0.11	4.31	0.51	2.68	0.26	97.84	1.06
40	40-1: *T20 Layer Un, N. Markarfljot (b)	Tephra	Pale tephra	Katla silicic	SILK UN	47.37	0.82	4.83	0.27	12.13	0.82	15.33	1.49	0.34	0.28	4.46	0.45	9.59	0.54	2.96	0.17	0.91	0.21	97.92	0.75
41	41-1: T24 LOWER PALE TEPHRA	Tephra	Pale tephra	Katla silicic		66.31	0.47	1.13	0.06	13.82	0.10	5.30	0.19	0.18	0.04	1.04	0.05	2.83	0.15	4.49	0.23	2.91	0.08	98.02	0.69
44	44-1: T28 Layer Un (a)	Tephra	Pale tephra	Katla silicic	SILK UN	64.91	0.66	1.36	0.08	13.86	0.20	5.85	0.35	0.12	0.04	1.25	0.11	3.31	0.24	4.39	0.28	2.61	0.11	97.66	0.64
44	44-1: T28 Layer Un (b)	Tephra	Pale tephra	Katla silicic	SILK UN	46.60	0.11	4.76	0.26	12.29	0.49	14.95	0.65	0.21	0.03	4.71	0.18	9.63	0.08	3.12	0.03	0.81	0.08	97.08	0.39
59	59-2: Fljotsdalur reference profile T33, N4?	Tephra	pale tephra	Katla silicic	SILK N4?	65.87	0.42	1.22	0.10	13.89	0.14	5.46	0.20	0.20	0.04	1.06	0.07	2.85	0.19	4.31	0.19	2.80	0.09	97.65	0.66
78	78/92-5: T122INC 1 analysis (others below 95%)	Tephra	pale tephra	Katla silicic		65.07	1 analysis	1.28	1 analysis	10.44	1 analysis	7.82	1 analysis	0.30	1 analysis	2.77	1 analysis	3.20	1 analysis	3.16	1 analysis	2.65	1 analysis	96.69	1 analysis
78	78/92-5: T122INC other analyses above 90%	Tephra	pale tephra	Katla silicic		64.75	0.70	1.38	0.10	10.01	0.18	6.25	0.54	0.22	0.04	1.38	0.40	3.25	0.32	3.47	0.16	2.72	0.12	93.44	0.97
78	78/92-6: T22N	Tephra	pale tephra, needles	Katla silicic		65.91	0.56	1.30	0.05	13.66	0.18	5.93	0.17	0.21	0.04	1.20	0.06	3.09	0.14	4.29	0.20	2.68	0.08	98.27	0.74
79	79-1: 881Y N Thorsmork gully section 8/8/2001-1 Y?	Tephra	pale tephra	Katla silicic	SILK YN?	65.99	0.79	1.14	0.12	13.73	0.16	5.70	0.36	0.16	0.04	1.03	0.14	2.88	0.27	4.52	0.14	2.75	0.15	97.89	0.38
91	91-2: north thorsmork Y 12/8/01-3 (a)	Tephra	pale tephra	Katla silicic	Silk YN	72.63	1 analysis	0.15	1 analysis	12.76	1 analysis	3.39	1 analysis	0.08	1 analysis	0.14	1 analysis	0.89	1 analysis	4.46	1 analysis	3.95	1 analysis	98.44	1 analysis
91	91-2: north thorsmork Y 12/8/01-3 (b)	Tephra	pale tephra	Katla silicic	Silk YN	66.09	0.98	1.13	0.11	13.93	0.18	5.81	0.42	0.16	0.03	0.99	0.13	2.85	0.27	4.26	0.25	2.70	0.14	97.92	0.72
91	91-2: north thorsmork Y 12/8/01-3 ©	Tephra	pale tephra	Katla silicic	Silk YN	46.43	0.31	4.46	0.05	12.57	0.09	14.48	0.12	0.22	0.03	5.12	0.10	9.75	0.15	3.01	0.10	0.70	0.04	96.75	0.41
100	100-3: North Thorsmork, Thronga UN (a)	Tephra	pale tephra	Katla silicic	SILK UN	65.07	0.44	1.36	0.08	14.05	0.19	6.18	0.24	0.20	0.03	1.36	0.06	3.46	0.15	4.32	0.67	2.38	0.56	98.38	0.67
100	100-3: North Thorsmork, Thronga UN (b)	Tephra	pale tephra	Katla silicic	SILK UN	46.49	0.38	4.60	0.21	12.61	0.12	14.63	0.27	0.22	0.02	4.97	0.16	9.74	0.45	3.11	0.16	0.73	0.03	97.09	0.49
100	100-2: North Thorsmork, Thronga Y (a)	Tephra	pale tephra	Katla silicic	SILK YN	65.91	1.05	1.08	0.12	13.87	0.14	5.94	0.45	0.21	0.04	1.01	0.14	2.88	0.24	4.23	0.20	2.78	0.16	97.91	0.54
100	100-2: North Thorsmork, Thronga Y (b)	Tephra	pale tephra	Katla silicic	SILK YN	46.69	1.08	4.40	0.13	12.55	0.10	14.25	0.45	0.23	0.04	4.94	0.21	9.57	0.32	3.10	0.13	0.77	0.10	96.50	0.41
18	18-1: 22/6/2000 BLACK NEEDLE LAYER	Tephra	Black tephra	Katla basaltic		47.05	0.65	4.54	0.11	12.46	0.26	14.62	0.30	0.21	0.03	4.78	0.07	9.40	0.31	3.14	0.16	0.85	0.05	97.04	1.05
24	24-2: CL 27/6/2000-1B Coarse layer, Unit U, PROFILE 24	Tephra		Katla basaltic		46.29	0.18	4.49	0.13	12.59	0.18	14.47	0.19	0.23	0.02	5.00	0.14	9.60	0.14	3.10	0.07	0.73	0.05	96.50	0.26
24	24-2: CL 27/6/2000-1B Coarse layer, Unit U - same as above?	Tephra		Katla basaltic		46.06	0.66	4.47	0.12	12.55	0.17	14.42	0.19	0.23	0.03	5.01	0.12	9.56	0.24	3.09	0.06	0.74	0.09	96.15	0.85
34	34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 (a)	Tephra	Thick black tephra	Katla basaltic	K-E or K-N	70.36	1 analysis	0.28	1 analysis	13.16	1 analysis	3.93	1 analysis	0.03	1 analysis	0.22	1 analysis	1.25	1 analysis	4.92	1 analysis	3.6	1 analysis	97.75	1 analysis
34	34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 (b)	Tephra	Thick black tephra	Katla basaltic	K-E or K-N	46.47	0.39	4.50	0.11	12.57	0.11	14.50	0.19	0.21	0.03	4.96	0.12	9.80	0.13	3.06	0.07	0.76	0.04	96.83	0.49
34	34-4: MPU 4/9/2000-1 Main pumice unit, Unit U	Tephra	Thick black tephra	Katla basaltic	K-E or K-N	46.21	0.35	4.49	0.12	12.56	0.16	14.33	0.33	0.25	0.03	4.98	0.08	9.68	0.10	3.09	0.04	0.77	0.05	96.34	0.77
34	34-5: TC (T below Un/St , above 2 pale tephras) N Markarfljot 4/9/2000 (b)	Tephra	tephra	Katla basaltic		*55.60*	*0.47*	*1.88*	*0.12*	*14.62*	*1.01*	*10.73*	*1.02*	*0.19*	*0.05*	*2.55*	*0.24*	*6.43*	*0.44*	*3.63*	*0.61*	*1.29*	*0.13*	*93.93*	*0.96*
34	34-5: TC (T below Un/St , above 2 pale tephras) N Markarfljot 4/9/2000 ©	Tephra	tephra	Katla basaltic		46.48	0.94	4.66	0.26	12.42	0.20	14.94	0.42	0.22	0.05	4.71	0.04	9.64	0.29	3.24	0.13	0.82	0.09	97.12	0.35
35	35-5: 5/9/2000-1G Layer L (a)	Tephra	Black tephra?	Katla basaltic		63.75	2.32	1.42	0.27	13.65	0.10	6.01	0.91	0.15	0.04	1.36	0.33	3.34	0.68	4.37	0.18	2.63	0.27	99.66	0.75
35	35-5: 5/9/2000-1G Layer L (b)	Tephra	Black tephra?	Katla basaltic		45.97	0.34	4.32	0.07	12.40	0.10	14.43	0.17	0.23	0.02	4.88	0.07	9.46	0.15	3.07	0.07	0.74	0.03	95.50	0.32
36	36-1: 6/9/2000 BLACK TEPHRA	Tephra	Black tephra	Katla basaltic		46.73	0.47	4.57	0.15	12.51	0.10	14.52	0.22	0.21	0.02	4.84	0.20	9.53	0.28	3.08	0.12	0.81	0.07	96.79	0.45
40	40-3: 6/9/2000-1 Layer U, PROFILE 40	Tephra	Thick black tephra	Katla basaltic		46.34	0.87	4.41	0.14	12.19	0.31	14.44	0.38	0.23	0.02	4.96	0.53	9.63	0.50	3.03	0.16	0.78	0.09	95.01	0.30
41	41-3 8/9/2000-2 Layer M	Tephra	Thick black tephra?	Katla basaltic		45.82	0.15	4.30	0.09	12.44	0.08	14.48	0.13	0.22	0.03	5.16	0.07	9.86	0.14	3.00	0.06	0.70	0.03	95.97	0.30
44	44-4:, 44-5: PU2 9/92000-2 Layer M including transect	Tephra	Thick black tephra	Katla basaltic		46.04	0.19	4.35	0.07	12.47	0.14	14.67	0.13	0.23	0.03	5.17	0.08	9.94	0.09	3.06	0.04	0.68	0.03	95.60	0.34
44	44-3: 9/9/2000-2 LOWER PUMICE Layer M	Tephra	Thick black tephra?	Katla basaltic		45.47	0.22	4.30	0.11	12.38	0.10	14.49	0.14	0.22	0.04	5.23	0.04	9.96	0.12	2.92	0.07	0.69	0.03	95.66	0.41
44	44-4: PU2 9/92000-2 Layer M	Tephra	Thick black tephra?	Katla basaltic		46.08	0.21	4.36	0.07	12.48	0.17	14.69	0.14	0.23	0.03	5.16	0.10	9.93	0.10	3.06	0.04	0.68	0.04	95.67	0.39
23	23-2: 27/6St Layer St 27/6/2000-S1A, Gudrun's ref section (a)	Tephra	Pale layer	Hekla	Layer St	63.39	0.86	0.92	0.16	14.91	0.44	6.36	0.24	0.19	0.03	1.27	0.07	4.26	0.36	4.10	0.14	1.70	0.32	97.09	1.05
23	23-2: 27/6St Layer St 27/6/2000-S1A, Gudrun's ref section (b)	Tephra	Pale layer	Hekla	Layer St	46.82	0.84	4.45	0.11	12.49	0.12	13.72	0.70	0.24	0.02	4.84	0.22	9.90	0.17	3.06	0.04	0.77	0.01	95.29	0.31
30	30-5: T6, 3/7/2000-1 section by road, St? (a)	Tephra	Pale tephra	Hekla	St?	63.54	0.51	0.85	0.16	15.79	1.12	5.77	0.82	0.06	0.06	1.11	0.21	5.02	0.04	4.78	0.81	1.42	0.14	99.33	1.13
30	30-5: T6, 3/7/2000-1 section by road, St? (b)	Tephra	Pale tephra	Hekla	St?	55.96	1.11	1.89	0.15	14.10	0.99	11.19	1.06	0.26	0.04	2.48	0.36	6.04	0.36	3.71	0.55	1.46	0.15	97.09	0.56
30	30-5: T6, 3/7/2000-1 section by road, St? ©	Tephra	Pale tephra	Hekla	St?	46.24	0.40	4.63	0.36	12.19	0.45	14.92	0.74	0.22	0.04	4.76	0.39	9.50	0.29	3.15	0.06	0.80	0.12	93.40	0.36
30	30-2: *2St Layer St 3/7/2000 Section by road (a)	Tephra	Pale tephra	Hekla	St	68.06	2.81	0.48	0.42	14.06	1.11	4.68	0.85	0.14	0.05	0.34	0.39	1.90	1.45	5.37	0.89	3.03	0.90	99.06	0.77
30	30-2: *2St Layer St 3/7/2000 Section by road (b)	Tephra	Pale tephra	Hekla	St	54.44	4.47	2.53	1.12	14.45	1.67	11.27	2.67	0.22	0.04	2.86	1.34	6.88	1.79	3.96	0.69	1.20	0.36	97.81	1.02
34	34-2: TA Layer St (a)	Tephra	Pale tephra	Hekla	St	63.76	0.99	0.82	0.26	15.48	1.60	6.12	2.02	0.09	0.05	1.12	0.36	4.18	0.88	4.54	1.17	1.78	0.57	97.88	1.05
34	34-2: TA Layer St (b)	Tephra	Pale tephra	Hekla	St	46.55	0.49	3.48	0.44	11.33	4.38	14.27	0.63	0.21	0.05	6.32	0.85	13.11	4.32	2.32	1.04	0.40	0.25	97.98	1.10
35	35-1, 35-2:TD upper pale tephra 4/9/2000 (a)	Tephra	Pale tephra	Hekla		62.54	1.95	0.93	0.22	14.39	1.29	8.74	1.79	0.29	0.21	0.99	0.56	4.35	0.66	4.29	0.64	1.83	0.38	98.35	0.74
35	35-1, 35-2:TD upper pale tephra 4/9/2000 (b)	Tephra	Pale tephra	Hekla		55.37	1.28	2.52	0.20	13.66	0.03	11.94	0.61	0.27	0.03	2.78	0.78	6.68	0.49	3.05	0.17	1.42	0.28	97.68	0.69
35	35-1, 35-2:TD upper pale tephra 4/9/2000 ©	Tephra	Pale tephra	Hekla		47.96	1.24	4.31	0.33	12.52	0.19	13.94	0.49	0.22	0.03	4.48	0.32	9.08	0.47	3.12	0.35	0.96	0.15	93.60	0.36
35	35-1: TD upper pale tephra 4/9/2000 (a)	Tephra	Pale tephra	Hekla		62.54	1.95	0.93	0.22	14.39	1.29	8.74	1.79	0.29	0.21	0.99	0.56	4.35	0.66	4.29	0.64	1.83	0.38	98.35	0.74
35	35-1: TD upper pale tephra 4/9/2000 (b)	Tephra	Pale tephra	Hekla		55.37	1.28	2.52	0.20	13.66	0.03	11.94	0.61	0.27	0.03	2.78	0.78	6.68	0.49	3.05	0.17	1.42	0.28	97.68	0.69
35	35-1: TD upper pale tephra 4/9/2000 ©	Tephra	Pale tephra	Hekla		47.96	1.24	4.31	0.33	12.52	0.19	13.94	0.49	0.22	0.03	4.48	0.32	9.08	0.47	3.12	0.35	0.96	0.15	93.60	0.36
40	40-2: T25 Layer St, North Merkarfljot (a)	Tephra	Pale tephra	Hekla	Layer St	63.07	0.91	0.91	0.19	15.69	0.91	6.37	0.84	0.12	0.16	1.19	0.20	4.55	0.50	4.47	0.43	1.56	0.26	97.94	0.87
40	40-2: T25 Layer St, North Merkarfljot (b)	Tephra	Pale tephra	Hekla	Layer St	54.00	2.25	2.49	0.66	13.38	0.48	12.62	0.40	0.23	0.05	3.04	0.56	6.45	0.89	3.29	0.44	1.37	0.22	96.87	0.44
41	41-2: T21 UPPER PALE TEPHRA	Tephra	Pale tephra	Hekla		63.22	1.66	0.82	0.16	14.42	1.15	8.16	1.29	0.28	0.05	0.90	0.38	4.30	0.61	4.63	0.40	1.94	0.24	99.66	0.29
44	44-2: T29 Layer St	Tephra	Pale tephra	Hekla	Layer St	63.87	0.73	0.95	0.21	14.96	0.66	6.67	0.41	0.09	0.03	1.31	0.11	4.21	0.46	4.23	0.14	1.77	0.49	99.06	0.68
44	44-2: T29 Layer St	Tephra	Pale tephra	Hekla	Layer St	47.05	0.59	4.46	0.22	12.37	0.18	14.54	0.49	0.20	0.03	4.77	0.28	9.52	0.52	3.17	0.09	0.81	0.09	96.89	0.75
59	59-1: Fljotsdalur reference profile T31, H-S?	Tephra	pale tephra	Hekla	H-S?	64.96	2.10	0.68	0.30	14.51	0.58	7.07	1.75	0.23	0.03	0.67	0.18	3.58	0.50	4.41	0.32	2.02	0.23	98.13	1.17
100	100-4: North Thorsmork, Thronga ST (a)	Tephra	pale tephra	Hekla	Layer St	63.20	0.81	0.94	0.06	15.32	0.21	6.64	0.45	0.19	0.03	1.36	0.13	4.46	0.23	4.27	0.15	1.64	0.06	98.02	0.55
100	100-4: North Thorsmork, Thronga ST (b)	Tephra	pale tephra	Hekla	Layer St	54.99	1 analysis	2.01	1 analysis	14.13	1 analysis	11.54	1 analysis	0.22	1 analysis	2.66	1 analysis	5.84	1 analysis	3.32	1 analysis	1.37	1 analysis	96.08	1 analysis
100	100-4: North Thorsmork, Thronga ST ©	Tephra	pale tephra	Hekla	Layer St	46.61	0.64	4.39	0.14	12.57	0.24	14.35	0.28	0.24	0.02	4.89	0.34	9.35	0.46	3.28	0.20	0.79	0.10	96.47	0.43
17	17-2: 22/6 H	Tephra	Pale tephra	Eyjaf	Layer H	68.82	0.90	0.25	0.06	13.57	0.41	4.32	0.63	0.17	0.04	0.11	0.02	1.05	0.32	5.79	0.24	3.63	0.20	97.70	0.67
24	24-1: 28/6-B H (a)	Tephra	Pale tephra	Eyjaf	Layer H	69.41	0.75	0.3	0.05	13.88	0.19	4.46	0.47	0.15	0.04	0.14	0.04	1.17	0.17	5.14	0.52	3.53	0.13	98.19	0.73
24	24-1: 28/6-B H (b)	Tephra	Pale tephra	Eyjaf	Layer H	49.46	2.01	3.91	0.58	12.59	0.72	13.70	1.03	0.23	0.04	4.12	0.61	8.25	1.03	3.37	0.36	1.26	0.44	96.89	0.74
31	31-2: T2 (a)	Tephra	?	Eyjaf		69.13	1.69	0.28	0.06	13.62	0.70	4.88	1.38	0.18	0.10	0.19	0.20	1.44	1.27	5.27	0.69	3.56	0.36	98.54	0.47

Profile	Title sample	Tsphra or not	Type	System	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
31	31-2: T2 (b)	Tsphra	?	Eyjaf		47.63	1.84	4.20	0.62	12.74	0.46	13.76	0.82	0.24	0.05	4.67	0.51	9.15	0.84	3.32	0.33	1.02	0.24	96.73	0.35
31	31-2: T2 Layer Ho 18/8/2000-1 Gully by Gigjokull (a)	Tsphra	Pale tephra	Eyjaf	Layer H	69.48	0.58	0.25	0.06	14.06	0.87	4.27	0.77	0.15	0.07	0.12	0.06	1.10	0.31	5.54	1.08	3.54	0.42	98.52	0.43
31	31-2: T2 Layer Ho 18/8/2000-1 Gully by Gigjokull (b)	Tsphra	Pale tephra	Eyjaf	Layer H	47.46	1.86	4.25	0.63	12.62	0.62	13.95	1.02	0.25	0.06	4.63	0.51	9.13	0.80	3.29	0.33	1.02	0.23	96.59	0.60
32	32-1: T4 (a)	Tsphra	?	Eyjaf		66.16	0.76	1.09	0.28	13.83	0.14	5.81	0.32	0.20	0.05	1.00	0.15	2.85	0.28	4.43	0.13	2.88	0.17	98.24	0.36
32	32-1: T4 (b)	Tsphra	?	Eyjaf		47.80	1.51	4.26	0.31	12.73	0.15	14.14	0.69	0.22	0.04	4.80	0.43	9.56	0.56	3.14	0.15	0.90	0.15	97.55	0.57
32	32-3: T4 repeated (a)	Tsphra	?	Eyjaf		65.80	0.66	1.14	0.09	13.78	0.28	5.97	0.38	0.15	0.15	0.99	0.12	2.93	0.22	4.65	0.24	2.82	0.14	98.21	0.55
32	32-3: T4 repeated (b)	Tsphra	?	Eyjaf		46.68	0.77	4.43	0.14	12.51	0.07	14.30	0.86	0.18	0.04	4.98	0.19	9.81	0.45	3.02	0.13	0.74	0.08	96.65	0.84
32	32-1: T4 Layer Ho 21/8/2000-1 Section by road (a)	Tsphra	Pale tephra	Eyjaf	Layer H	66.16	0.76	1.09	0.28	13.83	0.14	5.81	0.32	0.20	0.05	1.00	0.15	2.85	0.28	4.43	0.13	2.88	0.17	98.24	0.36
32	32-1: T4 Layer Ho 21/8/2000-1 Section by road (b)	Tsphra	Pale tephra	Eyjaf	Layer H	47.80	1.51	4.26	0.31	12.73	0.15	14.14	0.69	0.22	0.04	4.80	0.43	9.56	0.56	3.14	0.15	0.90	0.15	97.55	0.57
91	91-1: north thorsmork H 12/8/01-3 (a)	Tsphra	pale tephra	Eyjaf	Layer H?	69.36	0.20	0.32	0.04	13.92	0.13	4.29	0.32	0.15	0.03	0.13	0.04	1.02	0.13	5.91	0.68	3.40	0.25	98.50	0.66
91	91-1: north thorsmork H 12/8/01-3 (b)	Tsphra	pale tephra	Eyjaf	Layer H?	47.05	0.74	4.31	0.20	12.73	0.15	14.19	0.18	0.18	0.02	4.82	0.20	9.27	0.30	3.22	0.16	0.80	0.06	96.56	0.42
100	100-1: North Thorsmork, Thronga H (a)	Tsphra	pale tephra	Eyjaf	Layer H	69.07	0.45	0.34	0.04	14.02	0.13	4.29	0.28	0.16	0.04	0.10	0.02	1.02	0.11	5.30	0.35	3.52	0.19	97.81	0.48
100	100-1: North Thorsmork, Thronga H (b)	Tsphra	pale tephra	Eyjaf	Layer H	64.81	1.21	1.38	0.03	13.95	0.17	6.54	0.66	0.21	0.04	1.24	0.13	3.27	0.33	4.27	0.21	2.61	0.11	96.27	0.17
100	100-1: North Thorsmork, Thronga H ©	Tsphra	pale tephra	Eyjaf	Layer H	45.66	0.13	4.29	0.18	12.66	0.23	14.31	0.24	0.24	0.02	5.06	0.12	9.78	0.15	3.08	0.14	0.71	0.04	95.79	0.06
146	?-7: 18/7/02-1 Lambafellsheidi T11 Layer H?	Tsphra	pale tephra	Eyjaf	Layer H?	68.07	0.54	0.31	0.02	14.06	0.15	4.14	0.15	0.17	0.03	0.16	0.02	1.17	0.10	5.55	0.60	3.44	0.16	97.08	0.80
31	31-3: T3 (a)	Tsphra	?	?		70.15	1.33	0.26	0.08	13.63	0.55	4.55	0.96	0.15	0.04	0.13	0.05	1.07	0.47	5.76	0.85	3.48	0.38	99.18	0.46
31	31-3: T3 (b)	Tsphra	?	?		48.59	1.73	4.01	0.57	12.67	0.22	14.08	0.65	0.30	0.12	4.53	0.52	9.03	0.76	3.42	0.33	0.96	0.23	97.58	0.41
31	31-3: T3 Layer Ho(2) 18/8/2000-1 Gully by Gigjokull (a)	Tsphra	Pale tephra	?	Layer H (2)	70.46	0.76	0.25	0.06	13.64	0.58	4.34	0.58	0.14	0.04	0.12	0.04	0.95	0.17	5.83	0.84	3.47	0.40	99.20	0.48
31	31-3: T3 Layer Ho(2) 18/8/2000-1 Gully by Gigjokull (b)	Tsphra	Pale tephra	?	Layer H (2)	48.59	1.73	4.01	0.57	12.67	0.22	14.08	0.65	0.30	0.12	4.53	0.52	9.03	0.76	3.42	0.33	0.96	0.23	97.58	0.41
32	32-2: T5 (a)	Tsphra	?	?		69.98	1.04	0.23	0.05	13.94	0.76	4.47	1.20	0.16	0.09	0.17	0.14	1.21	0.46	5.56	0.88	3.39	0.47	99.10	0.43
32	32-2: T5 (b)	Tsphra	?	?		47.68	1.02	4.36	0.25	12.51	0.25	14.28	0.40	0.19	0.02	4.59	0.48	9.36	0.53	3.19	0.21	0.84	0.13	97.01	0.57
32	32-2: T5 Layer Ho(2) 21/8/2000 Section by road (a)	Tsphra	Pale tephra	?	Layer H (2)	70.33	0.53	0.23	0.05	13.92	0.28	4.29	0.40	0.15	0.08	0.13	0.04	1.09	0.17	5.40	0.80	3.47	0.48	99.00	0.38
32	32-2: T5 Layer Ho(2) 21/8/2000 Section by road (b)	Tsphra	Pale tephra	?	Layer H (2)	47.68	1.02	4.36	0.25	12.51	0.25	14.28	0.40	0.19	0.02	4.59	0.48	9.36	0.53	3.19	0.21	0.84	0.13	97.01	0.57
59	59-3: Fljotsdalur reference profile T60	Tephra	pale tephra	?		64.46	0.50	1.31	0.06	14.06	0.13	5.87	0.32	0.16	0.03	1.30	0.10	3.47	0.24	4.26	0.33	2.66	0.13	97.56	0.85
59	59-4: Fljotsdalur reference profile T62	Tephra		?		66.20	0.36	1.14	0.05	14.14	0.12	5.67	0.18	0.17	0.04	1.18	0.04	3.16	0.15	4.43	0.33	2.78	0.07	98.86	0.67
59	59-5: Fljotsdalur reference profile T69	Tephra		?		46.38	1.18	3.84	0.75	13.07	1.13	14.12	0.51	0.22	0.04	5.20	1.05	9.41	0.69	3.01	0.28	0.75	0.19	96.01	1.25
68	68-1: North Aurasel Top pale tephra (a)	Tephra	pale tephra	?		70.90	1.22	0.24	0.04	14.48	0.31	2.36	0.03	0.08	0.06	0.28	0.01	0.88	0.03	4.39	0.15	4.60	0.11	98.21	1.54
68	68-1: North Aurasel Top pale tephra (b)	Tephra	pale tephra	?		47.23	0.83	4.40	0.12	12.54	0.19	14.08	0.37	0.20	0.03	5.09	0.86	9.03	0.20	3.20	0.06	0.85	0.07	96.63	1.27
68	68-2: North Aurasel Bottom pale tephra (a)	Tephra	pale tephra	?		71.51	1.51	0.18	0.01	13.50	1.92	2.30	0.19	0.08	0.03	0.05	0.02	0.84	0.53	5.51	1.25	3.41	0.58	97.38	1.85
68	68-2: North Aurasel Bottom pale tephra (b)	Tephra	pale tephra	?		46.92	1.33	4.37	0.30	12.57	0.17	14.10	0.78	0.24	0.01	4.86	0.29	9.45	0.63	3.11	0.12	0.82	0.16	96.44	0.56
72	72-1: 9/7/01-1 T17	Tephra		?		57.27	1.07	1.57	0.11	14.03	0.61	10.28	0.34	0.27	0.03	2.12	0.33	5.46	0.36	3.85	0.38	1.44	0.15	96.28	0.68
72	72-1: 9/7/01-1 T17	Tephra		?		45.45	0.31	4.19	0.13	12.33	0.07	14.74	0.36	0.24	0.03	5.10	0.05	9.98	0.32	3.04	0.04	0.68	0.02	95.74	0.63
75	75-4: SLIDE 1: West Kanastadir H4? 9/7/2001	Tephra		?		58.87	0.68	1.53	0.19	14.19	1.39	10.11	1.46	0.25	0.05	2.07	0.38	5.44	0.52	3.93	0.45	1.47	0.21	97.86	0.89
75	75-1: West Kanastadir 22 Triplet	Tephra		?		65.07	0.28	1.20	0.06	14.02	0.12	5.55	0.11	0.18	0.03	1.17	0.06	3.19	0.11	4.37	0.23	2.72	0.09	97.48	0.43
75	75-2: West Kanastadir 25 Triplet	Tephra		?		65.20	0.58	1.18	0.06	13.99	0.15	5.25	0.58	0.19	0.04	1.18	0.06	3.08	0.15	4.48	0.16	2.75	0.12	97.46	0.52
75	75-3: West Kanastadir 21 Triplet	Tephra		?		64.46	0.53	1.27	0.10	14.11	0.18	5.73	0.29	0.19	0.04	1.27	0.07	3.37	0.18	4.34	0.38	2.66	0.06	97.40	0.36
76	76-1: 10/7/01 Drumbabot V8707	Tephra		?		65.18	0.90	1.42	0.51	13.94	0.71	5.20	0.56	0.18	0.06	1.05	0.07	2.93	0.35	4.62	0.20	2.63	0.26	97.13	1.04
76	76-2: DRV82 (a)	Tephra		?		70.33	1 analysis	0.77	1 analysis	13.67	1 analysis	3.76	1 analysis	0.06	1 analysis	0.52	1 analysis	1.47	1 analysis	4.50	1 analysis	3.34	1 analysis	98.42	1 analysis
76	76-2: DRV82 (b)	Tephra		?		65.98	0.30	1.23	0.05	13.98	0.15	5.60	0.15	0.15	0.04	1.08	0.05	2.86	0.08	4.47	0.17	2.78	0.12	98.13	0.56
76	76-2: DRV82 ©	Tephra		?		46.66	0.53	4.35	0.11	12.63	0.13	14.53	0.35	0.20	0.04	5.06	0.08	9.75	0.18	2.86	0.41	0.78	0.02	96.82	0.89
78	78/92-1: 7/8/01-2 T1/1 ol/yt (a)	Tephra	pale tephra	?		60.96	1 analysis	1.36	1 analysis	13.50	1 analysis	9.60	1 analysis	0.28	1 analysis	1.33	1 analysis	4.60	1 analysis	4.14	1 analysis	1.89	1 analysis	97.65	1 analysis
78	78/92-1: 7/8/01-2 T1/1 ol/yt (b)	Tephra	pale tephra	?		46.40	0.51	4.34	0.69	12.95	0.88	14.55	0.65	0.23	0.02	5.28	0.70	9.67	0.33	3.03	0.18	0.69	0.12	97.12	0.43
78	78/92-4: 78T122	Tephra	pale tephra	?		65.22	0.47	1.34	0.06	13.66	0.10	6.00	0.16	0.20	0.05	1.22	0.06	3.08	0.06	4.38	0.24	2.72	0.10	97.82	0.53
78	78/92-7: 78T25	Tephra		?		66.17	0.41	1.21	0.06	14.03	0.17	5.70	0.24	0.17	0.03	1.17	0.11	3.11	0.14	4.33	0.26	2.77	0.13	98.01	0.33
81	81-5: 883INC N THORSMORK (a)	Tephra		?		65.88	0.98	1.12	0.11	13.76	0.15	5.87	0.37	0.20	0.08	1.01	0.14	2.90	0.34	4.46	0.19	2.82	0.12	98.01	0.78
81	81-3: 883DG N THORSMORK (a)	Tephra		?		62.76	0.76	1.56	0.19	13.69	0.07	7.54	0.70	0.16	0.01	1.70	0.22	4.27	0.31	4.37	0.36	2.38	0.18	98.43	0.76
81	81-3: 883DG N THORSMORK (b)	Tephra		?		52.34	1.24	3.54	0.23	12.91	0.28	12.21	0.65	0.25	0.07	3.64	0.34	7.83	0.36	3.48	0.17	1.38	0.13	97.56	0.63
81	81-3: 883DG N THORSMORK ©	Tephra		?		46.45	0.30	4.45	0.08	12.42	0.02	14.27	0.05	0.24	0.01	4.88	0.38	9.35	0.61	3.10	0.15	0.83	0.04	95.99	0.42
81	81-4: 883H N THORSMORK (a)	Tephra	pale tephra	?	layer H?	68.31	1.70	0.18	0.17	16.40	3.03	2.54	2.19	0.07	0.06	0.08	0.07	1.03	0.20	7.63	2.24	2.89	1.03	99.13	0.53
81	81-4: 883H N THORSMORK (b)	Tephra	pale tephra	?	Layer H?	47.23	1.10	4.25	0.72	12.54	0.14	14.21	0.46	0.21	0.03	4.88	0.40	9.57	0.30	3.19	0.18	0.72	0.16	96.79	0.45
82	81-5: 883INC N THORSMORK (b)	Tephra		?		47.51	1.64	4.05	0.62	12.61	0.24	13.68	0.71	0.22	0.02	4.96	0.41	9.52	0.59	3.14	0.23	0.83	0.23	96.47	0.67
83	83-1: 885A	Tephra		?		46.92	0.55	4.40	0.40	12.58	0.35	14.47	0.60	0.21	0.03	4.95	0.27	9.47	0.32	3.18	0.12	0.76	0.06	96.93	0.42
83	83-2: 885C (a)	Tephra		?		49.56	0.15	1.84	0.07	13.27	0.16	12.51	0.14	0.23	0.04	6.65	0.10	11.17	0.34	2.44	0.05	0.23	0.03	97.89	0.53
83	83-2: 885C (b)	Tephra		?		46.75	0.51	4.50	0.23	12.44	0.18	14.47	0.38	0.25	0.02	4.88	0.11	9.30	0.18	3.17	0.11	0.77	0.04	96.55	0.43
83	83-3: 885E	Tephra		?		46.82	0.44	4.74	0.11	12.25	0.15	14.47	0.27	0.21	0.02	4.86	0.17	9.36	0.31	3.20	0.11	0.84	0.05	96.74	0.77
83	83-4: 8/8/01-5 TB, North Thorsmork	Tephra		?		46.22	0.53	4.81	0.23	12.26	0.25	14.89	0.68	0.24	0.05	4.89	0.29	9.44	0.18	3.06	0.16	0.74	0.05	96.54	0.66
84	84-1: 886D (a)	Tephra		?		59.19	0.23	1.39	0.04	14.71	0.50	10.27	0.17	0.26	0.04	1.81	0.07	5.33	0.17	3.92	0.02	1.60	0.02	98.47	0.59
84	84-1: 886D (b)	Tephra		?		46.55	0.62	3.82	1.09	13.48	1.46	13.88	1.45	0.18	0.04	5.76	1.25	9.88	0.82	2.92	0.32	0.62	0.17	97.09	0.94
84	84-2: 8/8/01-6 H4? TD2, North Thorsmork (a)	Tephra		?		58.19	0.75	1.52	0.19	14.16	1.13	10.77	0.98	0.28	0.04	1.94	0.33	5.28	0.26	3.83	0.48	1.60	0.17	97.57	0.80
84	84-2: 8/8/01-6 H4? TD2, North Thorsmork (b)	Tephra		?		46.57	0.94	3.48	0.74	13.72	0.95	14.24	0.84	0.22	0.03	5.88	0.98	9.79	0.58	2.89	0.43	0.58	0.19	97.36	0.61
86	86-1: 9/8/01-1 T10 ol/yt, North Thorsmork (a)	Tephra	olive yellow tephra	?		66.71	1.17	1.10	0.09	14.04	0.30	5.69	0.38	0.19	0.04	0.91	0.34	2.88	0.37	4.26	0.35	2.85	0.11	98.64	0.71
86	86-1: 9/8/01-1 T10 ol/yt, North Thorsmork (b)	Tephra	olive yellow tephra	?		46.71	0.45	4.44	0.08	12.62	0.07	14.29	0.37	0.22	0.02	5.19	0.11	9.82	0.24	2.95	0.06	0.77	0.08	97.00	0.36
88	88-1: 9/8/01-3 T2 white tephra, North Thorsmork (a)	Tephra	white tephra	?		69.90	0.46	0.33	0.02	13.85	0.29	4.47	0.27	0.15	0.04	0.14	0.05	1.07	0.28	5.39	0.37	3.63	0.23	98.94	0.47
88	88-1: 9/8/01-3 T2 white tephra, North Thorsmork (b)	Tephra	white tephra	?		46.31	0.36	4.62	0.29	12.36	0.27	14.82	0.48	0.23	0.03	4.96	0.18	9.65	0.27	3.08	0.08	0.73	0.06	96.76	0.31
92	92-4: AN 12/8/01-4A pol/yt which tephra is this?	Tephra		?		65.48	0.62	1.31	0.09	14.15	0.16	5.90	0.41	0.18	0.04	1.28	0.08	3.44	0.24	4.24	0.30	2.69	0.13	98.66	0.45
94	94-1: SLIDE 1: North Thorsmork H4? 13/8/2001-3 (a)	Tephra		?		66.62	1.11	1.11	0.12	13.91	0.11	5.92	0.44	0.17	0.04	1.02	0.14	2.81	0.29	4.36	0.22	2.87	0.20	98.79	0.46
94	94-1: SLIDE 1: North Thorsmork H4? 13/8/2001-3 (b)	Tephra		?		47.28	1.55	4.34	0.29	12.61	0.13	14.05	0.62	0.24	0.03	4.91	0.38	9.60	0.64	3.10	0.19	0.84	0.18	96.96	0.39
94	94-2: 1383 COR (a)	Tephra		?		58.14	0.65	1.53	0.34	14.64	1.14	9.95	1.07	0.25	0.04	1.85	0.16	5.49	0.34	4.01	0.43	1.55	0.26	97.39	0.60
94	94-2: 1383 COR (b)	Tephra		?		46.15	0.64	3.82	0.86	13.37	1.07	14.19	1.04	0.24	0.03	5.64	0.96	9.84	0.64	2.97	0.32	0.61	0.16	96.82	0.56
99	997-1: North Thorsmork, Ljosa-14	Tephra		?		64.93	0.59	1.33	0.09	13.45	0.12	5.83	0.14	0.19	0.04	1.18	0.06	3.01	0.15	4.19	0.26	2.78	0.12	96.87	0.47
101	101-1: 16/8/01-1 T17 Pale	Tephra		?		66.87	0.54	1.19	0.08	13.96	0.09	5.47	0.22	0.20	0.03	1.05	0.08	2.85	0.17	4.34	0.13	2.80	0.13	98.75	0.48
101	101-2: 16/8/01-1 T1 blue? (a)	Tephra		?		64.47	1.92	0.67	0.15	14.92	0.18	7.72	1.38	0.20	0.04	0.88	0.27	3.97	0.46	4.63	0.39	1.80	0.36	99.25	0.33
101	101-2: 16/8/01-1 T1 blue? (b)	Tephra		?		47.78	1.43	4.30	0.39	12.67	0.21	14.17	0.49	0.24	0.02	4.59	0.47	9.28	0.76	3.23	0.20	0.87	0.19	97.14	0.47
102	102-2: NJAL D (a)	Tephra		?		68.22	2.97	0.69	0.44	13.48	0.62	4.89	1.10	0.16	0.05	0.58	0.49	2.02	0.98	4.47	0.22	3.24	0.55	97.74	0.66
102	102-2: NJAL D (b)	Tephra		?		46.73	0.48	4.42	0.33	12.52	0.35	14.49	0.65	0.26	0.01	4.74	0.14	9.31	0.18	3.19	0.15	0.74	0.05	96.39	0.32
102	102-3: NJAL E (a)	Tephra		?		69.72	2.01	0.33	0.00	13.15	0.25	3.78	0.35	0.13	0.04	0.15	0.03	1.14	0.21	4.77	0.23	3.56	0.12	96.73	2.17
102	102-3: NJAL E (b)	Tephra		?		66.28	1.49	1.17	0.22	13.82	0.16	5.81	0.47	0.19	0.03	1.03	0.23	2.74	0.37	4.18	0.23	2.74	0.17	97.96	0.50
102	102-3: NJAL E (c)	Tephra		?		46.35	0.33	4.52	0.16	12.42	0.17	14.66	0.22	0.23	0.04	4.86	0.09	9.41	0.09	3.03	0.11	0.76	0.02	96.24	0.23
102	102-1: Njal A	Tephra		?		69.25	1 analysis	0.82	1 analysis	13.96	1 analysis	4.22	1 analysis	0.12	1 analysis	0.71	1 analysis	1.84	1 analysis	4.51	1 analysis	3.15	1 analysis	98.57	1 analysis
102	102-1: Njal A	Tephra		?		58.04	1 analysis	1.94	1 analysis	14.29	1 analysis	8.49	1 analysis	0.10	1 analysis	2.44	1 analysis	5.49	1 analysis	3.49	1 analysis	2.13	1 analysis	96.42	1 analysis

Profile	Title sample	Tephra or not	Type	System	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
102	102-1: Njel A	Tephra		?		46.84	0.29	4.52	0.11	12.46	0.19	14.41	0.18	0.21	0.02	4.78	0.11	9.23	0.14	3.15	0.07	0.79	0.04	96.39	0.46
112	112-1: ENT 35 B	Tephra		?		46.08	0.35	4.54	0.19	12.50	0.13	14.48	0.20	0.24	0.02	5.00	0.11	9.37	0.17	3.17	0.10	0.72	0.03	96.10	0.53
115	115-1: 7:30 A (a)	Tephra		?		65.70	0.90	1.12	0.11	13.88	0.11	5.82	0.30	0.18	0.04	0.97	0.13	2.75	0.26	4.30	0.32	2.85	0.15	97.56	1.02
115	115-1: 7:30 A (b)	Tephra		?		46.48	0.70	4.23	0.23	12.48	0.27	14.36	0.37	0.23	0.02	4.82	0.27	9.39	0.32	3.12	0.17	0.80	0.06	95.91	0.22
115	115-2: 7:30 B BOTN (a)	Tephra		?		65.24	0.69	1.18	0.07	13.95	0.18	5.86	0.33	0.16	0.02	1.03	0.09	2.88	0.21	4.55	0.36	2.73	0.15	97.58	0.59
115	115-2: 7:30 B BOTN (b)	Tephra		?		47.13	1.44	4.31	0.28	13.05	0.94	13.81	0.70	0.22	0.02	5.08	0.52	9.50	0.57	3.16	0.13	0.84	0.14	96.71	0.63
129	?-?: 10/9/01-1 J H47 Kanastadir reference profile (a)	Tephra		?		72.56	1 analysis	0.04	1 analysis	12.35	1 analysis	1.94	1 analysis	0.09	1 analysis	0.07	1 analysis	1.66	1 analysis	4.67	1 analysis	2.80	1 analysis	96.19	1 analysis
129	?-?: 10/9/01-1 J H47 Kanastadir reference profile (b)	Tephra		?		57.94	0.89	1.50	0.09	13.96	0.72	9.72	0.49	0.25	0.04	2.14	0.27	5.35	0.38	4.18	0.26	1.58	0.22	96.63	0.45
129	?-?: 10/9/01-1 L H47 Kanastadir reference profile, only analyses with total >95% (a)	Tephra		?		72.48	0.83	0.07	0.01	13.03	0.13	1.80	0.08	0.06	0.02	0.03	0.02	1.28	0.05	4.98	0.21	2.81	0.07	96.53	1.07
129	?-?: 10/9/01-1 L H47 Kanastadir reference profile, only analyses with total >95% (b)	Tephra		?		61.21	2.12	1.27	0.27	14.73	0.85	8.09	1.77	0.20	0.05	1.40	0.25	4.61	0.81	5.21	0.46	1.76	0.51	98.48	1.03

Electron Microprobe Data (like Veidivotn): means and standard deviations for each sample

Fit Landnam criteria from Tephrabase:

Profile	Title sample	Type	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
68	68-P1: Top North Aurasel 2/7/01-A PUM A	pumice	70.59	0.65	0.28	0.03	14.39	0.20	2.29	0.09	0.05	0.03	0.25	0.03	0.88	0.05	4.59	0.09	4.61	0.16	97.95	0.94
68	68-P2: Top North Aurasel 2/7/01-B PUM B	pumice	70.87	0.79	0.29	0.03	14.48	0.23	2.29	0.07	0.10	0.02	0.25	0.02	0.84	0.05	4.65	0.13	4.62	0.08	98.39	1.10
68	68-1: North Aurasel Top pale tephra (a)	pale tephra	70.90	1.22	0.24	0.04	14.48	0.31	2.36	0.03	0.08	0.06	0.28	0.01	0.88	0.03	4.39	0.15	4.60	0.11	98.21	1.54
68	68-2: North Aurasel Bottom pale tephra (a)	pale tephra	71.51	1.51	0.18	0.01	13.50	1.92	2.30	0.19	0.08	0.03	0.05	0.02	0.84	0.53	5.51	1.25	3.41	0.58	97.38	1.85
129	?-?: 10/9/01-1 L H4? Kanastadir reference profile, only analyses with total >95% (a)		72.48	0.83	0.07	0.01	13.03	0.13	1.80	0.08	0.06	0.02	0.03	0.02	1.28	0.05	4.98	0.21	2.81	0.07	96.53	1.07

shading indicates one criteria different

Related analyses:

Profile	Title sample	Type	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
68	68-1: North Aurasel Top pale tephra (b)	pale tephra	47.23	0.83	4.40	0.12	12.54	0.19	14.08	0.37	0.20	0.03	5.09	0.86	9.03	0.20	3.20	0.06	0.85	0.07	96.63	1.27
68	68-2: North Aurasel Bottom pale tephra (b)	pale tephra	46.92	1.33	4.37	0.30	12.57	0.17	14.10	0.78	0.24	0.01	4.86	0.29	9.45	0.63	3.11	0.12	0.82	0.16	96.44	0.56
129	?-?: 10/9/01-1 L H4? Kanastadir reference profile, only analyses with total >95% (b)		61.21	2.12	1.27	0.27	14.73	0.85	8.09	1.77	0.20	0.05	1.40	0.25	4.61	0.81	5.21	0.46	1.76	0.51	98.48	1.03

CRITERIA from Tephrabase data	Si low	Si up	Ti low	Ti up	Al low	Al up	Fe low	Fe up	Mn low	Mn up	Mg low	Mg up	Ca low	Ca up	Na low	Na up	K low	K up
Landnam (a)	64.95 (64)	74.43 (75)	0.07 (0)	0.34 (0.4)	13.01 (13)	14.85 (15)	2	2.56 (2.6)	0	0.15	0.01	0.31	0.79	1.32	2.24	5.33	2	4.88
Landnam (b)	46.88	50.82	1.44	4.42	12.89	14.48	10.77	14.01	0.11	0.32	4.23	7.64	8.51	12.29	2.11	3.52	0.17	0.85

Electron Microprobe Data (like Eyjafjallajökull): means and standard deviations for each sample

(E1821-3 Tephrabase and Layer H this thesis for comparison)

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
16	16-1: 21/6/2000-1 SmL Lower cobble, Gully be Gigjokull (a)	Diamict matrix		68.57	2.06	0.39	0.07	13.16	1.00	4.85	1.11	0.19	0.05	0.20	0.03	1.59	0.27	4.85	0.32	3.70	0.13	97.48	2.30
17	17-2: 22/6 H	Pale tephra	Layer H	68.82	0.90	0.25	0.06	13.57	0.41	4.32	0.63	0.17	0.04	0.11	0.02	1.05	0.32	5.79	0.24	3.63	0.20	97.70	0.67
24	24-1: 28/6-B H (a)	Pale tephra	Layer H	69.41	0.75	0.3	0.05	13.88	0.19	4.46	0.47	0.15	0.04	0.14	0.04	1.17	0.17	5.14	0.52	3.53	0.13	98.19	0.73
26	26-1: 30/6 SmS 30/6/2000-1 Matrix SmS unit above Sm, Gully by Gigjokull (a)	Diamict matrix		68.82	2.05	0.28	0.07	14.34	1.44	3.75	0.50	0.16	0.02	0.08	0.02	1.73	0.26	5.83	0.93	3.53	0.42	98.51	0.33
31	31-2: T2 (a)	?		69.13	1.69	0.28	0.06	13.62	0.70	4.88	1.38	0.18	0.10	0.19	0.20	1.44	1.27	5.27	0.69	3.56	0.36	98.54	0.47
31	31-3: T3 (a)	?		70.15	1.33	0.26	0.08	13.63	0.55	4.55	0.96	0.15	0.04	0.13	0.05	1.07	0.47	5.76	0.85	3.48	0.38	99.18	0.46
31	31-2: T2 Layer Ho 18/8/2000-1 Gully by Gigjokull (a)	Pale tephra	Layer H	69.48	0.58	0.25	0.06	14.06	0.87	4.27	0.77	0.15	0.07	0.12	0.06	1.10	0.31	5.54	1.08	3.54	0.42	98.52	0.43
31	31-3: T3 Layer Ho(2) 18/8/2000-1 Gully by Gigjokull (a)	Pale tephra	Layer H (2)	70.46	0.76	0.25	0.06	13.64	0.58	4.34	0.58	0.14	0.04	0.12	0.04	0.95	0.17	5.83	0.84	3.47	0.40	99.20	0.48
32	32-2: T5 (a)	?		69.98	1.04	0.23	0.05	13.94	0.76	4.47	1.20	0.16	0.09	0.17	0.14	1.21	0.46	5.56	0.88	3.39	0.47	99.10	0.43
32	32-2: T5 Layer Ho(2) 21/8/2000 Section by road (a)	Pale tephra	Layer H (2)	70.33	0.53	0.23	0.05	13.92	0.28	4.29	0.40	0.15	0.08	0.13	0.04	1.09	0.17	5.40	0.80	3.47	0.48	99.00	0.38
34	34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 (a)	Thick black tephra	K-E or K-N	70.36	1 analysis	0.28	1 analysis	13.16	1 analysis	3.93	1 analysis	0.03	1 analysis	0.22	1 analysis	1.25	1 analysis	4.92	1 analysis	3.6	1 analysis	97.75	1 analysis
88	88-1: 9/8/01-3 T2 white tephra, North Thorsmork (a)	white tephra		69.90	0.46	0.33	0.02	13.85	0.29	4.47	0.27	0.15	0.04	0.14	0.05	1.07	0.28	5.39	0.37	3.63	0.23	98.94	0.47
91	91-1: north thorsmork H 12/8/01-3 (a)	pale tephra	Layer H?	69.36	0.20	0.32	0.04	13.92	0.13	4.29	0.32	0.15	0.03	0.13	0.04	1.02	0.13	5.91	0.68	3.40	0.25	98.50	0.66
100	100-1: North Thorsmork, Thronga H (a)	pale tephra	Layer H	69.07	0.45	0.34	0.04	14.02	0.13	4.29	0.28	0.16	0.04	0.10	0.02	1.02	0.11	5.30	0.35	3.52	0.19	97.81	0.48
102	102-3: NJAL E (a)			69.72	2.01	0.33	0.00	13.15	0.25	3.78	0.35	0.13	0.04	0.15	0.03	1.14	0.21	4.77	0.23	3.56	0.12	96.73	2.17
146	?-7: 18/7/02-1 Lambafellsheidi T11 Layer H?	pale tephra	Layer H?	68.07	0.54	0.31	0.02	14.06	0.15	4.14	0.15	0.17	0.03	0.16	0.02	1.17	0.10	5.55	0.60	3.44	0.16	97.08	0.80

CRITERIA from tephrabase data E1821 and Smjorgil Layer H	Si low	Si up	Ti low	Ti up	Al low	Al up	Fe low	Fe up	Mn low	Mn up	Mg low	Mg up	Ca low	Ca up	Na low	Na up	K low	K up
Layer H (a)	67.77 (67)	70.89 (71)	0.12 (0.1)	0.45 (0.5)	12.88 (12)	14.67 (15)	2.99 (2.5)	5.27 (5.5)	0.09 (0)	0.22 (0.25)	0.05 (0)	0.21 (0.25)	0.56 (0.5)	1.77 (1.8)	3.53 (3)	7.05 (7.1)	3.15 (3.1)	3.96 (4)

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
16	16-1: 21/6/2000-1 SmL Lower cobble, Gully be Gigjokull (b)	Diamict matrix		48.47	2.94	4.25	0.73	12.61	0.51	14.25	1.02	0.25	0.05	4.27	1.00	8.55	1.37	3.35	0.50	1.14	0.58	97.13	1.01
24	24-1: 28/6-B H (b)	Pale tephra	Layer H	49.46	2.01	3.91	0.58	12.59	0.72	13.70	1.03	0.23	0.04	4.12	0.61	8.25	1.03	3.37	0.36	1.26	0.44	96.89	0.74
26	26-1: 30/6 SmS 30/6/2000-1 Matrix SmS unit above Sm, Gully by Gigjokull (b)	Diamict matrix		47.76	1.11	3.59	1.35	12.59	0.52	13.67	0.99	0.27	0.05	5.41	0.79	10.27	0.95	2.91	0.35	0.64	0.31	97.11	0.57
31	31-2: T2 (b)	?		47.63	1.84	4.20	0.62	12.74	0.46	13.76	0.82	0.24	0.05	4.67	0.51	9.15	0.84	3.32	0.33	1.02	0.24	96.73	0.35
31	31-3: T3 (b)	?		48.59	1.73	4.01	0.57	12.67	0.22	14.08	0.65	0.30	0.12	4.53	0.52	9.03	0.76	3.42	0.33	0.96	0.23	97.58	0.41
31	31-2: T2 Layer Ho 18/8/2000-1 Gully by Gigjokull (b)	Pale tephra	Layer H	47.46	1.86	4.25	0.63	12.62	0.62	13.95	1.02	0.25	0.06	4.63	0.51	9.13	0.80	3.29	0.33	1.02	0.23	96.59	0.60
31	31-3: T3 Layer Ho(2) 18/8/2000-1 Gully by Gigjokull (b)	Pale tephra	Layer H (2)	48.59	1.73	4.01	0.57	12.67	0.22	14.08	0.65	0.30	0.12	4.53	0.52	9.03	0.76	3.42	0.33	0.96	0.23	97.58	0.41
32	32-2: T5 (b)	?		47.68	1.02	4.36	0.25	12.51	0.25	14.28	0.40	0.19	0.02	4.59	0.48	9.36	0.53	3.19	0.21	0.84	0.13	97.01	0.57
32	32-2: T5 Layer Ho(2) 21/8/2000 Section by road (b)	Pale tephra	Layer H (2)	47.68	1.02	4.36	0.25	12.51	0.25	14.28	0.40	0.19	0.02	4.59	0.48	9.36	0.53	3.19	0.21	0.84	0.13	97.01	0.57
34	34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 (b)	Thick black tephra	K-E or K-N	46.47	0.39	4.50	0.11	12.57	0.11	14.50	0.19	0.21	0.03	4.96	0.12	9.80	0.13	3.06	0.07	0.76	0.04	96.83	0.49
88	88-1: 9/8/01-3 T2 white tephra, North Thorsmork (b)	white tephra		46.31	0.36	4.62	0.29	12.36	0.27	14.82	0.48	0.23	0.03	4.96	0.18	9.65	0.27	3.08	0.08	0.73	0.06	96.76	0.31
91	91-1: north thorsmork H 12/8/01-3 (b)	pale tephra	Layer H?	47.05	0.74	4.31	0.20	12.73	0.15	14.19	0.18	0.18	0.02	4.82	0.20	9.27	0.30	3.22	0.16	0.80	0.06	96.56	0.42
100	100-1: North Thorsmork, Thronga H (b)	pale tephra	Layer H	64.81	1.21	1.38	0.03	13.95	0.17	6.54	0.66	0.21	0.04	1.24	0.13	3.27	0.33	4.27	0.21	2.61	0.11	98.27	0.17
100	100-1: North Thorsmork, Thronga H ©	pale tephra	Layer H	45.66	0.13	4.29	0.18	12.66	0.23	14.31	0.24	0.24	0.02	5.06	0.12	9.78	0.15	3.08	0.14	0.71	0.04	95.79	0.06
102	102-3: NJAL E (b)			66.28	1.49	1.17	0.22	13.82	0.16	5.81	0.47	0.19	0.03	1.03	0.23	2.74	0.37	4.18	0.23	2.74	0.17	97.96	0.50
102	102-3: NJAL E (c)			46.35	0.33	4.52	0.16	12.42	0.17	14.66	0.22	0.23	0.04	4.86	0.09	9.41	0.09	3.03	0.11	0.76	0.02	96.24	0.23

Electron Microprobe Data (like Katla Basalt): means and standard deviations for each sample

(Tephrabase and Duncan 2000 for comparison)

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
18	18-1: 22/6/2000 BLACK NEEDLE LAYER	Black tephra		47.05	0.65	4.54	0.11	12.46	0.26	14.62	0.30	0.21	0.03	4.78	0.07	9.40	0.31	3.14	0.16	0.85	0.05	97.04	1.05
19	19-1: 22/6/2000-3 SmL Unit X	Diamict matrix		47.11	0.42	4.51	0.13	12.64	0.11	14.17	0.20	0.24	0.03	4.70	0.06	9.10	0.16	3.23	0.06	0.86	0.08	96.57	0.68
23	23-2: 27/6SI Layer SI 27/6/2000-S1A, Gudrun's ref section (b)	Pale layer	Layer SI	46.82	0.84	4.45	0.11	12.49	0.12	13.72	0.70	0.24	0.02	4.84	0.22	9.90	0.17	3.06	0.04	0.77	0.01	96.29	0.31
23	23-1: 27/6Un Layer UN, 27/6/2000-S1A Gudrun's ref section (b)	Pale tephra	SILK UN	46.73	0.28	4.44	0.20	12.32	0.51	14.43	0.71	0.24	0.05	4.71	0.32	9.30	0.23	3.24	0.16	0.88	0.11	96.28	0.33
24	24-2: CL 27/6/2000-1B Coarse layer, Unit U, PROFILE 24			46.29	0.18	4.49	0.13	12.59	0.18	14.47	0.19	0.23	0.02	5.00	0.14	9.60	0.14	3.10	0.07	0.73	0.05	96.50	0.26
24	24-2: CL 27/6/2000-1B Coarse layer, Unit U - same as above?			46.06	0.66	4.47	0.12	12.55	0.17	14.42	0.19	0.23	0.03	5.01	0.12	9.56	0.24	3.09	0.06	0.74	0.09	96.15	0.85
30	30-5: T8, 3/7/2000-1 section by road, SI? ©	Pale tephra	SI?	46.24	0.40	4.63	0.36	12.19	0.45	14.92	0.74	0.22	0.04	4.76	0.39	9.50	0.29	3.15	0.06	0.80	0.12	96.40	0.36
30	30-1: *1Un Layer UN 3/7/2000 Section by road (b)	Pale needle tephra	SILK UN	46.84	0.21	4.55	0.10	12.22	0.44	14.46	0.19	0.22	0.02	4.83	0.09	9.55	0.14	3.17	0.03	0.87	0.15	96.71	0.20
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (b)	Pale tephra	SILK YN	46.88	1.16	4.45	0.19	12.62	0.18	13.75	0.47	0.18	0.03	4.99	0.31	9.70	0.49	3.12	0.17	0.81	0.14	96.49	0.59
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (b)	Pale tephra	SILK YN	46.88	1.16	4.45	0.19	12.62	0.18	13.75	0.47	0.18	0.03	4.99	0.31	9.70	0.49	3.12	0.17	0.81	0.14	96.49	0.59
32	32-4: 21/8 Sm Basal gravel from section by road. Sm? Or SmL? Possibly below Y (b)	Diamict matrix		46.52	1.05	4.26	0.64	12.56	0.29	13.93	0.66	0.25	0.02	4.93	0.72	9.72	0.49	3.12	0.37	0.75	0.15	96.07	0.41
32	32-1: T4 (b)	?		47.80	1.51	4.26	0.31	12.73	0.15	14.14	0.69	0.22	0.04	4.80	0.43	9.56	0.56	3.14	0.15	0.90	0.15	97.55	0.57
32	32-3: T4 repeated (b)	?		46.68	0.77	4.43	0.14	12.51	0.07	14.30	0.86	0.18	0.04	4.98	0.19	9.81	0.45	3.02	0.13	0.74	0.08	96.65	0.84
32	32-1: T4 Layer Ho 21/8/2000-1 Section by road (b)	Pale tephra	Layer H	47.80	1.51	4.26	0.31	12.73	0.15	14.14	0.69	0.22	0.04	4.80	0.43	9.56	0.56	3.14	0.15	0.90	0.15	97.55	0.57
34	34-3: MPU 4/9-1, Main pumice unit, unit U, 4/9/2000-1, PROFILE 34 (b)	Thick black tephra	K-E or K-N	46.47	0.39	4.50	0.11	12.57	0.11	14.50	0.19	0.21	0.03	4.96	0.12	9.80	0.13	3.06	0.07	0.76	0.04	96.83	0.49
34	34-4: MPU 4/9/2000-1 Main pumice unit. Unit U	Thick black tephra	K-E or K-N	46.21	0.35	4.49	0.12	12.56	0.16	14.33	0.33	0.25	0.03	4.98	0.08	9.68	0.10	3.09	0.04	0.77	0.05	96.34	0.77
34	34-5: TC (T below Un/SI , above 2 pale tephras) N Markarfljot 4/9/2000 ©	tephra		46.48	0.94	4.66	0.26	12.42	0.20	14.94	0.42	0.22	0.05	4.71	0.04	9.64	0.29	3.24	0.13	0.82	0.09	97.12	0.35
35	35-5: 5/9/2000-1G Layer L (b)	Black tephra?		45.97	0.34	4.32	0.07	12.40	0.10	14.43	0.17	0.23	0.02	4.88	0.07	9.46	0.15	3.07	0.07	0.74	0.03	95.50	0.32
36	36-1: 6/9/2000 BLACK TEPHRA	Black tephra		46.73	0.47	4.57	0.15	12.51	0.10	14.52	0.22	0.21	0.02	4.84	0.20	9.53	0.28	3.08	0.12	0.81	0.07	96.79	0.45
40	40-3: 8/9/2000-1 Layer U, PROFILE 40	Thick black tephra		46.34	0.87	4.41	0.14	12.19	0.31	14.44	0.38	0.23	0.02	4.96	0.53	9.63	0.50	3.03	0.16	0.78	0.09	96.01	0.30
42	42-2: 8/9/2000-3 Hard beetle layer, Unit L (b)	Flood deposit		46.52	0.70	4.29	0.18	12.32	0.12	14.33	0.51	0.23	0.02	4.91	0.18	9.43	0.33	3.14	0.10	0.79	0.09	95.94	0.36
44	44-1: T28 Layer Un (b)	Pale tephra	SILK UN	46.60	0.11	4.76	0.26	12.29	0.49	14.95	0.65	0.21	0.03	4.71	0.18	9.63	0.08	3.12	0.03	0.81	0.08	97.08	0.39
44	44-2: T29 Layer SI	Pale tephra	Layer SI	47.05	0.59	4.46	0.22	12.37	0.18	14.54	0.49	0.20	0.03	4.77	0.28	9.52	0.52	3.17	0.09	0.81	0.09	96.89	0.75
63	63-1: SLIDE 1: Smjorgil silicic inclusion 26/6/2001 - slumping?? H	pale tephra inclusion in flood	Layer H	47.41	1.26	4.26	0.42	12.66	0.34	14.20	0.56	0.23	0.02	4.69	0.64	9.23	0.76	3.22	0.16	0.86	0.21	96.75	0.70
68	68-1: North Aurasel Top pale tephra (b)	pale tephra		47.23	0.83	4.40	0.12	12.54	0.19	14.08	0.37	0.20	0.03	5.09	0.86	9.03	0.20	3.20	0.06	0.85	0.07	96.63	1.27
68	68-2: North Aurasel Bottom pale tephra (b)	pale tephra		46.92	1.33	4.37	0.30	12.57	0.17	14.10	0.78	0.24	0.01	4.86	0.29	9.45	0.63	3.11	0.12	0.82	0.16	96.44	0.56
76	76-2: DRV82 ©			46.66	0.53	4.35	0.11	12.63	0.13	14.53	0.35	0.20	0.04	5.06	0.08	9.75	0.18	2.86	0.41	0.78	0.02	96.82	0.89
81	81-3: 883DG N THORSMORK ©			46.45	0.30	4.45	0.08	12.42	0.02	14.27	0.05	0.24	0.01	4.88	0.38	9.35	0.61	3.10	0.15	0.83	0.04	95.99	0.42
81	81-4: 883H N THORSMORK (b)	pale tephra	Layer H?	47.23	1.10	4.25	0.72	12.54	0.14	14.21	0.46	0.21	0.03	4.88	0.40	9.57	0.30	3.19	0.18	0.72	0.16	96.79	0.45
83	83-1: 885A			46.92	0.55	4.40	0.40	12.58	0.35	14.47	0.60	0.21	0.03	4.95	0.27	9.47	0.32	3.18	0.12	0.76	0.06	96.93	0.42
83	83-2: 885C (b)			46.75	0.51	4.50	0.23	12.44	0.18	14.47	0.38	0.25	0.02	4.88	0.11	9.30	0.18	3.17	0.11	0.77	0.04	96.55	0.43
83	83-3: 885E			46.82	0.44	4.74	0.11	12.25	0.15	14.47	0.27	0.21	0.02	4.86	0.17	9.36	0.31	3.20	0.11	0.84	0.05	96.74	0.77
83	83-4: 8/8/01-5 TB, North Thorsmork			46.22	0.53	4.81	0.23	12.26	0.25	14.89	0.68	0.24	0.05	4.89	0.29	9.44	0.18	3.06	0.16	0.74	0.05	96.54	0.66
88	88-1: 9/8/01-3 T2 white tephra, North Thorsmork (b)	white tephra		46.31	0.36	4.62	0.29	12.36	0.27	14.82	0.48	0.23	0.03	4.96	0.18	9.65	0.27	3.08	0.08	0.73	0.06	96.76	0.31
91	91-1: north thorsmork H 12/8/01-3 (b)	pale tephra	Layer H?	47.05	0.74	4.31	0.20	12.73	0.15	14.19	0.18	0.18	0.02	4.82	0.20	9.27	0.30	3.22	0.16	0.80	0.06	96.56	0.42
94	94-1: SLIDE 1: North Thorsmork H4? 13/8/2001-3 (b)			47.28	1.55	4.34	0.29	12.61	0.13	14.05	0.62	0.24	0.03	4.91	0.38	9.60	0.64	3.10	0.19	0.84	0.18	96.96	0.39
100	100-3: North Thorsmork, Thronga UN (b)	pale tephra	SILK UN	46.49	0.38	4.60	0.21	12.61	0.12	14.63	0.27	0.22	0.02	4.97	0.16	9.74	0.45	3.11	0.16	0.73	0.03	97.09	0.49
100	100-4: North Thorsmork, Thronga ST ©	pale tephra	Layer SI	46.61	0.64	4.39	0.14	12.57	0.24	14.35	0.28	0.24	0.02	4.89	0.34	9.35	0.46	3.28	0.20	0.79	0.10	96.47	0.43
100	100-1: North Thorsmork, Thronga H ©	pale tephra	Layer H	45.66	0.13	4.29	0.18	12.66	0.23	14.31	0.24	0.24	0.02	5.06	0.12	9.78	0.15	3.08	0.14	0.71	0.04	95.79	0.06
100	100-2: North Thorsmork, Thronga Y (b)	pale tephra	SILK YN	46.69	1.08	4.40	0.13	12.55	0.10	14.25	0.45	0.23	0.04	4.94	0.21	9.57	0.32	3.10	0.13	0.77	0.10	96.50	0.41
102	102-2: NJAL D (b)			46.73	0.48	4.42	0.33	12.52	0.35	14.49	0.65	0.26	0.01	4.74	0.14	9.31	0.18	3.19	0.15	0.74	0.05	96.39	0.32
102	102-3: NJAL E (c)			46.35	0.33	4.52	0.16	12.42	0.17	14.66	0.22	0.23	0.04	4.86	0.09	9.41	0.09	3.03	0.11	0.76	0.02	96.24	0.23
102	102-1: Njal A			46.84	0.29	4.52	0.11	12.46	0.19	14.41	0.18	0.21	0.02	4.78	0.11	9.23	0.14	3.15	0.07	0.79	0.04	96.39	0.46
112	112-1: ENT 35 B			46.08	0.35	4.54	0.19	12.50	0.13	14.48	0.20	0.24	0.02	5.00	0.11	9.37	0.17	3.17	0.10	0.72	0.03	96.10	0.53
115	115-1: 7:30 A (b)			46.48	0.70	4.23	0.23	12.48	0.27	14.36	0.37	0.23	0.02	4.82	0.27	9.39	0.32	3.12	0.17	0.80	0.08	95.91	0.22
115	115-2: 7:30 B BOTN (b)			47.13	1.44	4.31	0.28	13.05	0.94	13.81	0.70	0.22	0.02	5.08	0.52	9.50	0.57	3.16	0.13	0.84	0.14	96.71	0.63
156?	x-x 23/7/02 Trollagja 1 (b)			47.02	0.92	4.41	0.22	13.02	0.08	13.50	0.37	0.23	0.04	5.05	0.25	9.59	0.39	3.21	0.12	0.80	0.13	96.83	0.30

CRITERIA from tephrabase data K1000 and Anne Duncan's KR920	Si low	Si up	Ti low	Ti up	Al low	Al up	Fe low	Fe up	Mn low	Mn up	Mg low	Mg up	Ca low	Ca up	Na low	Na up	K low	K up
Katla basalt	44.39 (44)	47.7 (48)	4.23 (4.2)	5.11 (5.2)	11.51 (11.5	13.05 (13.1	13.43 (13)	15.78 (16)	0.16 (0.15)	0.35 (0.35)	4.65 (4.6)		5.1	9.22 (9)	9.9 (10)	2.41 (2.4)	3.61 (3.7)	0.65 (0.6)	0.89 (0.9)

Electron Microprobe Data (like SILK YN): means and standard deviations for each sample

Profile	Title sample	Type of sample	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
17	17-1: 226Y (a)	Pale tephra	SILK YN	66.37	1.07	1.09	0.09	13.86	0.15	5.89	0.34	0.19	0.03	1.05	0.14	2.89	0.20	4.39	0.35	2.86	0.15	98.58	0.63
30	30-3: T6 Layer Y 3/7/2000 Section by road (a)	Pale tephra	SILK YN	65.81	0.65	1.08	0.08	13.76	0.15	6.00	0.34	0.22	0.07	1.09	0.11	2.93	0.24	4.37	0.20	2.75	0.11	98.01	0.43
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (a)	Pale tephra	SILK YN	66.07	0.88	1.10	0.12	13.80	0.24	6.01	0.38	0.20	0.07	1.03	0.15	2.99	0.29	4.46	0.47	2.90	0.46	98.56	0.49
31	31-1: T1 Layer Y 18/8/2000-1 Layer Y (a)	Pale tephra	SILK YN	66.07	0.88	1.10	0.12	13.80	0.24	6.01	0.38	0.20	0.07	1.03	0.15	2.99	0.29	4.46	0.47	2.90	0.46	98.56	0.49
32	32-1: T4 (a)	?		66.16	0.76	1.09	0.28	13.83	0.14	5.81	0.32	0.20	0.05	1.00	0.15	2.85	0.28	4.43	0.13	2.88	0.17	98.24	0.36
32	32-3: T4 repeated (a)	?		65.80	0.66	1.14	0.09	13.78	0.28	5.97	0.38	0.15	0.15	0.99	0.12	2.93	0.22	4.65	0.24	2.82	0.14	98.21	0.55
32	32-1: T4 Layer Ho 21/8/2000-1 Section by road (a)	Pale tephra		66.16	0.76	1.09	0.28	13.83	0.14	5.81	0.32	0.20	0.05	1.00	0.15	2.85	0.28	4.43	0.13	2.88	0.17	98.24	0.36
41	41-1: T24 LOWER PALE TEPHRA	Pale tephra	SILK N4	66.31	0.47	1.13	0.06	13.82	0.10	5.30	0.19	0.18	0.04	1.04	0.05	2.83	0.15	4.49	0.23	2.91	0.08	98.02	0.69
59	59-2: Fljotsdalur reference profile T33, N4?	pale tephra	SILK N4?	65.87	0.42	1.22	0.10	13.89	0.14	5.46	0.20	0.20	0.04	1.06	0.07	2.85	0.19	4.31	0.19	2.80	0.09	97.65	0.66
59	59-4: Fljotsdalur reference profile T62			66.20	0.36	1.14	0.05	14.14	0.12	5.67	0.18	0.17	0.04	1.18	0.04	3.16	0.15	4.43	0.33	2.78	0.07	98.86	0.67
75	75-1: West Kanastadir 22 Triplet			65.07	0.28	1.20	0.06	14.02	0.12	5.55	0.11	0.18	0.03	1.17	0.06	3.19	0.11	4.37	0.23	2.72	0.09	97.48	0.43
75	75-2: West Kanastadir 25 Triplet			65.20	0.58	1.18	0.06	13.99	0.15	5.25	0.58	0.19	0.04	1.18	0.06	3.08	0.15	4.48	0.16	2.75	0.12	97.46	0.52
76	76-2: DRV82 (b)			65.98	0.30	1.23	0.05	13.98	0.15	5.60	0.15	0.15	0.04	1.08	0.05	2.86	0.08	4.47	0.17	2.78	0.12	98.13	0.56
78	78/92-4: 782T122	pale tephra		65.22	0.47	1.34	0.06	13.66	0.10	6.00	0.16	0.20	0.05	1.22	0.06	3.08	0.06	4.38	0.24	2.72	0.10	97.82	0.53
78	78/92-6: T22N	pale tephra, needles		65.91	0.56	1.30	0.05	13.66	0.18	5.93	0.17	0.21	0.04	1.20	0.06	3.09	0.14	4.29	0.20	2.68	0.08	98.27	0.74
78	78/92-7: 78T25			66.17	0.41	1.21	0.06	14.03	0.17	5.70	0.24	0.17	0.03	1.17	0.11	3.11	0.14	4.33	0.26	2.77	0.13	98.67	0.33
79	79-1: 881Y N Thorsmork gully section 8/8/2001-1 Y?	pale tephra	SILK YN?	65.99	0.79	1.14	0.12	13.73	0.16	5.70	0.36	0.16	0.04	1.03	0.14	2.88	0.27	4.52	0.14	2.75	0.15	97.89	0.38
81	81-5: 883INC N THORSMORK (a)			65.88	0.98	1.12	0.11	13.76	0.15	5.87	0.37	0.20	0.08	1.01	0.14	2.90	0.34	4.46	0.19	2.82	0.12	98.01	0.78
86	86-1: 9/8/01-1 T10 ol/yt, North Thorsmork (a)	olive yellow tephra		66.71	1.17	1.10	0.09	14.04	0.30	5.69	0.38	0.19	0.04	0.91	0.34	2.88	0.37	4.26	0.35	2.85	0.11	98.64	0.71
91	91-2: north thorsmork Y 12/8/01-3 (b)	pale tephra	Silk YN	66.09	0.98	1.13	0.11	13.93	0.18	5.81	0.42	0.16	0.03	0.99	0.13	2.85	0.27	4.26	0.25	2.70	0.14	97.92	0.72
94	94-1: SLIDE 1: North Thorsmork H4? 13/8/2001-3 (a)			66.62	1.11	1.11	0.12	13.91	0.11	5.92	0.44	0.17	0.04	1.02	0.14	2.81	0.29	4.36	0.22	2.87	0.20	98.79	0.46
99	997-1: North Thorsmork, Ljosa-14			64.93	0.59	1.33	0.09	13.45	0.12	5.83	0.14	0.19	0.04	1.18	0.06	3.01	0.15	4.19	0.26	2.78	0.12	96.87	0.47
100	100-2: North Thorsmork, Thronga Y (a)	pale tephra	SILK YN	65.91	1.05	1.08	0.12	13.87	0.14	5.94	0.45	0.21	0.04	1.01	0.14	2.88	0.24	4.23	0.20	2.78	0.16	97.91	0.54
101	101-1: 16/8/01-1 T1? Pale			66.87	0.54	1.19	0.08	13.96	0.09	5.47	0.22	0.20	0.03	1.05	0.08	2.85	0.17	4.34	0.13	2.80	0.13	98.75	0.48
102	102-3: NJAL E (b)			66.28	1.49	1.17	0.22	13.82	0.16	5.81	0.47	0.19	0.03	1.03	0.23	2.74	0.37	4.18	0.23	2.74	0.17	97.96	0.50
115	115-1: 7:30 A (a)			65.70	0.90	1.12	0.11	13.88	0.11	5.82	0.30	0.18	0.04	0.97	0.13	2.75	0.26	4.30	0.32	2.85	0.15	97.56	1.02
115	115-2: 7:30 B BOTN (a)			65.24	0.69	1.18	0.07	13.95	0.18	5.86	0.33	0.16	0.02	1.03	0.09	2.88	0.21	4.55	0.36	2.73	0.15	97.58	0.59
156?	x-x: 23/7/02 Trollagja 1 (a)			64.80	0.71	1.15	0.08	14.13	0.16	5.57	0.33	0.20	0.03	1.07	0.13	2.91	0.24	4.10	0.20	2.73	0.10	96.67	0.55

	Si low	Si up	Ti low	Ti up	Al low	Al up	Fe low	Fe up	Mn low	Mn up	Mg low	Mg up	Ca low	Ca up	Na low	Na up	K low	K up
CRITERIA from Larsen et al 2001 and Dugmore et al 2000																		
SILK YN (a)	63.76 (63.5	67.53 (68)	0.95 (0.9)	1.31 (1.4)	13.37 (13)	14.46 (14.5	5.1 (5)	6.28 (6.5)	0.14 (0.1)	0.25 (0.3)	0.54 (0.5)	1.23 (13)	2.03 (2)	3.26 (3.3)	3.92 (3.9)	4.78 (4.8)	2.48 (2.4)	3.17 (3.2)

Electron Microprobe Data (like SILK UN): means and standard deviations for each sample

(comparison data from Larsen *et al*., 2001)

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
23	23-1: 27/6Un Layer UN, 27/6/2000-S1A Gudrun's ref section (a)	Pale tephra	SILK UN	64.40	0.56	1.33	0.08	13.73	0.32	6.01	0.18	0.23	0.03	1.33	0.06	3.42	0.33	4.30	0.20	2.77	0.44	97.52	0.77
30	30-1: *1Un Layer UN 3/7/2000 Section by road (a)	Pale needle tephra	SILK UN	64.82	0.62	1.29	0.06	13.74	0.12	5.96	0.21	0.19	0.03	1.30	0.06	3.40	0.20	4.68	0.39	2.46	0.43	97.84	0.69
34	34-1: TB Layer Un (a)	Pale tephra	SILK UN	64.76	0.45	1.34	0.08	13.97	0.15	5.95	0.21	0.31	0.63	1.30	0.08	3.41	0.23	4.51	0.37	2.52	0.20	98.06	0.77
35	35-5: 5/9/2000-1G Layer L (a)	Black tephra?		63.75	2.32	1.42	0.27	13.65	0.10	6.01	0.91	0.15	0.04	1.36	0.33	3.34	0.68	4.37	0.18	2.63	0.27	96.66	0.75
40	40-1: *T20 Layer Un, N. Markarfljot (a)	Pale tephra	SILK UN	64.85	0.68	1.36	0.05	13.82	0.16	6.05	0.21	0.11	0.04	1.32	0.05	3.34	0.11	4.31	0.51	2.68	0.26	97.84	1.06
44	44-1: T28 Layer Un (a)	Pale tephra	SILK UN	64.91	0.66	1.36	0.08	13.86	0.20	5.85	0.35	0.12	0.04	1.25	0.11	3.31	0.24	4.39	0.28	2.61	0.11	97.66	0.64
59	59-3: Fljotsdalur reference profile T60	pale tephra		64.46	0.50	1.31	0.06	14.06	0.13	5.87	0.32	0.16	0.03	1.30	0.10	3.47	0.24	4.26	0.33	2.66	0.13	97.56	0.85
75	75-3: West Kenastadir 21 Triplet			64.46	0.53	1.27	0.10	14.11	0.18	5.73	0.29	0.19	0.04	1.27	0.07	3.37	0.18	4.34	0.38	2.66	0.06	97.40	0.36
99	99?-1: North Thorsmork, Ljosa-14			64.93	0.59	1.33	0.09	13.45	0.12	5.83	0.14	0.19	0.04	1.18	0.06	3.01	0.15	4.19	0.26	2.78	0.12	96.87	0.47

Could be UN, N3, N2, A5

Electron Microprobe Data (like Hekla-S): means and standard deviations for each sample

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
23	23-2: 27/6St Layer St 27/6/2000-S1A, Gudrun's ref section (a)	Pale layer	Layer St	63.39	0.86	0.92	0.16	14.91	0.44	6.36	0.24	0.19	0.03	1.27	0.07	4.26	0.36	4.10	0.14	1.70	0.32	97.09	1.05
30	30-5: T8, 3/7/2000-1 section by road, St? (a)	Pale tephra	St?	63.54	0.51	0.85	0.16	15.79	1.12	5.77	0.82	0.06	0.06	1.11	0.21	5.02	0.04	4.78	0.81	1.42	0.14	98.33	1.13
34	34-2: TA Layer St (a)	Pale tephra	St	63.76	0.99	0.82	0.26	15.48	1.60	6.12	2.02	0.09	0.05	1.12	0.36	4.18	0.88	4.54	1.17	1.78	0.57	97.88	1.05
35	35-1, 35-2:TD upper pale tephra 4/9/2000 (a)	Pale tephra	H-S	62.54	1.95	0.93	0.22	14.39	1.29	8.74	1.79	0.29	0.21	0.99	0.56	4.35	0.66	4.29	0.64	1.83	0.38	98.35	0.74
35	35-1: TD upper pale tephra 4/9/2000 (a)	Pale tephra	H-S	62.54	1.95	0.93	0.22	14.39	1.29	8.74	1.79	0.29	0.21	0.99	0.56	4.35	0.66	4.29	0.64	1.83	0.38	98.35	0.74
40	40-2: T25 Layer St, North Markarfljot (a)	Pale tephra	Layer St	63.07	0.91	0.91	0.19	15.69	0.91	6.37	0.84	0.12	0.16	1.19	0.20	4.55	0.50	4.47	0.43	1.56	0.26	97.94	0.87
41	41-2: T21 UPPER PALE TEPHRA	Pale tephra	H-S	63.22	1.66	0.82	0.16	14.42	1.15	8.16	1.29	0.28	0.05	0.90	0.38	4.30	0.61	4.63	0.40	1.94	0.24	98.66	0.29
101	101-2: 16/8/01-1 T1 blue? (a)			64.47	1.92	0.67	0.15	14.92	0.18	7.72	1.38	0.20	0.04	0.88	0.27	3.97	0.46	4.63	0.39	1.80	0.36	99.25	0.33

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
30	30-5: T8, 3/7/2000-1 section by road, St? (b)	Pale tephra	St?	55.98	1.11	1.89	0.15	14.10	0.99	11.19	1.06	0.26	0.04	2.48	0.36	6.04	0.36	3.71	0.55	1.46	0.15	97.09	0.56
72	72-1: 9/7/01-1 T17			57.27	1.07	1.57	0.11	14.03	0.61	10.28	0.34	0.27	0.03	2.12	0.33	5.46	0.36	3.85	0.38	1.44	0.15	96.28	0.68
75	75-4: SLIDE 1: West Kanastadir H4? 9/7/2001			58.87	0.68	1.53	0.19	14.19	1.39	10.11	1.46	0.25	0.05	2.07	0.38	5.44	0.52	3.93	0.45	1.47	0.21	97.86	0.89
84	84-1: 886D (a)			59.19	0.23	1.39	0.04	14.71	0.50	10.27	0.17	0.26	0.04	1.81	0.07	5.33	0.17	3.92	0.02	1.60	0.02	98.47	0.59
84	84-2: 8/8/01-6 H4? TD2, North Thorsmork (a)			58.19	0.75	1.52	0.19	14.16	1.13	10.77	0.98	0.28	0.04	1.94	0.33	5.28	0.26	3.83	0.48	1.60	0.17	97.57	0.80
94	94-2: 1383 COR (a)			58.14	0.65	1.53	0.34	14.64	1.14	9.95	1.07	0.25	0.04	1.85	0.16	5.49	0.34	4.01	0.43	1.55	0.26	97.39	0.60
129	?-?: 10/9/01-1 J H4? Kanastadir reference profile (b)			57.94	0.89	1.50	0.09	13.96	0.72	9.72	0.49	0.25	0.04	2.14	0.27	5.35	0.38	4.18	0.26	1.58	0.22	96.63	0.45

CRITERIA from tephrabase data	Si low	Si up	Ti low	Ti up	Al low	Al up	Fe low	Fe up	Mn low	Mn up	Mg low	Mg up	Ca low	Ca up	Na low	Na up	K low	K up
H-S (b)	60	64.9	0.39	1.22	13.32	16.22	5.18	10.36	0.08	0.31	0.47	1.23	3.15	5	3.54	5.48	1.32	2.51
H-S ©	54.28	59.66	0.8	2.22	12.84	15.07	8.2	12.94	0.18	0.42	0.89	3.04	4.3	6.31	3.49	4.6	1.19	1.64

1207

Dugmore, A.J. and Newton, A.J. 1997 Holocene tephra layers in the Faroe Islands *Frodskaparrit* 45 141-154.

201

Dugmore, A.J., Larsen, G., Newton, A.J., and Sugden, D.E. 1992 Geochemical stability of fine-grained silicic tephra layers in Iceland and Scotland *Journal of Quaternary Science* 7 173-183

1454

Wastegard, S., Bjorck, S., Grauert, M. and Hannon, G.E. 2001 The Mjauvotn tephra and other Holocene tephra horizons from the Faroe Islands: a link between the Icelandic source region, the Nordic Seas, and the European continent *Holocene* 11(1) 101-109.

Electron Microprobe Data (like Hekla-3): means and standard deviations for each sample

(data from Tephrabase for comparison)

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
23	23-2: 27/6St Layer St 27/6/2000-S1A, Gudrun's ref section (a)	Pale layer	Layer St	63.39	0.86	0.92	0.16	14.91	0.44	6.36	0.24	0.19	0.03	1.27	0.07	4.26	0.36	4.10	0.14	1.70	0.32	97.09	1.05
100	100-4: North Thorsmork, Thronga ST (a)	pale tephra	Layer St	63.20	0.81	0.94	0.06	15.32	0.21	6.64	0.45	0.19	0.03	1.36	0.13	4.46	0.23	4.27	0.15	1.64	0.06	98.02	0.55
101	101-2: 16/8/01-1 T1 blue? (a)			64.47	1.92	0.67	0.15	14.92	0.18	7.72	1.38	0.20	0.04	0.88	0.27	3.97	0.46	4.63	0.39	1.80	0.36	99.25	0.33

Electron Microprobe Data (like Hekla-3): means and standard deviations for each sample

(data from Tephrabase for comparison)

Profile	Title sample	Type	Id tephra	SiO_2	s.d.	TiO_2	s.d.	Al_2O_3	s.d.	FeO	s.d.	MnO	s.d.	MgO	s.d.	CaO	s.d.	Na_2O	s.d.	K_2O	s.d.	Total	s.d.
23	23-2: 27/6St Layer St 27/6/2000-S1A, Gudrun's ref section (a)	Pale layer	Layer St	63.39	0.86	0.92	0.16	14.91	0.44	6.36	0.24	0.19	0.03	1.27	0.07	4.26	0.36	4.10	0.14	1.70	0.32	97.09	1.05
100	100-4: North Thorsmork, Thronga ST (a)	pale tephra	Layer St	63.20	0.81	0.94	0.06	15.32	0.21	6.64	0.45	0.19	0.03	1.36	0.13	4.46	0.23	4.27	0.15	1.64	0.06	98.02	0.55
101	101-2: 16/8/01-1 T1 blue? (a)			64.47	1.92	0.67	0.15	14.92	0.18	7.72	1.38	0.20	0.04	0.88	0.27	3.97	0.46	4.63	0.39	1.80	0.36	99.25	0.33

Appendix 3

Sediment data

- List of profiles
- List of diamicts
- Clast size, shape and orientation data
- Cumulative grain size data

NO.	CODE (Date/profile no., book no.)	LOCATION	CONTENT	SAMPLES	NOTES
1	4/10/1999 J/J 2000-1	Botn, Emstrur	Black pumice flood unit with tephras below inc. 2 needle layers	-	Sketch
2	9/6/2000-1 J/J 2000-1	Husa, Solheimassandur 63°N 28' 27'', 019°W 19' 44'' (9 sats)	Probable river deposits	-	learning how to log sediments
3	9/6/2000-2a J/J 2000-1	Husa, Solheimassandur 63°N 28'47''; 019°W 19' 51'' (8 sats)	Clays below sandur deposits. Included leaves and grasses.	-	-
4	9/6/2000-2b J/J 2000-1	Husa, Solheimassandur 63°N 28'47''; 019°W 19' 51'' (8 sats).	Clays below sandur deposits. Included leaves and grasses.	Samples of grasses	-
5	9/6/2000-2c J/J 2000-1	Husa, Solheimassandur 63°N 28'47''; 019°W 19' 51'' (8 sats).	Middle of section and sketch of upper section. Base of sandur flood deposits	-	Details on known flood deposit.
6	12/6/2000-1 J/J 2000-1	Holsa, Solheimassandur 63°N 29' 41''; 019°W 21' 07'' (6 sats).	Upper section of exposed flood deposits. Shallow section.	-	-
7	12/6/2000-2 J/J 2000-1	North Husa gravel pit, Solheimassandur.	Details of structure of flood deposit. Clay-silt drapes.	-	Sketch and description only. Known flood deposit.
8	14/6/2000-1 J/J 2000-1	Smjorgil. 63°N 40' 58''; 019°W 39' 44''	Base hlaup1 sequence. SILK YN?		
9	14/6/2000-2 J/J 2000-1	Smjorgil. 63°N 40' 58''; 019°W 39' 44''	Links with –1. SILK YN?		
10	14/6/2000-3 J/J 2000-1	Smjorgil. 63°N 40' 58''; 019°W 39' 44''	Hlaup 1 and top of hlaup 2 (?). H and SILK YN.		
11	14/6/2000-4 J/J 2000-1	Smjorgil. 63°N 40' 58''; 019°W 39' 44''	Hlaup 1 and part of historic sequence.		
12	15/6/2000-1 J/J 2000-1	Smjorgil. 63°N 41' 02''; 019°W 40' 52'' (5 sats)	Top of hlaup 1 and full historic sequence (?)		
13	15/6/2000-2 J/J 2000-1	Langanes	Pattern around gravel layer.		

			Probably normal outwash. No pale tephras.		
14	15/6/2000-3 J/J 2000-1	Langanes 63°N 40' 40''; 019°W 45' 26'' (9 sats)	Upper section tephras to H/YN. No hlaup 1.		
15	20/6/2000-1 J/J 2000-2	Smjorgil 63°N 40' 37''; 019°W 46' 23'' (7 sats)	Upper diamict		
16	21/6/2000-1 J/J 2000-2	Smjorgil 63°N 40' 58''; 019°W 39' 44''	Hlaup 1. H and SILK YN.		Slumping Directional and shape details measured 22/6/2000. Also noted in J/J 2000-1.
17	22/6/2000-1 J/J 2000-2	Smjorgil 63°N 40' 57''; 019°W 39' 43'' (0.02km upstream from 21-1 356°N)	Hlaup 1. H and SILK YN.		
18	22/6/2000-2 J/J 2000-2	Smjorgil 63°N 41' 00''; 019°W 39' 45'' (5 sats)(0.07km upstream from 21-1 201°N)	Hlaup 1. H and SILK YN.		
19	22/6/2000-3 J/J 2000-2	Smjorgil 63°N 41' 00''; 019°W 39' 47'' (0.08km upstream from 21-1 173°N)	Below Hlaup 1.		
20	23/6/2000-1 J/J 2000-2	Smjorgil 63°N 40' 42''; 019°W 39' 26'' South of 22/6 sections.	-	-	Notes and discussion of 'Hlaup equiv to Ho'
21	23/6/2000-2 J/J 2000-2	Smjorgil 63°N 40' 41''; 019°W 39' 26'' (8 sats).	2 white tephras. No hlaup. Base of eroded tributary channel.		
22	26/6/2000-1 A-F J/J 2000-2	Fauskheidi 63°N 42' 08''; 019°W 32' 46'' (9 sats).	Black pumice with UN/St at top.	Thick black layers sampled.	Shows bedding of thick black tephras/floods.
23	27/6/2000-1A J/J 2000-2	Langanes Gudrun's reference 63°N 40' 39''; 019°W 45' 31'' (4 sats).	Historic tephras to Landnam.		Reworking of layers.
24	27/6/2000-1B J/J 2000-2	Langanes Gudrun's reference 6-7m upstream from 1A	KR920-SILK YN. No flood.		

25	27/6/2000-1C J/J 2000-2	Langanes Gudrun's reference	SILK YN – UN/St.		
26	30/6/2000-1 J/J 2000-3	Smjorgil 63°N 40' 42''; 019°W 39' 26'' South of 22/6 sections.	Upper cobble unit and historic tephras to E1821.		
27	30/6/2000-2 J/J 2000-3	Smjorgil 63°N 40' 42''; 019°W 39' 26'' ~10m S upstream of -1	SILK YN, thin gravel unit (poss Hlaup1) and Ho.		
28	30/6/2000-3 J/J 2000-3	Smjorgil upstream of -1	Cobble unit above Ho continuing?		
29	1/7/2000-1 J/J 2000-3	Langanes Section by road	Sequence below YN.		Logged - not vertical.
30	3/7/2000-1 J/J 2000-3	Langanes Section by road	YN-SILK UN/St		1/7/2000-1 relogged in vertical steps.
31	18/8/2000-1A-B A/S 2000-1	Smjorgil 63°N 41' 00''; 019°W 39' 76'' (7 sats)	Historic sequence to SILK YN inc. hlaup1.	Sampled SILK YN and Ho(1+2)	
32	21/8/2000-1 A/S 2000-1	Langanes Section by road 63°N 41' 05''; 019°W 40' 48''	Historic sequence – Ho. Poss hlaup1 below Ho.	Sampled SILK YN, Ho(1+2), UN, St.	
33	27/8/2000-1 A/S 2000-1	North Husa gravel pit	Sketch structures		
34	4/9/2000-1 S1-S4 A/S 2000-2	W Kanastadir 63°N 42' 49''; 019°W 36' 85'' (5 sats).	Lithic lag, UN, St, thick bkt	SILK UN, St, grey pumice,	
35	5/9/2000-1 continued from 4/9/2000-1 S5-S8 A/S 2000-2	W Kanastadir 63°N 42' 49''; 019°W 36' 85'' (5 sats).	Thick cbkt, 2 pale tephras below and layer G (thick bkt + lithics).	2 pale tephras, layerG	Logged and relationships sketched.
36	6/9/2000-1 (logged 7/9/2000) A/S 2000-2	Drumbabot river bank	Tree growing in gravel. Bkt, clays and pumice-rich upper unit.	• low organic sample, • wood sample • silt tree in	Landslided river bank
37	6/9/2000-2 A/S 2000-2	Drumbabot, 3m east of 6/9/2000-1		sample tree horizontal in clay	Landslided river bank. Not logged – just noted, same sequence as –1 and –3. Radiocarbon date for tree..

38	6/9/2000-3 (logged 7/9/2000) vertical tree 1 A/S 2000-2	Drumbabot 63°N 42' 72''; 020°W 06' 97'' (5 sats).	Tree growing in gravel- root at boundary between gravel and silt. Bkt, clays/silts and pumice-rich upper unit.	Sample of root	
39	7/9/2000 vertical tree 2 A/S 2000-2	Drumbabot	Tree growing in gravel- root at boundary between gravel and silt. Bkt, clays/silts and pumice-rich upper unit.	Sampled sand and silt.	
40	8/9/2000-1 A/S 2000-2	W Kanastadir 63°N 42' 47''; 019°W 37' 56'' (5 sats).	H1947?, lithic-rich Dmm, UN, St, thick blk layer below UN/St, grey pumice?.	UN, St, thick blk layer below UN/St,	
41	8/9/2000-2 A/S 2000-2	W Kanastadir To east of 8/9/2000-1 63°N 42' 48''; 019°W 37' 28'' (5 sats).	thick blk layer below UN/St, grey pumice?, thick bkt, 2 pale ts below.	Thick bkt, pale t (21), pale t (24).	
42	8/9/2000-3 A/S 2000-2	W Kanastadir To east of 8/9/2000-1+2 63°N 42' 49''; 019°W 37' 49'' (6 sats).	2 pale ts, plae ol/blue(blotchy tephra), unit 8 unit,	Unit 8 unit.	
43	9/9/2000-1 A/S 2000-2	Halli island 63°N 41' 86''; 019°W 34' 87'' (4 sats).	Lag and pumice and lithic-rich Dmm, 2 pale ts, thin pale grey t, unit 8 (?), fluvial sands, 2 pale ts, fluvial deposits below.		
44	9/9/2000-2 A/S 2000-2	Near Halli island 63°N 41' 93''; 019°W 34' 02'' (5 sats).	UN, St, thick bkt, PU2 (bkt, some veg mixed into it, bedded, no lithics), lower pumice (bedded bkt, no lithcs).	UN (28), St (29), organic layer below thick bkt, PU2, Lower Pumice,	
45	15/6/2001-1 J/J 2001-1	Smjorgil 63°N 40' 59''; 019°W 39' 45'' (5 sats).			Fabric data. 2 samples collected of hlaup 1.
46	15/6/2001-2 J/J 2001-1	Close to path S of Husadalur. 63°N 41' 28''; 019°W 31' 22'' (6 sats).	UN, St. No flood.	-	
47	16/6/2000-1 J/J 2001-1	Einhyrningur/Bolas tadur	Historic t sequence.		
48	16/6/2000-2	Einhyrningur/Bolas	V870, thick bedded	Thick bkt	Links with –1.

	J/J 2001-1	tadur 15m N along grassy bank from –1 63°N 43' 46''; 019°W 28' 27'' (5 sats).	bkt. Fluvial or flood??		
49	16/6/2000-3 J/J 2001-1	Einhyrningur/Bolas tadur 15m N along grassy bank from –1 63°N 43' 46''; 019°W 28' 27'' (5 sats).	Base of bkt unit –2, gravel layers (suggests fluvial deposition).		Links with –1+2
50	17/6/2000-1 J/J 2001-1	Little gully to W of Mid-Kanastadirgil.	N4, H-S?	Sampled 2 layers inc. upper grey/green layer (b) and yellow/brwn layer above (a).	Schematic log
51	17/6/2000-2 J/J 2001-1	Above Kanastadir campsite	Historic tephras and gravel bench		Schematic log
52	17/6/2000-3 J/J 2001-1	E of Kanastadir campsite	2 pale ts sep'd by one bkt. , lower thin pale ts.		Schematic log
53	18/6/2001-1 J/J 2001-1	E of Innra Kanasatdirgil			See Laura's notes
54	18/6/2001-2 J/J 2001-1	E of Innra Kanasatdirgil, 3.5m downstream from –1. 63°N 42' 46''; 019°W 33' 47'' (7 sats).	Historic sequence to just below V870.		Schematic log (using terms thin, thick, trace) Elevation noted.
55	19/6/2001-1 J/J 2001-1	E of Kanastaðir, **reference profile** in roftbard, 63°N 42' 43''; 019°W 33' 44'' (4 sats).	H1947-St	K1918(2), E1821(3), H1597?(6), cblt(14), fblt(15), cbl/grt(18), E935(26), KR920(27), V870upper(28), V870lower(29), H(34), SILK YN(36), UN(49), Stupper-dark(51), Stlower(52)	Elevation noted (GPS 222m)
56	22/6/2001-1 J/J 2001-1	Fljotsdalsheidi	V870-needle layers and various pale		Schematic log

			layers, base is till.		
57	23/6/2001-1 J/J 2001-1	Einhyrningur **reference profile** 63°N 44' 08''; 019°W 28' 52''	H1947- just below V870.	Samples?	
58	24/6/2001-1 J/J 2001-2	Einhyrningur **reference profile**	Inc 4 pale layers above till at base.	4 pale layers (10-13)	Base of section with eroding upper surface.
59	25/6/2001-1 J/J 2001-2	Fljotsdalur **reference profile.**	E935-below HS/N4. Poss to triplets.	H(9), UN(21), St(23), bl/grt H-S?(31), yellow/olt N4? (33), ol/yt (60), ol/grneedle layer(62), bl/grt(69)	Same as schematic section logged on 22/6/2001. For upper log see Laura's notes.
60	26/6/2001-1 J/J 2001-2	Trollagja, upper valley cataract 63°N 43' 15''; 019°W 30' 00'' (6 sats)	Lag + Bkt and lithic sand above lava surface.	Samples sand	
61	27/6/2001-1 J/J 2001-2	Thoridarstadir 63°N 41' 09''; 019°W 33' 38'' (7 sats)	Needle layer, big thick needles, cpalet, thick blk pumice unit (bedded), lower needle layer, Dmm.	Samples?	
62	28/6/2001-1 J/J 2001-2	Thronga big section	Various Dmms, ts, etc…		Sketch only
63	28/6/2001-2 J/J 2001-2	Smjorgil 63°N 41' 00''; 019°W 39' 47'' (6 sats)	Silicic inclusion (H) in hlaup1.		Fabric data
64	1/7/2001-1 J/J 2001-2	Drumbabot 63°N 42' 43''; 019°W 06' 57'' (5 sats)	Silt, sands around trees		Insect silt sample collection.
65	1/7/2001-2 J/J 2001-2	North Aurasel big river section			Sketches and notes
66	2/7/2001-1 J/J 2001-2	Kanastadir reference profile	H-S, N4, H4?, bkts and needle layer below.		Notes on island, Woe etc…
67	2/7/2001-2 J/J 2001-3	North Aurasel.	Veidivotn flood? Pale ol/yt, lower bkt/lithic bedded unit (fluvial/flood?).	Lower bedded unit.	
68	2/7/2001-3 J/J 2001-3	North Aurasel	Upper layers	Top pale ol/yt (2/7 top pale), base pale ol/yt (2/7 base pale)	
69	4/7/2001-1 J/J 2001-3	W Barkarstadir terraces	V870, H, to KN… etc. No floods.		
70	4/7/2001-2 J/J 2001-3	Fljotshlidskoli, new community	H1510, V870, needle layer, pale		Gap in sequence?

		centre.	layer		Erosion?
71	4/7/2001-3 J/J 2001-3	Fljotshlidarettir	V870-bkts		
72	9/7/2001-1 (pits 0-5) J/J 2001-3	Terraces of Woe Terrace 2 and associated erosional channel	Bl/grt, f y/olt, H4?		
73	9/7/2001-2 J/J 2001-3	Section to E farmer's section, E of island and Gilsa	Poss trace needle layer, Dmm above and below.		Sketch of sequence
74	9/7/2001-3 J/J 2001-3	Halli Island, section to NE of road	Dmm, fbl/grt(H-S), fy/olt(N4), H4?, Dmm, fol/grt, folt, bedded fs.	fbl/grt(H-S), fy/olt(N4), H4?upper,	
75	9/7/2001-4 J/J 2001-3	W Kanastadir	Unit 8-triplets	H4?, Unit 8, needle (4), triplets(21,22, 25).	Schematic log
76	10/7/2001-1 J/J 2001-3	Drumbabot upper section	V870?, H?, silt below trees? Inc. fluvial deposition?	V870?	
77	7/8/2001-1 A/S 2001-1	N. Thorsmork Top historic section, 'big hill' 63°N 43' 30''; 019°W 25' 51'' (6 sats)	H1947-just below V870		May inc slope wash, reworked tephra below V870.
78	7/8/2001-2 A/S 2001-1	N. Thorsmork Lower pit, 'big hill' section 63°N 43' 33''; 019°W 25' 51'' (6 sats)	N4?-bl/ol layer below unit 8	Samples?	Schematic only
79	8/8/2001-1 A/S 2001-1	N. Thorsmork Section in gully	Lag, YN	YN	
80	8/8/2001-2 A/S 2001-1	N. Thorsmork Section in gully	Below YN (-1)		
81	8/8/2001-3 A/S 2001-1	N. Thorsmork Section in gully	Lag-H, Dmm, YN	H, Dmm, Dmm-inc, YN(upper), YN(lower, needles), 2 samples layer belowYN	YN inc in hlaup1
82	8/8/2001-4 A/S 2001-1	N. Thorsmork Section in gully 63°N 43' 30''; 019°W 26' 07'' (8 sats)	H1947-YN		Altitude recorded 345m, 3.15pm. Layers above, windblwon material poss plus 2 bkts, 1 white t?
83	8/8/2001-5 A/S 2001-1	N. Thorsmork Headwall of southern channel	Gr/y tephras above lava	A, B ,C, E. H4?	Altitude 321m (9.35pm)
84	8/8/2001-6 A/S 2001-1	N. Thorsmork Headwall of	As above. Poss H4 is banded	D – H4?	Altitude 321m (9.35pm)

		southern channel 63°N 43' 45''; 019°W 28' 04'' (7 sats)	dark/pale/dark grt.		
85	8/8/2001-7 A/S 2001-1	N. Thorsmork On/nr top streamlined bump. 63°N 43' 45''; 019°W 26' 13'' (5 sats)	Inc. H1947 and dark/light/dark grt.		Altitude 332m (9.30pm)
86	9/8/2001-1 A/S 2001-1	N. Thorsmork Section above big flood channel, gully on N side. 63°N 44' 15''; 019°W 23' 51'' (8 sats)	Lag with sequence inc pale layers below, didn't understand sequence.	10/11 (pale ts),	
87	9/8/2001-2 A/S 2001-1	N. Thorsmork Section above big flood channel, gully on N side. Above –1. 63°N 44' 15''; 019°W 23' 51'' (8 sats)	Pale yellow t, and pale layer as in –1.		
88	9/8/2001-3 A/S 2001-1	N. Thorsmork Section above big flood channel, gully on N side. Above –1+2. 63°N 44' 15''; 019°W 23' 51'' (8 sats)	pale layer as in –2.	(2) pale layer as in –2.	
89	12/8/2001-1 A-E A/S 2001-1	N. Thorsmork Upper part Markarfljot canyon 63°N 43' 44''; 019°W 27' 09'' (6 sats)	Lag, trace pale t1, E935, KR920, V870, trace pale t2, pale t(H?/Y?) - lava	Trace pale t1+2, pale t(H/Y?)	GPS elevation 305m.
90	12/8/2001-2 A/S 2001-1	N. Thorsmork Upper part Markarfljot canyon	Bedded bkt and lithics above sequence as –1? Fluvial /flood?	Bedded bkt and lithics above sequence as –1?	
91	12/8/2001-3 A/S 2001-1	N. Thorsmork Repeat of pit on 'big hill' 7/8/2001-2. 63°N 43' 33''; 019°W 25' 52'' (6 sats)	H – just below YN.	H, YN,	GPS elevation 350m. No hlaup1.
92	12/8/2001-4 A/S 2001-1	N. Thorsmork. Big hill. Re-logging lower pit of 7/8/2001-2 measured profile. 63°N 43' 33'';	T1/1 – needle layers and ol/bl layers. Ol/yts at base, Dmm at base.	T1/1, samples??? Dmm (poss unit 8) matrix, Ol/yts at base (A,	GPS elevation top of base Dmm 325m.

		019°W 25' 50'' (5 sats)		B), Base Dmm matrix.	
93	13/8/2001-2 A/S 2001-1	N. Thorsmork. See notebook for location 63°N 43' 54''; 019°W 23' 35'' (7 sats)	Dmm, cobbles at base	C gr/brwnt?	
94	13/8/2001-3 A/S 2001-1	N. Thorsmork. Section nr freshwater path 63°N 44' 04''; 019°W 25' 15'' (8 sats)	Lag, pale ts, bedded grt(H4?), >1.52m bedded Dmm (bkt and lithics)	H4? Sampled, bedded Dmm sampled.	Altitude 385m (8.45pm), GPS elevation 408m.
95	14/8/2001-1 A/S 2001-1	N. Thorsmork. Section at top of gorge – see aerial photos. 63°N 43' 26''; 019°W 28' 01'' (7 sats)	Bedded bkt, drk gr/blt, c gr/blt, lava.	drk gr/blt (10), c gr/blt (11)	Altitude 290m (1.50pm), GPS elevation 278m.
96	14/8/2001-2 A/S 2001-1	N. Thorsmork. Section at top of gorge – east of –1. 63°N 43' 20''; 019°W 28' 05'' (5 sats)	Bedded drk/lgh g t., cbkt, lava.	Bedded drk/lgh g t., cgrt, cbkt,	GPS elevation 278m.
97	14/8/2001-3 A/S 2001-1	N. Thorsmork. Section in path by Ljosa bridge. 63°N 42' 48''; 019°W 29' 14'' (6 sats)	H1947-Dmm.		Altitude 258m (7.55pm), GPS elevation 248m.
98	15/8/2001-1 A/S 2001-1	N. Thorsmork. Ljosa hill (mid-valley). 63°N 43' 10''; 019°W 27' 51'' (6 sats)	Unit 8? And tephras.	Unit 8, pale ol/yt.	GPS elevation 322m
99	15/8/2001-2 A-F A/S 2001-1	N. Thorsmork. W side Ljosa hill	Lag, cbl/grt, pale ol/yt, pale bl/grt.	pale ol/yt (11), pale bl/grt (13).	
100	15/8/2001-3 A-C A/S 2001-1	Terrace at Thronga mouth. 63°N 42' 14''; 019°W 30' 34''	H, Hlaup1, YN, UN, St.	H, YN, UN, St.	Altitude 225m (8.10pm)
101	16/8/2001-1 A/S 2001-1	Thronga river section.	UN, St, Dmm/gravel, Pale yt, Dmm, bkts, Dmm.		
102	22/8/2001-1 A/S 2001-2	Njalsbud Landeyjar.	As Drumbabot, silts, thick t/lithic unit, fluvially reworked tephras	A-G, tephras possibly reworked.	
103	24/8/2001-1	Entujokull	H1947, K1918,		In lee of moraine

	A/S 2001-2	foreland. ENT1. 2.3km from hut. 27 58 06 66E 70 69 887N (UTM-m)	gravel at base.		2. In channel.
104	24/8/2001-2 A/S 2001-2	Entujokull foreland. ENT2 27 58 06 06E 70 69 710N (UTM-m)	H1947, K1918, gravel at base.		Hollow in top of moraine 2 ridge. ~433m (GPS elevation)
105	24/8/2001-3 A/S 2001-2	Entujokull foreland. ENT 5 27 58 08 28E 70 69 990N (UTM-m)	Reworked bkt, gravel		Hollow behind moraine 449m GpS elevation
106	24/8/2001-4 A/S 2001-2	Entujokull foreland. ENT 9 27 58 10 63E 70 69 934N (UTM-m)	H1947, K1918, gravels		On top of moraine … 449m GPS elevation
107	24/8/2001-5 A/S 2001-2	Entujökull foreland. ~ENT 10 27 58 10 92E 70 69 910N (UTM-m)	H1947, K1918?, gravels		At edge channel by moraine. GPS elevation 434m
108	25/8/2001-1 A/S 2001-2	Entujökull foreland. ENT 12 27 58 07 49E 70 70 162N (UTM-m)	Bedded tephras and gravels, lag.		In front of moraine, flat flood deposit, above channels. GPS elevation 440m
109	25/8/2001-2 A/S 2001-2	Entujökull foreland. ENT 14	Mixed gravel, bkt and lithics, bedded.		Pit in channel in front of moraine. Like smaller version of Skogassandur.
110	26/8/2001-1 A/S 2001-2	Entujökull foreland. ENT 33. 27 58 02 19E 70 70 631N (UTM-m)	H1947, K1918, H1597?, H1510?,	A-N	Big pit. GPS elevation 364m
111	27/8/2001-1 A/S 2001-2	Entujökull foreland. Kettles by esker.	H1947, reworked tephra, gravels.		
112	27/8/2001-2 A/S 2001-2	Entujökull foreland. Ridge 3 ENT 35. 27 58 1021E 70 69 851N (UTM-m)	f-c bkt, cobbles at base.		450m GPS elevation
113	28/8/2001-1	Botn.	Flood with finely		Top 460m.

	A/S 2001-2	BOTN1. 27 58 0361E 70 71 757N (UTM-m)	laminated lake deposits below.		Contact between flood and laminated sediments 437m.
114	28/8/2001-2 A/S 2001-2	Botn, top of deposit in same channel as BOTN1. BOTN2. 27 58 0476E 70 71 748N (UTM-m)	Lag, bkt, bedded pumice and lithics. Inc. pale silt/tephra inclusion.	A, B, pale inc.	452m GPS elevation.
115	28/8/2001-1 A/S 2001-2	Botn. 7:30 site.	~28m blk pumice (flood), needle layer, various blk tephras, gravel, modern grass.	A-D	14C date – modern. Reworking of material???
116	29/8/2001-1A,B A/S 2001-2	Entujökull foreland. ENT 43. By bridge. 27 58 0850E 70 70 705N (UTM-m)	Bedded grey tephras, grainey layer dark at base (not St), cobbles at base.	Upper mixed layer (flood?), 1A-C (bedded grey layer), 2 (grainey layer).	376m GPS elevation.
117	2/9/2001-1 A/S 2001-2	Markarfljót island. N side. KEYJ24 27 57 0056E 70 64 321N (UTM-m)	H4?, unit 8 (tephra), pale layers below, H-S, N4, Dmm above erosional unconformity, upper lag.	H4?, unit 8 as tephra and as flood, H-S, N4, Dmm above.	Unit 8 thins.
118	5/9/2001-1 A/S 2001-3	Entujökull foreland. Pit by path leading up to 2nd lava plateau. ENT 78. 27 57 9697E 70 70 809N (UTM-m)	Cbkt, various tephras (none identified). Reworked and cross bedded layers near base.	A-G	GPS elevation 349m. Altitude 360m (time?)
119	5/9/2001-2 A/S 2001-3	Entujökull foreland. Nr walking path up to lava2. 27 57 9414E 70 70 991N (UTM-m)	H1947, c drk/blkt, pale grt, gravel at base.	A-E	Altitude base lava 418m (5.40pm), Alt. Top lava 425m (5.30pm). Location, relation to (moraine) ridges and lava see sketches in notebk.
120	6/9/2001-1 A/S 2001-3	Entujökull foreland. Pit on 2nd lava surface. 27 57 9174E 70 70 952N (UTM-m)	Lag inc. H1947, cdrkts, grt inc. red grains, cbkt and lithics – gravel at base.	A-D	See book for sketch of location. GPS elevation 411m. Altitude 422m (time?)
121	6/9/2001-4	Entujökull	H1947, cblkt/drkt,	A-G	406m GPS

	A/S 2001-3	foreland. Pit on outside last moraine ridge. 27 57 8562E 70 70 527N (UTM-m)	fgrt, cbl/grt, gravel at base (flood/outwash?)		elevation.
122	7/9/2001-1 A/S 2001-3	Entujökull foreland. Pit on E hillside beyond foreland. 27 57 8603E 70 69 938N (UTM-m)	Dug to water table. Fdrkts, drk brwn t, fyt, cbl/grt, 'grainey layer', reworked base, fbl/grt, bedded drk brwn cbkt an lithics-gravel at base.	A-M	GPS elevation 448m.
123	7/9/2001-2 A/S 2001-3	Entujökull foreland. By path on N side gorge (way home). 63 45 21N, 019 21 39W (6 sats).	H1947, K1918?, cblkt, cbrwn/grt, cblkt, fdrkgrt, Dmm (reworked slope material?).	A-E, Dmm matrix sampled.	
124	9/9/2001-1 A/S 2001-3	Terraces E of Einhyrningur. 27 57 6329E 70 68 339N (UTM-m)	Lag, vcbkt no lithics, blotchy t (H-S), pale ol/yt (N4?), bedded grt with trace paleyt base (H4?), 2xunit 8 Dmm? – unit 8 and 'inconvenient' layers, fbl/grt.	B-I, J1-3 (H4?), K (N4?), L (drkt H-S), M (palet H-S), N&A (uper vcbkt).	GPS elevation 323m
125	9/9/2001-2 A/S 2001-3	Terraces E of Einhyrningur. 27 57 6457E 70 68 397N (UTM-m)	'unit 8' – H4?	A-C	GPS elevation 324m
126	9/9/2001-3A A/S 2001-3	Terraces E of Einhyrningur. 27 57 6526E 70 68 400N (UTM-m)	Lag, Dmm (equiv to lags on terrace tops nr gorge), trace palet, bedded cbkt, H-S, N4.	A-C	GpS elevation 234m (?)
127	9/9/2001-3B A/S 2001-3 (below 3A).	Terraces E of Einhyrningur. 27 57 6526E 70 68 400N (UTM-m)	N4, H4? inc pale base, poss gap, no unit 8, bedded grt.	A-I	GPS no flood: 27 57 6527E 70 68 406N (328m GPS elevation).
128	9/9/2001-4 A/S 2001-3	Terraces E of Einhyrningur. 27 57 6468E 70 68 358N (UTM-m)	Lag inc pale pumice, Dmm, Dmm, intermittent fgrt, bedded grt	A-G. G (lag inc pale pumice)	GPS elevation 311m. May show unit 8(s)
129	10/9/2001-1 A/S 2001-3	Kanastadir reference cont'd from June 2001. 27 57 6468E 70 68 358N (UTM-m)	St, 2 thick blkts, bedded grt, H-S, N4, poss H4, bedded grt.	A-O	

130	11/9/2001-1 A/S 2001-3, equiv to 9/9-3C above 3A.	Terraces E of Einhyrningur. 27 57 6526E 70 68 400N (UTM-m)	St and layers either side (from top of terrace)	A-G	Disturbed upper layers, see sketch
131	11/9/2001-2 A/S 2001-3, equiv to 9/9-3C above 3A.	Terraces E of Einhyrningur. 27 57 6526E 70 68 400N (UTM-m)	Reworked St, St, thick blk t, Dm (same as top of 3A).	A,B	
132	11/9/2001-3A A/S 2001-3	SW of E Einhyrningur terraces by track to gorge. Log below thick bedded bkt, inc lithics. 27 57 6036E 70 68 238N (UTM-m)	329cm bedded bkt and lithics, 'blotchy t' H-S?, pol/yt (N4?).	A-E	See sketch
133	11/9/2001-3B, below 3A A/S 2001-3	SW of E Einhyrningur terraces by track to gorge. Log below thick bedded bkt, inc lithics. 7m upstream of 3A. 27 57 6036E 70 68 238N (UTM-m)	Pol/yt (N4?, as in 3A), H4?, breccia? at base.	F-H	
134	11/9/2001-3C, above 3A A/S 2001-3	SW of E Einhyrningur terraces by track to gorge. 27 57 6036E 70 68 238N (UTM-m)	Reworked bkt and soil layers, cbkt inc pale needles at base bedded unit.	I	
135	11/9/2001-3D, above 3C A/S 2001-3	SW of E Einhyrningur terraces by track to gorge. 27 57 6036E 70 68 238N (UTM-m)	Pale ol/y needle layer, pale ol/yt with pale pumice, grainey layer (St?), bedded cbkt, pale/y needle layer…	J-N	Can match top 3 layers in C with D
136	11/9/2001-3E, above 3D A/S 2001-3	SW of E Einhyrningur terraces by track to gorge. 27 57 6036E 70 68 238N (UTM-m)	Pale ol/yt (YN?), drkts..	O-T	See sketch, vertical layers, layers tipped 90o from horizontal. Frozen block, reworked by flood?? Logged right to left, may be other way. Folding and deformation of layers below upper flood.
137	11/9/2001-3F, top of	SW of E Einhyrningur	Folded and disturbed layers at	V, W1+2, X, Y, Z.	Unclear which are younger or

	terrace A/S 2001-3	terraces by track to gorge. 27 57 6036E 70 68 238N (UTM-m)	top of terrace. See sketch. Pale ol/yt, bl/grt, St.		older tephras. See sketch. Distances not logged.
138	12/9/2001-1 A/S 2001-4	Fauskheidi, terraces of Woe. Lower terrace. 27 57 2112E 70 65 022N (UTM-m)	Dmm, Un, St, H-S, N4, thin gravle layer, bedded cbkt.	A-L	GPS elevation 222m
139	12/9/2001-2 A/S 2001-4	Fauskheidi, terraces of Woe. Higher terrace. 27 57 2017E 70 65 056N (UTM-m)	Lag, fol/grt, fol/grt.	A, B.	GPS elevation 252m. Old tephras very hard
140	12/9/2001-3 A/S 2001-4	Fauskheidi, terraces of Woe. Higher terrace, stream-cut section. 27 57 1949E 70 65 025N (UTM-m)	2-3m deep bedded 'flood' deposit Dmm, cu, bedding in ower fines. Same seq below –2. F ol/grt, gr/blt,	A-C	Very hard. A inc compressed leaves in organic-rich layer. GPS elevation at base 231m.
141	12/9/2001-4 A/S 2001-4	Fauskheidi, terraces of Woe. Section looked at J/J 2000. 27 57 1847E 70 64 846N (UTM-m)	Dmm, UN, St, fgrt, needle layer, thick cbkt, fblt, fol/grt.	A-D	GPS elevation 226m. Logged down to St. Sketched below.
142	12/9/2001-5 A/S 2001-4	Fauskheidi, terraces of Woe. Elsa and Gudrun's section in big channel through terraces. 63 42 31N 019 32 07W (7 sats)			GPS elevation 242m. Sketches of flood sequences and intercalated tephras.
143	13/9/2001-1 A/S 2001-4	W Kanastadir flood section. 27 56 8023E 70 65 421N		Samples of poss oldest flood A and B.	Sketches of sequence below triplets to bedrock. GPS elevation 175m.
144	13/9/2001-2 A/S 2001-4	W Kanastadir flood section. E of –1. 27 56 7956E 70 65 401N	Lag, Dmm, UN, St, light grt, needle layer, cbkt, cbkt+lithics, H-S, N4, H4?, 2xunit 8, light grt, pale ol/grt, triplet.	A-H	GPS elevation 162m.
145	13/9/2001-3 A/S 2001-4	Markarfljot island. W section on island. 63 41 56N	Dmm below unit 8. bedded cbkt, poss olt, f pale yt, blk diamict.	A	GPS elevation 192m

		019 35 01W (5 sats).			
146	18/7/02-1 J 2002-1	Lambafellsheidi 63 57 971N 019 63 139W	Historic tephras to Layer H No V870	Layer H for radiocarbon analyses. Peat samples - 3	
147	18/702-2 J 2002-1	Drumbabot 63 70 470N 020 110 58W	Trees	Tree samples for radiocarbon analyses	Sketches
148	18/7/02-2 J 2002-1	Drumbabot 63 713 20N 020 110 954W	Trees	Tree samples for radiocarbon analyses	Sketches
149	18/7/02-4 J 2002-1	Drumbabot 63 71 31366N 020 120 40W	Soil above flood	Tephras 1-5	Measured sketch
150	19/7/02-1 and 20/7/02-1 J 2002-1	Botn 1 63 76 537N 019 38 228W	10m thick black tephra rich flood unit and tephras below inc. 1 needle layer	Tephras 1-5	
151	19/7/02-2 and 20/7/02-2 J 2002-1	Botn 2 63 76 342N 019 38340W	Bedded diamict flood and tephras below	Tephras 1-3	Clast orientation
152	21/7/02-1 J 2002-1	Fljotsdalsheidi	Historic tephras down to 2 black tephras below YN	YN, H, V870I and II, KR920, E935, H1947	
153	22/7/02-1 J 2002-1	Top of Klappir 63 700 71N 019 53128W	Historic tephras, gravel at base		
154	22/7/02-2	Top of Klappir lee side 63 700 63N 019 532 90W	Historic aged tephras and breccia base		Sketch only
155	22/7/02-3 J 2002-1	Fauskheidi lava downstream form Trollagja 63 70091N 019 52600W	Historical tephras and lava		
156	23/7/02-1 J 2002-1	Trollagja gravel pit	Flood units with pockets of tephra	Samples of tephra	Clast orientation. Measured sketches
157	23/7/02-2 J 2002-1	Trollagja gravel pit	Flood units with pockets of tephra	Samples of tephra	Measured sketches
158	23/7/02-3 J 2002-1	Trollagja gravel pit	Flood units with pockets of tephra	Samples of tephra	Measured sketches
159	23/7/02-4 J 2002-1	Trollagja gravel pit	Flood units with pockets of tephra	Samples of tephra	Measured sketches
160	26/7/02-1 J 2002-1	South of Markarfljót bridge 63 77 306N 019 39 767W	Diamict with tephra above	Tephras A and B	
161	26/7/02-2 J 2002-1	South of Markarfljót bridge	Diamict with tephra above	Tephra C	

		63 77 311N 019 298 16W			
162	26/7/02-3 J 2002-1	Opposite Entujökull foreland 63 765 13N 019 42 555W	Pale tephras below thick soils	Tephras A-D	
163	27/7/02-1A J 2002-2	Einhyrningur Road Section 63 74 757N 019 46813W	Historical to SILK YN	E935, V870I and II, YN (x2)	
164	27/7/02-1B J 2002-2	Einhyrningur Road Section 63 74 757N 019 46813W	YN – UN/N4?	UN?, drkgrt, needle layer	
165	27/7/02-2 J 2002-2	Above Einhyrningur Road 63 747 08N 019 467 20W	Historical to SILK YN		
166	27/702-1C J 2002-2	Einhyrningur Road Section 63 74 757N 019 46813W	Yellow/olive tephra to olive/yellow tephra	Tephra I	
167	27/7/02-1D J 2002-2	Einhyrningur Road Section 63 74 757N 019 46813W	Thick coarse black tephra below 1C	J	
168	27/7/02-4 J 2002-2	Einhyrningur Road Section North end		A,B,C	
169	27/7/02-3 J 2002-2	Einhyrningur Road Section North end		Ax2	
170	28/7/02-1 J 2002-2	Krossarjokull foreland	Historical to V870	Tephras A-D	Same as Casely's (2000) Krossarjokull pit to check stratigraphy
171	8/8/02-1 J 2002-2	Seljalandsa reference	H1947 to black tephras below V870		Possible Vestmanneyjar tephras?

Diamict Units

Profile	Location	flood facies name	Flood Facies?	Flood unit where?	Location 'flood' in strat	Description
10	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	homogeneous, blk t, some red grains, lithics up to 3cm SA/SR
10	Smjorgil	3	Cobble layer below YN	Bet YN/UN	Below YN + 1 bkt	clasts up to 20cm, clast supported
12	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	Blk t matrix, no orting or grading, no bedding sturctures, clasts 1-5cm
14	Gudrun's ref	3	Cobble layer below YN	Bet YN/UN	Below YN + 1 bkt	Gravel /cobble layer at base, with horizontally bedded cbkt above
15	Smjorgil	LOCAL. KR920	Upper diamict + KR920 flood??	Above V870	Above V870?	Bedded, lower cross-bedded fine-md gravel, diamict above, homogeneous, matrix-supported, ..upper bedded, some clast supported
16	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	Initially appears massive, fine clay laminations, sorted granules crossbedding, calsts up to 15cm, matrix fs-granules
16	Smjorgil	3	Cobble layer below YN	Bet YN/UN	Below YN + 1 bkt +cbkt/gravel layer	Clast SA-SR 5-10cm, matrix supported , massive
17	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	Massive gravel with cobbles, orientated clasts, lithics up to 10cm, matrix fs-1mm, no structures
17	Smjorgil	3	Cobble layer below YN	Bet YN/UN	Below YN + 1 bkt +cbkt/gravel layer	Massive matrix supported cobble/gravel, matrix dark brwon, cobbles up to 13cm, no sorting
17	Smjorgil	LOCAL	Upper diamict: LOCAL	Above YN	Above H + 1 bkt	Bedded, granular .. Probably fluvial
22	Fauskheidi terraces to W	NOT FLOOD	No	No		
23	Gudrun's ref section	NOT FLOOD	No	No		
24	Gudrun's ref section	NOT FLOOD	No	No		
25	Gudrun's ref section	NOT FLOOD	No	No		
26	Smjorgil	LOCAL	Upper diamict: LOCAL	Above YN	Above H and 1bkt, below ~4 bkt below V870	Bedded lower, vcs, then cobblelayer, matrix supported lithics up to 25cm, pockets sorted material
27	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below 1bkt and H	Gravel unit, lithics up to 5cm, matrix vcs, some clasts up to 20cm.
28	Smjorgil	LOCAL	Upper diamict:LOCAL	Above YN	Above H and 1bkt, below ~3 bkt below V870	Bedded, Cobble unit at top, 5cm - fs, Cobbles up to 15cm.
30	Section by road	2: SMJORGIL	Hlaup 1	Above YN	Above YN	Matrix-supported gravels with surficial lag.
30	Section by road	3	Black unit bet YN / UN	Bet YN/UN	Below YN + 2 bkts	Bedded, cross bedding, maybe fluvial
30	Section by road	3 OR LOCAL	Another blk unit YN/UN	Bet YN/UN	Above UN + 2bkts	Gravel, fu matrix, lithics 1-3cm, some 6cm.
31	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	Massive. Clay laminations at base and top, lithics max 8cm, cs-1cm matirx
32	Section by road	NOT FLOOD	No	No		
34	West Kanastadir	3	Lag above UN	Above UN	Above UN + 3 bkts	Cobbles up to 10c, small lithics, matrix fs-silt SR/A
40	West Kanastadir	3 OR LOCAL	Pebbly unit, above UN	Above UN	Above UN + 2 drkts, H1947 above	Pebbly with silt matrix, drk brwn, massive. Clasts up to 10cm.
40	West Kanastadir	4	Black unit below UN	Bet UN/H-S	Directly below St	Bedded cbkt. One bed contains small lithics. Dark grey silt layers. Maybe airfall.
41	West Kanastadir	5	Black unit below UN even more	Bet UN/H-S	Above H-S +5bkts	Bedded cbkt. Two lowest beds contains small lithics, seperated by thin aeolian silt layers. Dark silt layers. Maybe airfall.
42	West Kanastadir	8: BEETLE	Beetle main	Below H4	Below H4 plus 2 bkts	V hard, bk/brwn, cbkt and lithic rich. Massive mainly. Clasts 3mm-3cm. Matrix inc. bkt, cbkt vesicular, silt.
43	Halli Island	5	Diamict above H-S	Above H-S	Above H-S +5drkts	Lag with clasts up to 20cm. Deposit below cbkt-rich gravel inc. bk c vesicular tehra, soome lithics. Drk brown silty matrix, Massive
43	Halli Island	8: BEETLE	Diamict below H4	Below H4	Below H4 + 2? Drkts?	drk brwn matrix supported dm. Clasts up to 3.5cm - 5mm. Matrix mostly bkt 1-3mm, basalt and other lithics. Crudely bedded with dark banding. Fu .. Base clasts up to 10cm. Fine upper layers. Beneath there is 1.5cm fluvial bk sands inc bkt and lithics up to 3mm. Beneath various fluvail lthic-rich sands and granule layers with narrow <5mm orange silt layers seperating inc. trough cross-bedding and clay drapes. May be same unit
44	E of Halli Island (farmers section)	4	Black unit below UN	Bet UN/H-S	Unclear, 0-4 drk layers below St (mottled)	Bedded upper layers alternating bkt and mottled mix clays/silts/bkt. Main unit bedded matrix bkt up to 5mm. No sturctures. Much clay and 'shiny red inclusions'. Very hard. No lithics. Very mottled / mixed.
45	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	
46	S of Husadalur	NOT FLOOD	No	No		
47	Einhyrningsflatir	NOT FLOOD	No	No		
48	Einhyrningsflatir	LOCAL	Thick bedded bkt below V870:LOCAL	Above YN	Below V870 and 2bkts`	Bedded bkt, inc . Fs lithic grains and silt drapes. Upper layers show more bedding, Base 4cm gravel up to 1cm inc bkt and lithics.
49	Einhyrningsflatir	LOCAL	Thick bedded bkt below V870:LOCAL	Above YN	Below V870 and 2bkts`	Base of deposit. Bedded with gravel up to 0.8cm/1cm, silts (grey and orange).
50	W of Mid Kanastadirgil	NOT FLOOD	No	No		
52	E of Kanastadir campsite	NOT FLOOD	No	No		
54	E of Innra Kanastadirgil	NOT FLOOD	No	No		
55	Kanastadir reference	NOT FLOOD	No	No		
57	Einhyrningur	NOT FLOOD	No	No		
58	Einhyrningur	NOT FLOOD	No	No		

Profile	Location	flood facies name	Flood Facies?	Flood unit where?	Location 'flood' in strat	Description
59	Fljotsdalsheidi	NOT FLOOD	No	No		
60	Trollagja, upper cataract	2: SMJORGIL	Lag and sand	Unsure	?	Fine black t contains fine sand lithics. Massive. Lag above gravel - cobble VA-SR. Max 40-50cm. Varied geology, probably subject to frost shattering
61	Thoridrarstadir, Thorsmork	4	Bedded bkt below UN/St	Bet UN/H-S	Directly below St	f-cbkt, bedded inc mixed grains in c layers esp at top. Large v vesicular drk brwn / black t (pumice?), upper half more mixed. Lower half 5 layers sorted.
61	Thoridrarstadir, Thorsmork	6	Dmm below HS/N4	Bet N4/H4	Below N4 + 1 bkt?	Cbkt rich Dmm inc. clasts >10cm-fs SR/SA/A.
62	Thronga	NOT FLOOD	.. See logged sections	No		
63	Smjorgil	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	Silciic inclusion in deposit
64	Drumbabot	2: SMJORGIL	Tree flood	Unsure	?	Bedded cbkt inc fs-0.8cm, olive brown silt at base, lense of fs, fbkt at base. SILK pumice in surface lag
65.5	Kanastadir river section	8: BEETLE	Beetle main	Below H4	Below H4 and 2 bkts	at base .. No details
66	Kanastadir reference	NOT FLOOD	No	No		
-	Halli Island	5	Dmm (=KN?) above H-S	Bet UN/H-S	Above H-S and 5 bkts	Dmm
-	Halli Island	3	Lag above UN	Above UN	Above Un and 7bkts	Lag with clasts up to 20cm. Deposit below cbkt-rich gravel inc. bk c vesicular tehra, soome lithics. Drk brown silty matrix, Massive
67	N Aurasel	1: VEIDIVOTN	Veidivctn pumice lag and bedded top unit	Above V870	Maybe above V870	
67	N Aurasel	LOCAL	Grh below V870?: LOCAL	Above YN	Below V870 .. Details?	Grh abve structures sands, silt drapes, foresets and ripple laminations. Cbkt and lithics fs
68	N Aurasel	1: VEIDIVOTN	Veidivctn pumice lag and bedded top unit	Above V870	Above V870?	
69	W Barkarstadir	NOT FLOOD	No	No		
70	Fljotshlidskoli	NOT FLOOD	No	No		
71	Fljotshlidarettir	NOT FLOOD	No	No		
-	Thronga	6	Dmm below N4	Bet N4/H4	Below N4 + 2bkts?	
-	Fljotshlidheidi Ridge 1	NOT FLOOD	-	No		
72	Fauskheidi	8: BEETLE	Beetle main	Below H4	Below H4 + 2 bkts	f/ct with cobbles / gravel mixed Dmm
72	Fauskheidi	5	Above H-S	Above H-S	Above H-S and 1 cbkt	Lag eroded thorugh terrace surface inc big clasts up to 80cm (erosion surface probably)
74	Halli Island	5	Dmm above H-S	Bet UN/H-S	Above H-S and 5bkt	fu Dmm inc t matrix, fs-cs, cobbles up to 25cm. Mostly at base
74	Halli Island	8: BEETLE	Beetle main	Below H4	Below H4 and 2bkts	Dmm, fu, matrix supported, fs-cs, clasts 8cm- <1cm f gravel, two lower units, seperated by v thin soil layers middle crudely bedded fgravels, lower unit x-bedded f gravels
74	Halli Island	9	Gravels below twins	Below H4	Below twins? 2 plae tephras below H4, + 3bkts	Bedded fs-cs/gravel <1cm, 5 coarser layers interspersed with fine layers, cbkt mainly.
75	W Kanastadir	8: BEETLE	Beetle main	Below H4		
76	Drumbabot	2: SMJORGIL	Tree flood	Above YN	Above YN?,	
77	N Thorsmork, big hill	NOT FLOOD	No	No		
79	N Thorsmork gully	2: SMJORGIL	Hlaup 1	Above YN	Above Yn	Lag, drk brwn/bk cs + lithics up to 5cm SR-VA, inc bkt in matrix
80	N Thorsmork gully	NOT FLOOD	No	No		
81	N Thorsmork gully	2: SMJORGIL	Hlaup 1	Above YN	Below H and 2? Bkts, above YN	Mixed Dmm, inc lense fyt (YN) and clasts up to 5cm. Matrix inc drk brwn t 1-2mm, lithic rich
82	N Thorsmork gully	2: SMJORGIL	Hlaup 1	Above YN	Below H and 2? Bkts, above YN	Dmm, clasts up to 6cm. SR matrix silt-cs-granules
83	N Thorsmork headwall of s channel	6?	bkt/lithics above H4??/hekla tephra	Bet N4/H4	above H4? Below N4?	Mixed fs bkt + fs lithics at top profile
84	N Thorsmork headwall of s channel	7 or 8	Beetle scour	Below H4	Below H4 + 2 drkts	Rock scour with 2 drkts + H4 above
84	N Thorsmork headwall of s channel	6?	bkt/lithics above H4??/hekla tephra	Bet N4/H4	Above H4 (or definate hekla layer)+ 2 bkts	fs bkt + lithics at top profile
85	N Thorsmork top streamlined bump	UNSURE	Gravel in t-rich matrix?	Above YN	below historic tephras|? And bedded grt + 2 bkts (id?)	lithics up to 15cm VA. BS clasts 2/3cm SR-R. fbkt matrix fs-cs.
86	N Thorsmork above big channel	LOCAL	Lag on surface: not flood but what?LOCAL	Above YN	Above YN + 5 drkts	Lag up to 4cm, mixed lithics
86	N Thorsmork above big channel	LOCAL	Dmm below YN	Bet YN/UN	Below Yn and 6? Drkts	Mixed f drk brwn t + fs lithics. Clasts up to 20cm+ at base. Up to 30cm WR-VA
87	N Thorsmork above big channel	LOCAL	Lag on surface: not flood but what?	Above V870	Above E1821	Lag up to 4cm, mixed lithics
88	N Thorsmork above big channel	LOCAL	Lag on surface: not flood but what?	Above V870	Above E1821 + K1918 (1bkt)	Lag up to 4cm, mixed lithics
89	N Thorsmork upper part canyon	2: SMJORGIL	Scoured by Hlaup 1, upper t-rich layers maybe	Above YN	Below H + 1/2 bkts	Scour at rock surface + cbkt up to 3cm, bed above with mixed soil. 3mm-silt mainly
90	N Thorsmork upper part canyon	LOCAL	bedded t above K1918?	Above V870	Above K1918??	3.5-4m bedded c-f bkt with fine orange silt drapes and grey clay drapes. H18=947 and 25cm bedded bkt above, inc fs lithics. Upper surface well vegetated
91	N Thorsmork big hill	NOT FLOOD	No	No		
92	N Thorsmork big hill	8: BEETLE	Beetle main	Below H4	Below H4 + 2 bkts	Dmm with lithic clasts up to 21cm. Matrix supported inc blk/brwn vesicular tephra 1cm-fs
93	N Thorsmork above big channel	UNSURE	?	Unsure	Below historic tephras?	Dmm clasts up to 7cm, matrix silt-fs-1cm bkt and small BS lithics. Can't dig thorugh
94	N Thorsmork section ne freshwater path	3?	Dmm below bedded grt	Unsure	below historic tephras|? And bedded grt + 2 bkts (id?)	Crudely bedded Dmm, mostly bkt and lithics 2cm-silt. Clay drapes. Deposit surrounds blocks of lava (>2m) from lava cliff adjacent

Profile Location	flood facies name	Flood Facies?	Flood unit where?	Location 'flood' in strat	Description
95 n Thorsmork at top of gorge	UNSURE	Black sands - historic?	Unsure	Below H1947, above other historic layers?	>>40cm bedded fbkt and lithivcs up to 3mm. Wind blown. Lower contact not erosive
96 n Thorsmork at top of gorge	3	Cbkt with gravel below bedded grt like YN?	Bet YN/UN	Below bedded grt + 2/3? Drkts	cbkt and mixed fs lithics up to 1cm max. Mostly tephra, vesicular. Orangey to base
97 Ljosa	1: VEIDIVOTN?	Dmm below historic layers	Unsure	Below E1821 + 13 drkts|?	Dmm with dark matrix, clasts up to 10cm SR-SA
98 On Ljosa Hill	8: BEETLE	Beetle main	Below H4	Lag above twin + 12 drkts?	Mixed lag with clasts up to 15cm SR-A. Below c brwn/blk silt - ca inc lithics
99 W side Ljosa hill	8: BEETLE	Beetle main	Below H4	Lag above twin + 9 drkts?	Lag up to 3cm. Mostly lithics
100 Thronga mouth	2: SMJORGIL	Hlaup 1	Above YN	Above Yn, below H + 1bkt	Dmm, clasts up to 10cm. Matrix cbkt + lithics. Upper mixed with soil. Erosive and disturbed lower boundary with faulting and folding of tephra layers below
101 Thronga river section	LOCAL?	Dmm below UN/St	Bet UN/H-S	Below UN/St + 5 drkt	no details
101 Thronga river section	5?	Gravel below UN/St and below Dmm	Bet UN/H-S	Below UN/St + 8 drkts + 1 Dmm	Gravel with brwon / orange matrix fs-silt. Clasts up to 10cm. 32 blk bands in lower layer.
101 Thronga river section	6	Dmm below H-s/N4	Bet N4/H4	Below N4 + 1/2 blkts	Dmm. Appears massive but shows layers o c/f material and x-bedding at base. V hard. Clasts up to 10cm. Drk brwn t and fs lithics in matrix, very mixed layers, bedded tephra below.
101 Thronga river section	LOCAL	Dmm below HS/N4 and below Dmm, Beetle??	Below N4	Below N4 + 5/6 at least bkts + bedded Dmm	Dmm. cs-gravel, vfs matrix drk brwown.
102 Njalsbud	UNSURE	Sand like Drumbabot?	Unsure	Below historic layers	bkt up to 1mm. Lithics too. Massive. Lenses finer pale brown silt deformed within unit
103 Entujokull, moraine 2	NOT FLOOD	No	No		
104 Entujokull, top moraine 2	NOT FLOOD	No	No		
105 Entujokull, behind moraine x?	NOT FLOOD	No	No		
106 Entujokull, top of moraine x?	NOT FLOOD	No	No		
107 Entujokull, edge channel by moraine	NOT FLOOD	No	No		
108 Entujokull, front of LIA moraine, plateau	UNSURE	Entujokull E flood	Unsure	?	Bedded tephra and gravel. Lag
109 Entujokull, pit in channel E plateau	UNSURE	Entujokull E flood	Unsure	?	Mixed gravel, bkt, lithics .. Bedded
110 Entujokull, big pit	NOT FLOOD	No	No		
111 Enutjokull, kettles by eskers	NOT FLOOD	No	No		
112 Entujokull, ridge 3	NOT FLOOD	No	No		
113 Botn .. Above lake deposits	UNSURE	Botn flood	Unsure	?	Bkt bedded deposit above finely laminated silts and clays, lake deposits
114 Botn, top of deposit 113	UNSURE	Botn flood	Unsure	?	Lag, bkt, bedded vesicular bkt and litics. Pale silt and tephra inclusions. Elsewhere de-watering pipes with tephras and silts
115 Botn 7:30	2 OR 5 (5)	Botn flood	Above YN?	Above needle layer (chemistry like YN) and 1 drkgrt	Bedded 3? Unit bkt deposit. Erosional lower boundary.
115 Botn 7:30	3 OR 6 (6)	Cobble unit below SILK layer	Below YN?	Below needle layer (chemistry like YN) + 2/3 drkts	Vclasts up to 8cm, VA
116 Entujokull, by bridge	UNSURE	Lag above bedded grt, Hlaup 1?? LOCAL	Above YN	Above bedded grt + 1/2 drkts?	Lag, mixed lithics up to 3cm, frost-shattered in places. Mixed t, soil below
116 Entujokull, by bridge	4	Gravel and cobbles	Bet UN/H-S	Below grained layer + 2bkts?	Probably not flood, large gravel and cobble sin base, cbkt above up to 8mm
117 Halli Island	8: BEETLE	Beetle main	Below H4	Below H4 + 2 bkts	Tephra to east, flood to west. Clasts up to 10cm, cu. Cbkt 3mm-silt
117 Halli Island	5	Dmm above H-S	Bet UN/H-S	Above H-s + 6 bkts	Erosional lower boundary. Little/no bedding. T-rich matrix up to 1.5cm. Dmm drk brwn matrix, clasts up to 6cm, SR/SA, cbkt-rich matrix up to 1cm. Lithic lag, clasts up to 20cm.
118 Entujokull, pit by path to 2nd lava plateau	UNSURE	Bedded cbkt above pale ayers (H/YN?) LOCAL	Above YN	Above pale layers (H/YN?) + 2 drkts	Bedded cbkt/brwnt. Some lithics fs. Dunes?
119 Entujokull nr path to 2nd lava plateau	NOT FLOOD	No	No		
120 Entujokull, w plateau	UNSURE	Lag	Unsure	?	Lag gravel - cs up to 2cm max
121 Entujokull, passed last moraine	NOT FLOOD	No (gravel at base)	No		
122 Entujokull ref outside foreland	NOT FLOOD	No	No		
123 Entujokull, by pth north side gorge	NOT FLOOD	No	No		
124 E Einhyrningur terraces	7: BEETLE UPPER	Beetle upper	Below H4	Below H4 + 2 bkts	Lithics up to 3cm, cs-fgravel inc drk matrix
124 E Einhyrningur terraces	8: BEETLE	Beetle main	Below H4	Below H4 + 2 bkts + beetle upper	Dmm massive, clasts upt o 5cm. Lower layers bedded, cbkt, silt drapes.
124 E Einhyrningur terraces	5	Above H-S deposit cbkt no lithics	Above H-S	Above H-S + 2 drkts	Crudely bedded, no lithics, v vesicular and angular + lag on surface, clasts up to 15cm
125 E Einhyrningur terraces	8: BEETLE	Beetle main	Below H4	Below H4 + 2bkts	Dmm, massive, clasts up to 6cm, matrix inc fbkt, sands. Brown
126 E Einhyrningur terraces	NOT FLOOD	Above H-S deposit cbkt no lithics	Bet UN/H-S	Above H-S + 1 bkt	Bedded cbkt, max 1.5cm, lower bedded with vcbkt at base 3cm. No lithics
126 E Einhyrningur terraces	5	Above H-S even more Dmm	Bet UN/H-S	Above H-S + 4bkts + trace yt	Dark brown Dmm, equivalent to lags on other terraces, clasts up to 11cm, matrix in fbkt f-cs, inclusions of soil
126 E Einhyrningur terraces	4	Lag	Above H-S	Above H-S + 4bkts + trace yt, Dmm + 4 bkts	Lag f gravel up to 1cm
127 E Einhyrningur terraces	NOT FLOOD	No	No		
128 E Einhyrningur terraces	8: BEETLE	Dmm above bedded grt	Unsure	Above bedded grt + 8drkts	Dmm blk, lithics up to 5cm, bkt rich matrix inc. f-cs + f gravel. V hard
128 E Einhyrningur terraces	7: BEETLE UPPER	Dmm above bedded grt	Unsure	Above bedded grt + 8drkts +Dmm	Brown Dmm, t-rich matrix, more f-cs, lithics (more lithics than below), lag on surface up to 20cm + f-c gravel. Inc. pale pumice
129 Kanastadir reference	NOT FLOOD	No	No		

Profile	Location	flood facies name	Flood Facies?	Flood unit where?	Location 'flood' in strat	Description
130	E Einhyrningur terraces	3	Lag	Above St	Above St + 1bkt	Clasts up to 50cm VA-SR, drk brwn t-rich + f-cs lithic rich layer below
130	E Einhyrningur terraces	4	Dmm below St from above St??	Bet UN/H-S	Below St	cbkt layer becomes Dmm in places. Very uneven.
131	E Einhyrningur terraces	5	Dmm above trace pale yt	Bet UN/H-S	Below St + 13 drkts, inc 1 bedded v thick layer, above trace pale yt	Dmm
132	E Einhyrningur terraces	4	Dmm above H-S	Above H-S	Aboe H-S + 12 drkts? Some re-wwrking	Bedded bkt and lithcs
133	E Einhyrningur terraces	8: BEETLE	Beetle	Below H4	Below H4 + 1/2 bkts	Drk brwn Dmm. VVA clasts with t-rich cbkt/f-cs matrix.
134	E Einhyrningur terraces	UNSURE	?	Above H-S	?	Lag on surface, various bedded bkts
135	E Einhyrningur terraces	NOT FLOOD	No	No		
136	E Einhyrningur terraces	2: SMJORGIL	Hlaup 1	Above YN	Directly above YN	Clasts up to 5cm. Bkt rich matrix. Above rip-clast .. Chunks of soil and tephra
138	Fauskheidi	3	Diamict	Above UN	Above Un + 9bkts	Dmm. Matrix f-cs, cbkt rich, gravel up to 3cm. Lag with cobbles up to 35cm
138	Fauskheidi	6	Mixed soil and gravel below N4	Bet N4/H4	Below N4 + 2 bkts	Mixed soil an gravel layer 1cm inc fdrkbrwnt
139	Fauskheidi	8: BEELTE?	Lag	Unsure	Above 2 pale tephras + 8drkts (1 is a distinctive c drk grt)	Lag inc clasts to 25cm SR-SA/A. cdrkgrt mixed with f/c sand, lithics up to few cms.
140	Fauskheidi	8: BEETLE?	Bedded Dmm	Unsure	Above 2 plae tephras + 10 drkts (1 c grt)	Upper bedded layres, lithic and t-rich matrix Dmm.Dark brwn-blk. Lower layers have bedded cdrkts, spererated by tin layers silt
141	Fauskheidi	3	Dmm above UN	Above UN	Above UN + 8 drkts	Lag clasts up to 10cm. Dmm drk brwn below. Clasts up to 3cm. Matrix includes bkt and f-cs lithics
142	Fauskheidi, Gudrun's channel	3	deposit above UN	Above UN	Above UN? + 5drkts?	cbkt bedded, gravelly to NE.. Eroded into by channel with bedded gravel and fines.
142	Fauskheidi, Gudrun's channel	5	Depsoit bet UN / H-S	Bet UN/H-S	Aove H-S + 7 drkts	ckt bedded, inc lithics. Thins out to bkt layer in places. May be normal fluvial activity. Very finely bedded in places
143	W Kanastadir	10	Non-continous old Dmm	Below H4	Below triplets + x bkts	Non-continous gravelly orange Dmm, small lithics
143	W Kanastadir	11	Oldest Dmm	Below H4	Below triplets + x bkts + Dmm + x bkts	Bk/grey Dmm. Very continous. Bkt-rich matrix. R-SA/A clasts up to 50cm. Flood? Till?
144	W Kanastadir	7: BEETLE UPPER	Beetle upper	Below H4	below H4 + 2bkts	gravelly Dmm. Clasts up to 1cm. Black t -rich matirx
144	W Kanastadir	8: BEETLE	Beetle main	Below H4	Below H4 + 2 bkts + Beettle upper	massive Dmm inc clasts up to 6cm. Lans of bkts= and soil. May be bedded at base
144	W Kanastadir	5	Above H-S	Bet UN/H-S	Above H-S + 5bkts	bedded cbkt + lithics up to 2cm. Upper only bedded bkt no lithics
144	W Kanastadir	3	Dmm above UN	Above UN	Above UN + 6 drkts	3 units. 1 upper: drk brwn mixed gravelly soil. Lag clasts upt o 15cm. 2 middle: drk brwn gravelly Dmm, clasts up to 5cm, 3 lower: cobbly Dmm clasts up to 15cm, SA-R. 2 and 3 probably one unit fu.
145	Halli Island	UNSURE	Dmm below Beetle	Below H4	below a plae tephra + 2bkts. Unsure	Clasts up to 50cm. Dark red matrix bkt mixed with soil (Fe)
146	Lambafellsheidi	NOT FLOOD	No	No		
150	Botn	UNSURE	Bedded 'flood'	Unsure	Above 3 pale tephras + 3 bkts	Lithic lag. Bedded tephra. V thick
151	Botn	3 OR 4?	Upper Dmm above pale tephra	Unsure	Above 1 pale tephra + 1drkt	2 Units: 1: Well bedded drk brwn - blk silt - gravel. Large clasts up to 30cm. Horizontal bedding. Ripples.2: below 1, drk brwn dmm. Matrix vfs - gravel. More blk than dmm below. Inc t+ lithics. Clasts up to 10cm. Many around 2cm. Clusters of clasts but mainly massive.
151	Botn	4 OR 5?	Lower Dmm below 1 pale tephra, above 2 others	Unsure	Below plae tephra inc neddles (discontinous), above fluvial layers + f ol/grt (maybe 2) and 1 bl/grt	Dmm. Matrix fs-gravel (1cm). Dark brwn - blk. Clasts up to 25cm. R-VA. Cu
152	Fljotshlidheidi	NOT FLOOD	No	No		
153	Top Klappir hill	UNSURE	Dmm below V870 HLAUP1???	Above YN	Below V870 + 7? Blkts	Dmm. Drk brown - gr. Fu. Matrix inc granules - f silt, mainly t inc . Small lithics. Clasts up to 8cm. SR-A
154	Lee side Klappir	NOT FLOOD	No	No		
155	Fauskheidi lava downstream from Trollagja	NOT FLOOD	No	No		
156-159	Trollagja gravel pit	2: SMJORGIL	Trollagja floods	Unsure	Unsure	Bedded 4 unit flood deposit, with channels, ripples, x-bedding, inclusions of tephra and soil, cbkt mainly. Sample like YN. (4 units: lower bkt uit, Dmm, erosive sands, eroded nto furrther by channel)
160	S Markarfljot bridge	UNSURE	Base gravelly units LOCAL	Above YN	Below H1300 and 5 drkts	cs mainly bkt inc lithics, occasional gravel.
161	S Markarfljot bridge	UNSURE	Base clasts	Below St	Below St?	Clasts up to 8cm at base on rock .. And blk/brwn fs-cs inc t and lithics

Clast size, shape and orientation (Unit 2)

Unit 2 (Smjorgil) Clast Roundness Data

Profile no. 16

VA	4
A	10
SA	14
SR	20
R	2
WR	0
Total	50

Unit 2 (Smjorgil) Clast Size and Shape Data

Profile no. 16

a (longest)	b	c (shortest)	b/a	c/b
5.6	4.0	2.6	0.71	0.65
5.0	3.4	2.5	0.68	0.74
4.8	3.2	2.2	0.67	0.69
4.5	3.5	2.0	0.78	0.57
5.6	3.5	3.2	0.63	0.91
3.5	3.0	2.3	0.86	0.77
4.2	2.8	2.5	0.67	0.89
3.0	1.9	1.7	0.63	0.89
3.6	2.5	1.7	0.69	0.68
5.6	3.1	3.0	0.55	0.97
6.0	3.5	2.3	0.58	0.66
3.2	2.9	2.0	0.91	0.69
6.0	3.0	2.8	0.50	0.93
7.2	5.0	5.0	0.69	1.00
5.1	3.0	1.4	0.59	0.47
4.5	2.3	2.3	0.51	1.00
3.3	2.6	1.8	0.79	0.69
4.3	2.5	1.9	0.58	0.76
3.4	2.8	1.8	0.82	0.64
2.8	2.2	1.4	0.79	0.64
6.4	2.4	2.0	0.38	0.83
4.0	3.5	2.6	0.88	0.74
4.5	3.0	1.3	0.67	0.43
5.0	3.0	2.5	0.60	0.83
5.5	3.5	2.8	0.64	0.80
3.7	3.0	1.1	0.81	0.37
3.7	2.5	1.4	0.68	0.56
4.0	2.8	2.1	0.70	0.75
4.1	3.5	1.3	0.85	0.37
3.0	1.8	0.9	0.60	0.50
2.0	1.3	1.1	0.65	0.85
2.7	0.8	0.7	0.30	0.88

Unit 2 (Smjorgil) Clast Orientation Data

Profile no. 16: Upper left

Strike measured	Strike to grid north (-21.5)	Dip
283	261.5	-8
228	206.5	-10
207	185.5	14
230	208.5	18
299	277.5	6
266	244.5	-16
185	163.5	22
261	239.5	24
289	267.5	-20
216	194.5	-12
317	295.5	-16
225	203.5	-7
252	230.5	21

Profile no. 16: Upper right

Strike measured	Strike to grid north (-21.5)	Dip
183	161.5	2
282	260.5	-20
284	262.5	-4
260	238.5	-28
212	190.5	18
262	240.5	-4
261	239.5	-38
302	280.5	-25
278	256.5	6
256	234.5	2
267	245.5	10
254	232.5	4

Profile no. 16: Lower left

Strike measured	Strike to grid north (-21.5)	Dip
257	235.5	6
278	256.5	-4
272	250.5	-8
241	219.5	4
260	238.5	-2
292	270.5	-2
328	306.5	-6
319	297.5	-14
207	185.5	-6
157	135.5	10
222	200.5	-4
291	269.5	-4
225	203.5	-10

Unit 2 (Smjorgil) Clast Orientation Data

Profile 45

Strike measured	Strike to grid north (-21.5)	Dip
266.0	244.5	-2.0
195.0	173.5	4.0
192.0	170.5	12.0
219.0	197.5	4.0
208.0	186.5	-5.0
212.0	190.5	-6.0
236.0	214.5	-6.0
158.0	136.5	12.0
296.0	274.5	-5.0
223.0	201.5	22.0
242	220.5	36
239	217.5	12
238	216.5	32
240	218.5	-6
257	235.5	-12
216	194.5	**-6**
190	168.5	-8
246	224.5	-3
203	181.5	-7
300	278.5	1
212	190.5	-2
179	157.5	-9
230	208.5	18
296	274.5	-9
296	274.5	-6

Unit 2 (Smjorgil) Clast Orientation Data

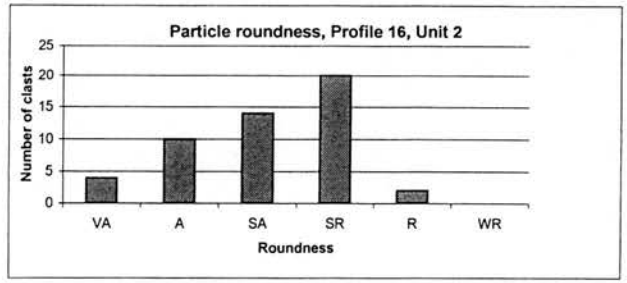
Profile 63: further than north than profile 16

Strike measured	Strike to grid north (-21.5)	Dip
206.0	184.5	-10.0
266.0	244.5	-8.0
244.0	222.5	9.0
330.0	308.5	-14.0
286.0	264.5	-3.0
247.0	225.5	-32.0
250.0	228.5	-12.0
276.0	254.5	-2.0
260.0	238.5	-16.0
240.0	218.5	-38.0
277	255.5	-24
201	179.5	2
292	270.5	-6
286	264.5	38
215	193.5	-2
235	213.5	**-11**
280	258.5	0
271	249.5	32
243	221.5	22
218	196.5	21
260	238.5	13
250	228.5	-6
257	235.5	9
53	31.5	12
259	237.5	-6
270	248.5	-24
268	246.5	-16
218	196.5	-6

Profile no. 16: Lower right

Strike measured	Strike to grid north (-21.5)	Dip
235	213.5	-18
228	206.5	-16
295	273.5	8
292	270.5	-6
211	189.5	-8
212	190.5	2
216	194.5	4
194	172.5	24
246	224.5	-8
210	188.5	4
222	200.5	18
236	214.5	-6

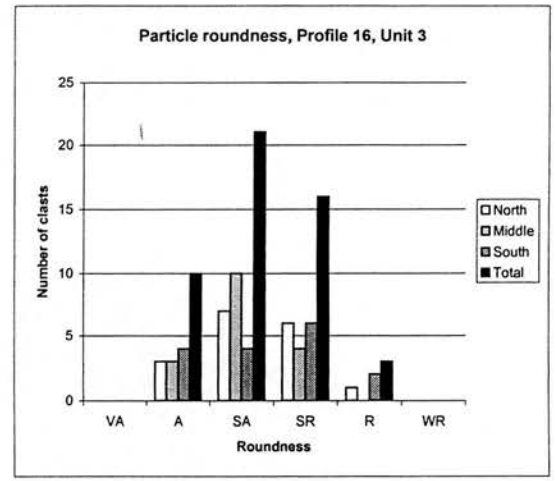
3.3	2.4	2.2	0.73	0.92
2.3	1.9	1.3	0.83	0.68
2.7	2.7	1.1	1.00	0.41
17.0	11.5	7.5	0.68	0.65
4.2	3.6	2.8	0.86	0.78
4.4	2.9	1.7	0.66	0.59
3.9	2.6	2.3	0.67	0.88
2.5	1.9	1.4	0.76	0.74
3.3	2.9	1.8	0.88	0.62
3.0	2.2	1.6	0.73	0.73
3.4	2.6	2.3	0.76	0.88
4.0	3.0	2.3	0.75	0.77
3.6	2.4	2.0	0.67	0.83
4.0	2.4	1.1	0.60	0.46
6.0	2.9	2.5	0.48	0.86
5.1	3.6	2.7	0.71	0.75
7.3	6.2	2.6	0.85	0.42
4.9	3.0	2.7	0.61	0.90



Clast size, shape and orientation (Unit 3)

Unit 3 Clast Roundness Data

Profile no. 16: N, 30cm		Profile no. 16: middle, 30cm		Profile no. 16: s, 30cm		Total	
VA	0	VA	0	VA	0	VA	0
A	3	A	3	A	4	A	10
SA	7	SA	10	SA	4	SA	21
SR	6	SR	4	SR	6	SR	16
R	1	R	0	R	2	R	3
WR	0	WR	0	WR	0	WR	0
Total	17	Total	17	Total	16	Total	50



Unit 3 Clast Size and Shape Data

Profile no. 16: N, 30cm			Profile no. 16: middle, 30cm			Profile no. 16: s, 30cm		
a (longest)	b	(shortest)	a (longest)	b	(shortest)	a (longest)	b	(shortest)
7.0	4.1	2.4	3.4	1.8	1.3	5.3	3.6	2.7
3.5	2.3	1.7	3.2	1.5	1.1	3.0	2.0	1.8
3.7	2.5	1.1	2.6	1.6	0.5	4.5	3.0	1.4
3.1	1.5	1.3	5.6	2.3	1.8	6.2	3.2	1.0
6.5	4.5	2.6	7.2	4.5	1.9	3.6	2.4	1.7
6.2	3.1	2.5	6.0	4.1	1.8	3.4	1.7	0.9
4.3	3.2	1.8	6.5	3.5	2.0	3.1	1.6	1.0
3.4	2.2	1.5	4.4	2.1	1.3	4.7	3.0	2.4
3.0	2.1	1.0	3.1	1.8	1.4	4.2	1.9	1.7
5.6	4.3	1.2	5.1	3.0	2.2	5.3	3.2	2.4
3.5	2.1	1.4	3.3	2.1	1.4	8.0	3.8	2.5
4.8	2.8	1.9	7.0	3.4	1.9	6.1	4.2	1.7
4.7	2.2	0.8	3.0	1.0	0.9	8.2	4.8	1.4
5.0	3.9	2.1	4.5	2.4	1.4	4.5	2.0	1.3
4.6	2.5	1.2	4.0	3.0	1.2	4.3	2.5	1.5
4.8	3.3	1.7	3.2	1.3	0.9	3.8	2.7	1.6
5.0	3.7	2.5	4.0	3.1	2.6			

Unit 3 Clast Orientation Data

Profile no. 16: N, 30cm			Profile no. 16: middle, 30cm			Profile no. 16: s, 30cm		
Strike measured	Strike to grid north	Dip	Strike measured	Strike to grid north	Dip	Strike measured	Strike to grid north	Dip
183	161.5	8	262	240.5	-28	270	248.5	2
182	160.5	-6	272	250.5	4	194	172.5	14
184	162.5	16	216	194.5	10	225	203.5	-18
255	233.5	-10	253	231.5	27	185	163.5	-16
181	159.5	-8	160	138.5	-8	288	266.5	-7
180	158.5	-22	304	282.5	-12	194	172.5	-8
184	162.5	12	200	178.5	11	324	302.5	-5
315	293.5	-4	213	191.5	-6	282	260.5	-8
242	220.5	8	276	254.5	-9	295	273.5	-8
233	211.5	20	248	226.5	10	169	147.5	-7
223	201.5	28	288	266.5	-2	259	237.5	6
215	193.5	-2	230	208.5	-22	310	288.5	-7
218	196.5	-2	288	266.5	-7	320	298.5	20
221	199.5	2	268	246.5	10	288	266.5	6
263	241.5	6	270	248.5	20	212	190.5	18
315	293.5	4	230	208.5	-12	234	212.5	-10
228	206.5	-10	291	269.5	30			

Clast orientation (Trollagjá Gravel Pit and Botn (151))

Trollagjá

Orientation of clasts in Dmm, Unit 3

Strike measured	Strike to grid north (-21.5)	Dip
172	150.5	-12
110	88.5	15
144	122.5	-16
133	111.5	20
168	146.5	18
160	138.5	3
13	-8.5	4
193	171.5	0
37	15.5	16
195	173.5	-30
161	139.5	-24
150	128.5	-3
119	97.5	-12
36	14.5	5
120	98.5	-5
59	37.5	26
204	182.5	13
175	153.5	-23
105	83.5	-24
200	178.5	-7
136	114.5	-3
163	141.5	21
155	133.5	-9
36	14.5	-40
121	99.5	-1
196	174.5	-12
188	166.5	19
116	94.5	-10
127	105.5	-66
120	98.5	-15
162	140.5	-8
170	148.5	-3
86	64.5	-20
55	33.5	13
59	37.5	-33
96	74.5	12
190	168.5	-9
190	168.5	19
12	-9.5	-20
108	86.5	-11
111	89.5	-38
135	113.5	-5
148	126.5	-20
156	134.5	-23
95	73.5	-10
83	61.5	0
35	13.5	-34
82	60.5	3
196	174.5	-37
123	101.5	10

Botn

Orientation of clasts in lower half of Dmm (B)

Strike measured	Strike to grid north (-21.5)	Dip
280	258.5	22
254	232.5	18
215	193.5	22
302	280.5	-26
252	230.5	9
298	276.5	-2
280	258.5	-4
230	208.5	17
269	247.5	-2
274	252.5	24
244	222.5	28
254	232.5	4
210	188.5	12
203	181.5	-4
180	158.5	6
214	192.5	-39
270	248.5	12
226	204.5	-2
216	194.5	17
228	206.5	-18
252	230.5	28
262	240.5	-6
216	194.5	8
254	232.5	4
263	241.5	18
276	254.5	12
208	186.5	14
248	226.5	-4
273	251.5	-4
248	226.5	-18
256	234.5	4
360	338.5	-8
294	272.5	-6
249	227.5	14
218	196.5	14
253	231.5	18
282	260.5	-22
236	214.5	2
330	308.5	18
273	251.5	-8
261	239.5	12
267	245.5	18
250	228.5	-6
239	217.5	-4
236	214.5	10
210	188.5	32
182	160.5	12
261	239.5	-4
248	226.5	28
298	276.5	12

Cumulative grain size analyses: known origin samples

Cumulative grain size analyses

Sample: **Skogasandur main channel 21/8/01-5**

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	25.6	25.6	4.6	95.4
8mm	-3	13.5	39.1	7.0	93.0
4mm	-2	94.0	133.1	23.8	76.2
2mm	-1	153.5	286.6	51.2	48.8
1mm	0	124.5	411.1	73.5	26.5
500 microns	1	65.1	476.2	85.1	14.9
250 microns	2	26.0	502.2	89.8	10.2
125 microns	3	16.9	519.1	92.8	7.2
less than 125microns	4	40.2	559.3	100.0	0.0
TOTAL		559.3			

Sample: **Markarfljot coarse sand**

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	18.4	18.4	3.0	97.0
4mm	-2	54.2	72.6	11.9	88.1
2mm	-1	74.2	146.8	24.1	75.9
1mm	0	104.6	251.4	41.3	58.7
500 microns	1	131.2	382.6	62.9	37.1
250 microns	2	107.6	490.2	80.6	19.4
125 microns	3	59.8	550.0	90.4	9.6
less than 125microns	4	58.2	608.2	100.0	0.0
TOTAL		608.2			

Sample: **Thrasi's cliff sample, 10th flood Solheimajokull**

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	30.8	30.8	4.9	95.1
4mm	-2	52.5	83.3	13.3	86.7
2mm	-1	85.5	168.8	26.9	73.1
1mm	0	93.4	262.2	41.8	58.2
500 microns	1	78.8	341.0	54.4	45.6
250 microns	2	65.8	406.8	64.9	35.1
125 microns	3	73.0	479.8	76.5	23.5
less than 125microns	4	147.1	626.9	100.0	0.0
TOTAL		626.9			

Sample: Solheimassandur 14th C flood by 10th C washed moraines

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	6.9	6.9	1.0	99.0
4mm	-2	43.3	50.2	7.2	92.8
2mm	-1	181.8	232.0	33.1	66.9
1mm	0	239.2	471.2	67.2	32.8
500 microns	1	151.3	622.5	88.8	11.2
250 microns	2	50.4	672.9	96.0	4.0
125 microns	3	18.1	691.0	98.6	1.4
less than 125microns	4	10.0	701.0	100.0	0.0
TOTAL		701.0			

Sample: 21/8/01-2 14th C flood Solheimar

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	22.4	22.4	3.9	96.1
4mm	-2	128.1	150.5	26.2	73.8
2mm	-1	150.1	300.6	52.3	47.7
1mm	0	113.1	413.7	71.9	28.1
500 microns	1	67.0	480.7	83.6	16.4
250 microns	2	30.1	510.8	88.8	11.2
125 microns	3	23.7	534.5	92.9	7.1
less than 125microns	4	40.6	575.1	100.0	0.0
TOTAL		575.1			

Sample: Markarfljot fine sand

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	21.0	21.0	3.7	96.3
4mm	-2	28.9	49.9	8.8	91.2
2mm	-1	42.5	92.4	16.4	83.6
1mm	0	64.3	156.7	27.8	72.2
500 microns	1	134.2	290.9	51.5	48.5
250 microns	2	116.8	407.7	72.2	27.8
125 microns	3	65.4	473.1	83.8	16.2
less than 125microns	4	91.3	564.4	100.0	0.0
TOTAL		564.4			

Cumulative grain size analyses: unknown origin samples

Cumulative grain size analyses

Sample: **Hlaup 1, near streamlined bump, North Thorsmork**

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	156.7	156.7	25.7	74.3
8mm	-3	7.3	164.0	26.9	73.1
4mm	-2	7.5	171.5	28.1	71.9
2mm	-1	29.6	201.1	32.9	67.1
1mm	0	59.3	260.4	42.6	57.4
500 microns	1	71.2	331.6	54.3	45.7
250 microns	2	60.4	392.0	64.2	35.8
125 microns	3	63.4	455.4	74.6	25.4
less than 125microns	4	155.3	610.7	100.0	0.0
TOTAL		610.7			

Sample: **Smjorgil fabric data pt 1, bottom half**

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	25.1	25.1	4.6	95.4
8mm	-3	31.7	56.8	10.4	89.6
4mm	-2	47.2	104.0	19.0	81.0
2mm	-1	67.4	171.4	31.4	68.6
1mm	0	83.6	255.0	46.7	53.3
500 microns	1	79.2	334.2	61.2	38.8
250 microns	2	53.0	387.2	70.9	29.1
125 microns	3	46.2	433.4	79.4	20.6
less than 125microns	4	112.7	546.1	100.0	0.0
TOTAL		546.1			

Sample: **North Thorsmork, by freshwater path**

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	8.8	8.8	1.5	98.5
4mm	-2	32.0	40.8	6.9	93.1
2mm	-1	67.7	108.5	18.4	81.6
1mm	0	99.6	208.1	35.3	64.7
500 microns	1	106.5	314.6	53.4	46.6
250 microns	2	93.4	408.0	69.2	30.8
125 microns	3	89.7	497.7	84.4	15.6
less than 125microns	4	91.7	589.4	100.0	0.0
TOTAL		589.4			

Sample: Smjorgil (top)

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	13.0	13.0	2.2	97.8
8mm	-3	47.3	60.3	10.0	90.0
4mm	-2	37.3	97.6	16.2	83.8
2mm	-1	60.1	157.7	26.2	73.8
1mm	0	85.7	243.4	40.4	59.6
500 microns	1	87.3	330.7	54.9	45.1
250 microns	2	67.3	398.0	66.1	33.9
125 microns	3	62.1	460.1	76.4	23.6
less than 125microns	4	142.3	602.4	100.0	0.0
TOTAL		602.4			

Sample: Entujokull E plateau by LIA moraines

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	0.7	0.7	0.1	99.9
4mm	-2	6.0	6.7	0.9	99.1
2mm	-1	25.9	32.6	4.6	95.4
1mm	0	82.7	115.3	16.2	83.8
500 microns	1	371.9	487.2	68.5	31.5
250 microns	2	155.0	642.2	90.2	9.8
125 microns	3	53.7	695.9	97.8	2.2
less than 125microns	4	15.8	711.7	100.0	0.0
TOTAL		711.7			

Sample: Entujokull W plateau point D

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	11.7	11.7	2.1	97.9
8mm	-3	22.3	34.0	6.1	93.9
4mm	-2	41.5	75.5	13.5	86.5
2mm	-1	68.0	143.5	25.7	74.3
1mm	0	69.3	212.8	38.1	61.9
500 microns	1	64.0	276.8	49.5	50.5
250 microns	2	61.8	338.6	60.6	39.4
125 microns	3	73.4	412.0	73.7	26.3
less than 125microns	4	146.9	558.9	100.0	0.0
TOTAL		558.9			

Sample: Botn 1 x-bedded

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	0.0	0.0	0.0	100.0
4mm	-2	1.0	1.0	0.2	99.8
2mm	-1	8.8	9.8	1.7	98.3
1mm	0	58.3	68.1	11.6	88.4
500 microns	1	156.4	224.5	38.3	61.7
250 microns	2	179.1	403.6	68.9	31.1
125 microns	3	110.4	514.0	87.7	12.3
less than 125microns	4	71.8	585.8	100.0	0.0
TOTAL		585.8			

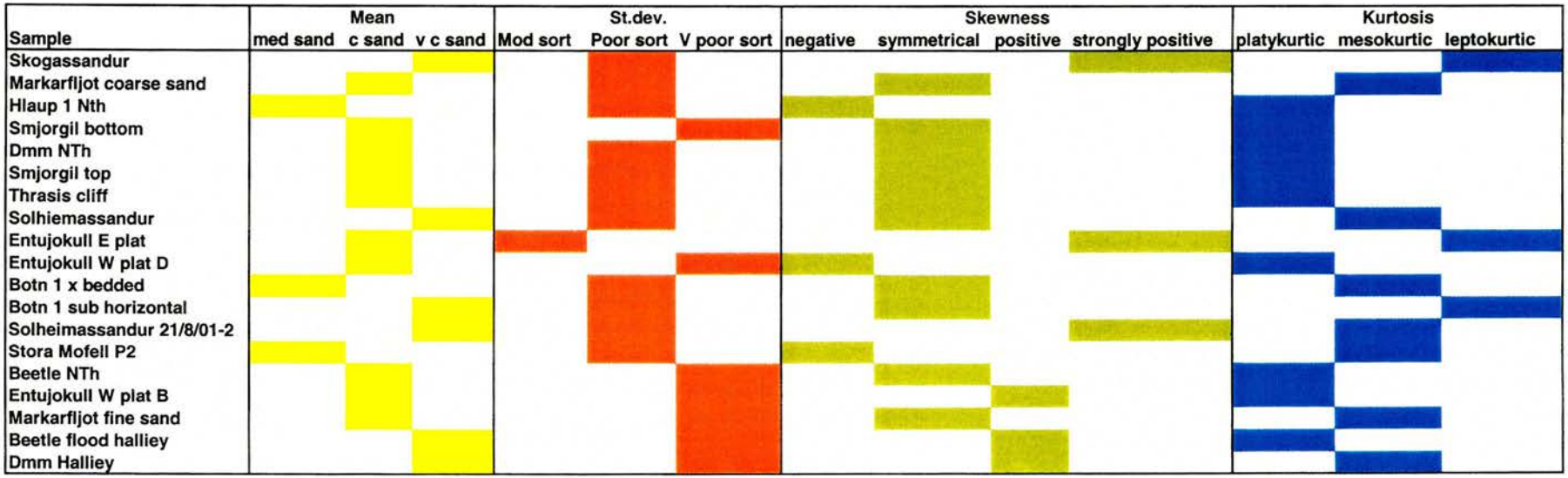
Sample: Botn 1 sub horizontal

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	9.0	9.0	1.8	98.2
4mm	-2	33.1	42.1	8.3	91.7
2mm	-1	95.5	137.6	27.1	72.9
1mm	0	134.5	272.1	53.5	46.5
500 microns	1	122.3	394.4	77.5	22.5
250 microns	2	54.3	448.7	88.2	11.8
125 microns	3	27.7	476.4	93.7	6.3
less than 125microns	4	32.2	508.6	100.0	0.0
TOTAL		508.6			

Sample: Stora Mofell P2

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	6.0	6.0	0.9	99.1
8mm	-3	9.4	15.4	2.4	97.6
4mm	-2	5.5	20.9	3.3	96.7
2mm	-1	21.7	42.6	6.7	93.3
1mm	0	54.9	97.5	15.4	84.6
500 microns	1	128.9	226.4	35.7	64.3
250 microns	2	209.9	436.3	68.8	31.2
125 microns	3	135.8	572.1	90.2	9.8
less than 125microns	4	62.1	634.2	100.0	0.0
TOTAL		634.2			

Cumulative grainsize statistical test results



Appendix 4

Radiocarbon Analyses

Sample: Beetle North Thorsmork

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	53.5	53.5	13.7	86.3
8mm	-3	6.4	59.9	15.3	84.7
4mm	-2	22.0	81.9	20.9	79.1
2mm	-1	38.0	119.9	30.6	69.4
1mm	0	58.5	178.4	45.5	54.5
500 microns	1	64.4	242.8	62.0	38.0
250 microns	2	50.1	292.9	74.8	25.2
125 microns	3	37.9	330.8	84.4	15.6
less than 125microns	4	61.0	391.8	100.0	0.0
TOTAL		391.8			

Sample: Entujokull W plateau pt B

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	0.0	0.0	0.0	100.0
8mm	-3	17.2	17.2	3.0	97.0
4mm	-2	29.6	46.8	8.1	91.9
2mm	-1	87.3	134.1	23.2	76.8
1mm	0	121.2	255.3	44.3	55.7
500 microns	1	84.4	339.7	58.9	41.1
250 microns	2	62.6	402.3	69.7	30.3
125 microns	3	65.6	467.9	81.1	18.9
less than 125microns	4	108.9	576.8	100.0	0.0
TOTAL		576.8			

Sample: Beetle flood Halli ey

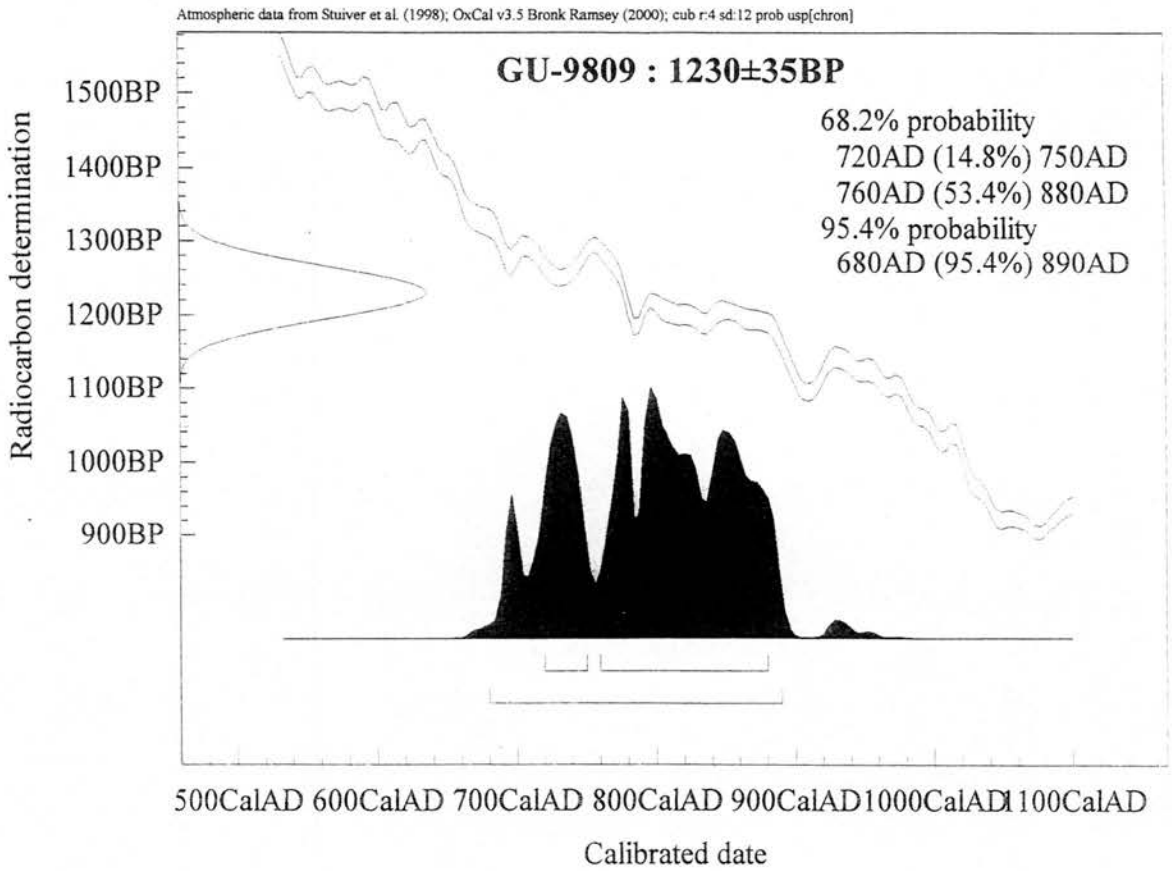
Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	57.1	57.1	10.2	89.8
8mm	-3	111.3	168.4	29.9	70.1
4mm	-2	64.7	233.1	41.4	58.6
2mm	-1	62.2	295.3	52.5	47.5
1mm	0	61.3	356.6	63.4	36.6
500 microns	1	63.5	420.1	74.7	25.3
250 microns	2	57.2	477.3	84.9	15.1
125 microns	3	44.1	521.4	92.7	7.3
less than 125microns	4	41.1	562.5	100.0	0.0
TOTAL		562.5			

Sample: Upper Dmm Halli ey

Sieve size	phi scale	Mass sediment retained	Cumulative mass	Cumulative weight % retained	Cumulative weight percent passed
16mm	-4	78.5	78.5	10.8	89.2
8mm	-3	52.4	130.9	18.0	82.0
4mm	-2	71.1	202.0	27.8	72.2
2mm	-1	136.0	338.0	46.6	53.4
1mm	0	136.0	474.0	65.3	34.7
500 microns	1	99.6	573.6	79.0	21.0
250 microns	2	61.4	635.0	87.5	12.5
125 microns	3	45.5	680.5	93.8	6.2
less than 125microns	4	45.3	725.8	100.0	0.0
TOTAL		725.8			

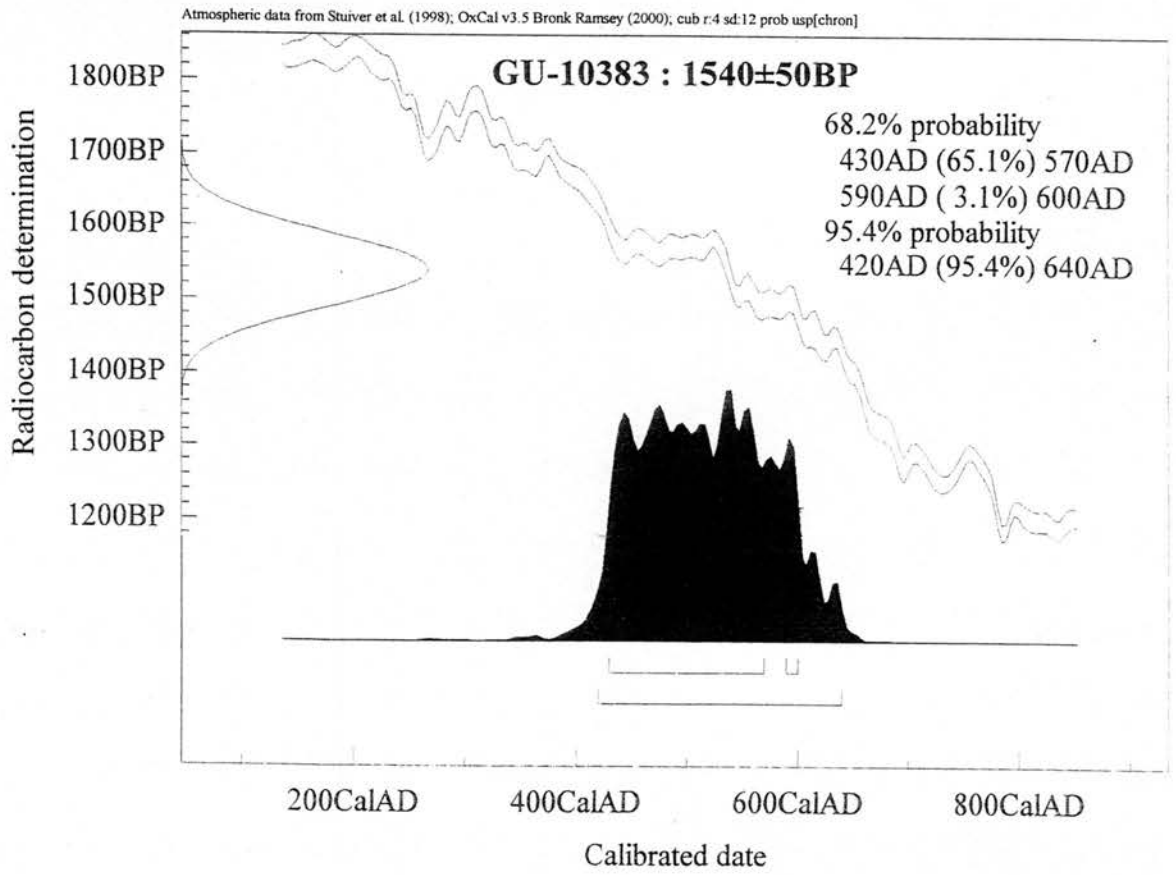
Drumbabot tree sample

Calibration Plot



Peat beneath Layer H, Lambafellsheidi, profile 146.

Calibration Plot



Appendix 5

Ice surface profile calculations

Ice surface profile calculations

For yield stress equal to 50 Pa using equation 5 from Paterson p.242.
Assuming flat ice surface across glacier, actually would be thicker
Assuming flat ice bed at height lava surface

Location	*Height ice*	*Height fore*	*Position of actual ice bed*	
SM moraines	630	430	3460.208	430
southern e point	580	430	1946.367	430
Botn col	500	430	423.8754	430
Botn w col	480	430	216.263	430
S w col	550	430	1245.675	430
western s route	530	430	865.0519	assumes continuation lava surface

Assuming flat ice bed at height Sydri Emstrua, ie. No lava surface

Location	*Height ice*	*Height fore*	*Position of actual ice bed*		*Position of ice margin*
SM moraines	630	370	5847.751	380	5406.574
southern e point	580	370	3814.879	380	3460.208
Botn col	500	370	1461.938	365	1578.557
Botn w col	480	370	1046.713	355	1351.644
S w col	550	370	2802.768	355	3289.36
western s route	530	370	2214.533	345	2960.64

For yield stress equal to 100Pa. Factor is sqrt(2*(100/pg))=4.7
Assuming flat ice surface across glacier, actually would be thicker
Assuming flat ice bed at height lava surface

Location	*Height ice*	*Height fore*	*Position of actual ice bed*
SM moraines	630	430	1810.774
southern e point	580	430	1018.56
Botn col	500	430	221.8198
Botn w col	480	430	113.1734
S w col	550	430	651.8787
western s route	530	430	452.6935

Assuming flat ice bed at height Sydri Emstrua, ie. No lava surface

Location	*Height ice*	*Height fore*	*Position of actual ice bed*		*Position of ice margin*
SM moraines	630	370	3060.208	380	2829.335
southern e point	580	370	1996.378	380	1810.774
Botn col	500	370	765.0521	365	825.034
Botn w col	480	370	547.7592	355	707.3336
S w col	550	370	1466.727	355	1721.367
western s route	530	370	1158.895	345	1549.344

For yield stress equal to 50 Pa using equation 5 from Paterson p.242.
Assuming flat ice surface across glacier, actually would be thicker
Assuming flat ice bed at height lava surface

Location	*Height ice*	*Height fore*	*Position of*	*Interpretation*
SM moraines	630	430	3460.208	ice at end of Entujokull foreland, approx position end of lava flow by gorge, ice might also flow into Botn col
southern e point	580	430	1946.367	ice at least reached w edge of e lava plateau
Botn col	500	430	423.8754	ice close to w edge of e plateau
Botn w col	480	430	216.263	ice over w edge e plateau
S w col	550	430	1245.675	ice close to e edge w plateau where moraines may be
western s route	530	430	865.0519	ice at end of Entujokull foreland, approx position end of lava flow by gorge, ice might also flow into Botn col

Assuming flat ice bed at height Sydri Emstrua, ie. No lava surface

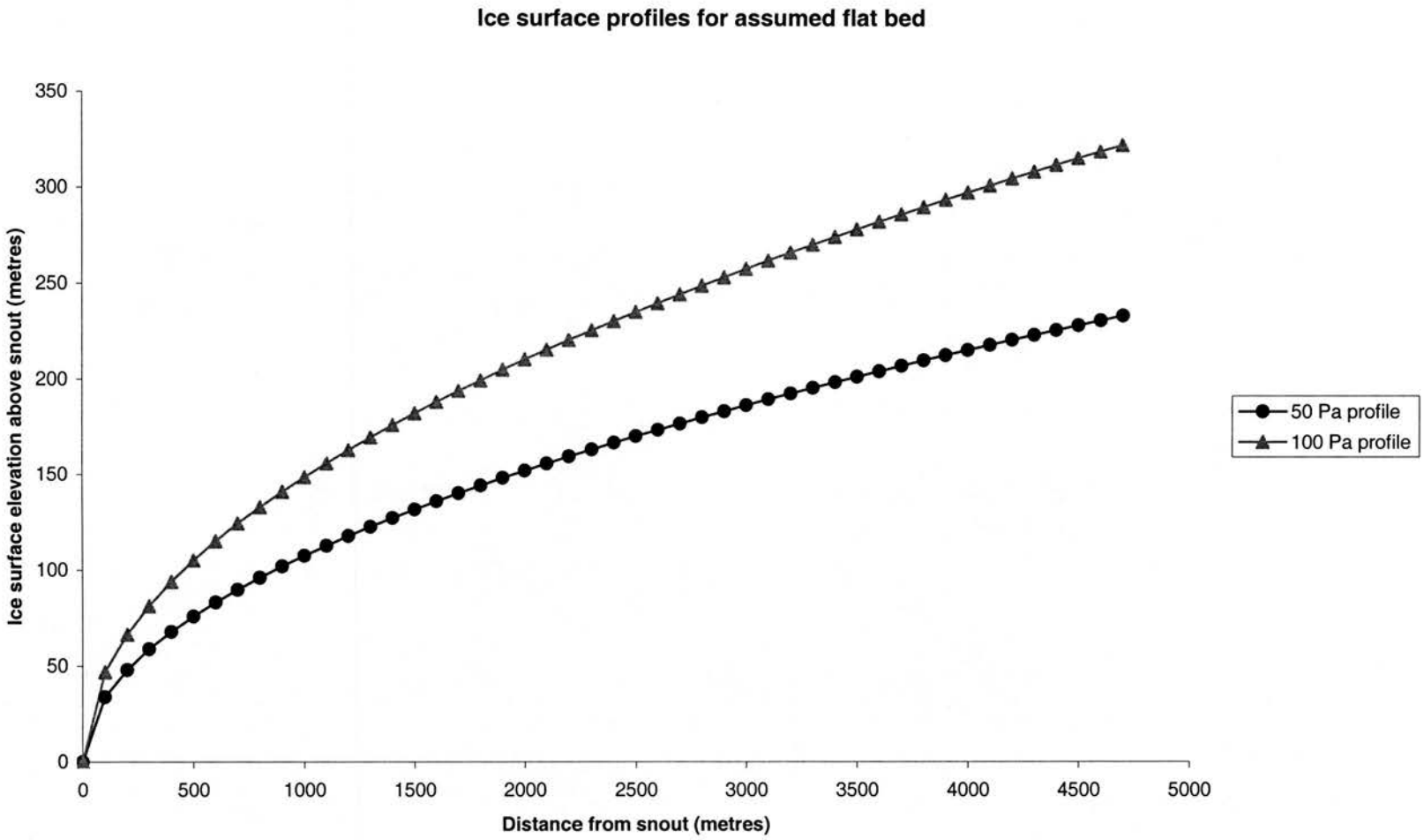
Location	*Height ice*	*Height fore*	*Position of*	*Interpretation*
SM moraines	630	370	5847.751	meets with road
southern e point	580	370	3814.879	meets other side gorge at end of foreland
Botn col	500	370	1461.938	meets moraines along e edge w plateau
Botn w col	480	370	1046.713	meets moraines at top of e edge of w plateau
S w col	550	370	2802.768	meets ~500m contour on slope opp entujokull bet road and gorge
western s route	530	370	2214.533	meets a little passed 500m contour as above

For yield stress equal to 100Pa. Factor is sqrt(2*(100/pg))=4.7
Assuming flat ice surface across glacier, actually would be thicker
Assuming flat ice bed at height lava surface

Location	*Height ice*	*Height fore*	*Position of*	*Interpretation*
SM moraines	630	430	1810.774	end of e plateau
southern e point	580	430	1018.56	w large gully, inside LLIA moraines
Botn col	500	430	221.8198	~LLIA moriaines
Botn w col	480	430	113.1734	end e plateau
S w col	550	430	651.8787	middle valley bet 2 plateaus
western s route	530	430	452.6935	little passed moraines on e edge of w plateau

Assuming flat ice bed at height Sydri Emstrua, ie. No lava surface

Location	*Height ice*	*Height fore*	*Position of*	*Interpretation*
SM moraines	630	370	3060.208	mid w plateau
southern e point	580	370	1996.378	end e plateau
Botn col	500	370	765.0521	end e plateau
Botn w col	480	370	547.7592	mid valley bet 2 lavas
S w col	550	370	1466.727	mid w plateau
western s route	530	370	1158.895	other side gorge end foreland


Ice surface profiles for assumed flat bed
Ice surface elevation above snout (metres)
350
300
250
200
150
100
50
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
Distance from snout (metres)
50 Pa profile
100 Pa profile