

## **DOCTOR OF PHILOSOPHY**

### **Late Devensian and Holocene relative sea level changes on the Isly of Skye, Scotland**

Selby, Katherine

*Award date:*  
1997

*Awarding institution:*  
Coventry University

[Link to publication](#)

#### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of this thesis for personal non-commercial research or study
- This thesis cannot be reproduced or quoted extensively from without first obtaining permission from the copyright holder(s)
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

#### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

# **Late Devensian and Holocene Relative Sea Level Changes on the Isle of Skye, Scotland**

**Katherine Selby**

**A thesis submitted in fulfilment of the University's  
requirements for the degree of Doctor of Philosophy**

**August 1997**

**Volume II: Diagrams and Appendices**

## **Contents**

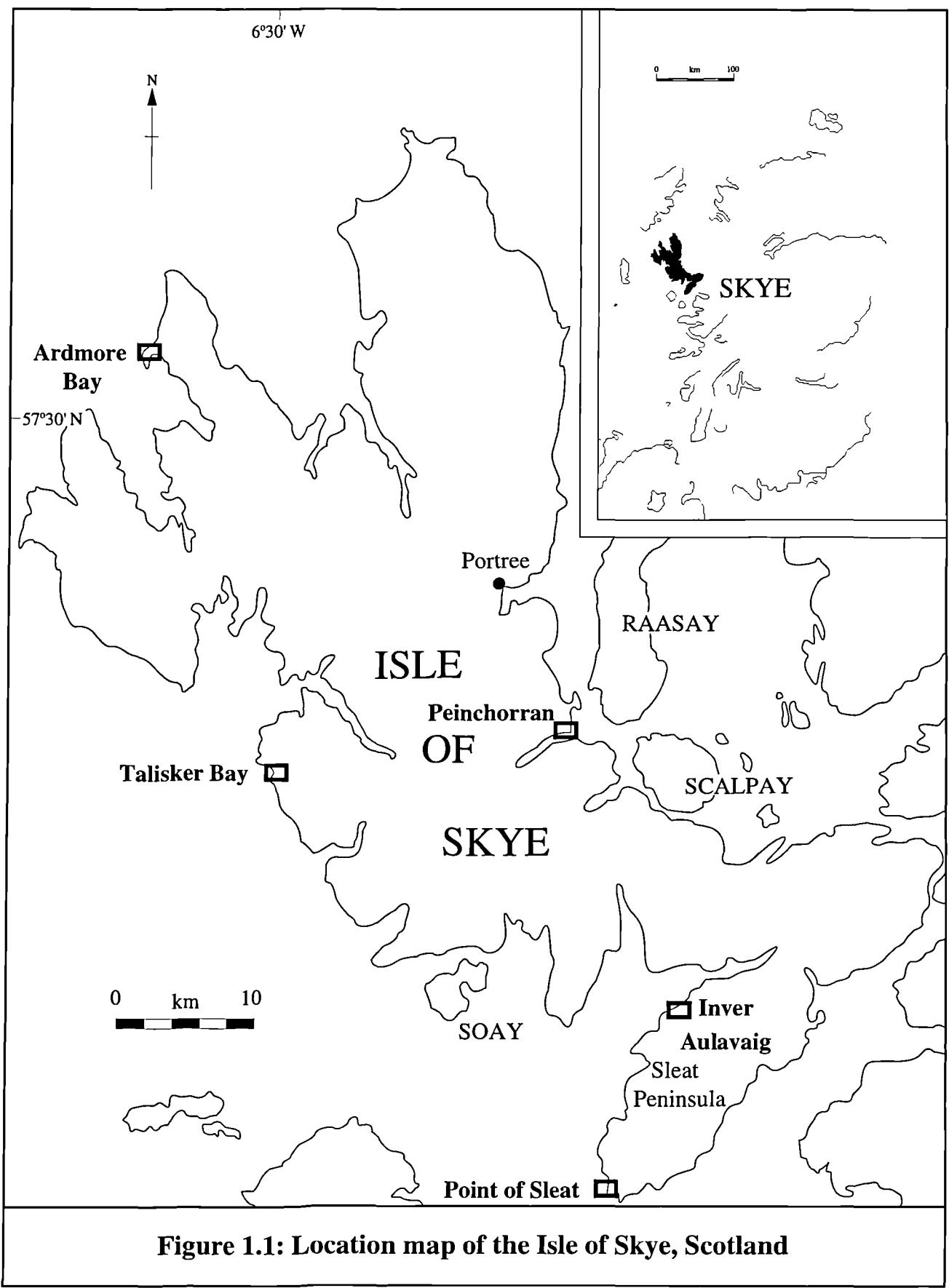
List of figures.....	3
Diagrams.....	6
<b>Appendices.....</b>	<b>80</b>
<b>Appendix 1: Photographs of the sites.....</b>	<b>81</b>
Inver Aulavaig.....	81
Peinchorran.....	82
Talisker Bay.....	83
Point of Sleat.....	84
Ardmore Bay.....	85
<b>Appendix 2: Borehole descriptions for the sites.....</b>	<b>86</b>
Inver Aulavaig.....	86
Peinchorran.....	93
Talisker Bay.....	96
Point of Sleat.....	106
Ardmore Bay.....	110
<b>Appendix 3: Complete ecological lists of diatom taxa identified at the sites.....</b>	<b>111</b>
Inver Aulavaig.....	111
Peinchorran.....	116
Talisker Bay.....	117
Point of Sleat.....	120
Ardmore Bay.....	121

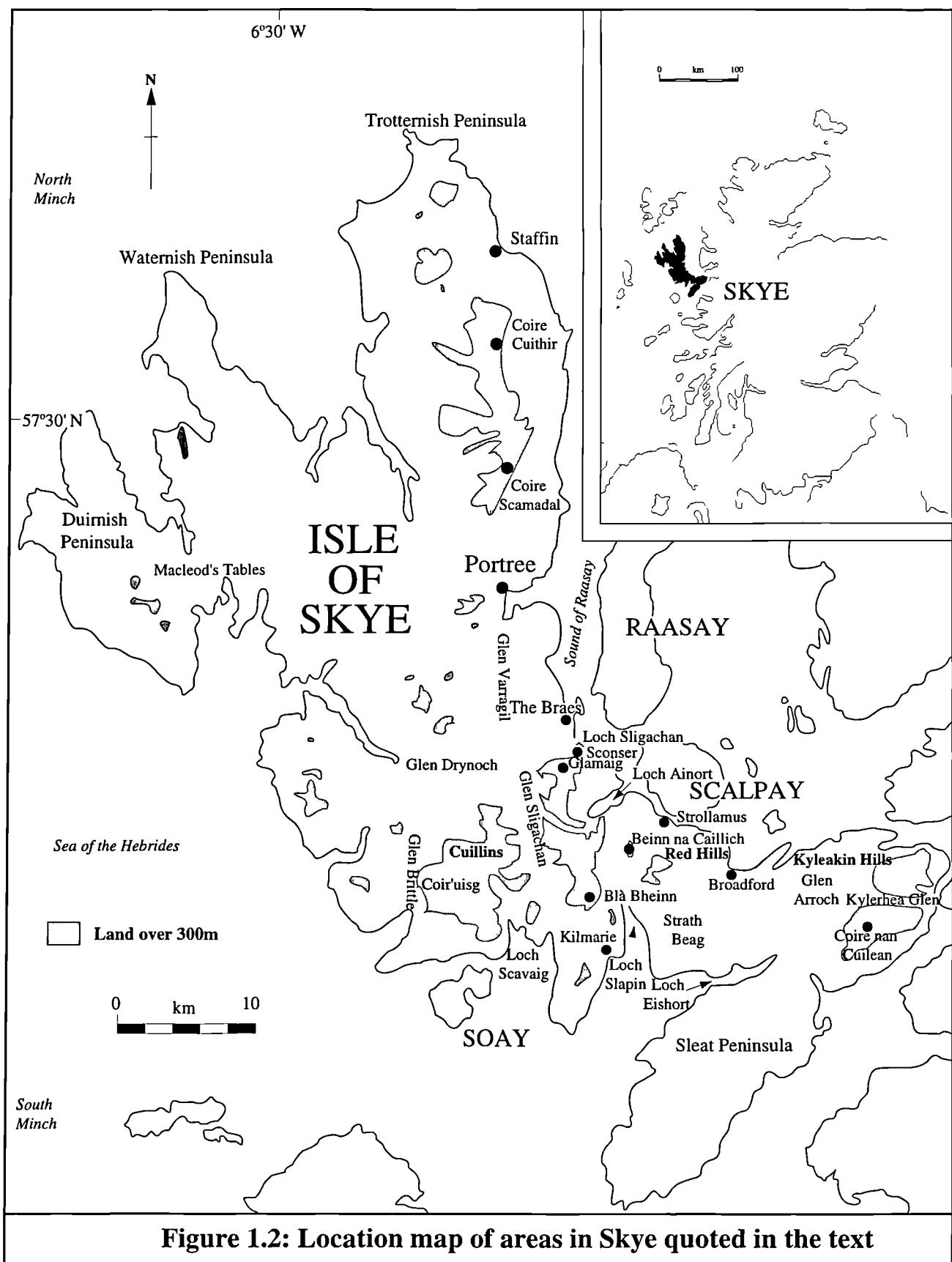
## List of Figures

Figure 1.1:	Location map of the Isle of Skye, Scotland.....	6
Figure 1.2:	Location map of areas in Skye quoted in the text.....	7
Figure 2.1:	Location map of areas in Scotland quoted in the text.....	8
Figure 2.2:	Late Devensian ice sheet and Loch Lomond Readvance limits (after Bowen <i>et al.</i> , 1986; Hall and Bent, 1990; Benn <i>et al.</i> , 1992)...	9
Figure 2.3:	Patterns of ice flow during ice sheet glaciation (after Bowen <i>et al.</i> , 1986).....	10
Figure 2.4:	Ice sheet pattern on Skye at the Devensian maximum (after Harker, 1901).....	11
Figure 2.5:	Three dimensional reconstruction of the Skye ice dome at its maximum thickness based on the evidence of trimline altitudes and features indicating former directions of ice movements (after Dahl <i>et al.</i> , 1996).....	12
Figure 2.6:	Reconstruction of the dimensions of the Cuillin icefield and other former glaciers in the Cuillin Hills, Blà Bheinn and Red Hills during the Loch Lomond Readvance (after Ballantyne, 1989).....	13
Figure 2.7:	Lateglacial and Postglacial shorelines in south-east Scotland (after Sissons <i>et al.</i> , 1966).....	14
Figure 2.8:	Age-altitude plot of sea level index points for Rumach, Arisaig (after Shennan <i>et al.</i> , 1993; 1994; 1995a).....	15
Figure 2.9:	Lateglacial and Holocene relative sea level graph for the Cowal Peninsula (Sutherland, 1981).....	15
Figure 2.10:	Holocene relative sea level graph based on mean tide level for the western Forth valley (after Sissons, 1966; Sissons and Brooks, 1971).....	16
Figure 2.11:	Holocene relative sea level graph based on mean tide level for the Lower Strathearn valley (Cullingford <i>et al.</i> , 1980).....	16
Figure 2.12:	Holocene relative sea level graph based on mean tide level for the Inner Moray Firth (after Haggart, 1982; 1986; 1987; 1989; Firth and Haggart, 1989).....	17
Figure 2.13:	Lateglacial and Holocene relative sea level graphs for the Dornoch Firth (Smith <i>et al.</i> , 1992) and the Lower Ythan valley (after Smith <i>et al.</i> , 1983).....	17
Figure 2.14:	Holocene relative sea level graph based on mean tide level for the eastern Solway Firth (after Jardine, 1975; 1980; 1982).....	18
Figure 2.15:	Quadratic trend-surface maps for Scottish shorelines (Firth <i>et al.</i> , 1993).....	19
Figure 2.16:	Location of pollen sites on the Isle of Skye studied by previous authors.....	20
Figure 2.17:	Schematic diagram showing temperature, vegetation, geomorphology and soil development during the Lateglacial and early Holocene for the Scottish Highlands and islands (Walker <i>et al.</i> , 1994).....	21
Figure 3.1:	Diatom zonation across coastal wetlands.....	22
Figure 3.2:	Results of statistical tests for diatom counts at Inver Aulavaig, borehole 36.....	23
Figure 3.3:	Schematic diagram showing the different isolation contacts in an infilling basin (Kjemperud, 1986).....	24
Figure 3.4:	A 6-stage transgressive model of barrier genesis, destruction and re-establishment dominated by localised glacial sediment sources, rising relative sea level and tidal inlet processes (after Boyd and Penland, 1984).....	25
Figure 4.1:	Geomorphological map and borehole locations for Inver Aulavaig (NG 604 124).....	26

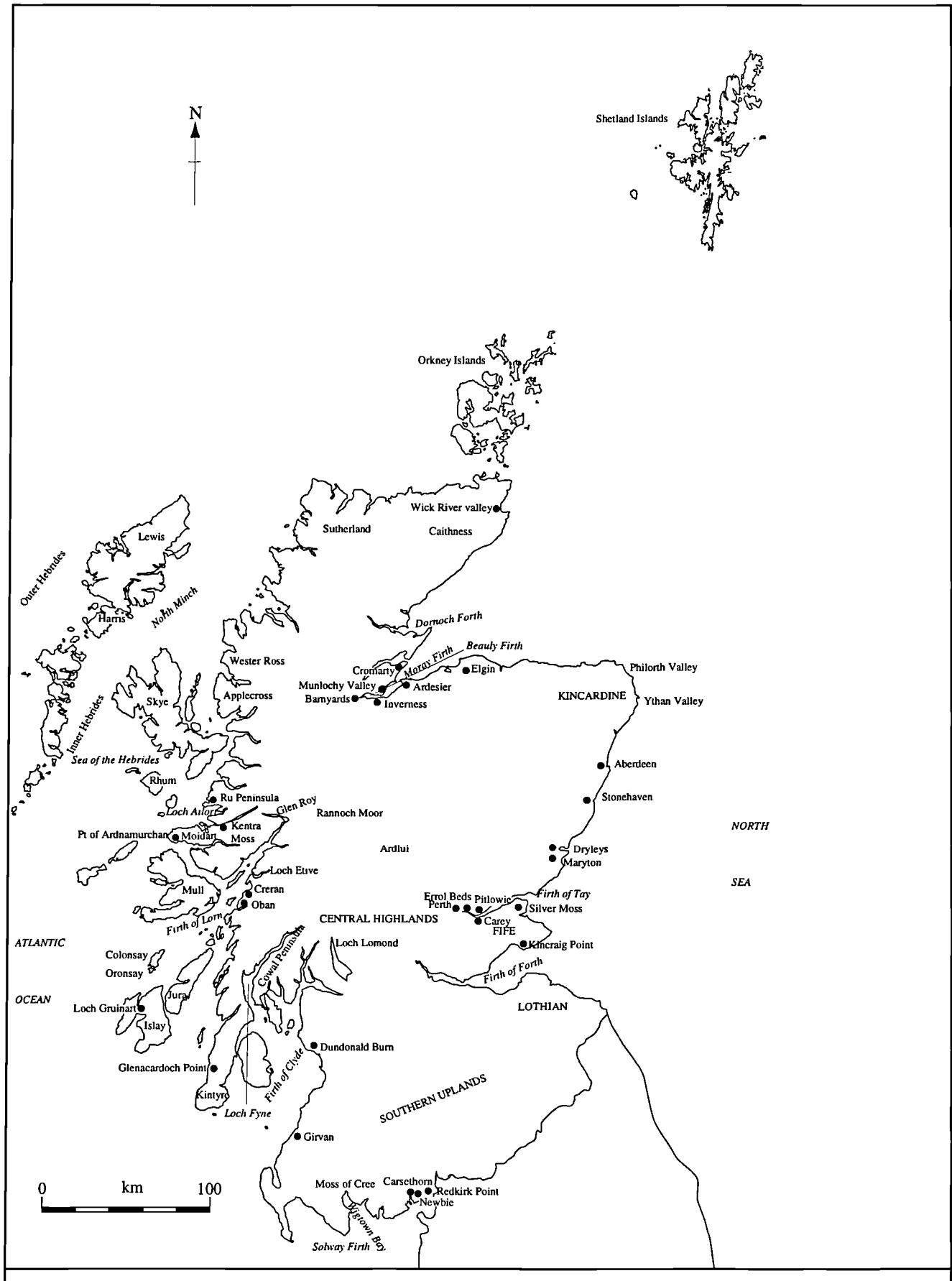
Figure 4.2:	Possible basal contours beneath the peat moss at Inver Aulavaig (based on borehole data).....	27
Figure 4.3:	Stratigraphy of transect A, Inver Aulavaig (NG 606 124).....	28
Figure 4.4:	Stratigraphy of transect 1, Inver Aulavaig (NG 605 123).....	29
Figure 4.5:	Stratigraphy of transect 2, Inver Aulavaig (NG 604 122).....	30
Figure 4.6:	Stratigraphy of transect B, Inver Aulavaig (NG 604 123).....	31
Figure 4.7:	Stratigraphy of transect C, Inver Aulavaig (NG 604 124).....	32
Figure 4.8:	Stratigraphy of transect 3, Inver Aulavaig (NG 608 123).....	33
Figure 4.9:	High and low level loss on ignition for borehole 36, Inver Aulavaig.....	34
Figure 4.10:	Percentage pollen assemblage for Inver Aulavaig.....	35
Figure 4.11:	Percentage pollen assemblage for Inver Aulavaig.....	36
Figure 4.12:	Percentage pollen assemblage for Inver Aulavaig.....	37
Figure 4.13:	Summary percentage diatom assemblage and taxa over 5% for Inver Aulavaig.....	38
Figure 4.14:	Summary percentage diatom assemblage and taxa over 5% for Inver Aulavaig.....	39
Figure 4.15:	Summary percentage diatom assemblage and taxa over 5% for Inver Aulavaig.....	40
Figure 4.16:	Summary diagram of palaeoenvironmental changes at Inver Aulavaig.....	41
Figure 5.1:	Geomorphological map and borehole locations for Peinchorran (NG 528 332).....	42
Figure 5.2:	Stratigraphy of transect A, Peinchorran (NG 528 332).....	43
Figure 5.3:	Stratigraphy of transect 1, Peinchorran (NG 528 336).....	44
Figure 5.4:	Stratigraphy of transect B, Peinchorran (NG 528 336).....	45
Figure 5.5:	High and low level loss on ignition for borehole F, Peinchorran.....	46
Figure 5.6:	Percentage pollen assemblage for Peinchorran.....	47
Figure 5.7:	Summary percentage diatom assemblage and taxa over 5% for Peinchorran.....	48
Figure 5.8:	Summary diagram of palaeoenvironmental changes at Peinchorran..	49
Figure 6.1:	Geomorphological map and borehole locations for Talisker Bay (NG 312 301).....	50
Figure 6.2:	Stratigraphy of transect A, Talisker Bay (NG 319 302).....	51
Figure 6.3:	Stratigraphy of transect 5, Talisker Bay (NG 318 304).....	52
Figure 6.4:	High and low level loss on ignition for borehole A5, Talisker Bay..	53
Figure 6.5:	Percentage pollen assemblage for Talisker Bay.....	54
Figure 6.6:	Percentage pollen assemblage for Talisker Bay.....	55
Figure 6.7:	Summary percentage diatom assemblage and taxa over 5% for Talisker Bay.....	56
Figure 6.8:	Summary percentage diatom assemblage and taxa over 5% for Talisker Bay.....	57
Figure 6.9:	Summary diagram of palaeoenvironmental changes at Talisker Bay..	58
Figure 7.1:	Geomorphological map and borehole locations for Point of Sleat (NG 565 002).....	59
Figure 7.2:	Stratigraphy of transect A, Point of Sleat (NG 565 002).....	60
Figure 7.3:	Stratigraphy of transect 1, Point of Sleat (NG 565 002).....	61
Figure 7.4:	Possible basal contours beneath the peat moss at Point of Sleat (based on borehole data).....	62
Figure 7.5:	High and low level loss on ignition for borehole 3, Point of Sleat...	63
Figure 7.6:	Percentage pollen assemblage for Point of Sleat.....	64
Figure 7.7:	Summary percentage diatom assemblage and taxa over 5% for Point of Sleat.....	65
Figure 7.8:	Proposed basin development at Point of Sleat .....	66
Figure 7.9:	Summary diagram of palaeoenvironmental changes at Point of Sleat.	67
Figure 8.1:	Geomorphological map and borehole locations for Ardmore Bay (NG 611 221).....	68
Figure 8.2:	Stratigraphy of transect 1, Ardmore Bay (NG 611 221).....	69
Figure 8.3:	Stratigraphy of transect A, Ardmore Bay (NG 612 222).....	70

Figure 8.4:	High and low level loss on ignition for borehole 3, Ardmore Bay...	71
Figure 8.5:	Percentage pollen assemblage for Ardmore Bay.....	72
Figure 8.6:	Summary diatom assemblage and taxa over 5% for Ardmore Bay..	73
Figure 8.7:	Summary diagram of palaeoenvironmental changes at Ardmore Bay.	74
Figure 9.1:	Age-altitude plot of relative sea level data for Skye against an uncalibrated radiocarbon timescale.....	75
Figure 9.2:	Age-altitude plot of relative sea level data for Skye against calibrated radiocarbon years BC.....	76
Figure 9.3:	Age-altitude plot of relative sea level index points based on mean tide level for Skye against an uncalibrated radiocarbon timescale....	77
Figure 9.4:	Age-altitude plot of relative sea level index points based on mean tide level for Skye against calibrated radiocarbon years BC.....	78
Figure 10.1:	Location map of pollen sites in Skye quoted in the text.....	79

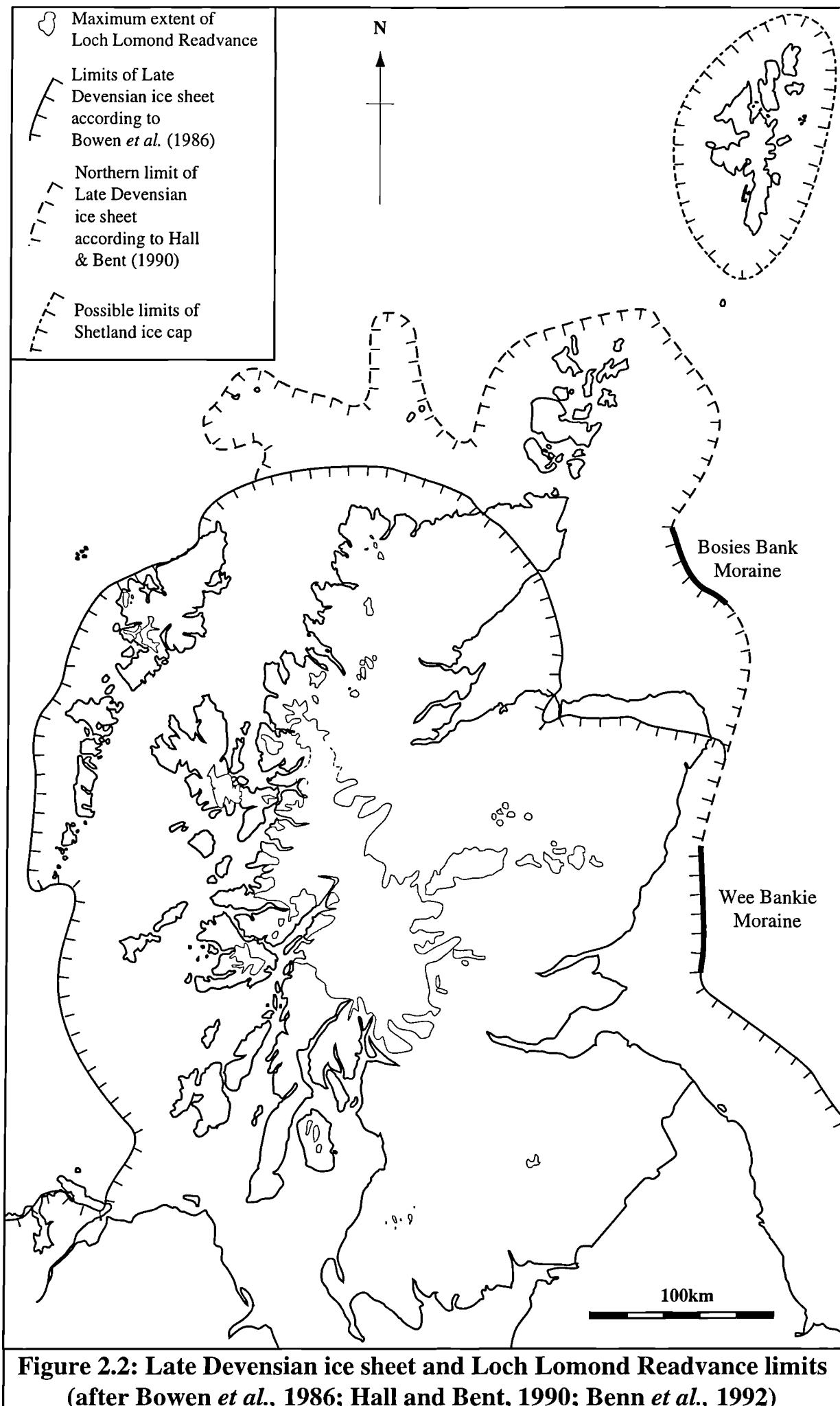




**Figure 1.2: Location map of areas in Skye quoted in the text**



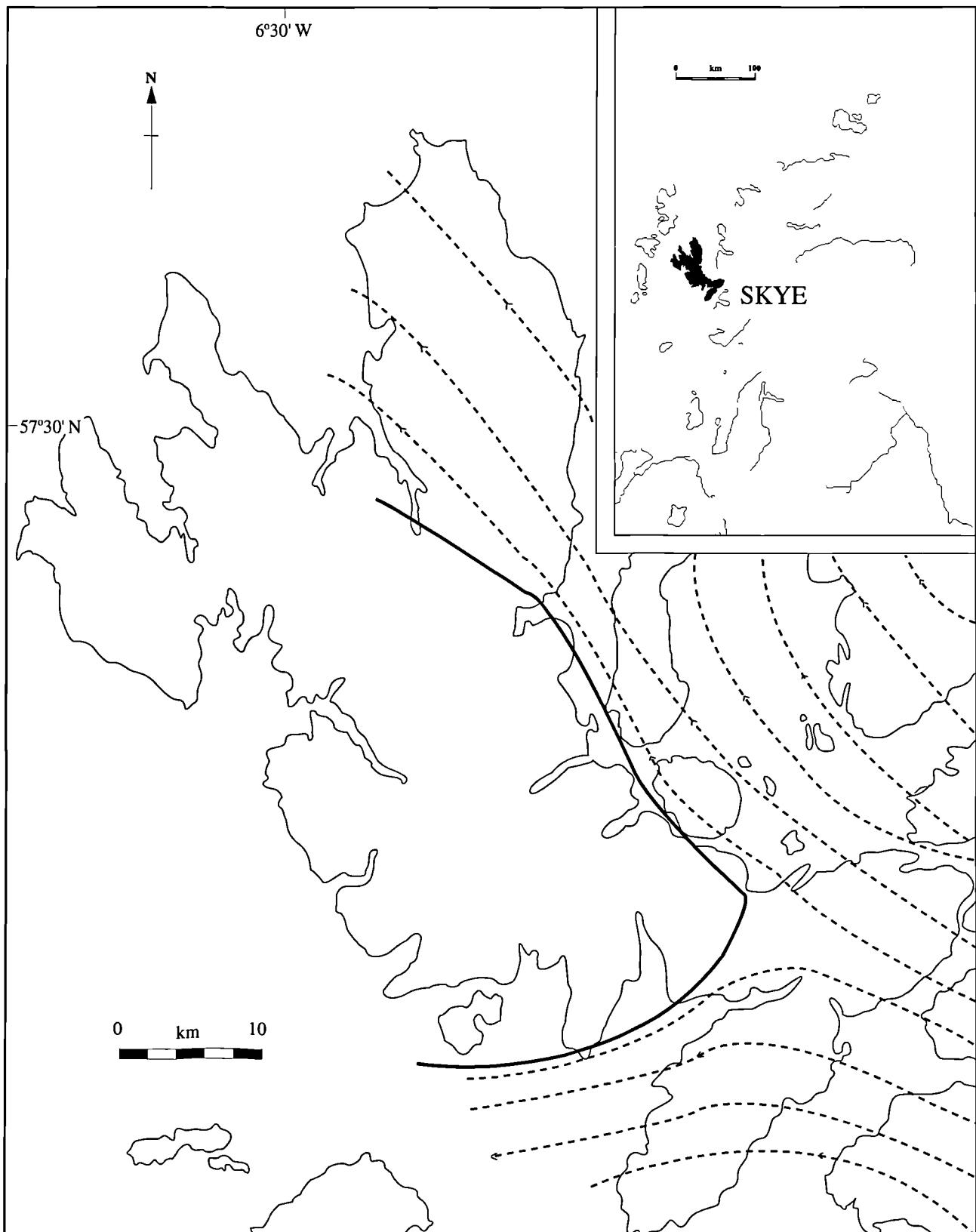
**Figure 2.1: Location map of areas in Scotland quoted in the text**



**Figure 2.2: Late Devensian ice sheet and Loch Lomond Readvance limits  
(after Bowen *et al.*, 1986; Hall and Bent, 1990; Benn *et al.*, 1992)**

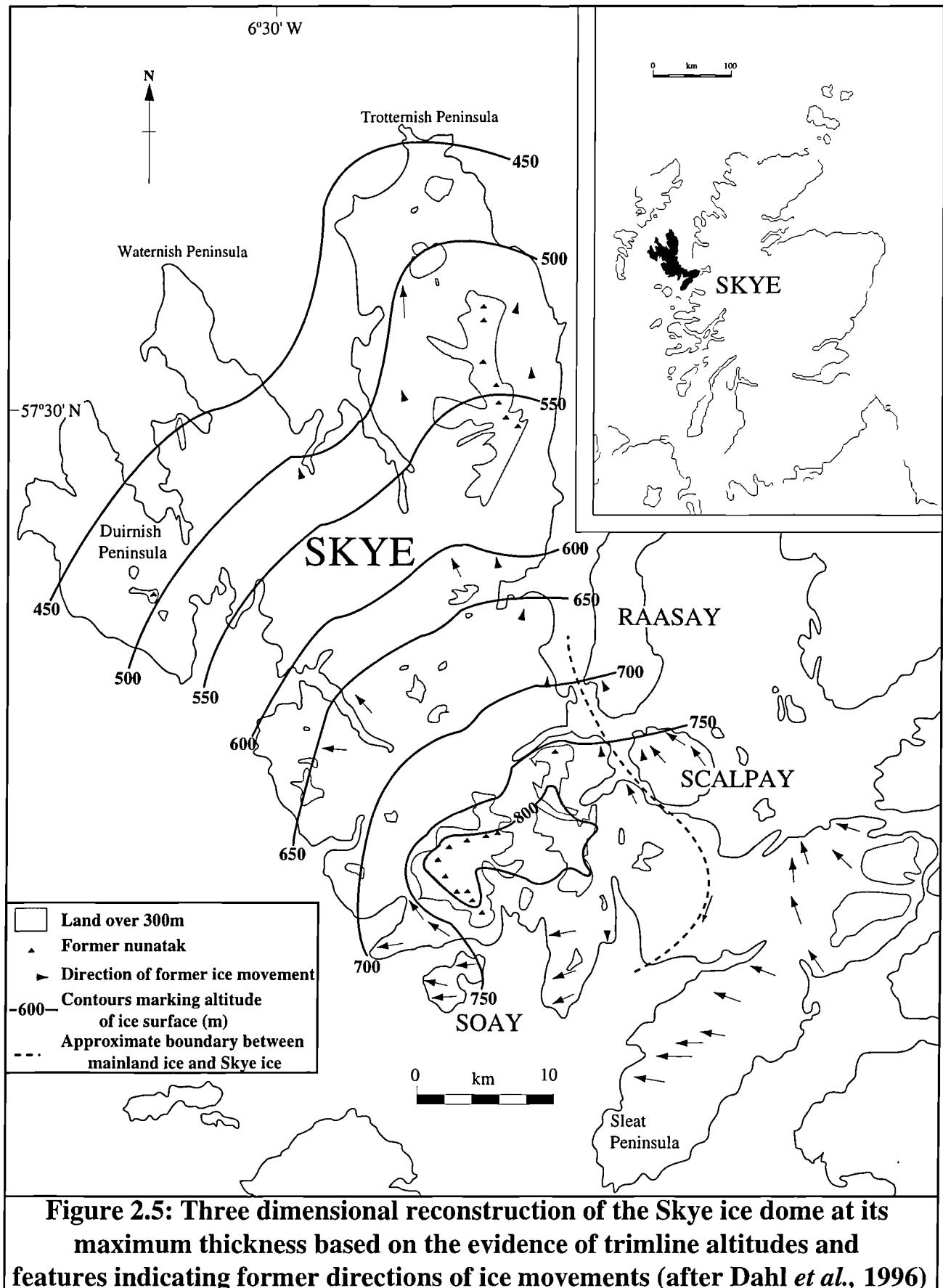


**Figure 2.3: Patterns of ice flow during ice sheet glaciation  
(after Bowen *et al.*, 1986)**

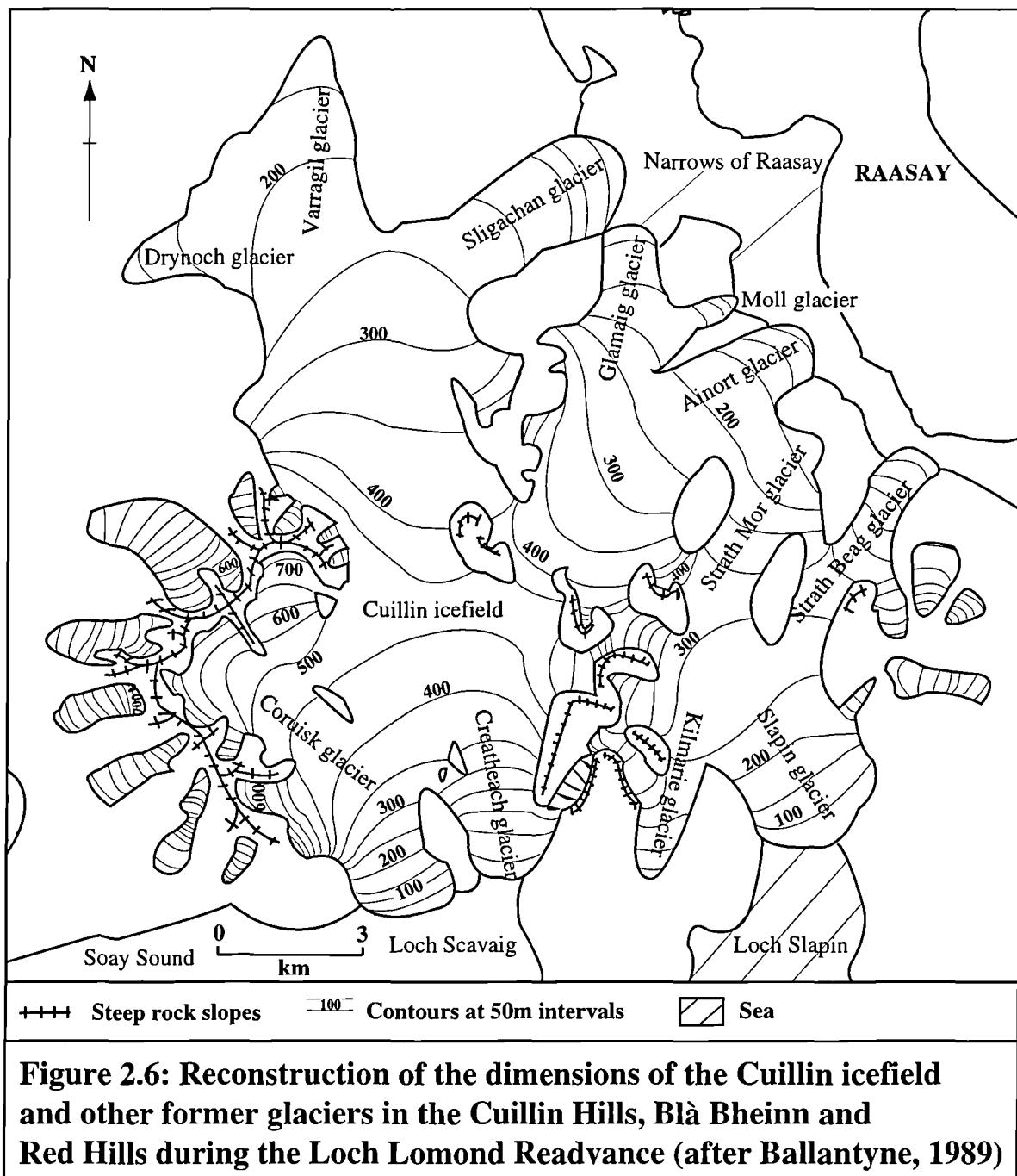


- Boundary between local ice and Scottish mainland ice
- - - Deflection of Scottish mainland ice around a locally nourished ice cap

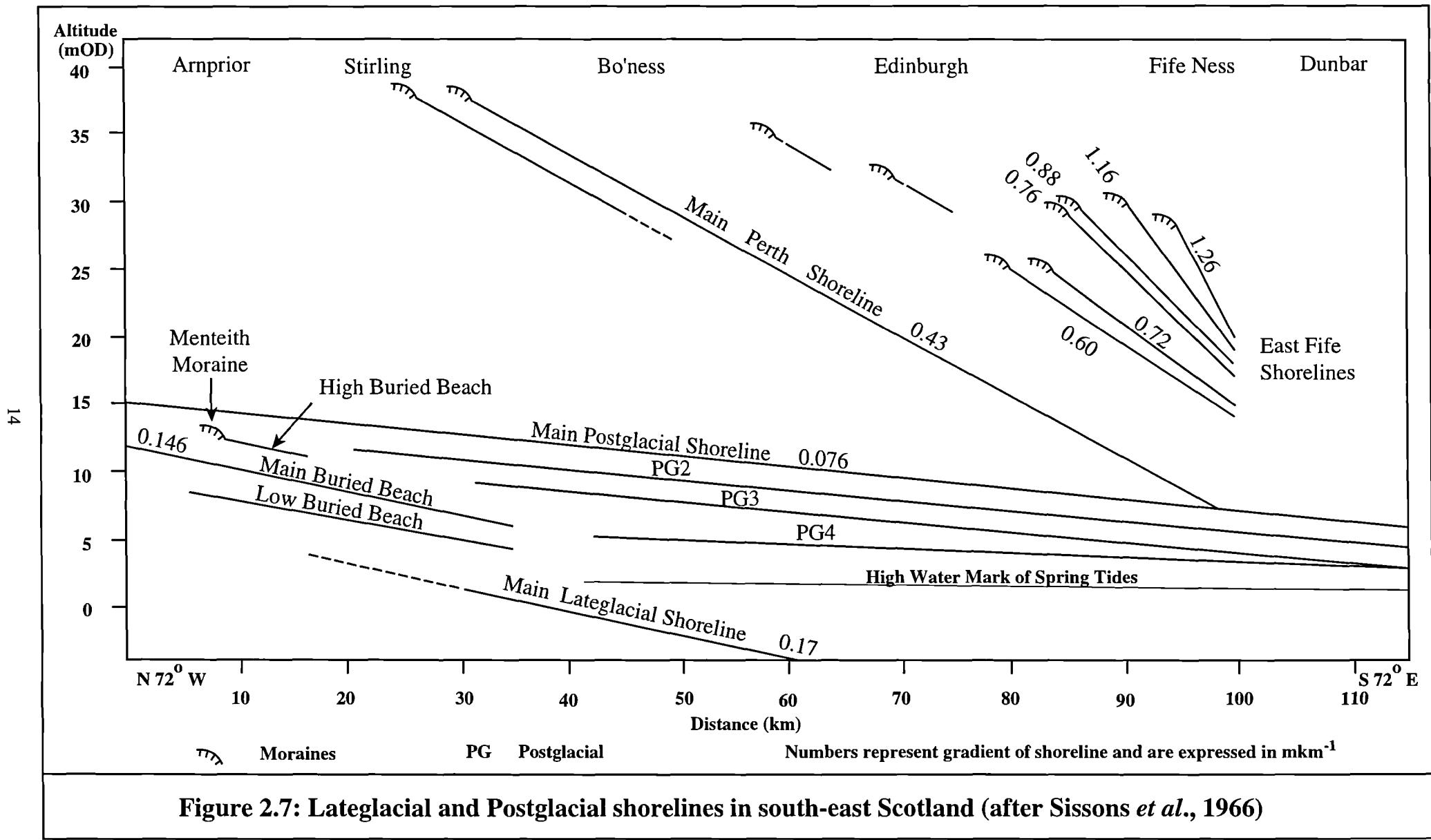
**Figure 2.4: Ice sheet pattern on Skye at the Devensian maximum  
(after Harker, 1901)**



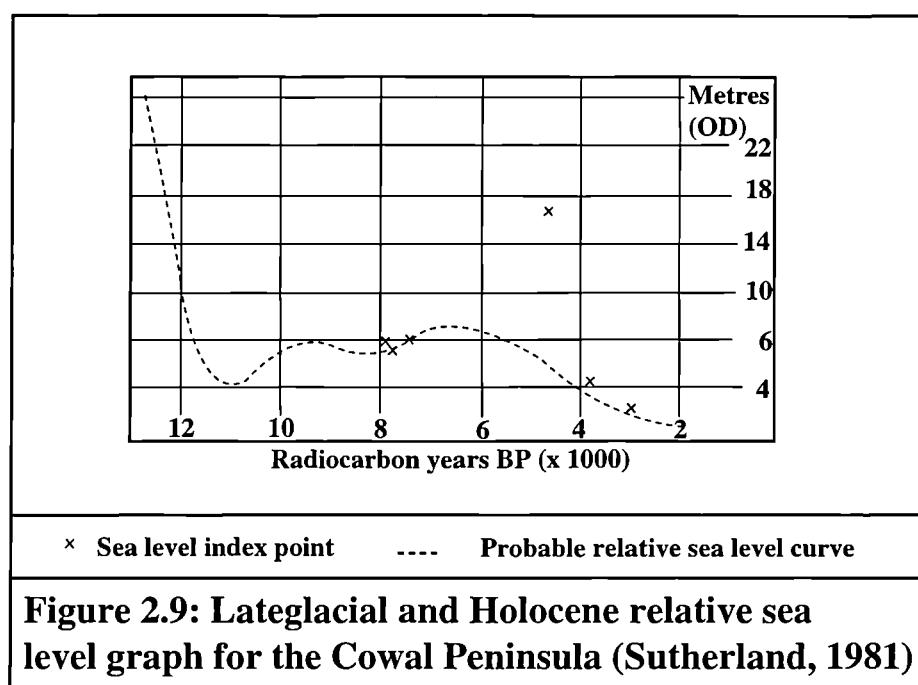
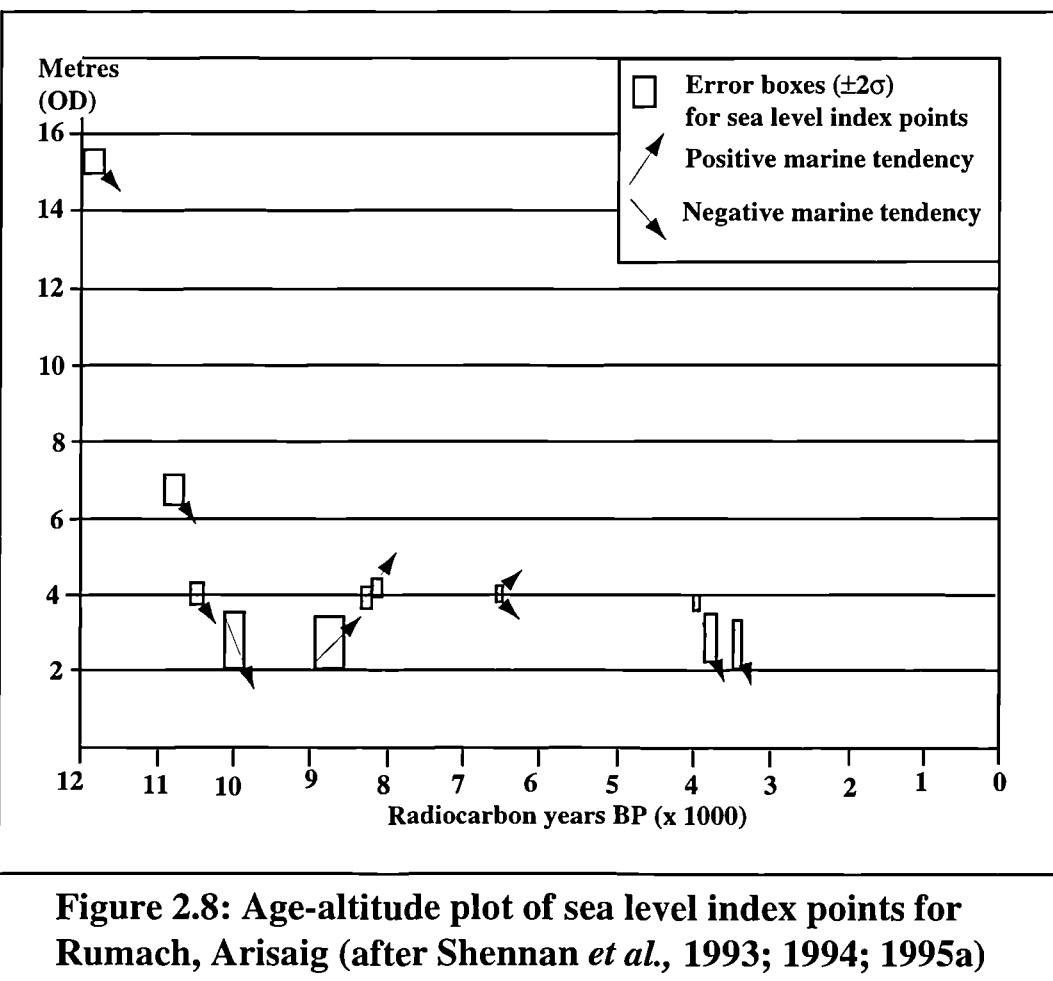
**Figure 2.5: Three dimensional reconstruction of the Skye ice dome at its maximum thickness based on the evidence of trimline altitudes and features indicating former directions of ice movements (after Dahl *et al.*, 1996)**

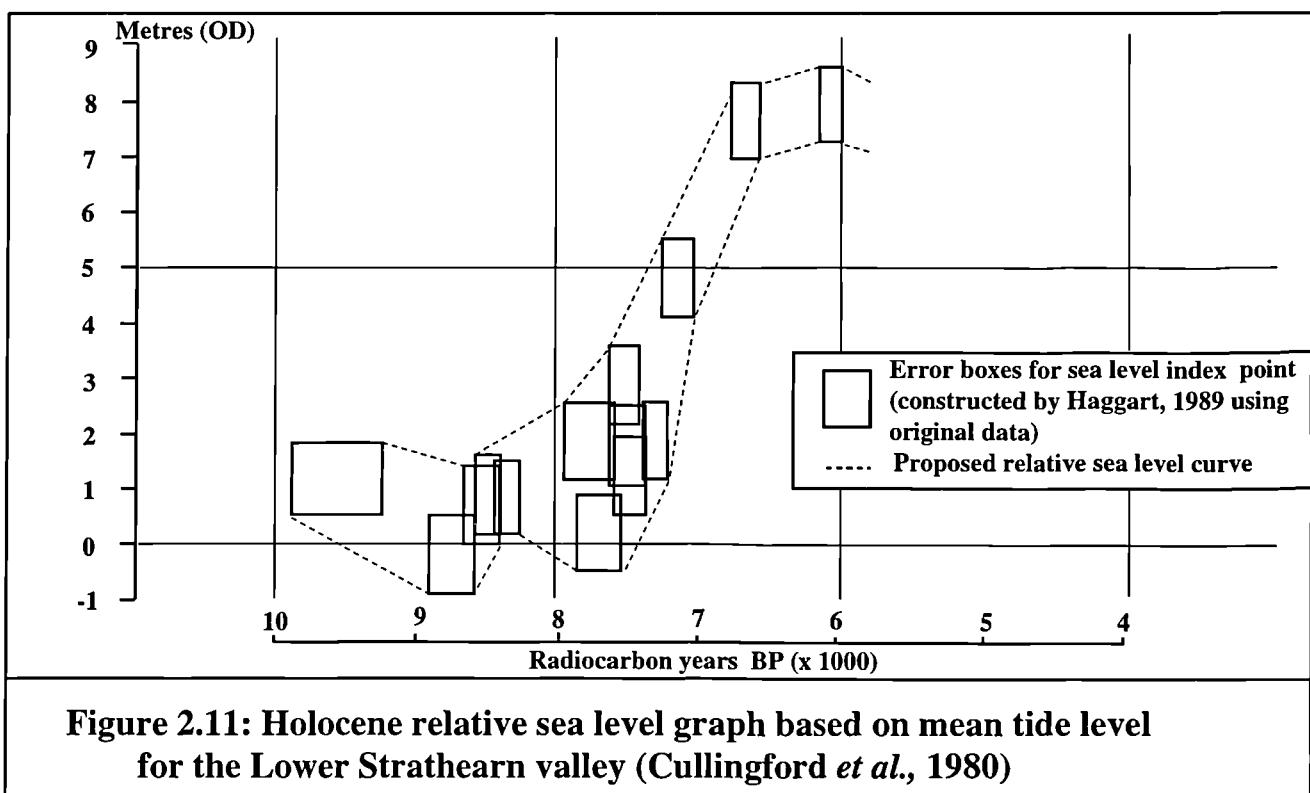
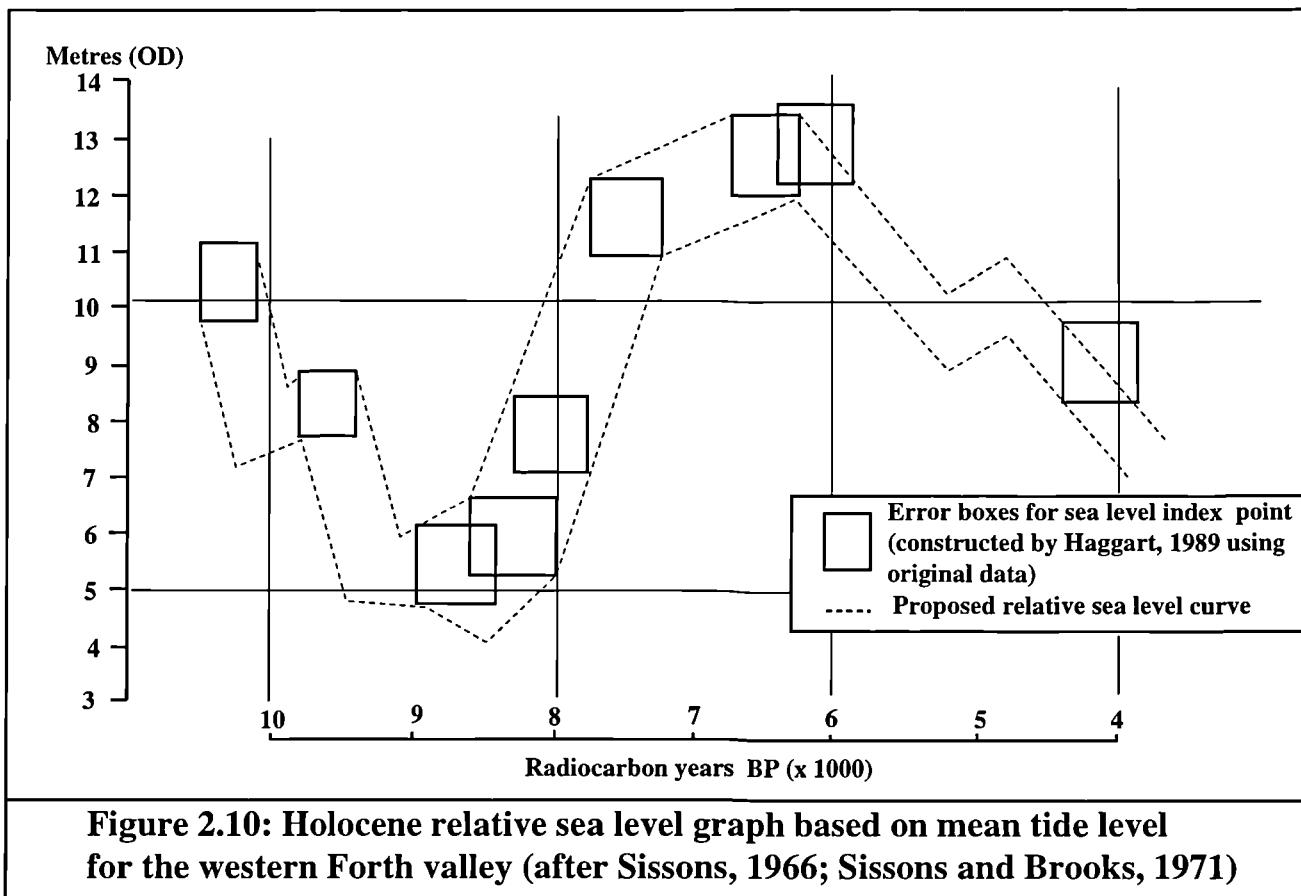


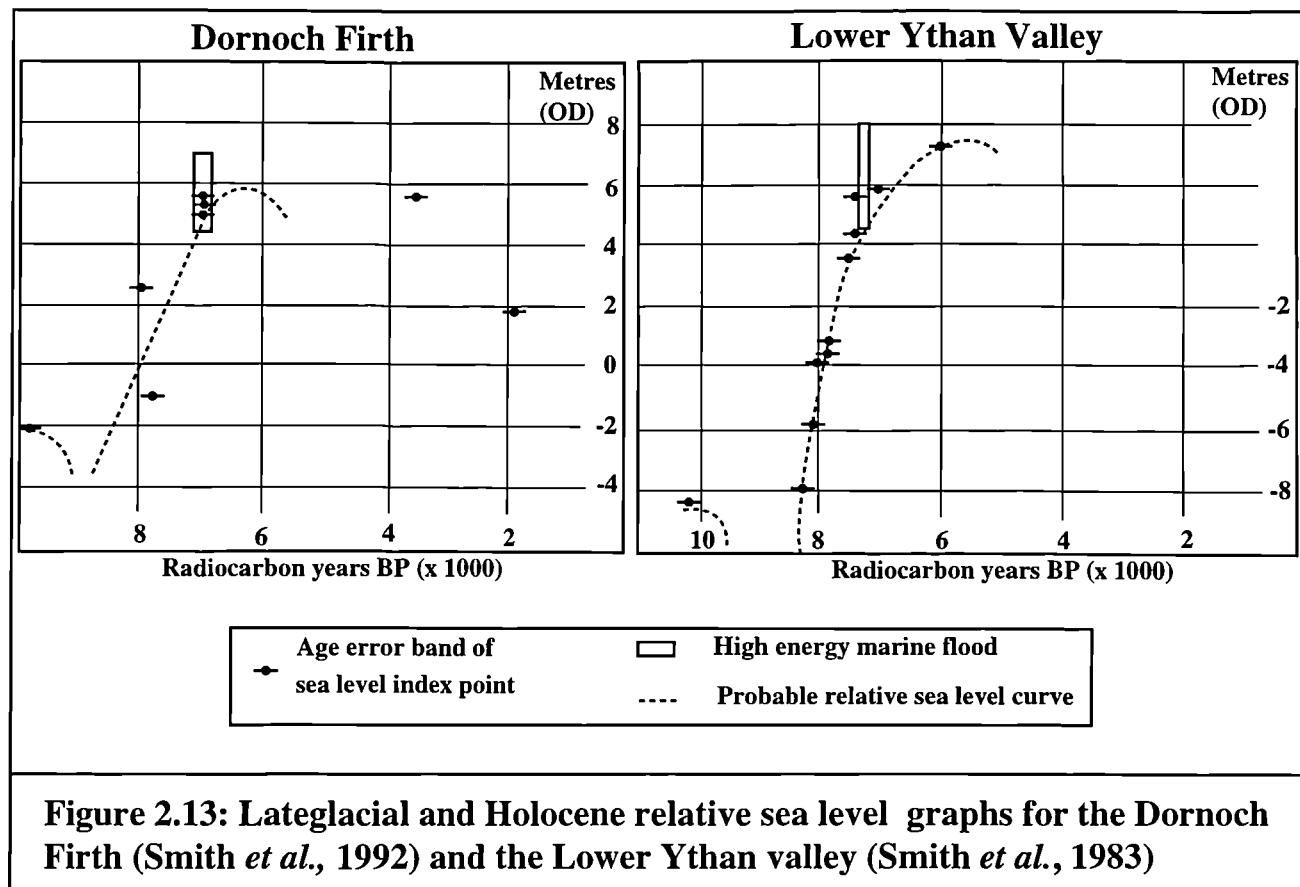
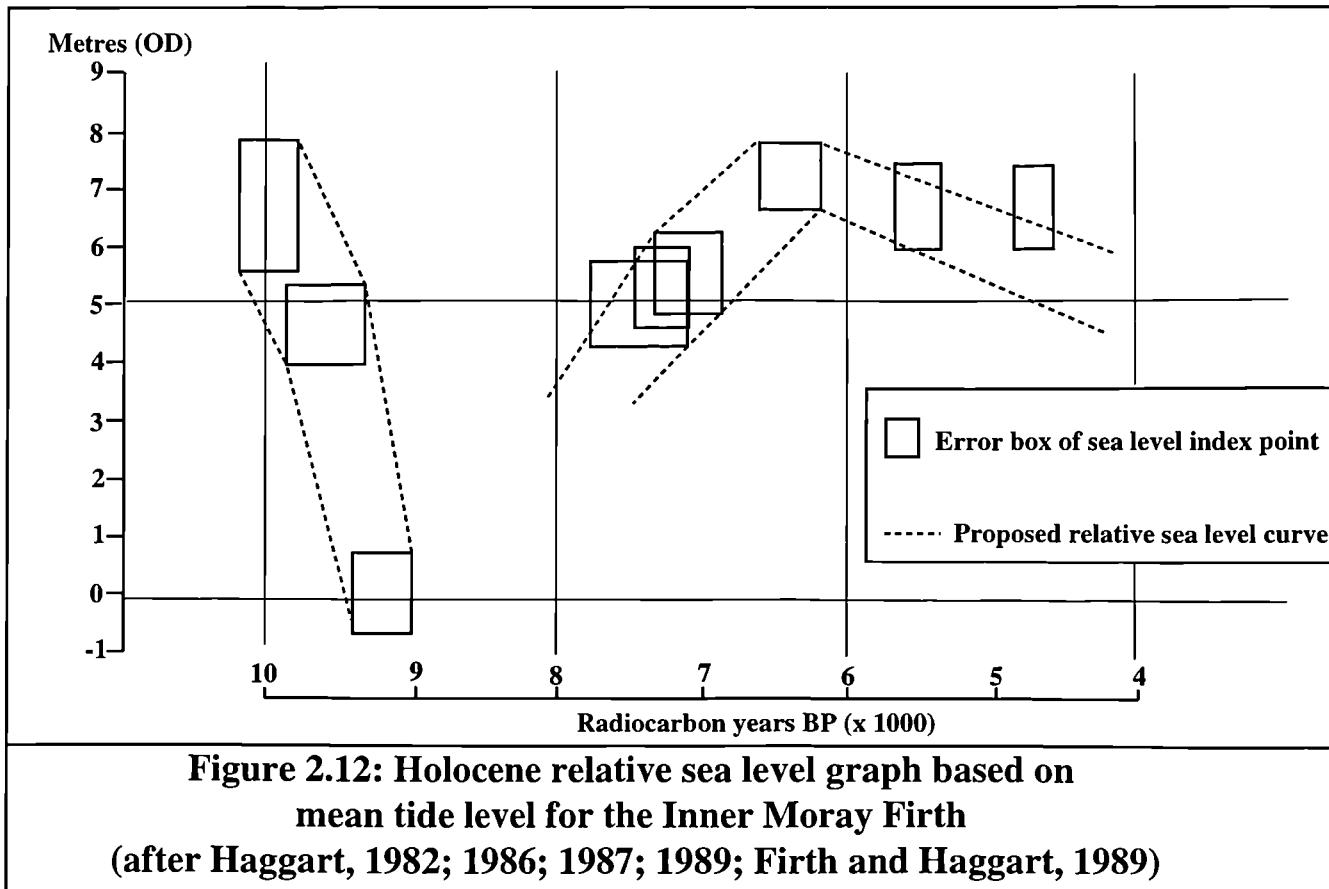
**Figure 2.6: Reconstruction of the dimensions of the Cuillin icefield and other former glaciers in the Cuillin Hills, Blà Bheinn and Red Hills during the Loch Lomond Readvance (after Ballantyne, 1989)**

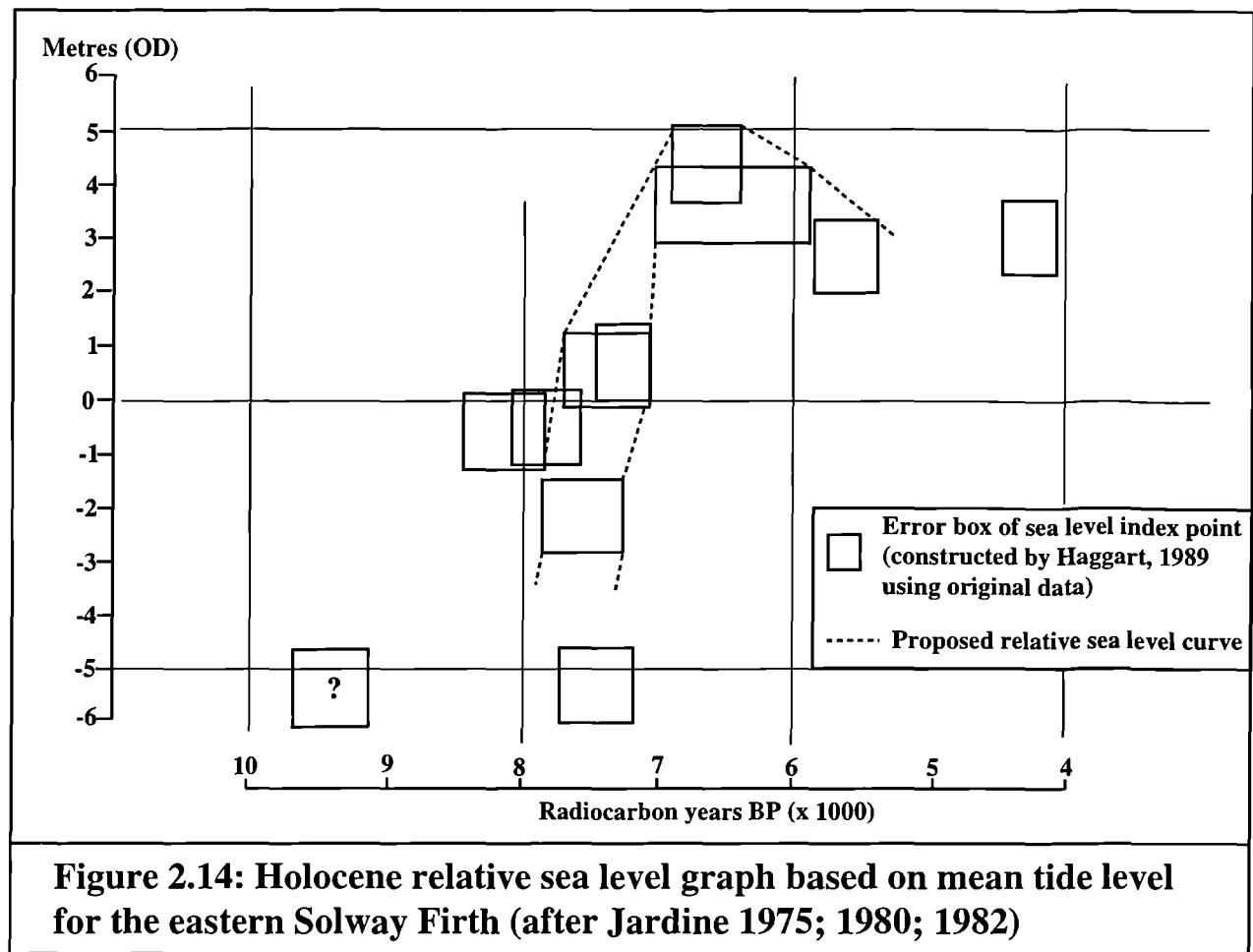


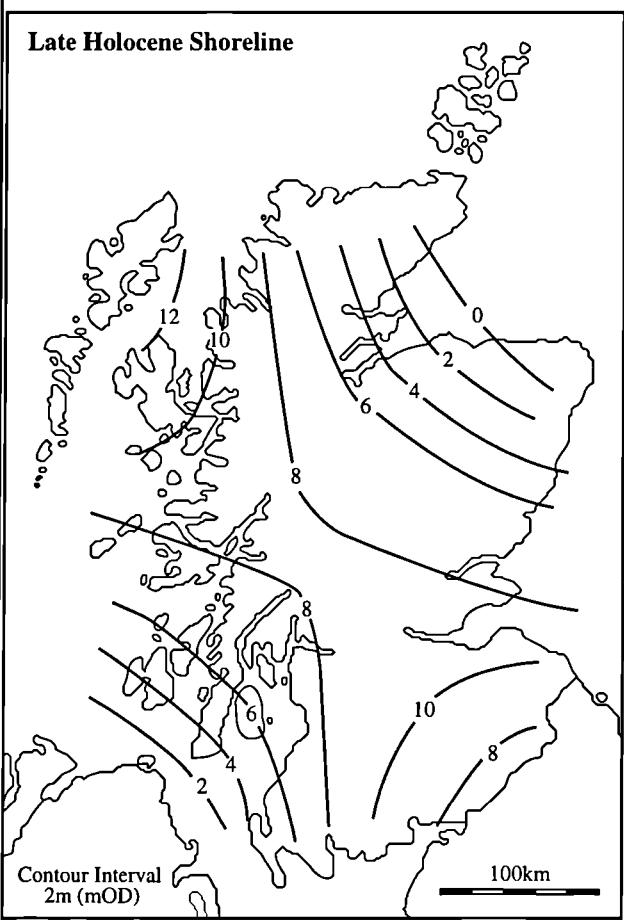
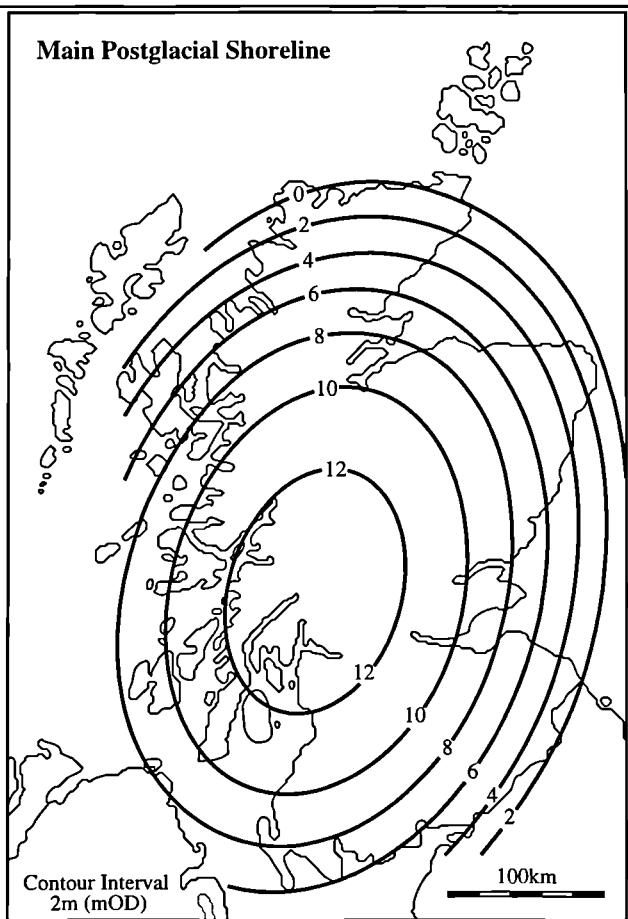
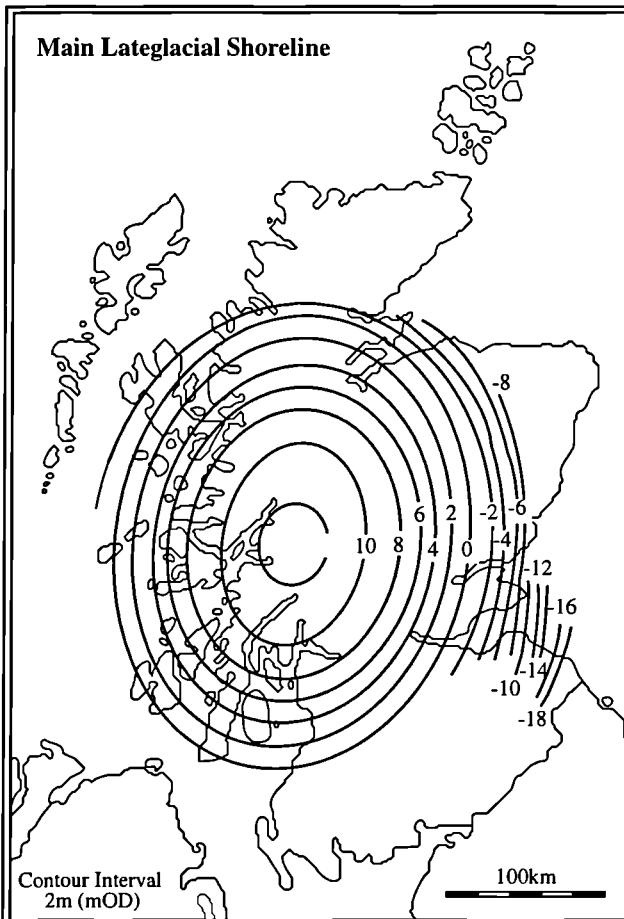
**Figure 2.7: Lateglacial and Postglacial shorelines in south-east Scotland (after Sissons *et al.*, 1966)**



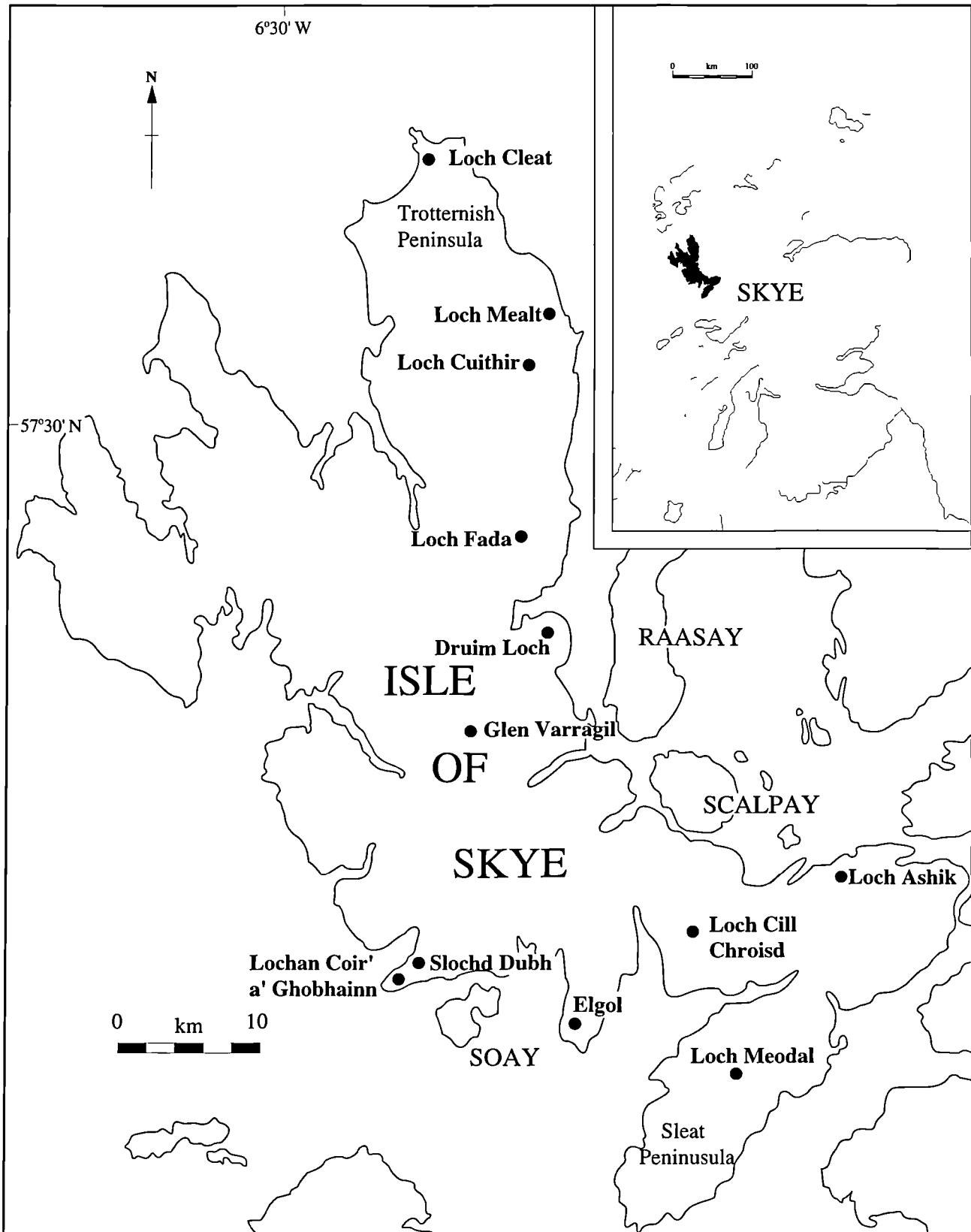






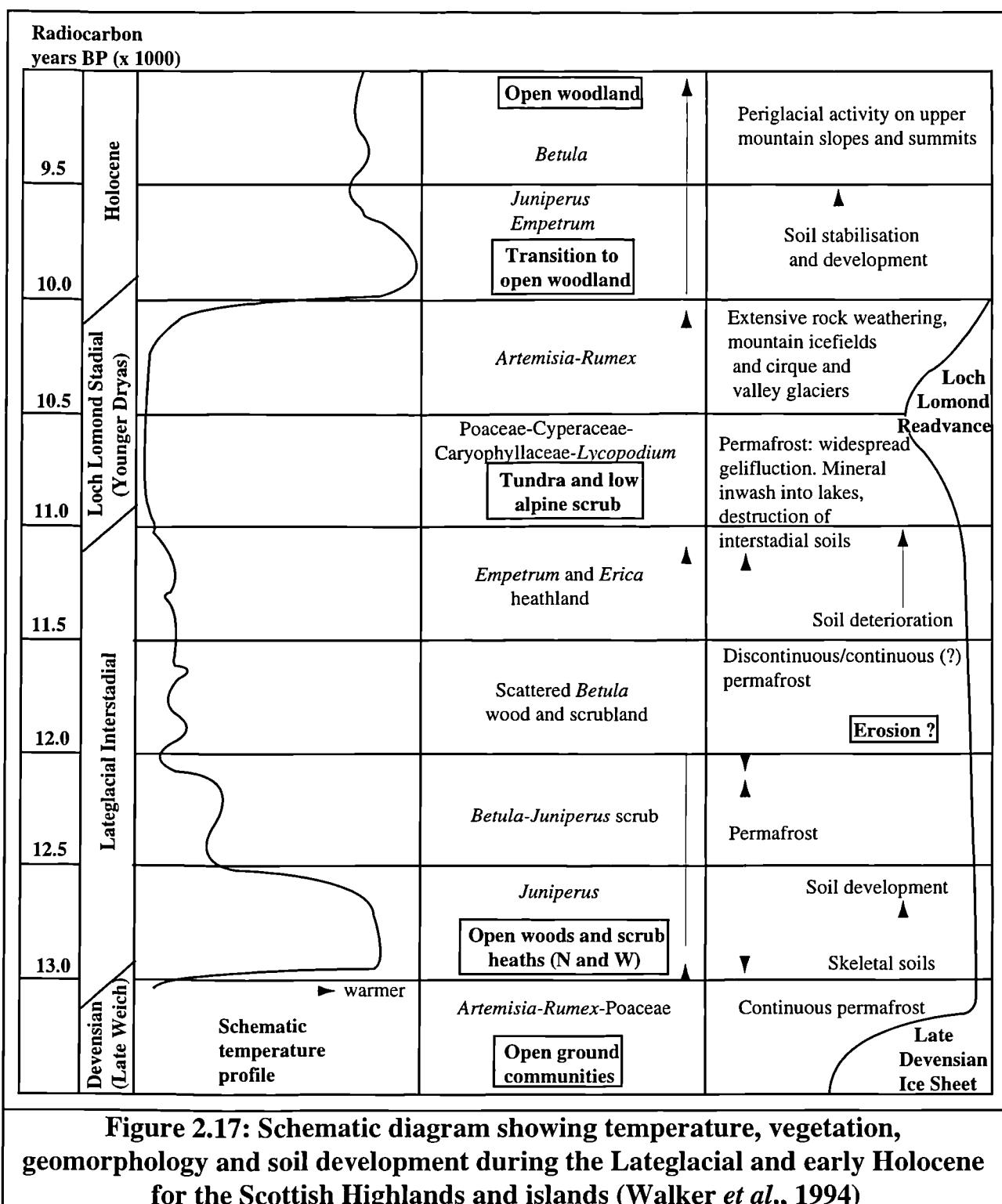


**Figure 2.15: Quadratic trend-surface maps for Scottish shorelines  
(Firth *et al.*, 1993)**

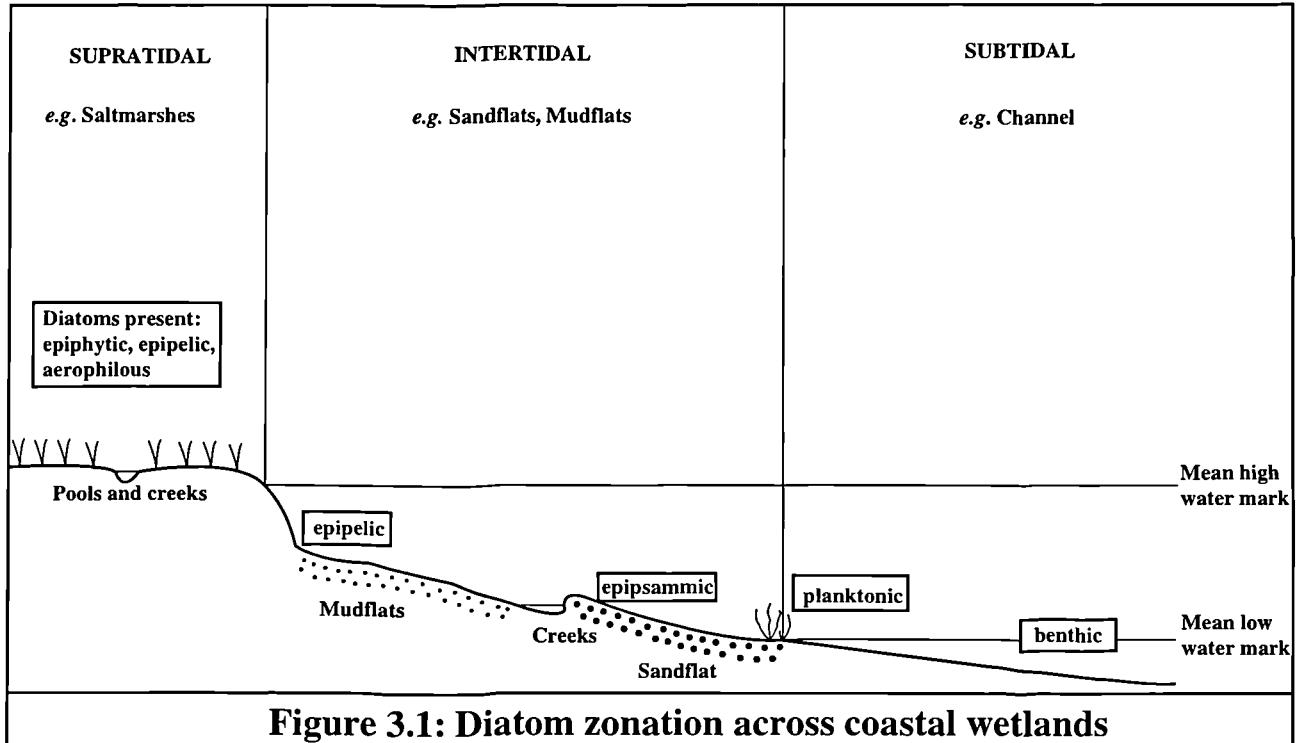


**Figure 2.16: Location of pollen sites on the Isle of Skye**

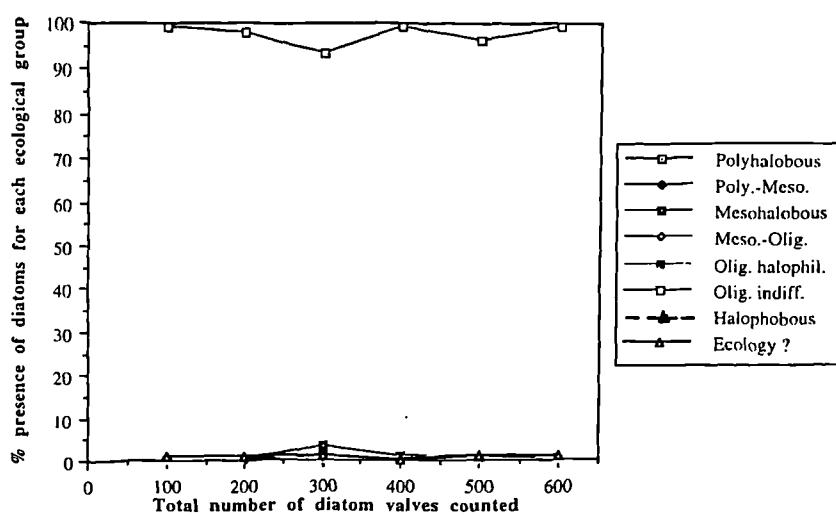
studied by previous authors



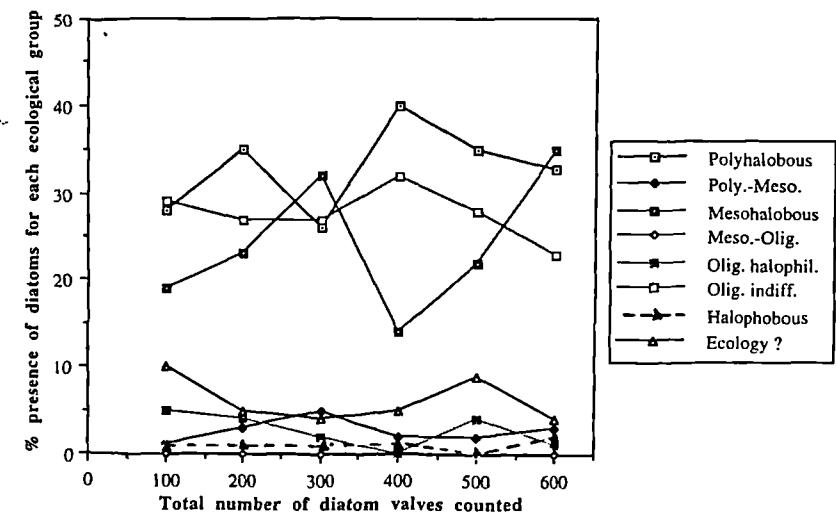
**Figure 2.17: Schematic diagram showing temperature, vegetation, geomorphology and soil development during the Lateglacial and early Holocene for the Scottish Highlands and islands (Walker *et al.*, 1994)**



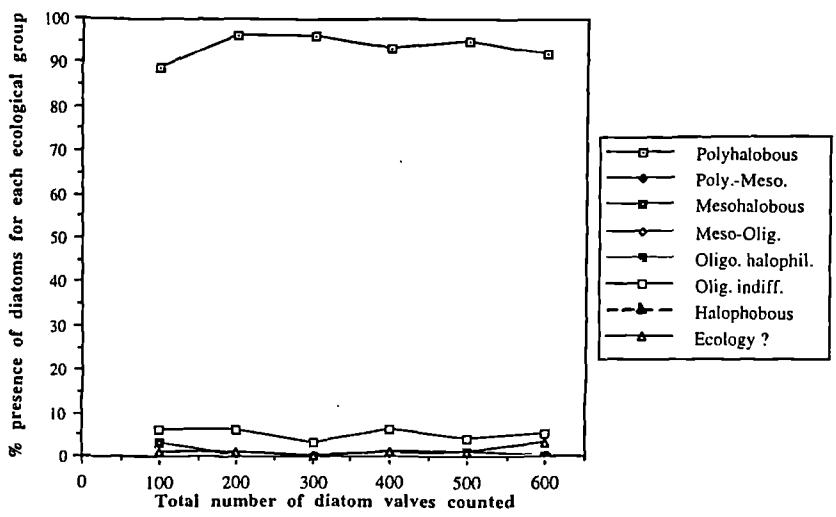
**Level 300cm (4.52mOD), a freshwater deposit**



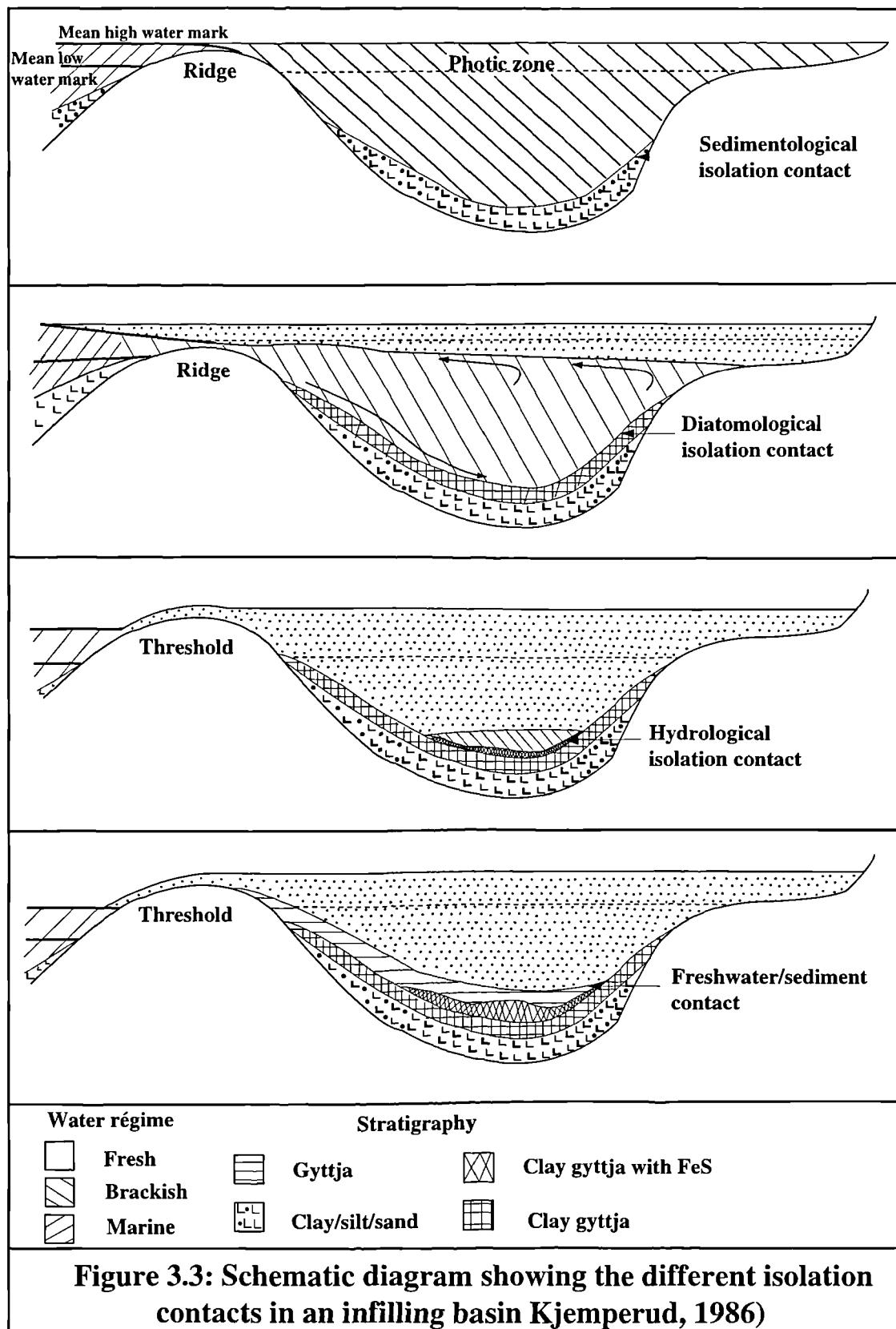
**Level 593cm (1.59mOD), a mixed community deposit**

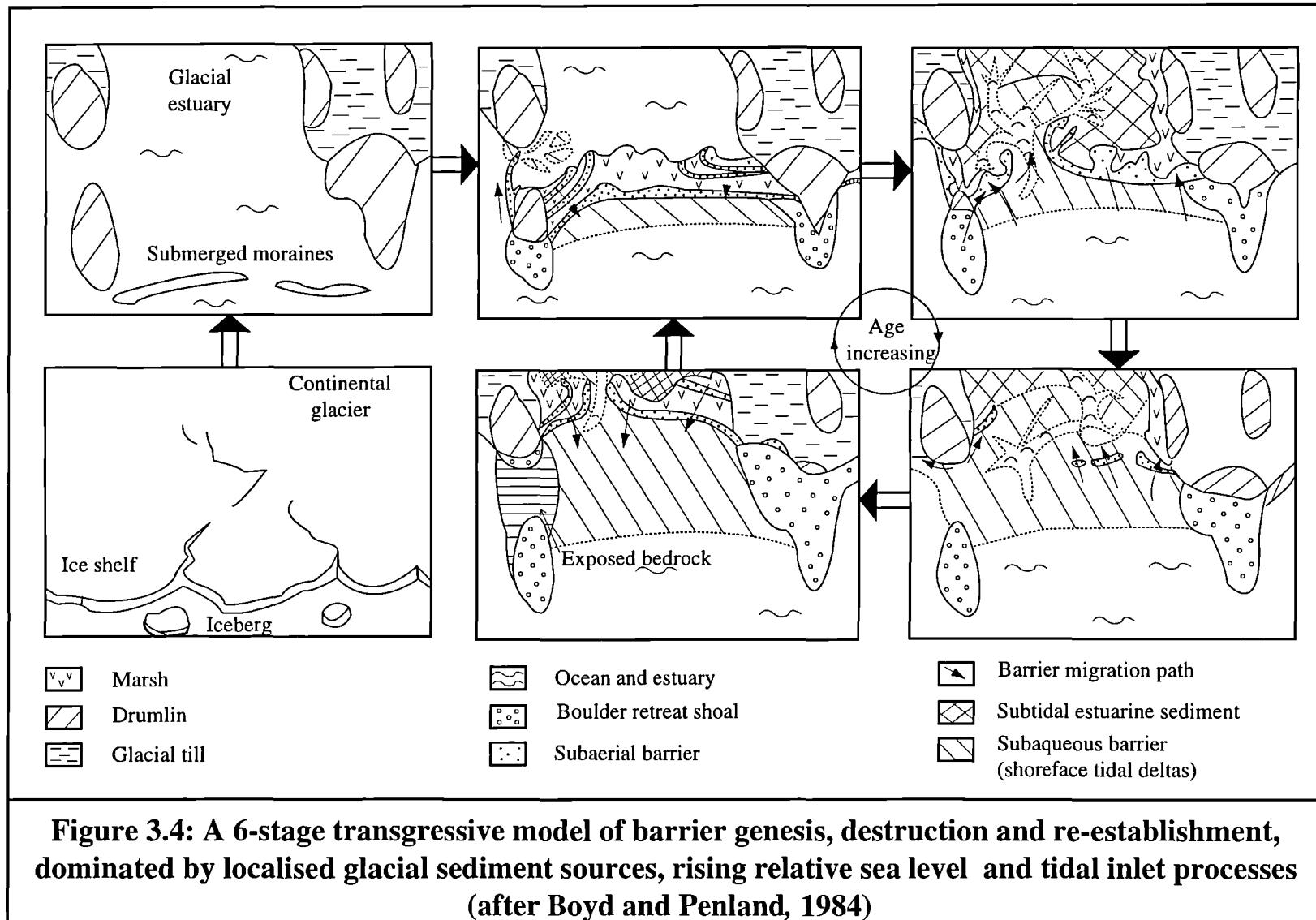


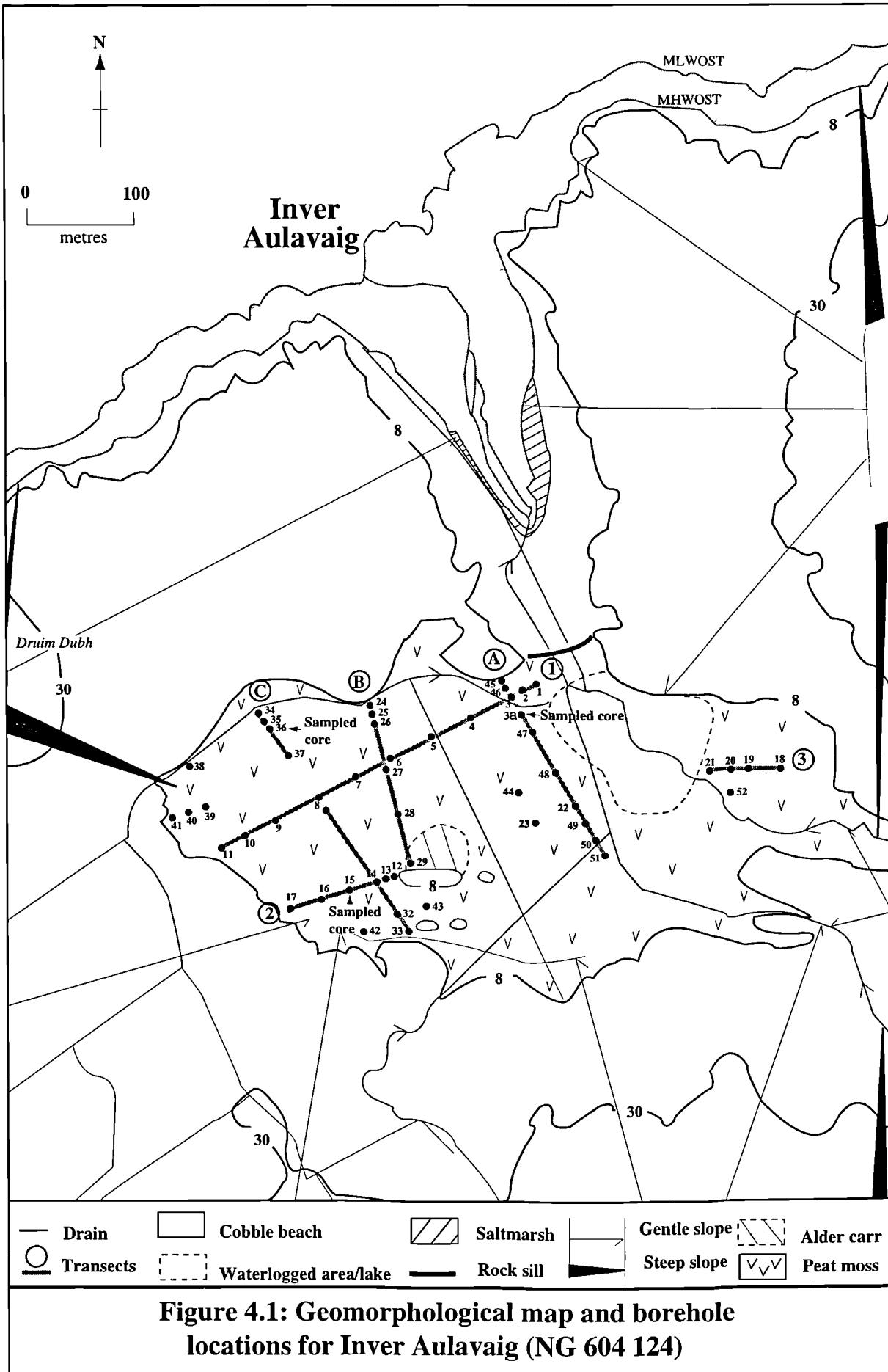
**Level 602cm (1.50mOD), a marine deposit**

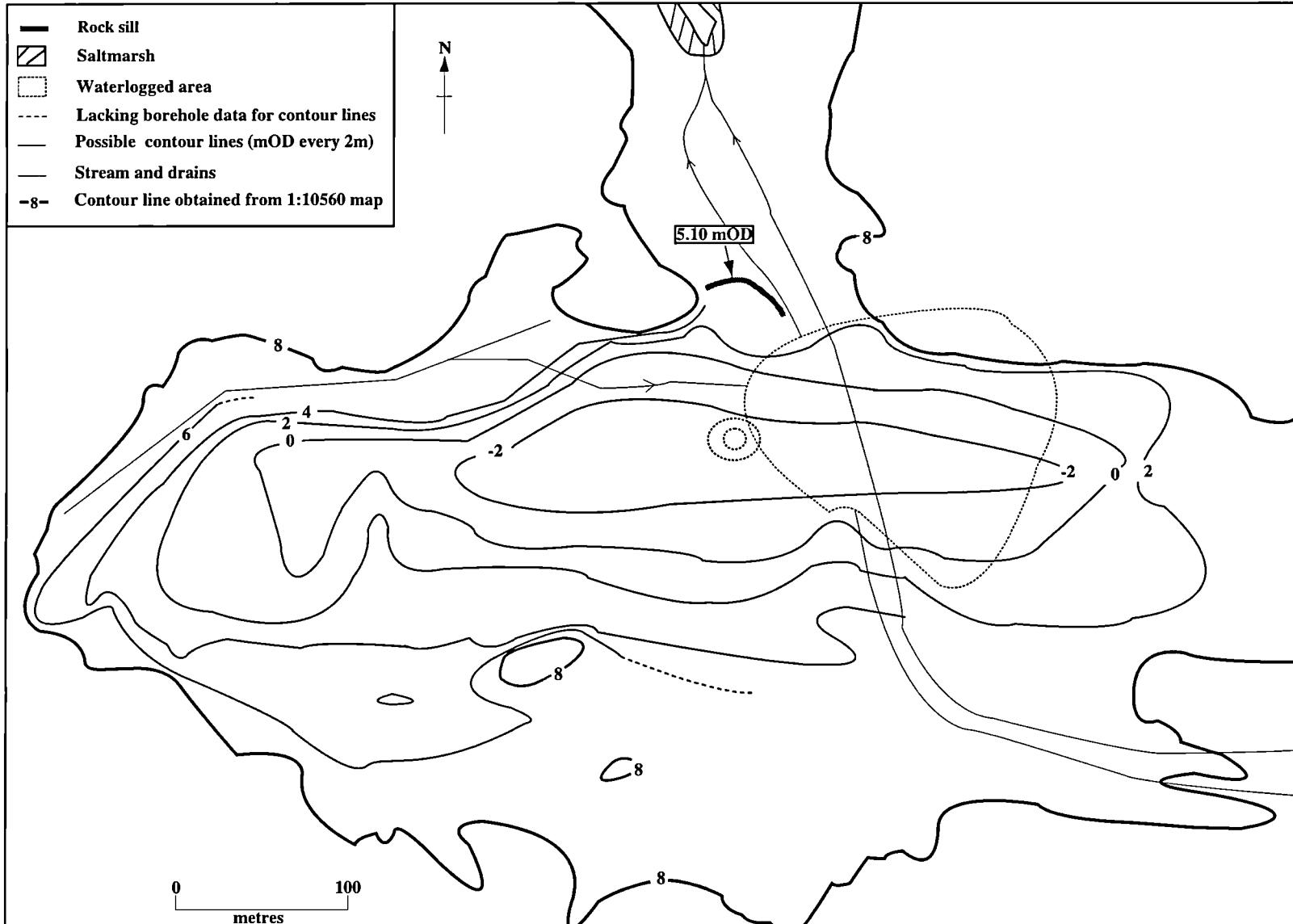


**Figure 3.2: Results of statistical tests for diatom counts at Inver Aulavaig, borehole 36**

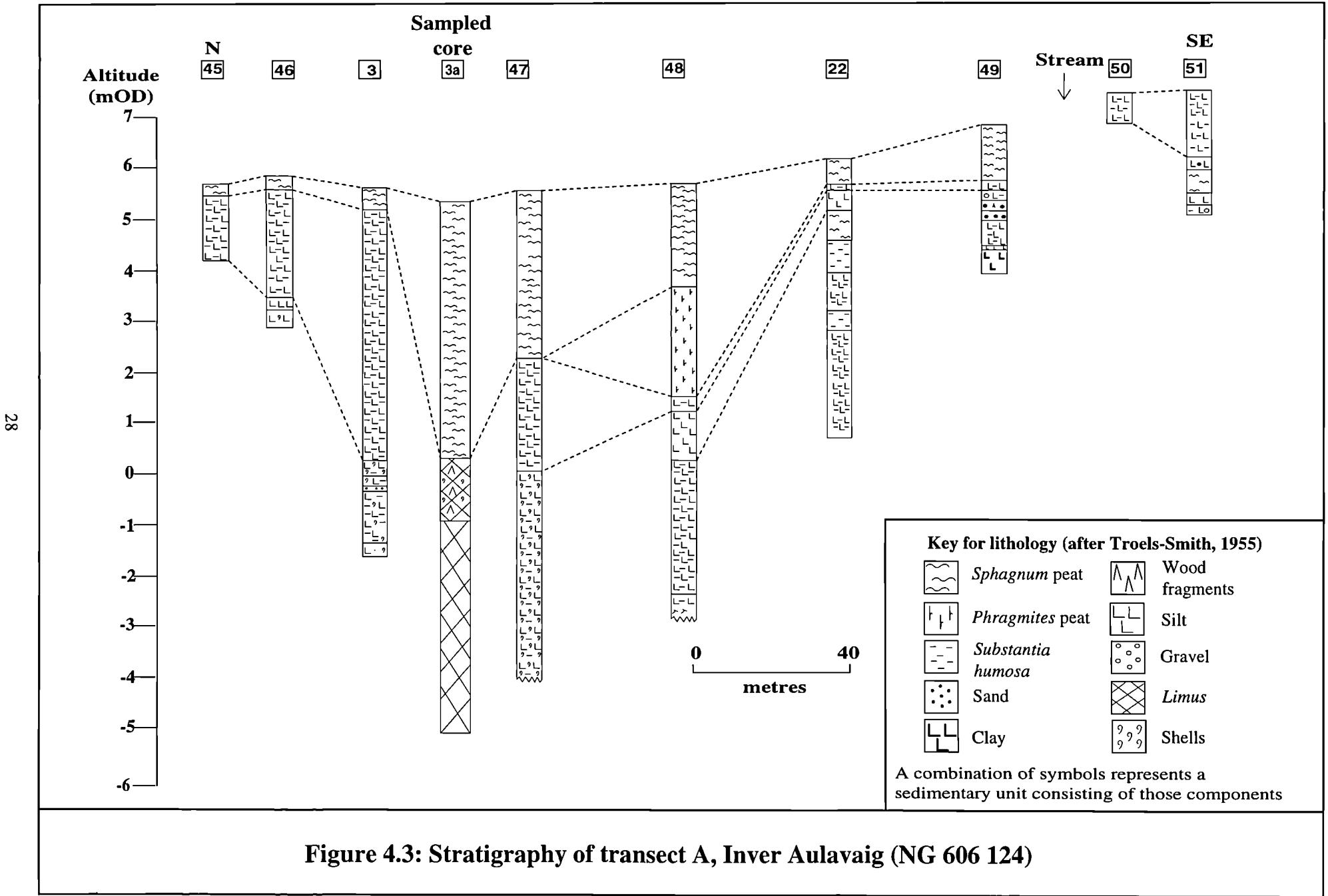








**Figure 4.2: Extrapolated basal contours from borehole data  
beneath the peat moss at Inver Aulavaig**



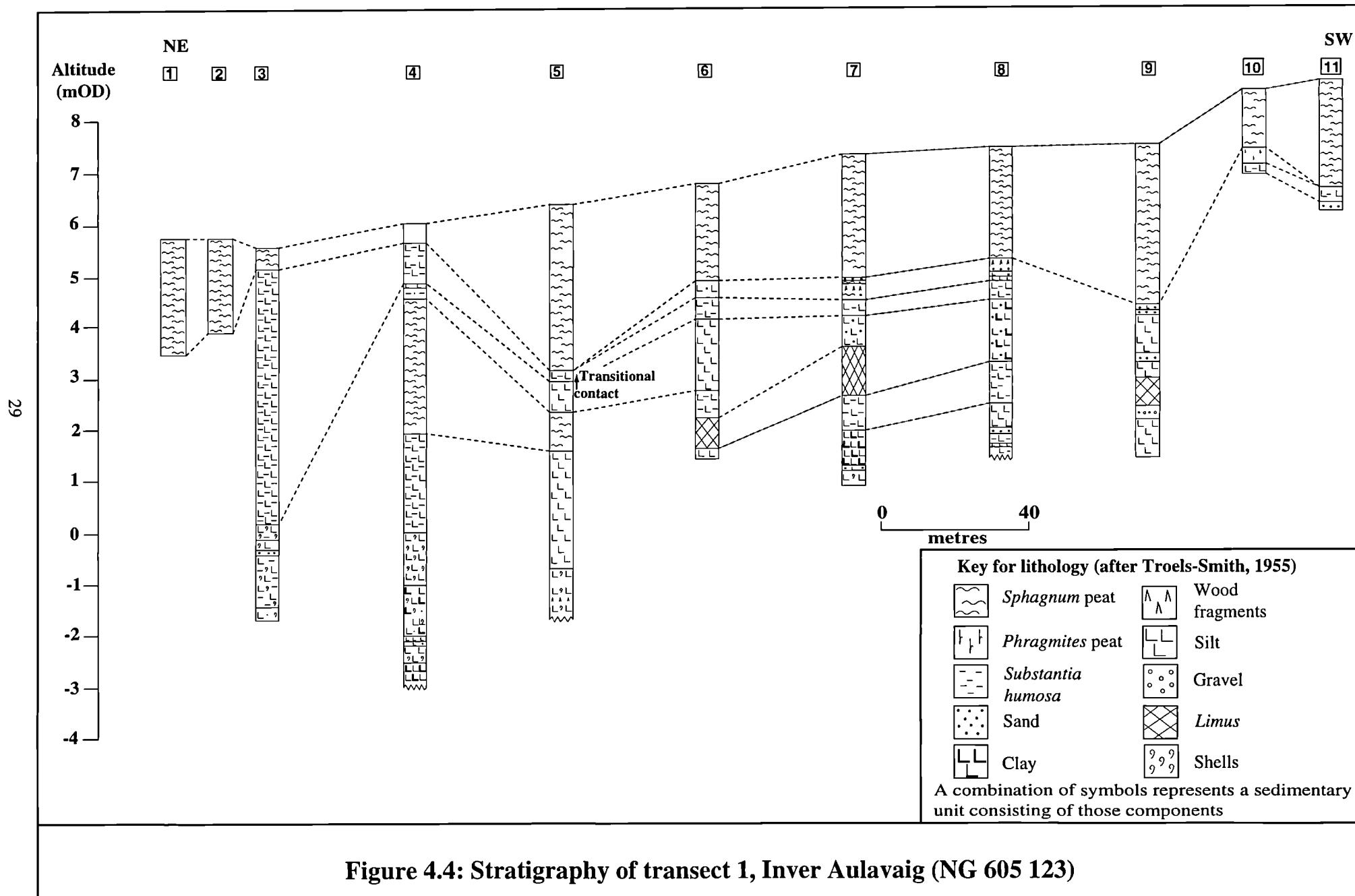
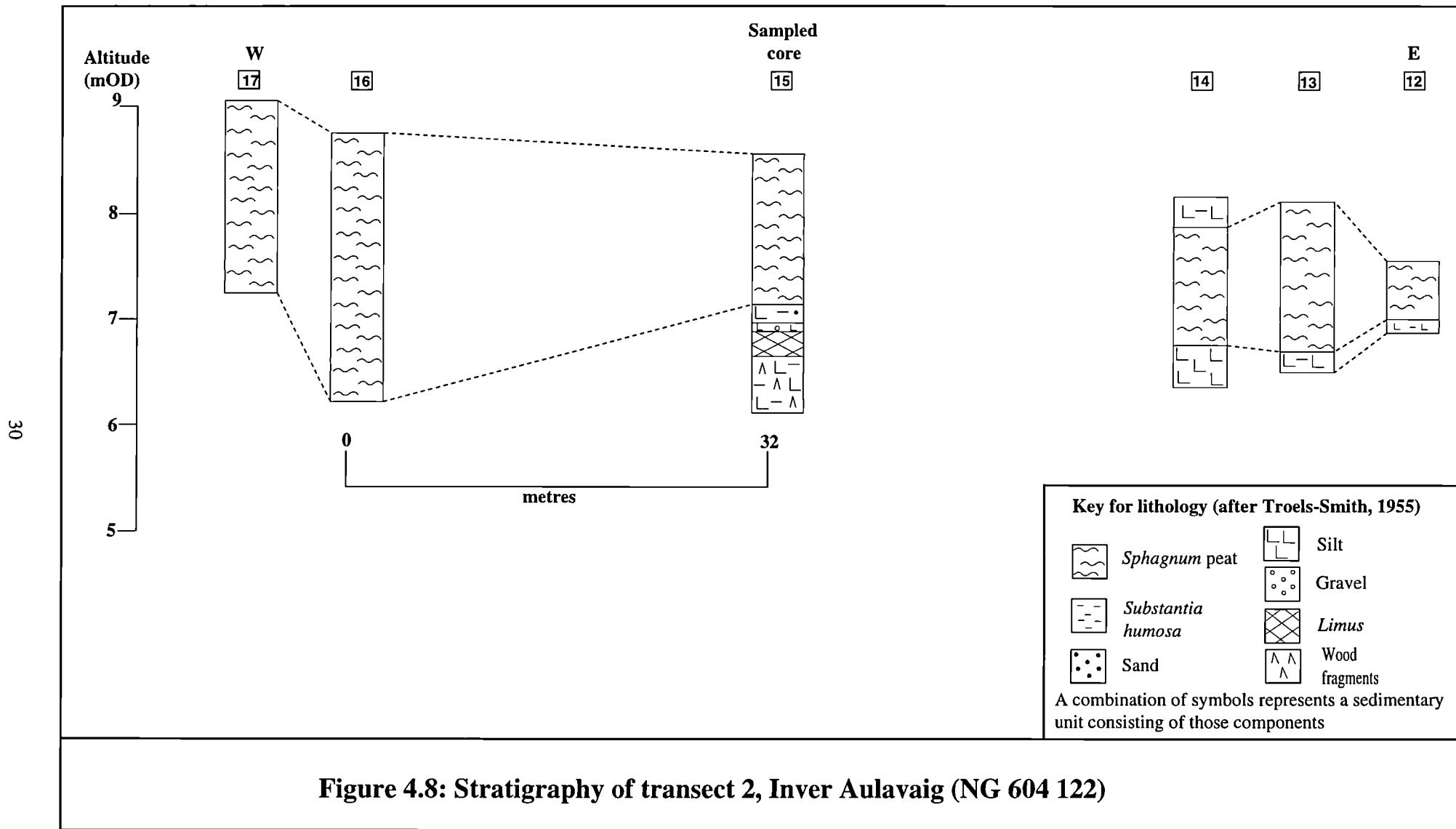


Figure 4.4: Stratigraphy of transect 1, Inver Aulavaig (NG 605 123)



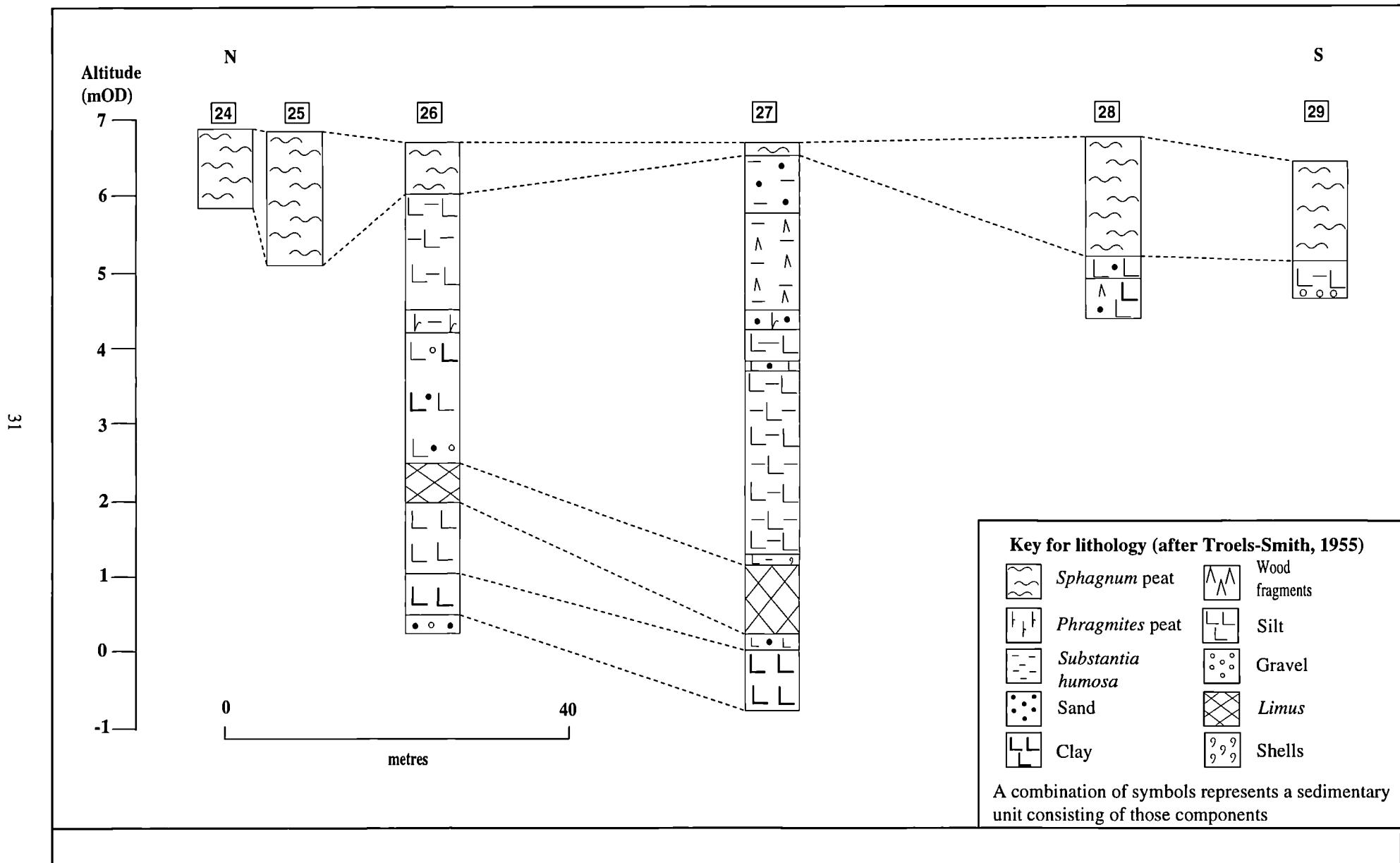
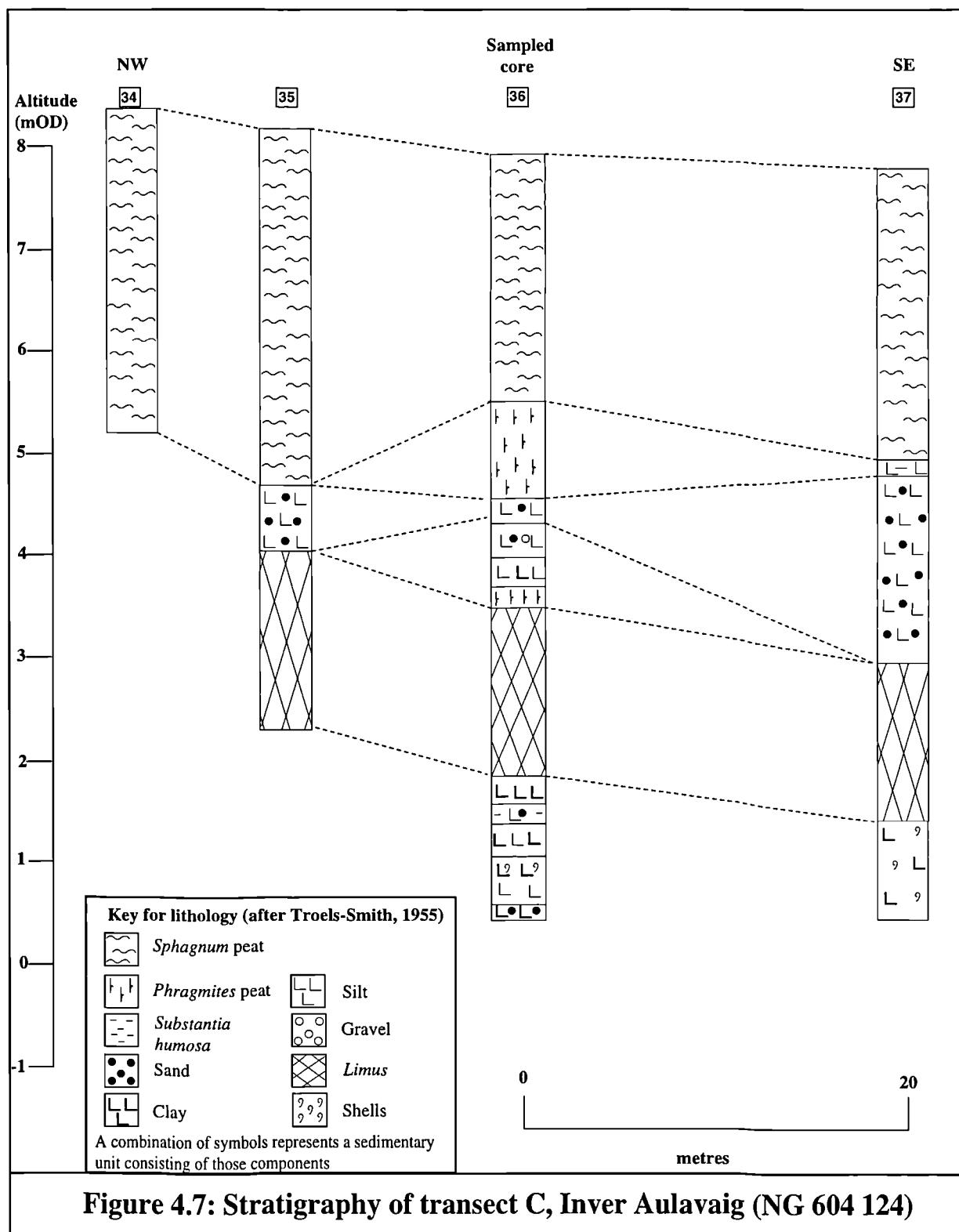
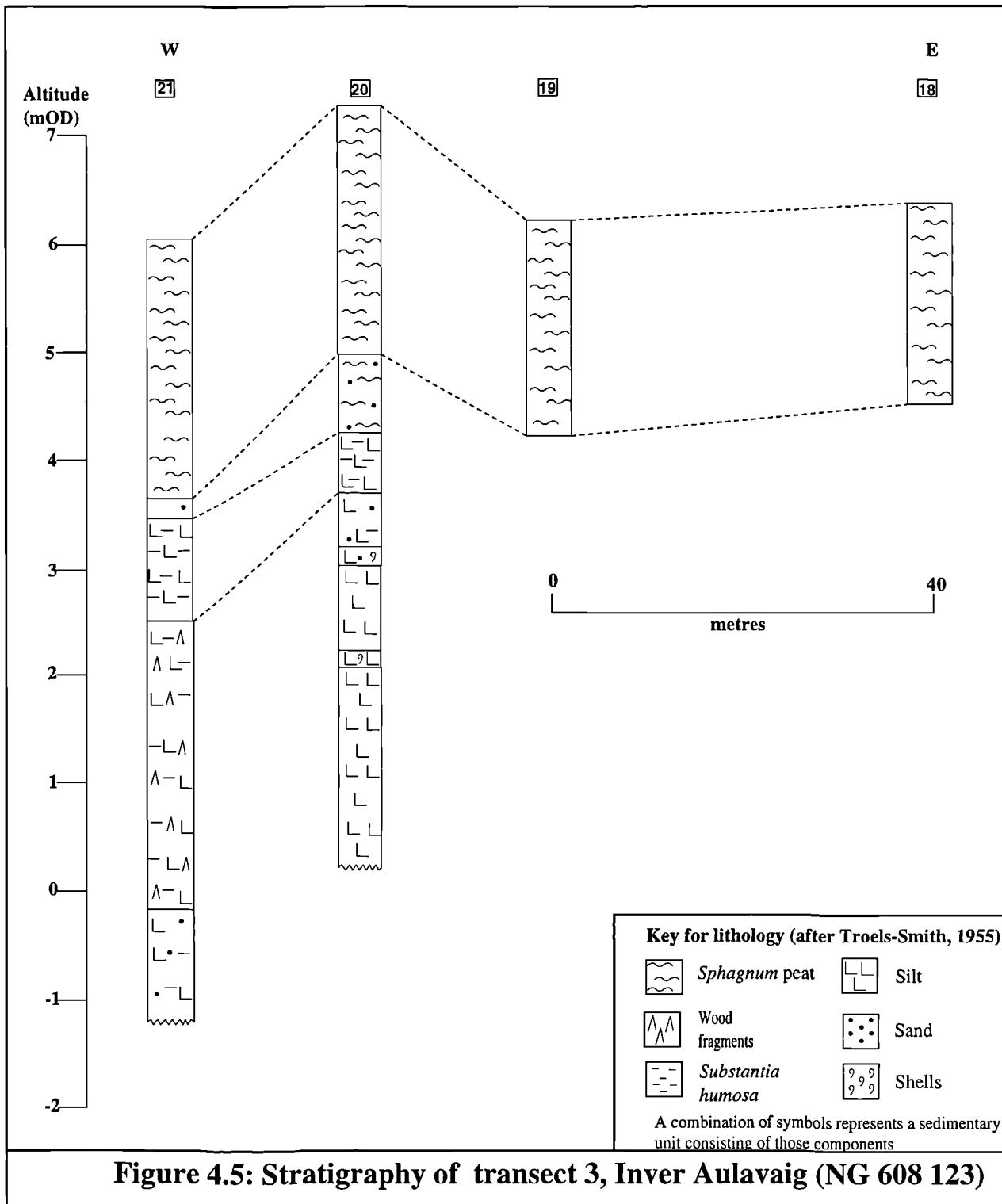


Figure 4.6: Stratigraphy of transect B, Inver Aulavaig (NG 604 123)



**Figure 4.7: Stratigraphy of transect C, Inver Aulavaig (NG 604 124)**



**Figure 4.9: High and low level loss on ignition  
Altitude for borehole 36, Inver Aulavaig  
(mOD)**

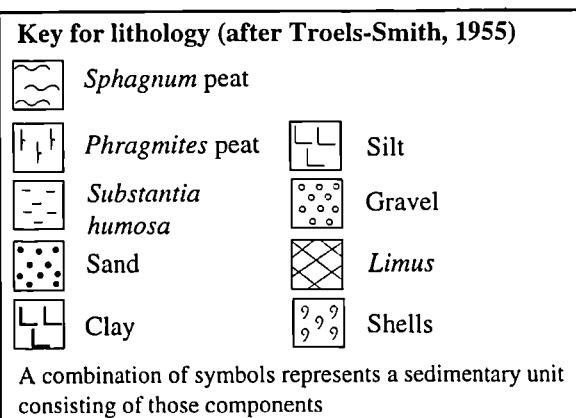
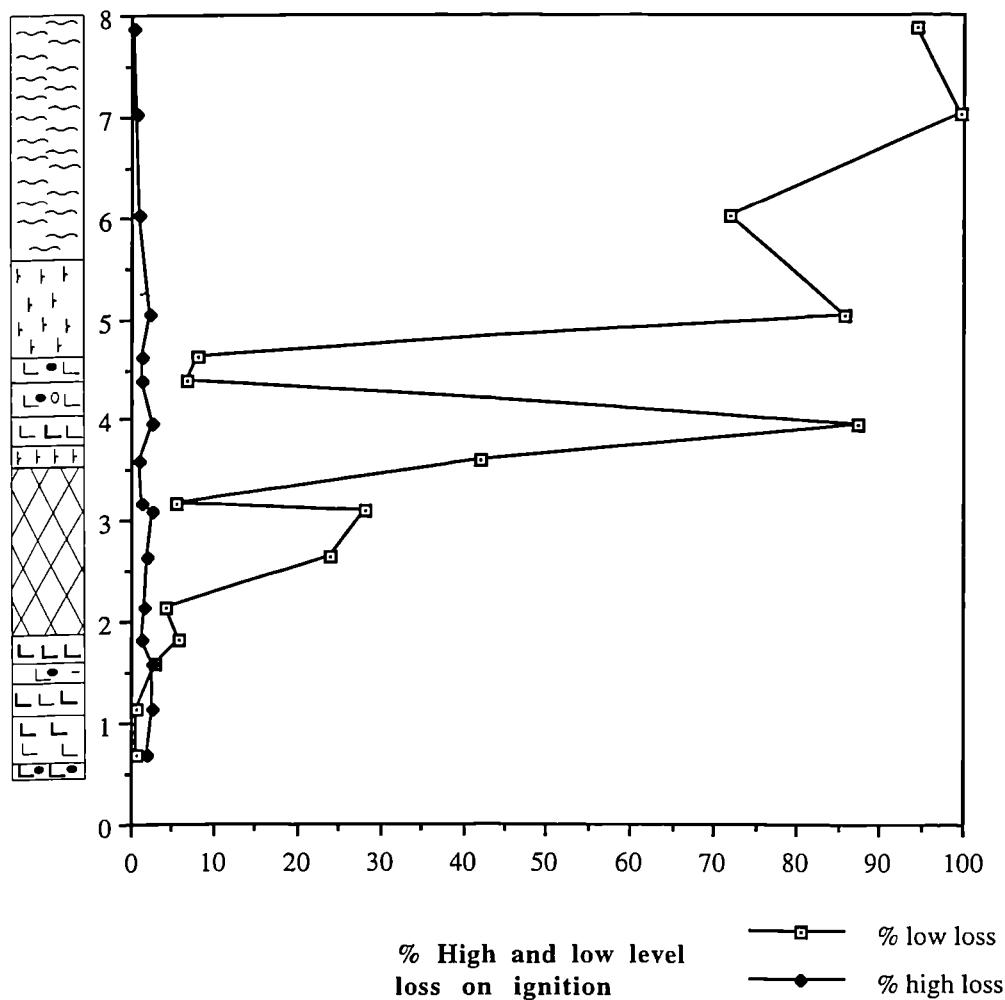


Figure 4.10: Percentage pollen assemblage for Inver Aulavaig

Borehole 36 (NG 6032 1234)  
Surface height 7.86m±0

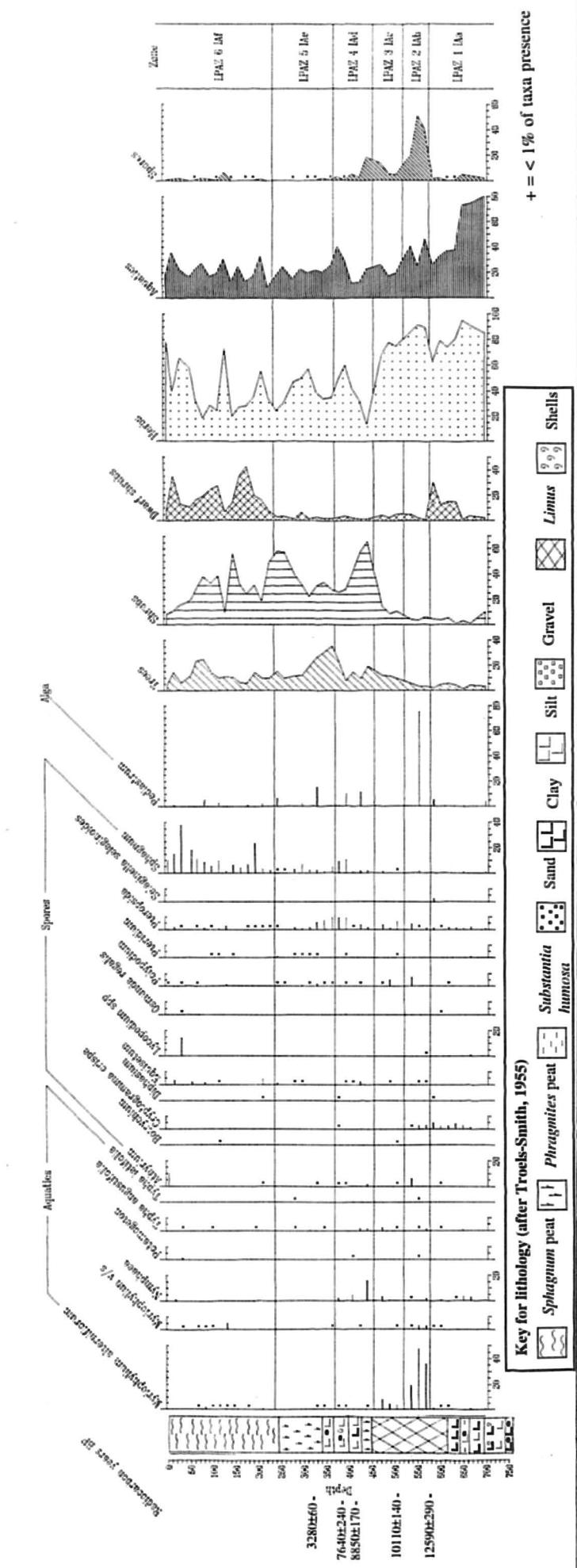
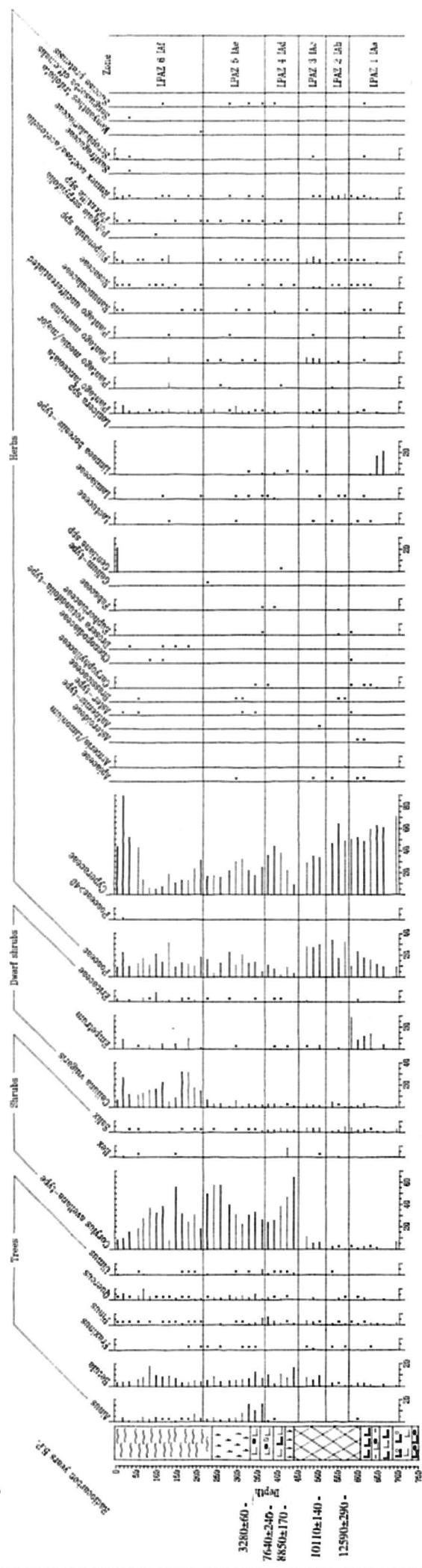


Figure 4.11: Percentage pollen assemblage for Inver Aulavaig

Borehole: 3a (NC 6055 1238)  
Surface height: 523m00

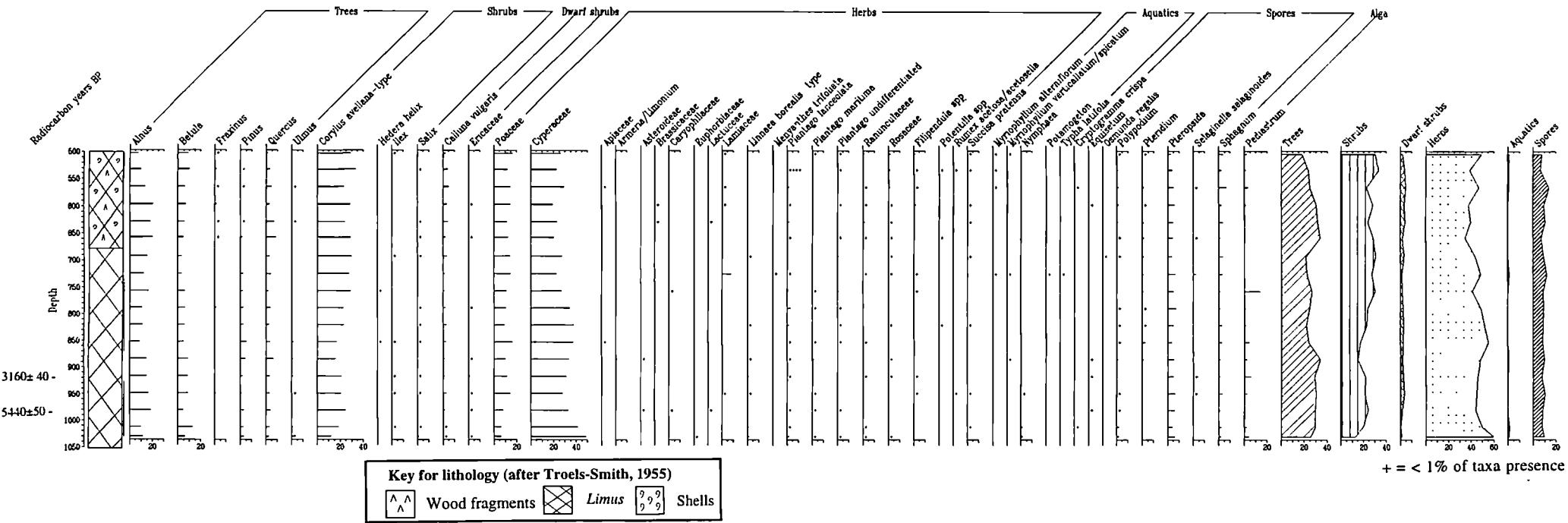


Figure 4.12: Percentage pollen assemblage for Inver Aulavaig  
 Borehole 15 (NG 6039 1221)  
 Surface height 826mOD

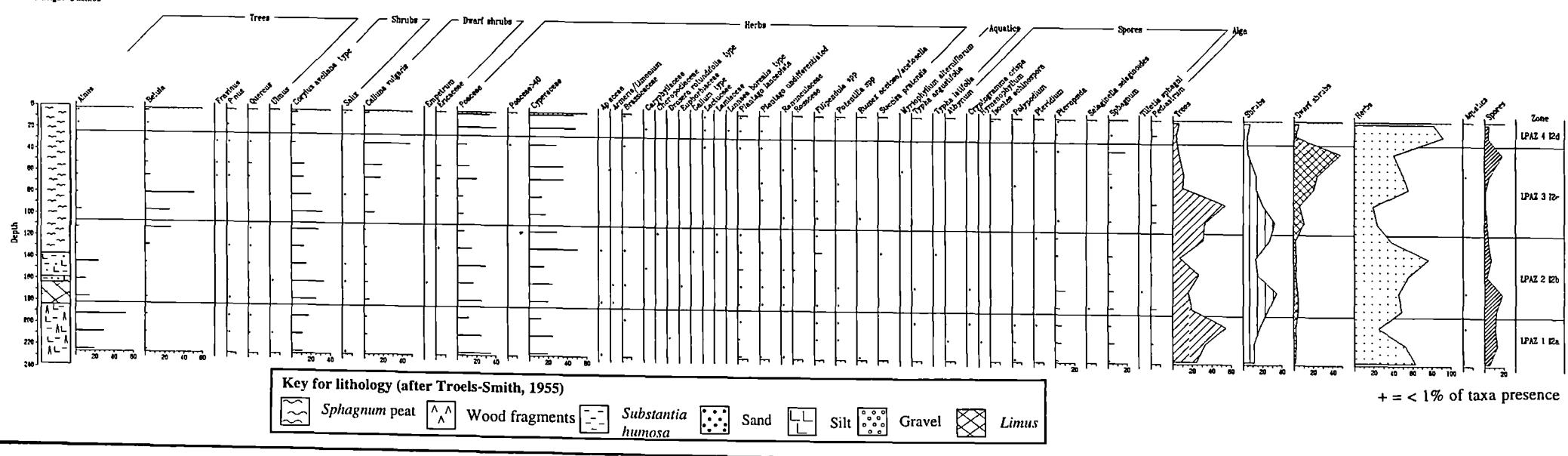


Figure 4.13: Summary percentage diatom assemblage and taxa over 5% for Inver Aulavaig

Borehole 36 (NG 8056 1240)  
Surface height: 798m OD

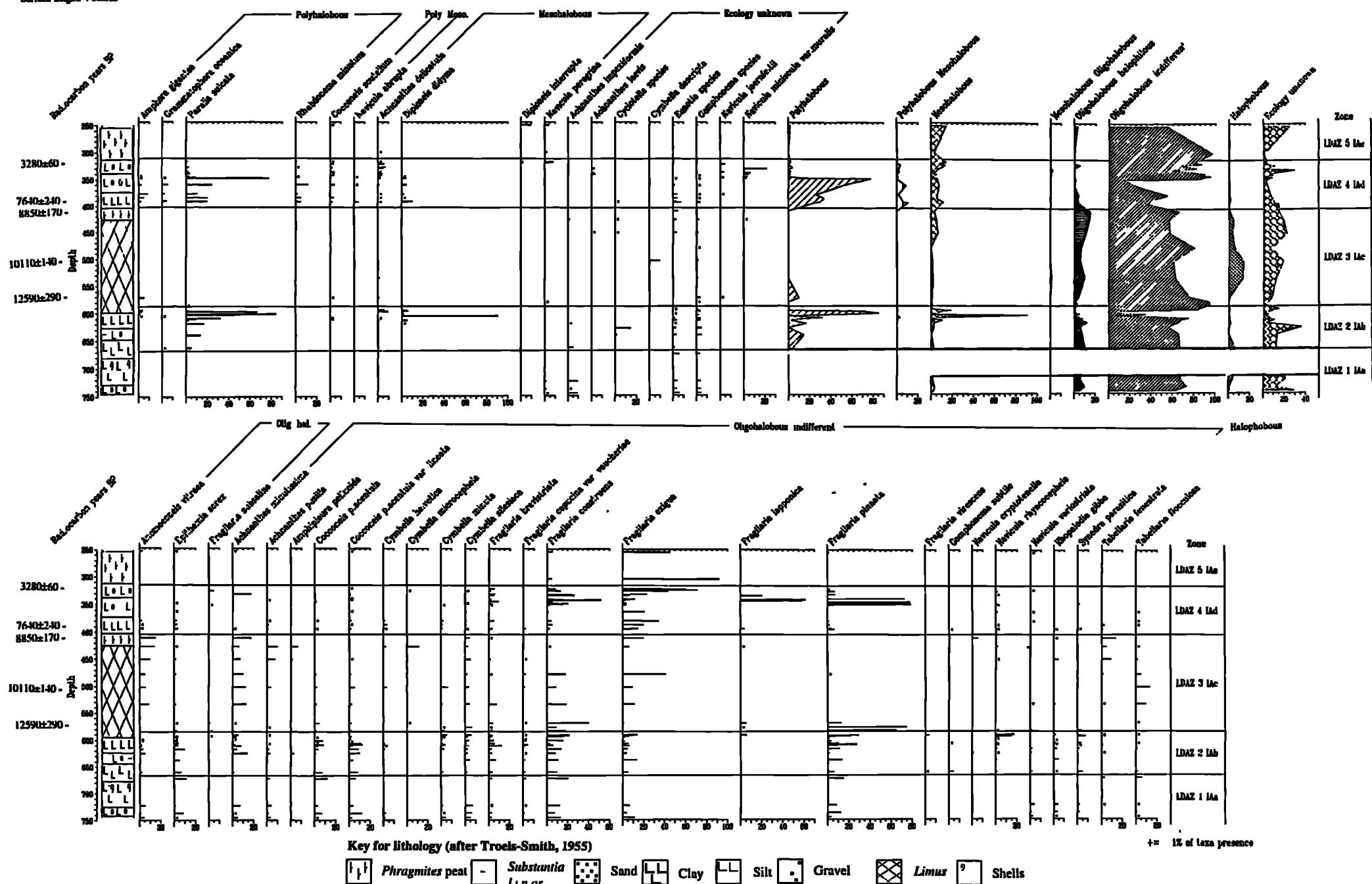


Figure 4.14: Summary percentage diatom assemblage and taxa over 5% for Inver Aulavaig.

Borehole 3a (NG 6055 1238)  
Surface height: 523mOD

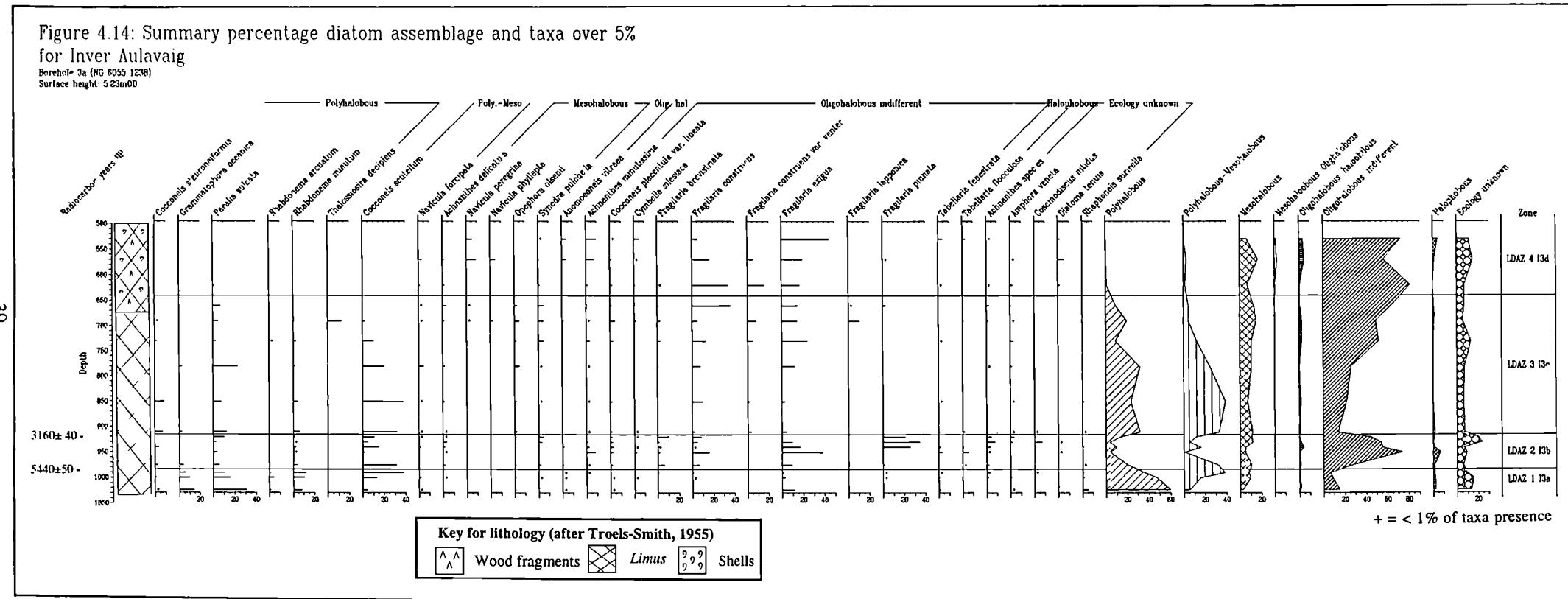
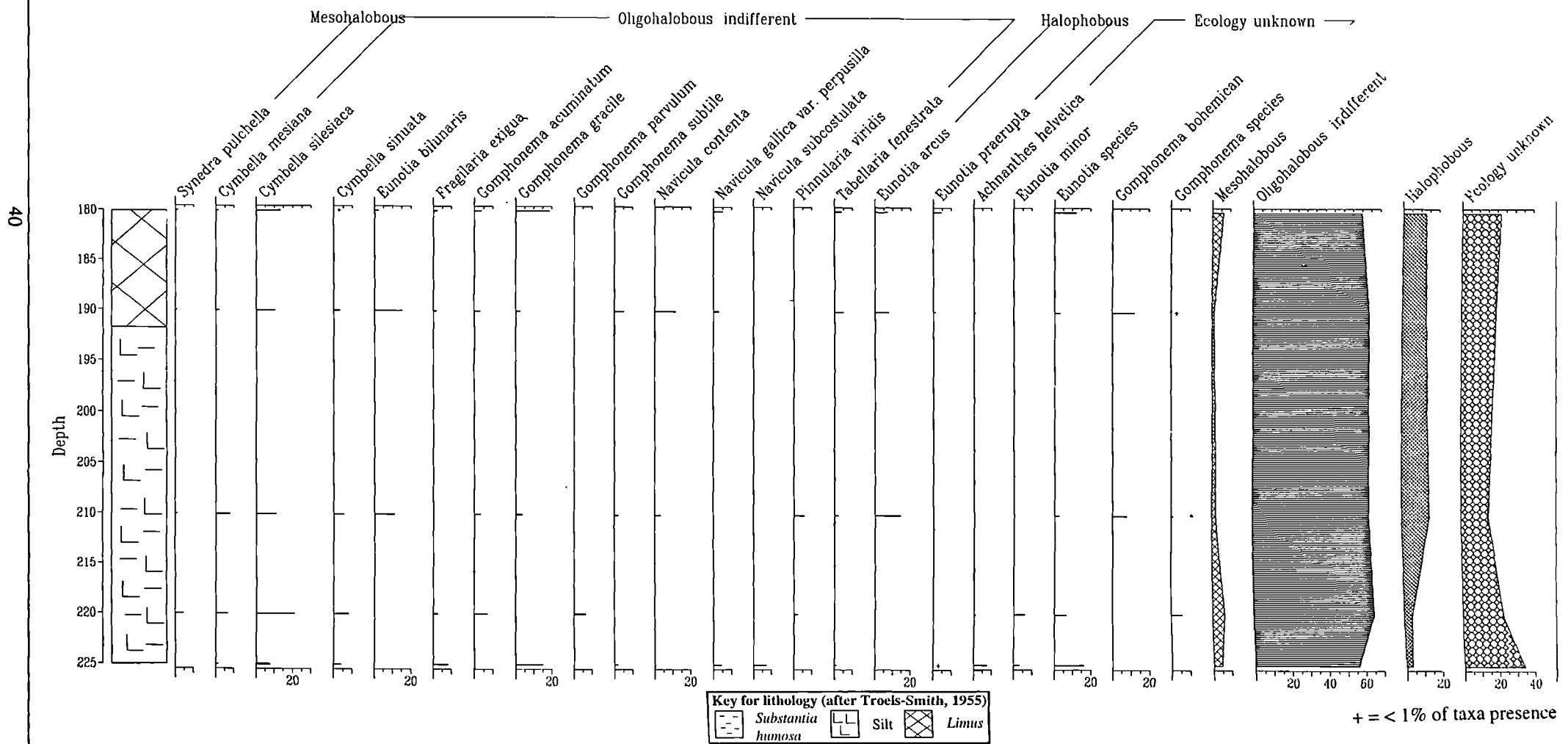


Figure 4.15: Summary percentage diatom assemblage and taxa over 5% for Inver Aulavaig

Borehole: 15 (NG 6039 1221)

Surface height: 8.26mOD



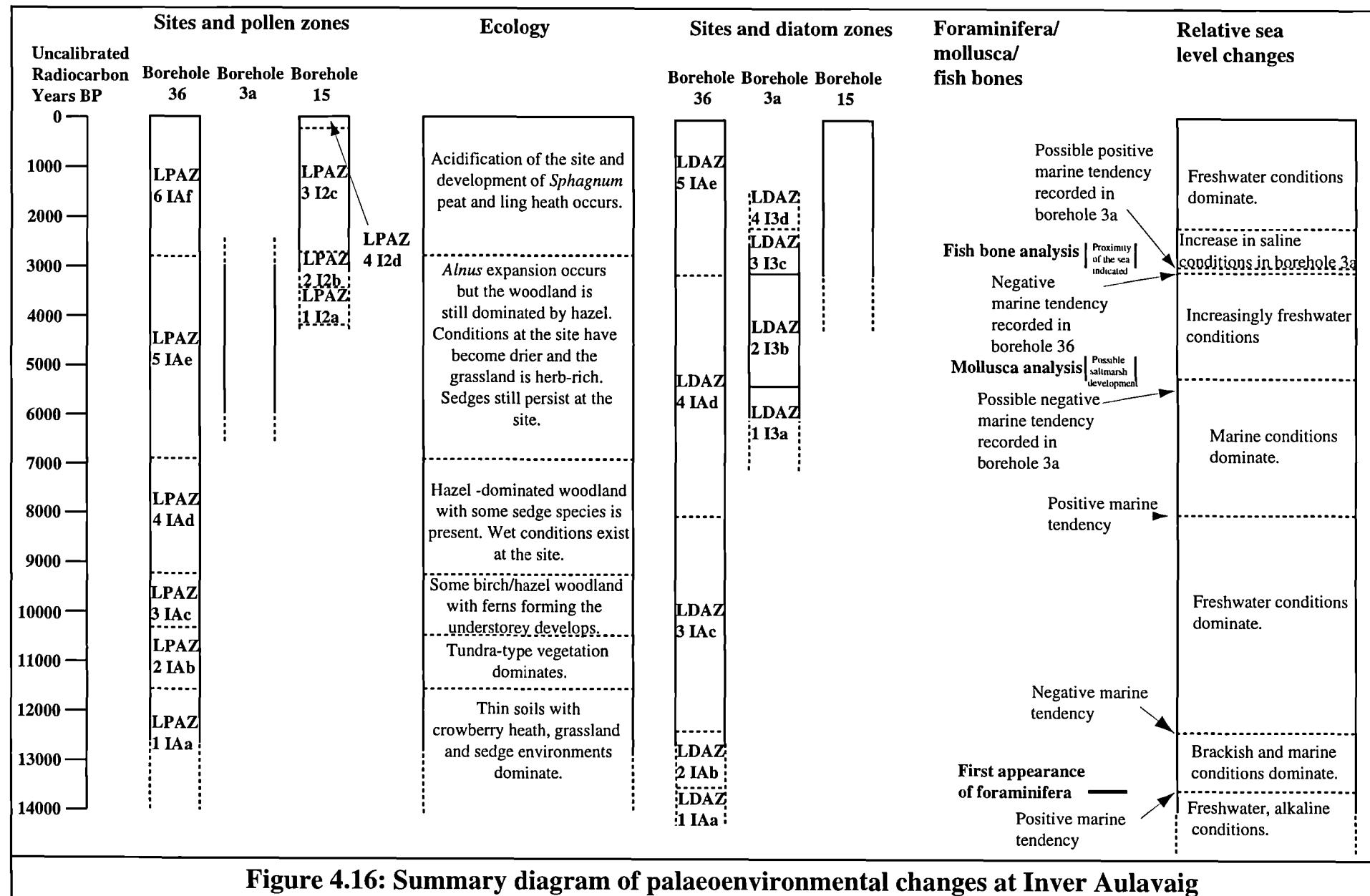
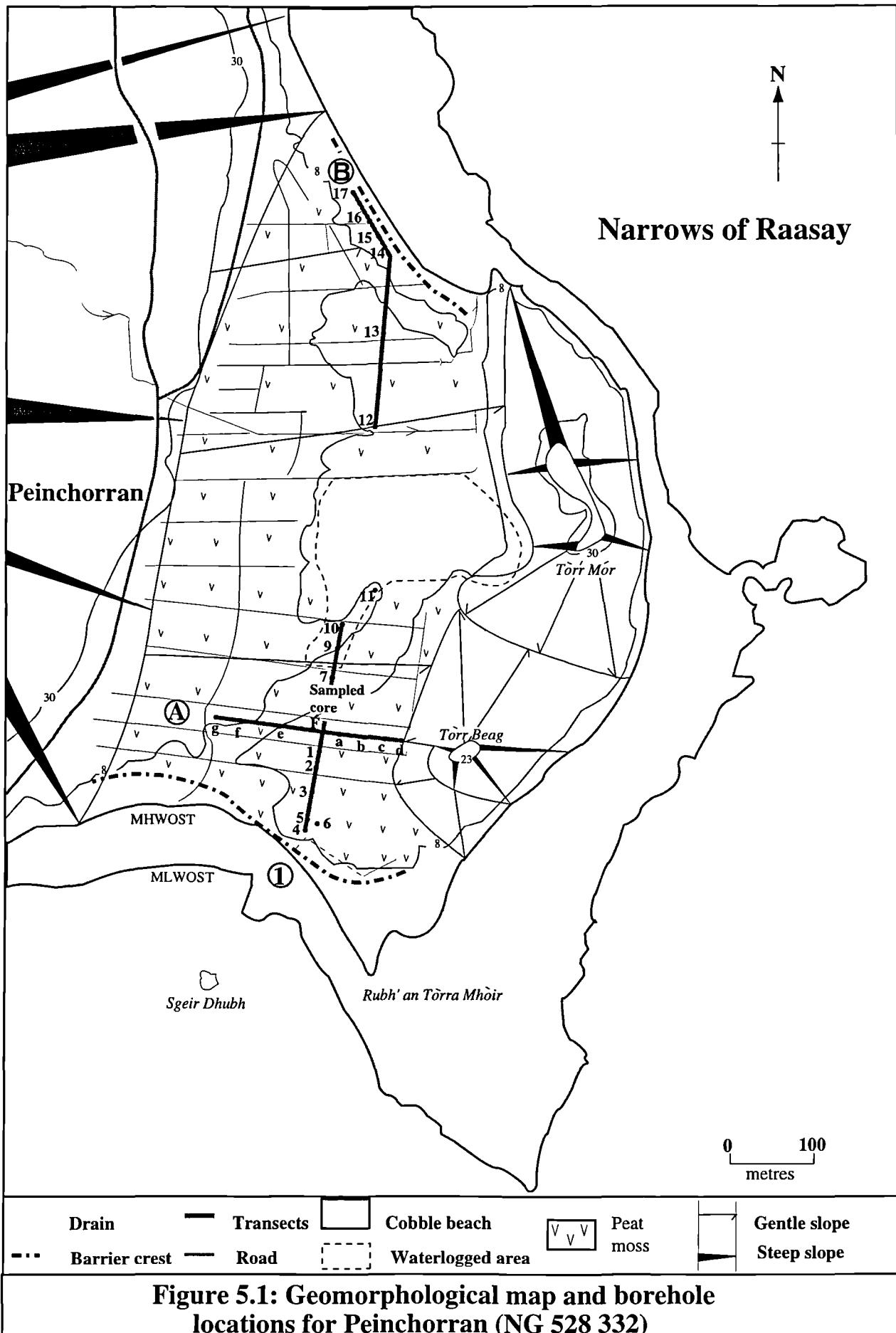
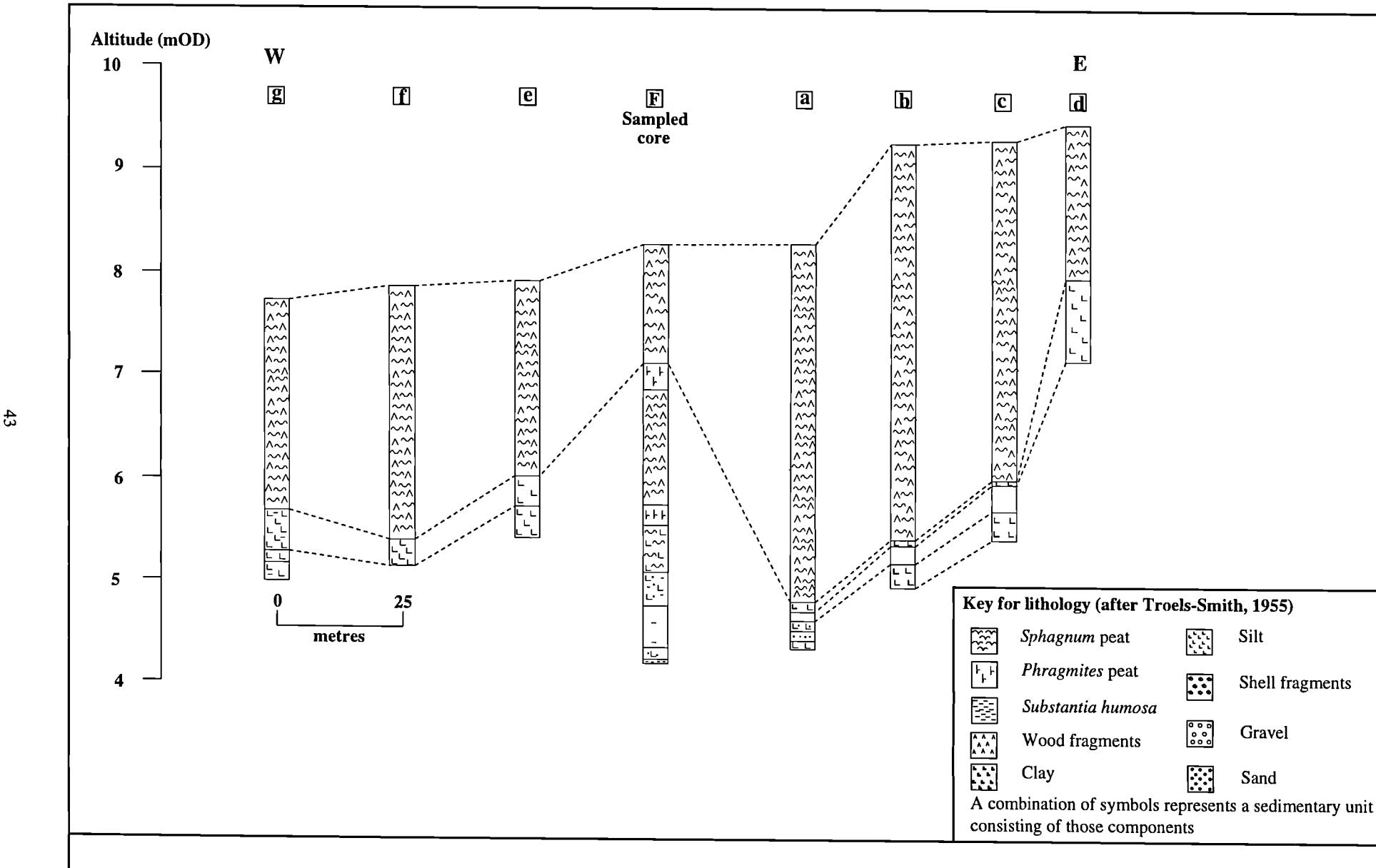
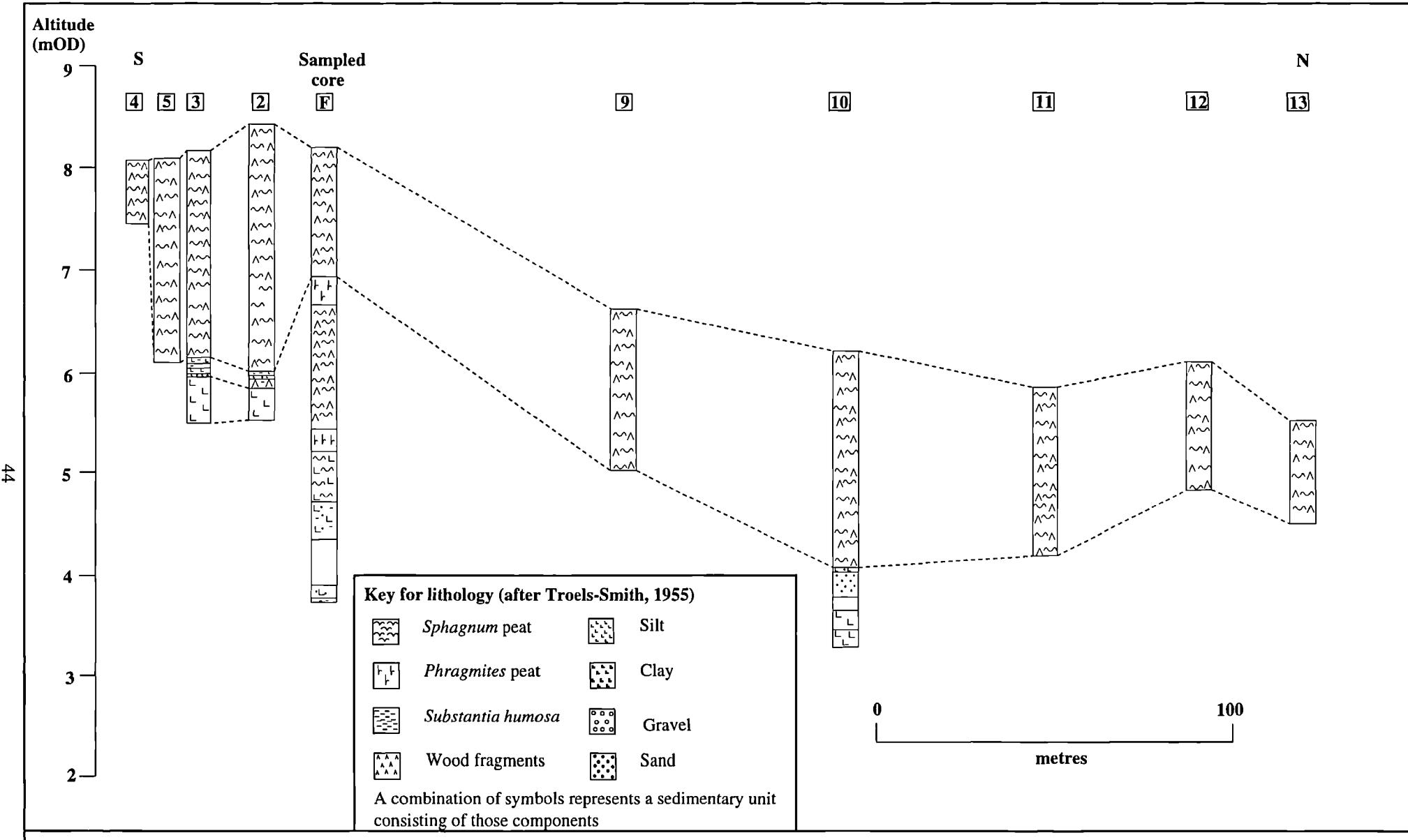


Figure 4.16: Summary diagram of palaeoenvironmental changes at Inver Aulavaig





**Figure 5.2: Stratigraphy of transect A, Peinchorran (NG 528 332)**



**Figure 5.3: Stratigraphy of transect 1, Peinchorran (NG 528 336)**

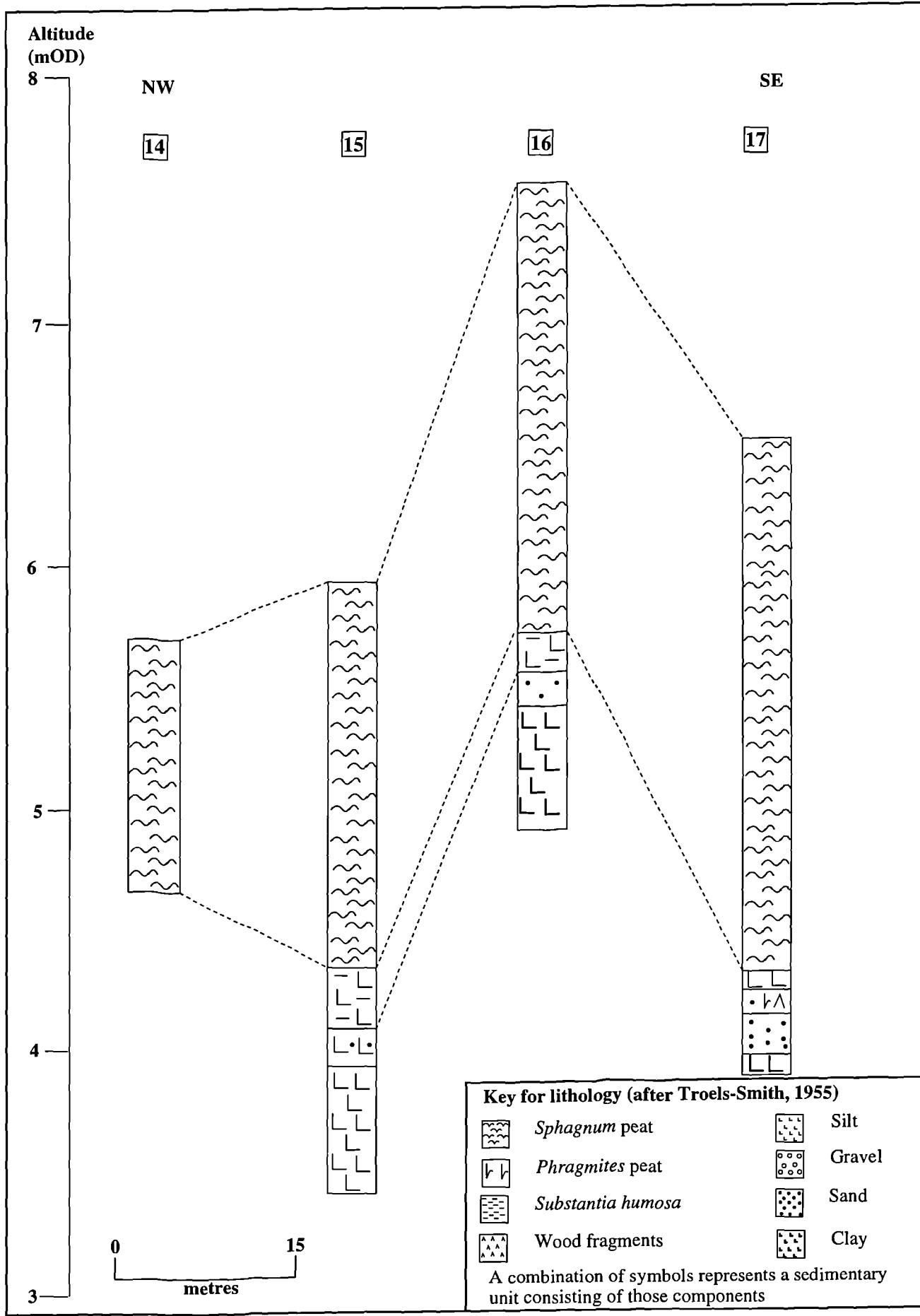
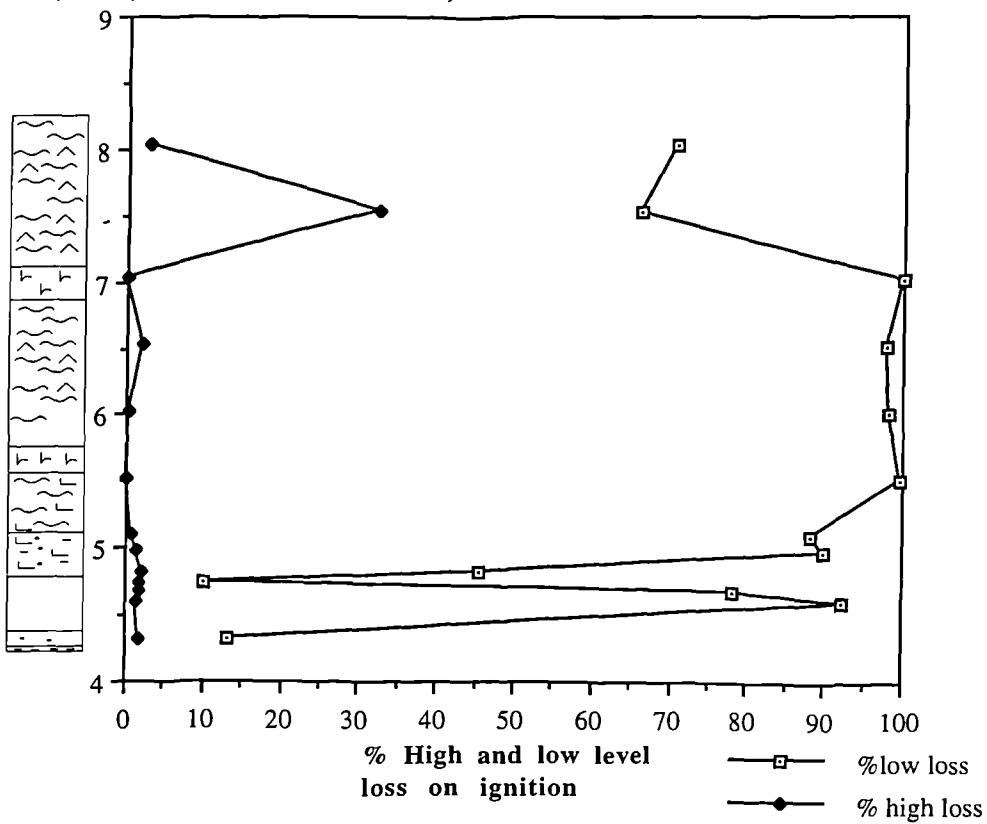


Figure 5.4: Stratigraphy of transect B, Peinchorran (NG 528 336)

Altitude  
(mOD)

**Figure 5.5: High and low level loss on ignition  
for borehole F, Peinchorran**

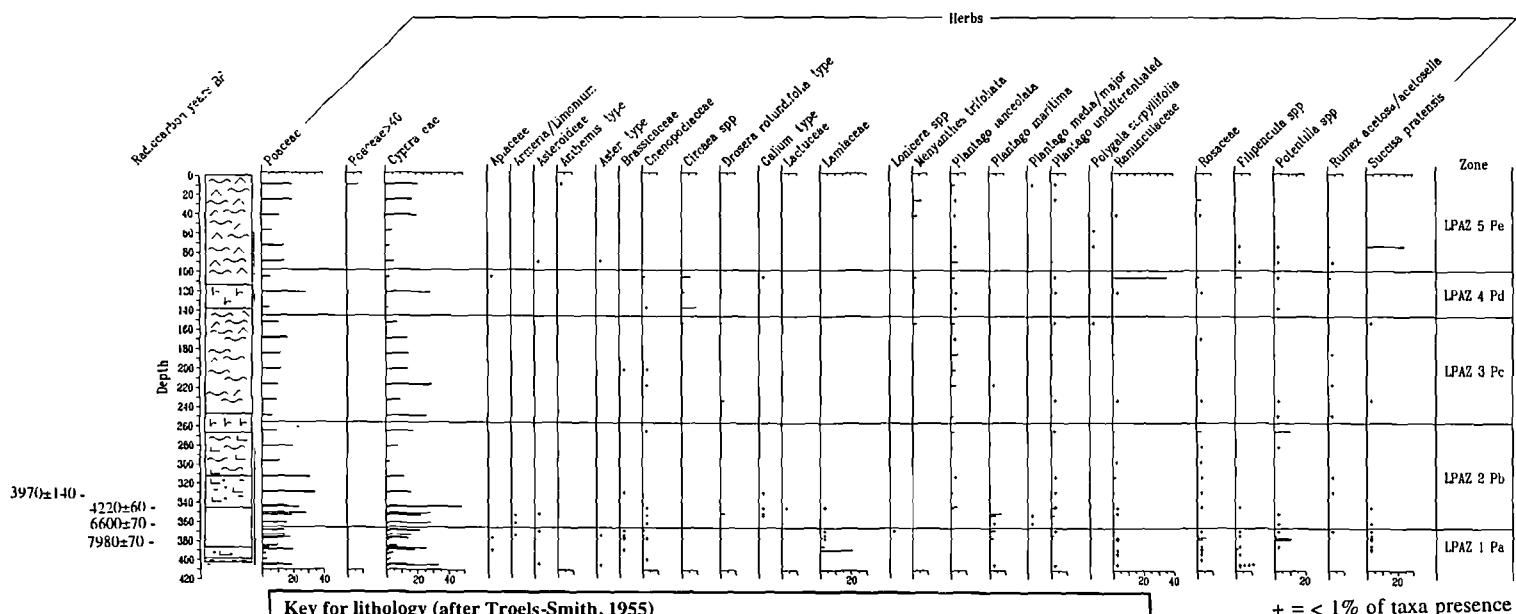
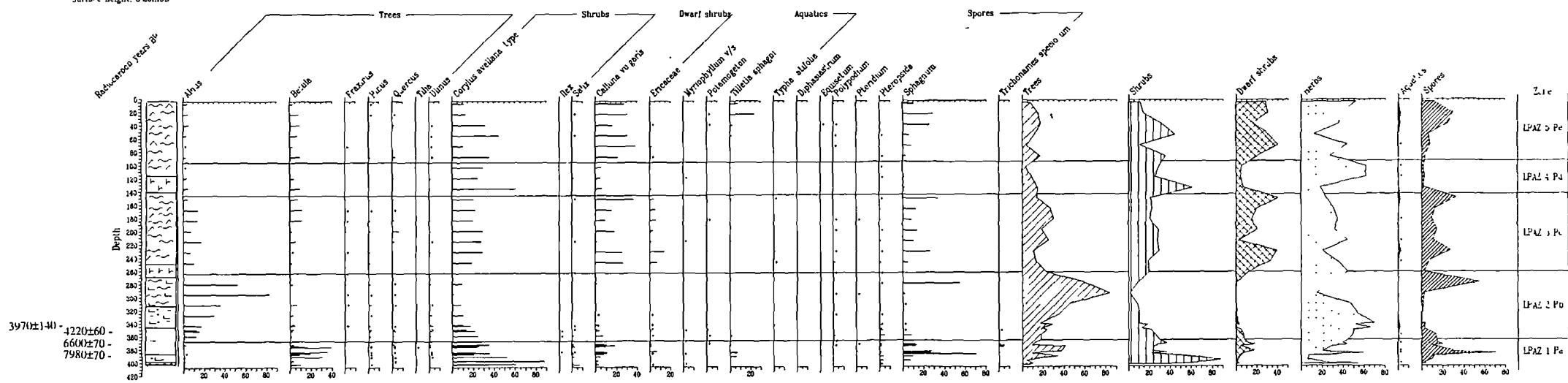


**Key for lithology (after Troels-Smith, 1955)**

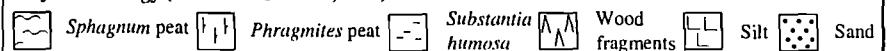
	Sphagnum peat		Wood fragments
	Phragmites peat		Silt
	Substantia humosa		Sand

A combination of symbols represents a sedimentary unit consisting of those components

Figure 5.6: Percentage pollen assemblage for Peinchorran  
bore-hole F (IG S28a 3329)  
Surface height: 8.25mOD



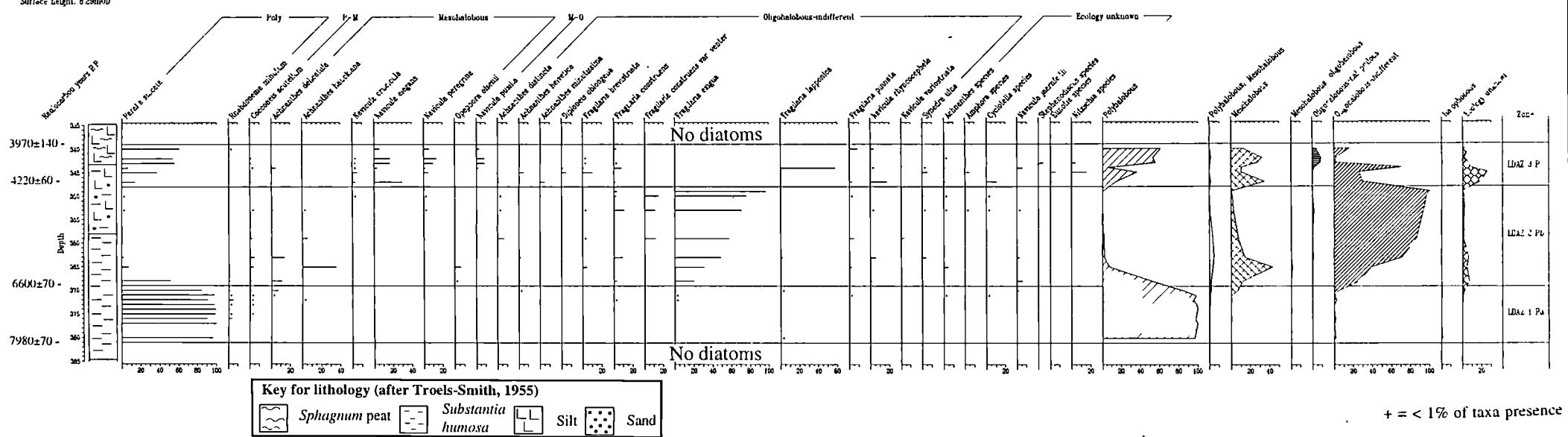
Key for lithology (after Troels-Smith, 1955)

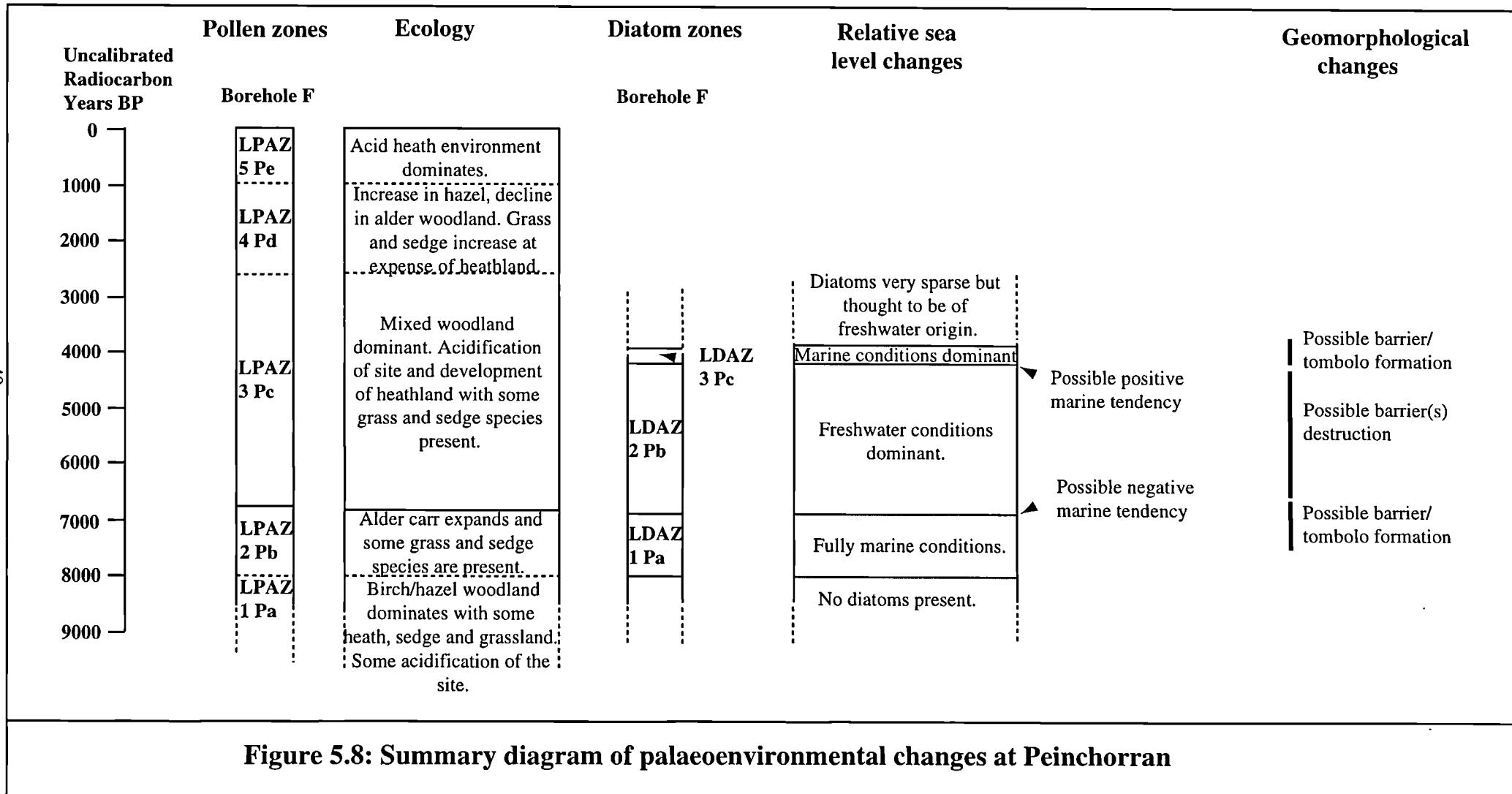


+ = < 1% of taxa presence

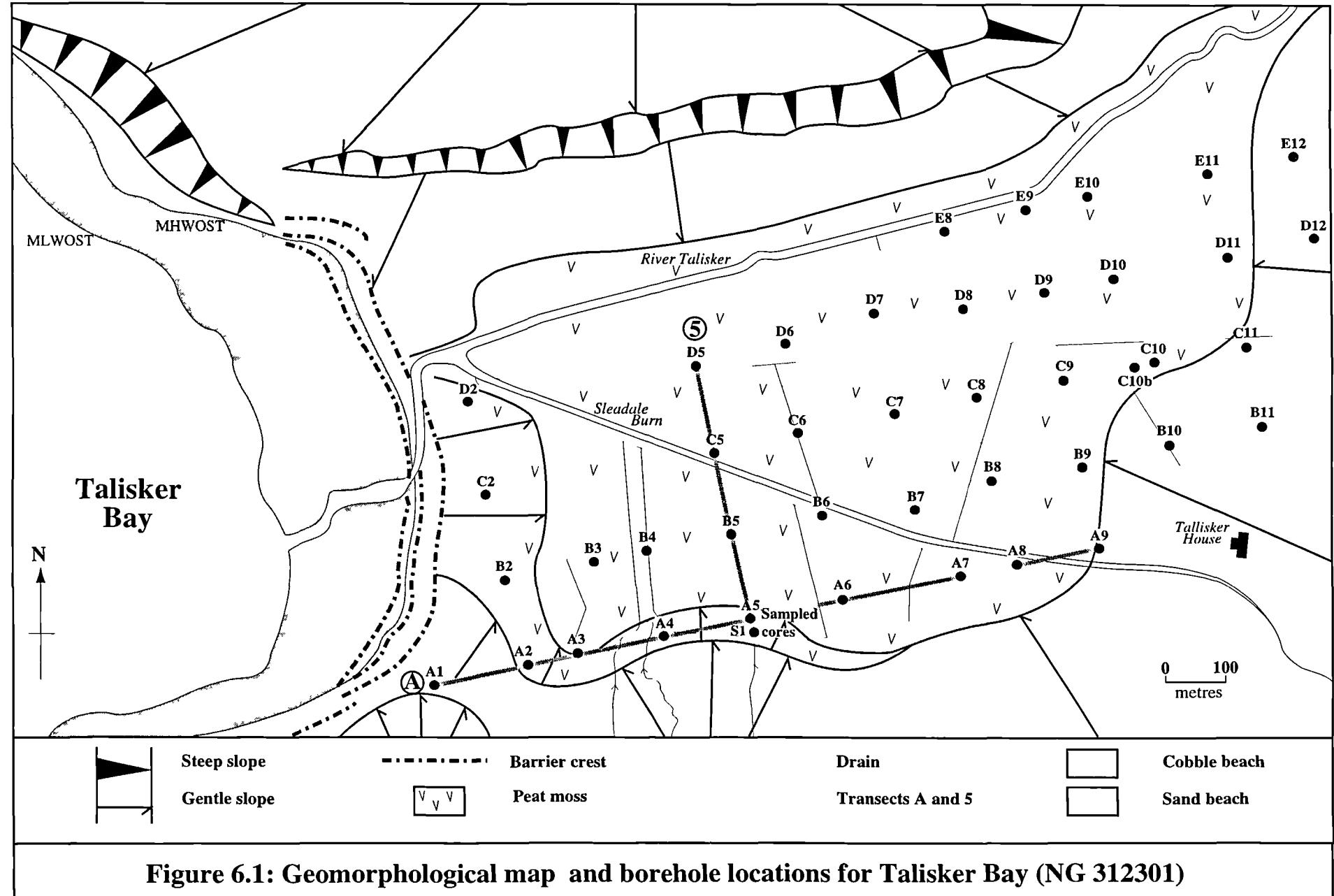
Figure 5.7: Summary percentage diatom assemblage and taxa over 5% for Peinchorran

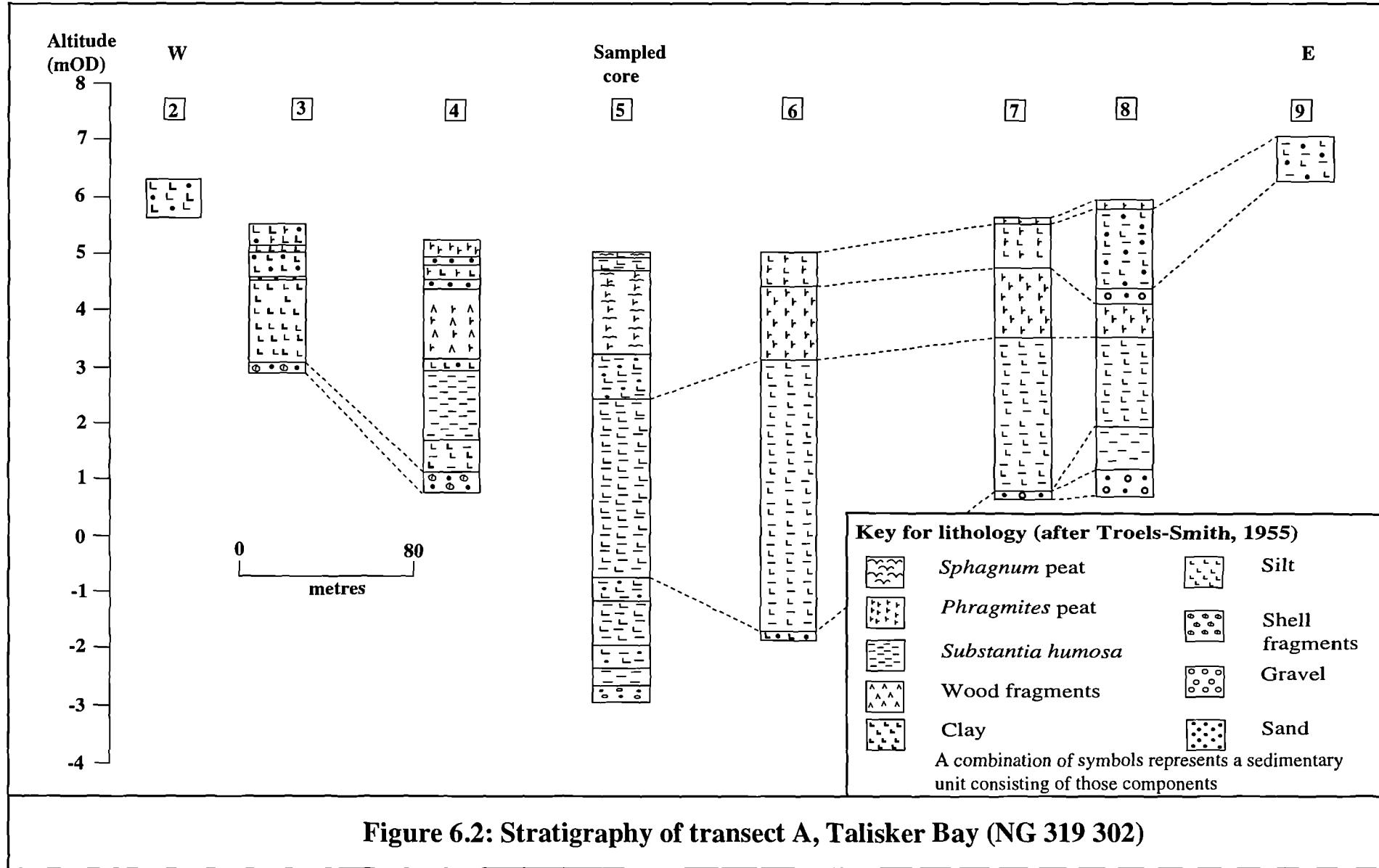
Borehole P (NG 5288 3320)  
Surface height: 829mOD

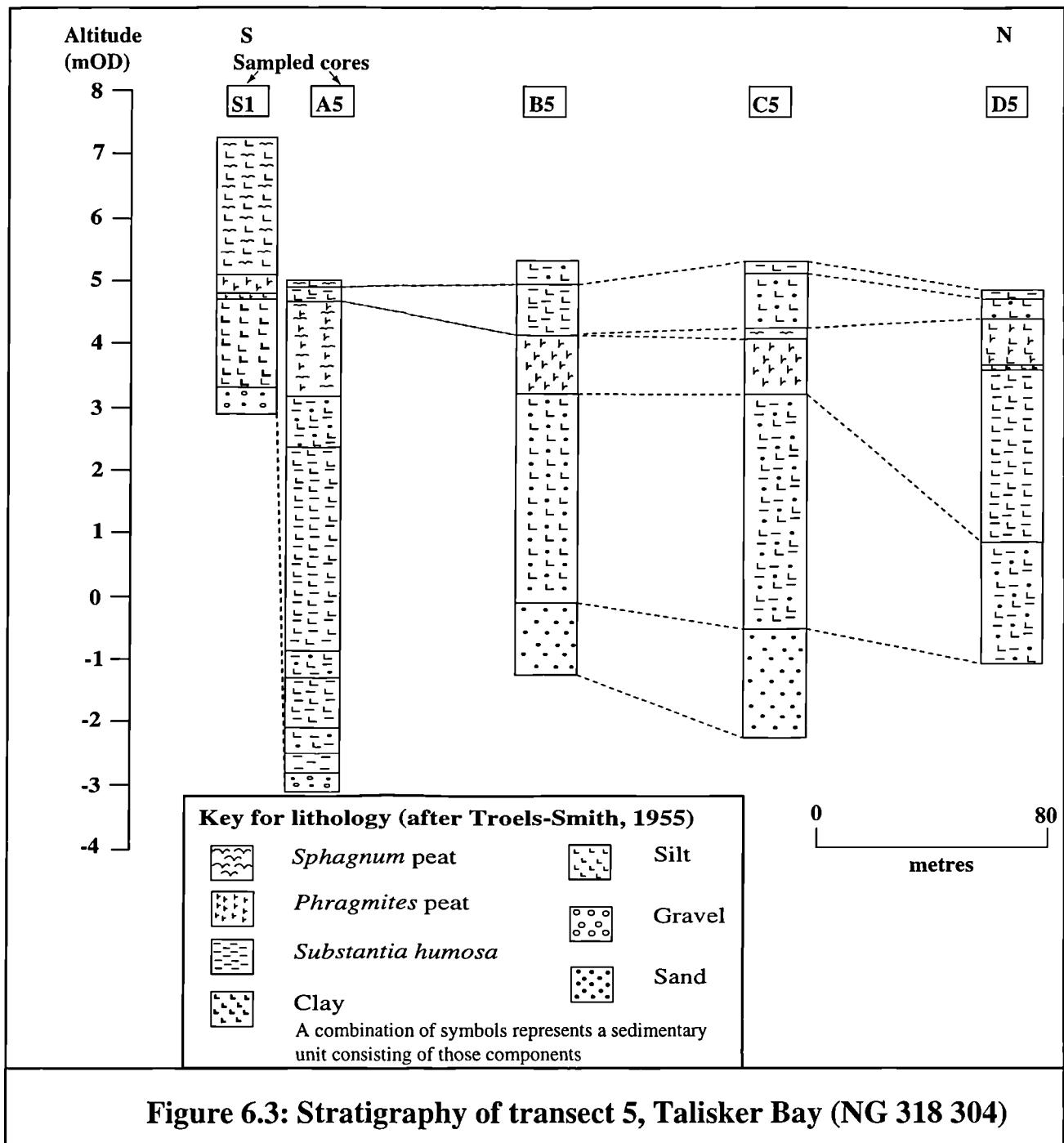




**Figure 5.8: Summary diagram of palaeoenvironmental changes at Peinchorran**







Altitude  
(mOD)

**Figure 6.4: High and low level loss on ignition for borehole A5, Talisker Bay**

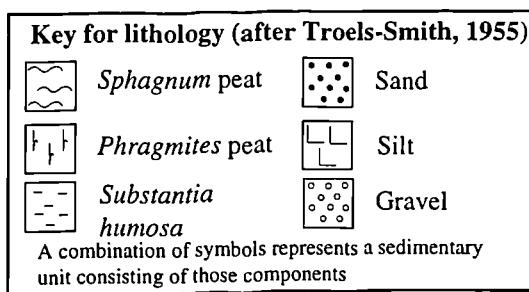
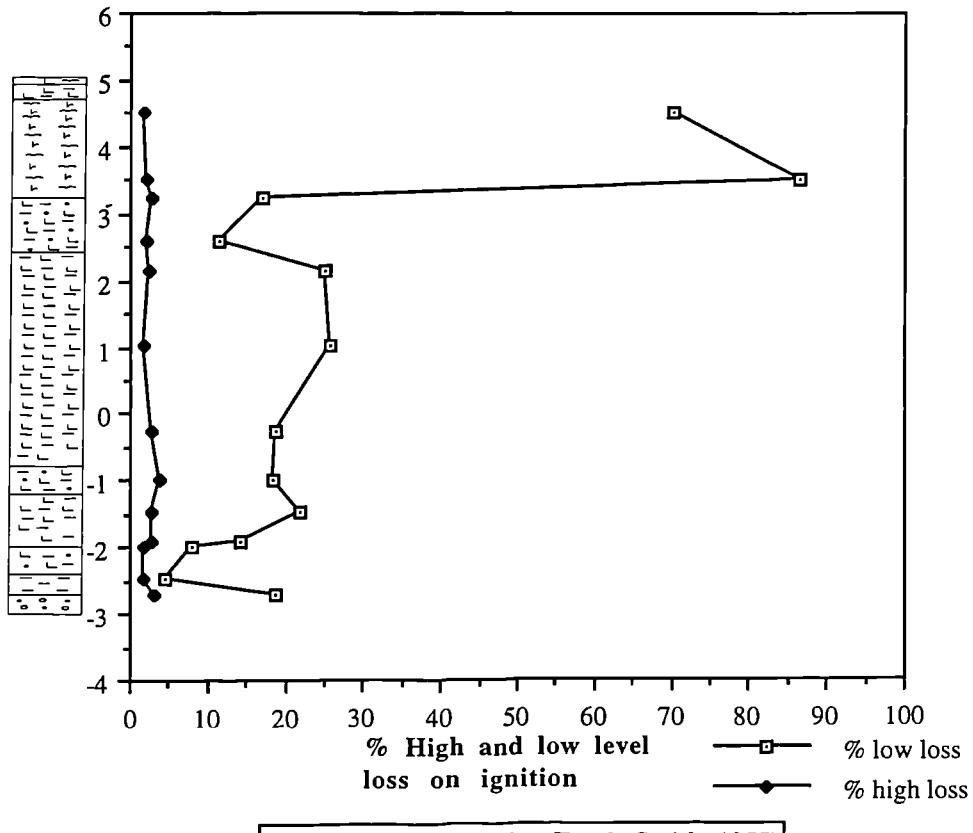


Figure 6.5: Percentage pollen assemblage for Talisker Bay

Borehole A5 (NG 9190 3012)  
Surface height 502mOD

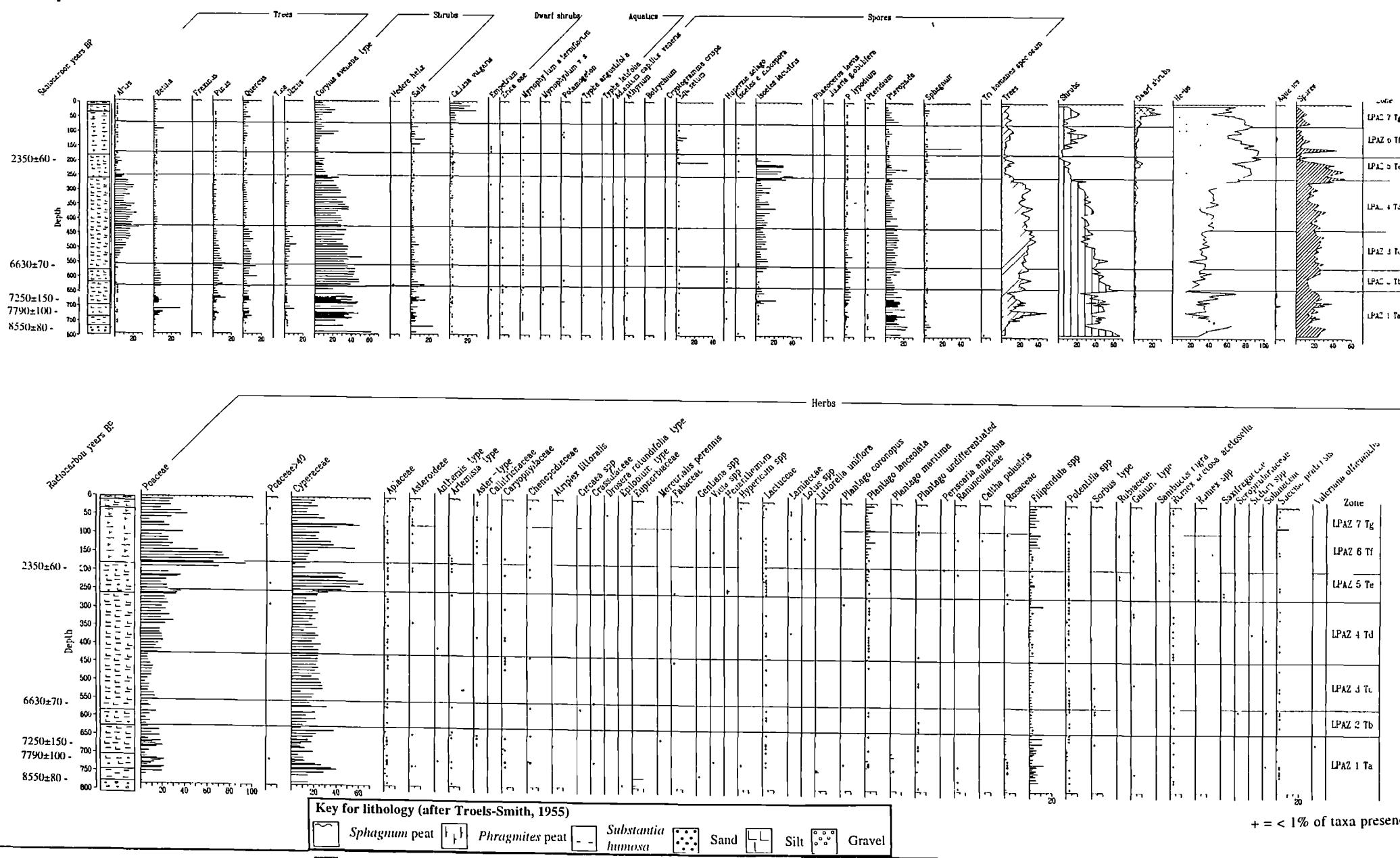


Figure 6.6: Percentage pollen assemblage for Talisker Bay  
 Borehole SI (NG 3190 3009)  
 Surface height, 7.29m

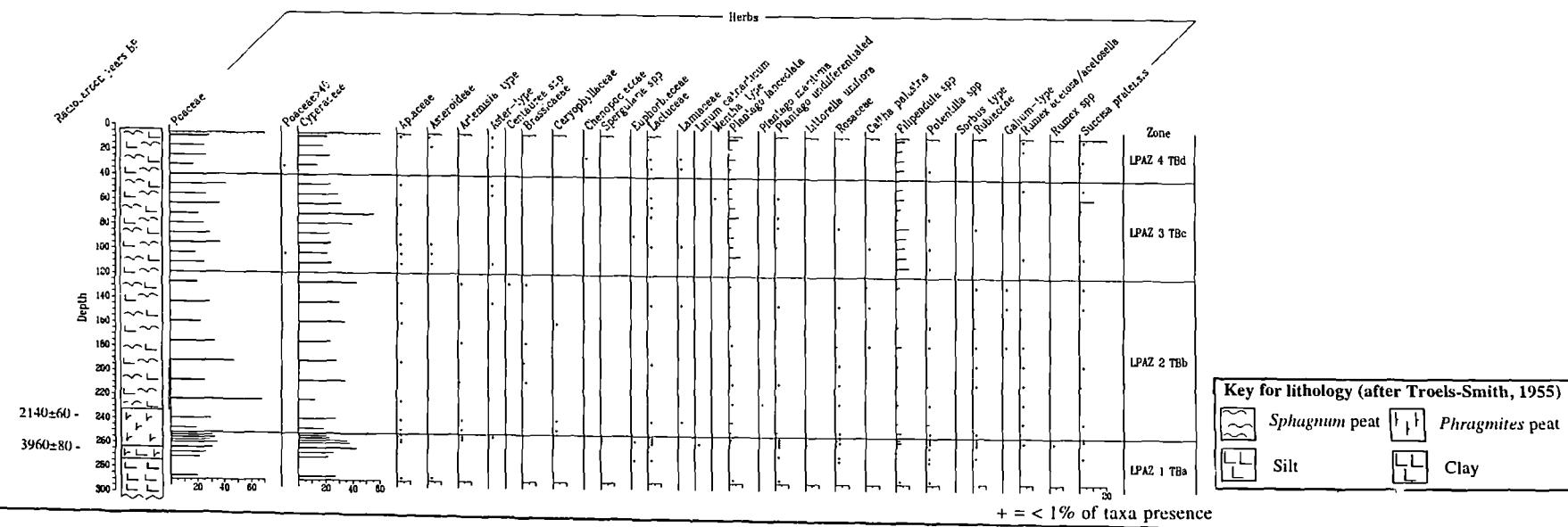
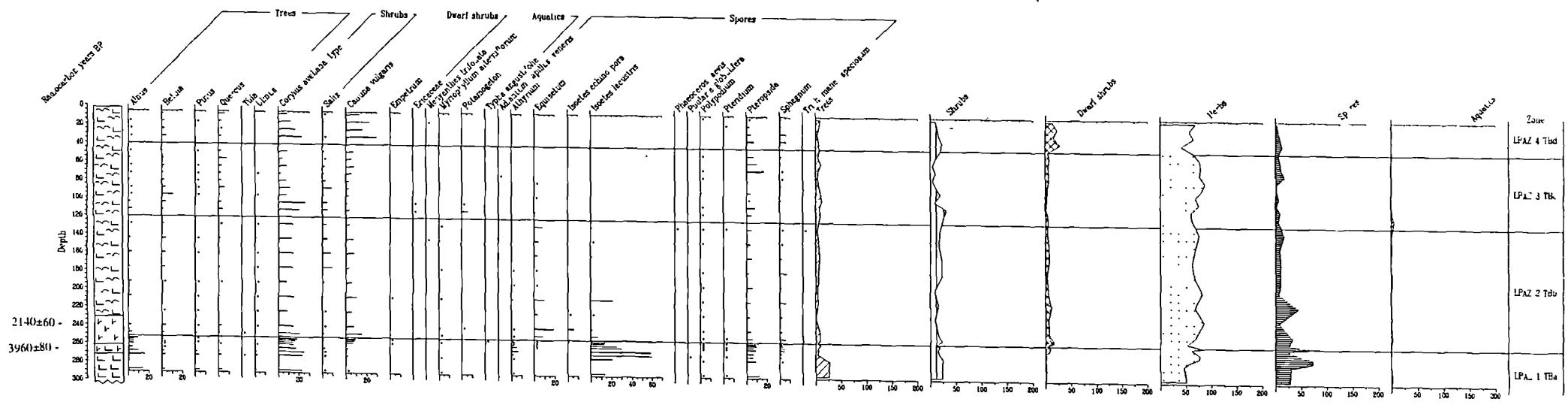


Figure 6.7: Summary percentage diatom assemblage and taxa over 5% for Talisker Bay

Borehole A6 (NG 3190 3012)  
Surface height 502mOD

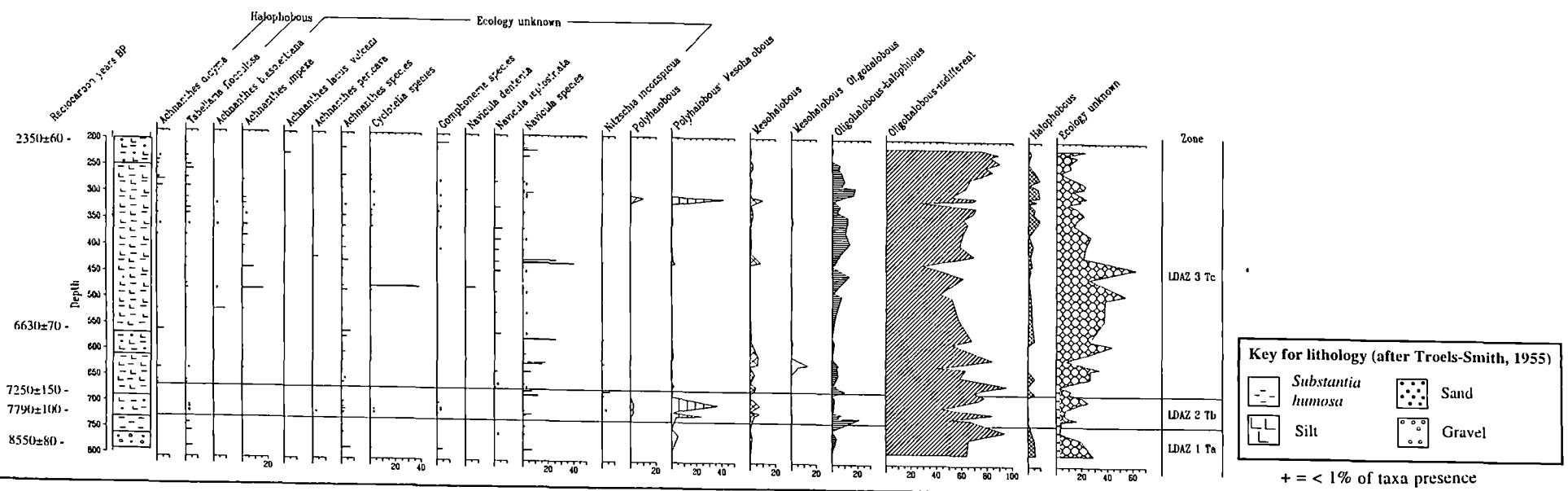
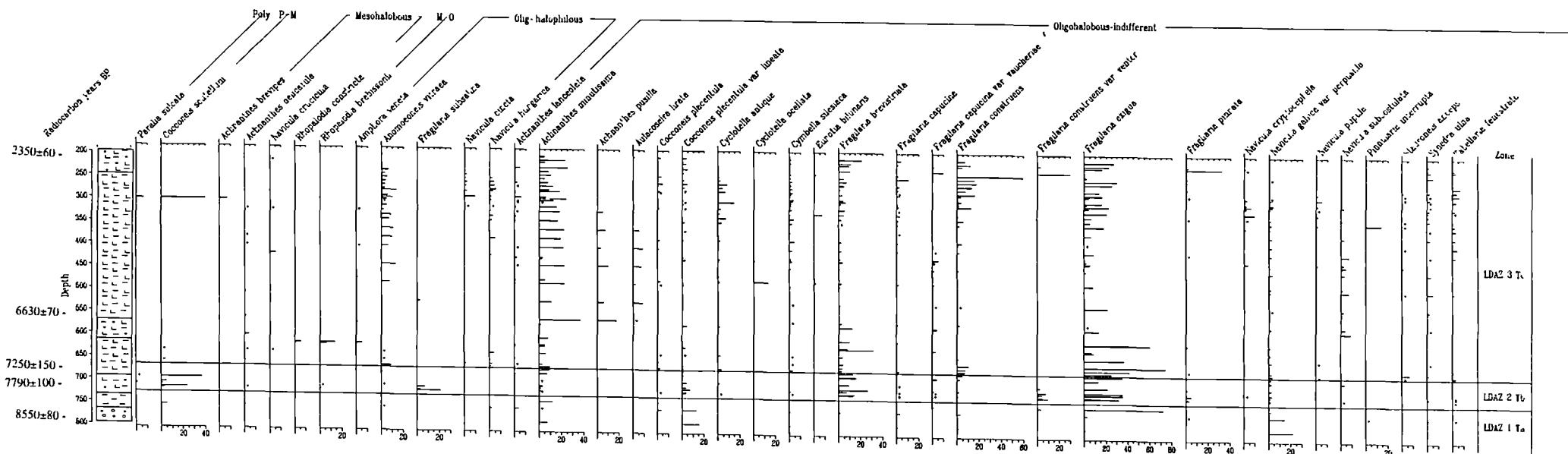
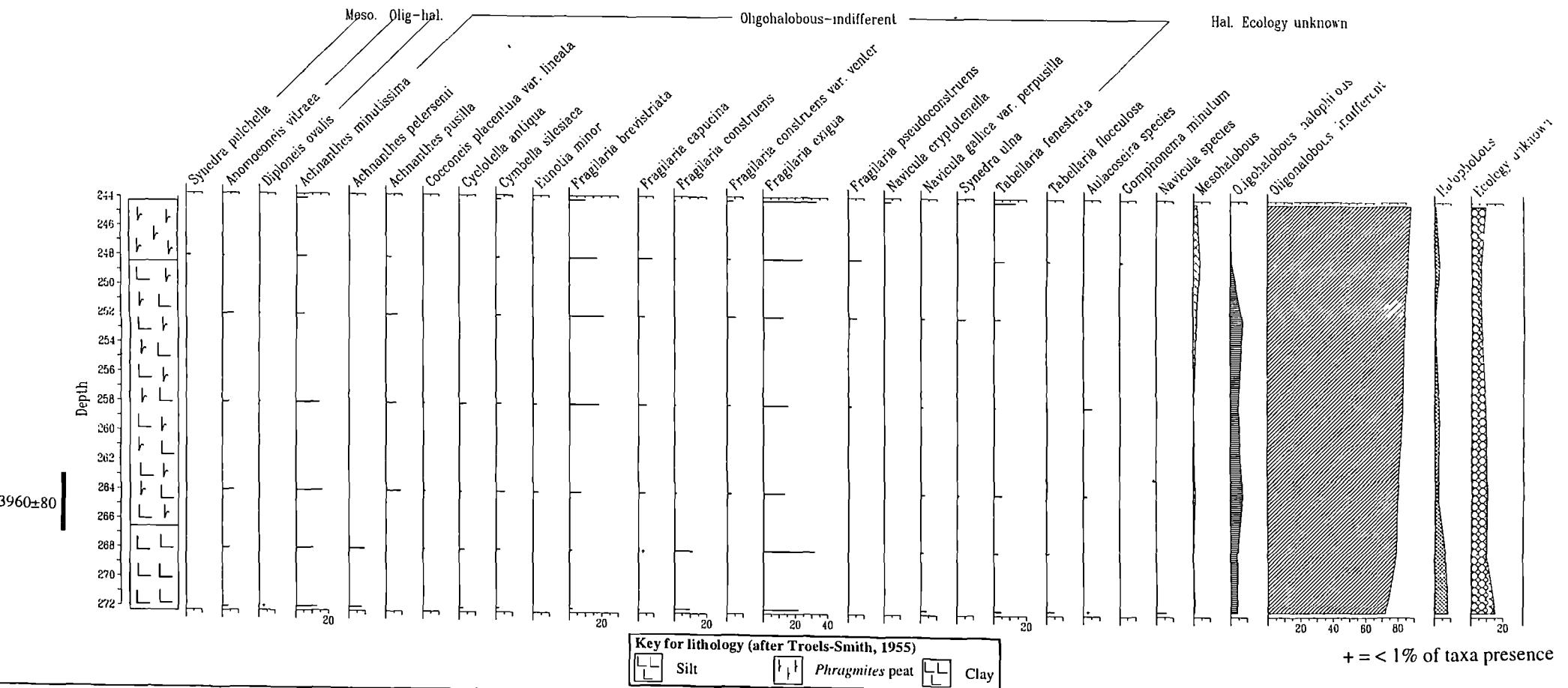
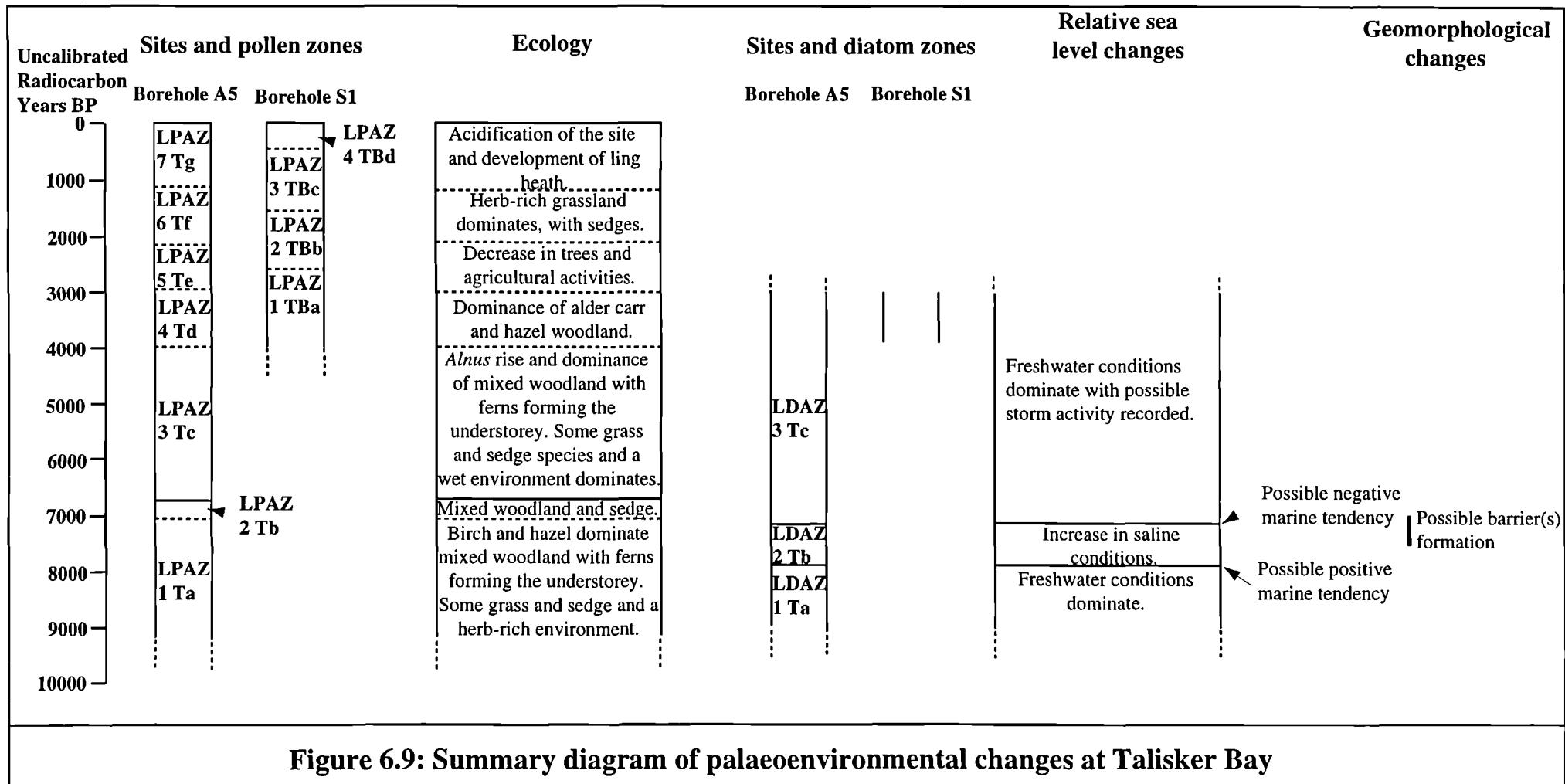
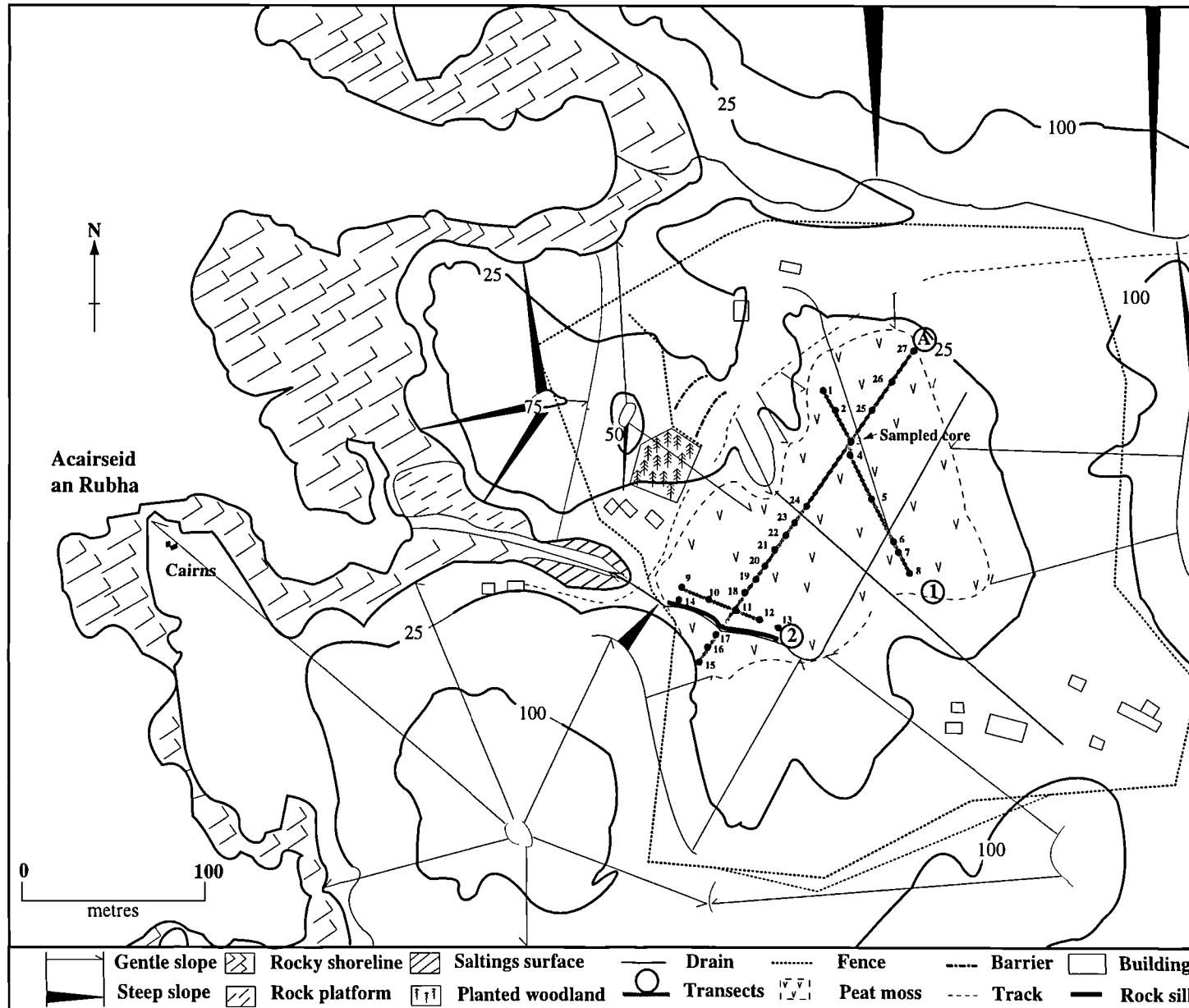


Figure 6.8: Summary percentage diatom assemblage and taxa over 5%  
for Talisker Bay

Borehole S1 (NG 3190 3009)  
Surface height 729mOD







**Figure 7.1: Geomorphological map and borehole locations for Point of Sleat (NG 565 002)**

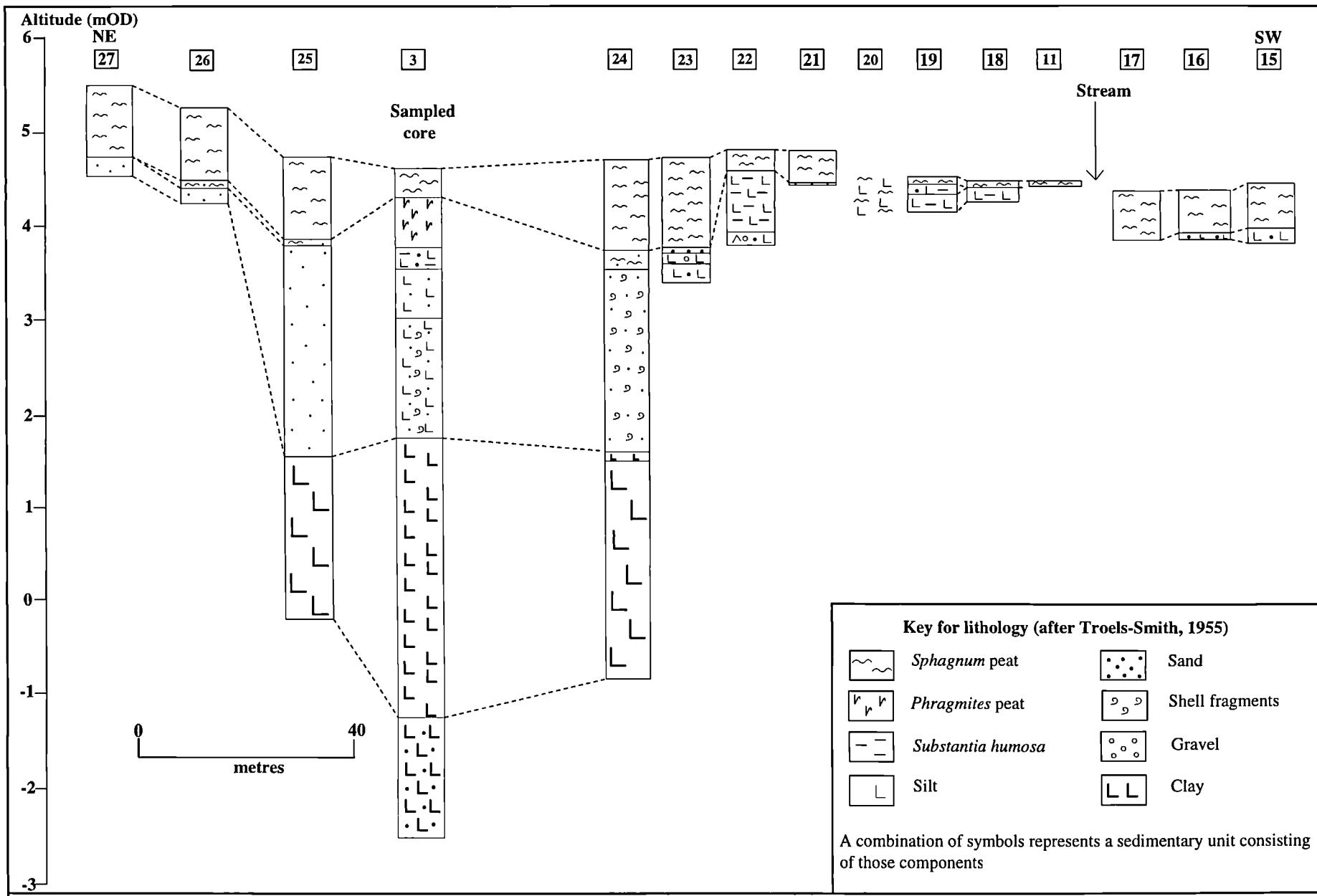
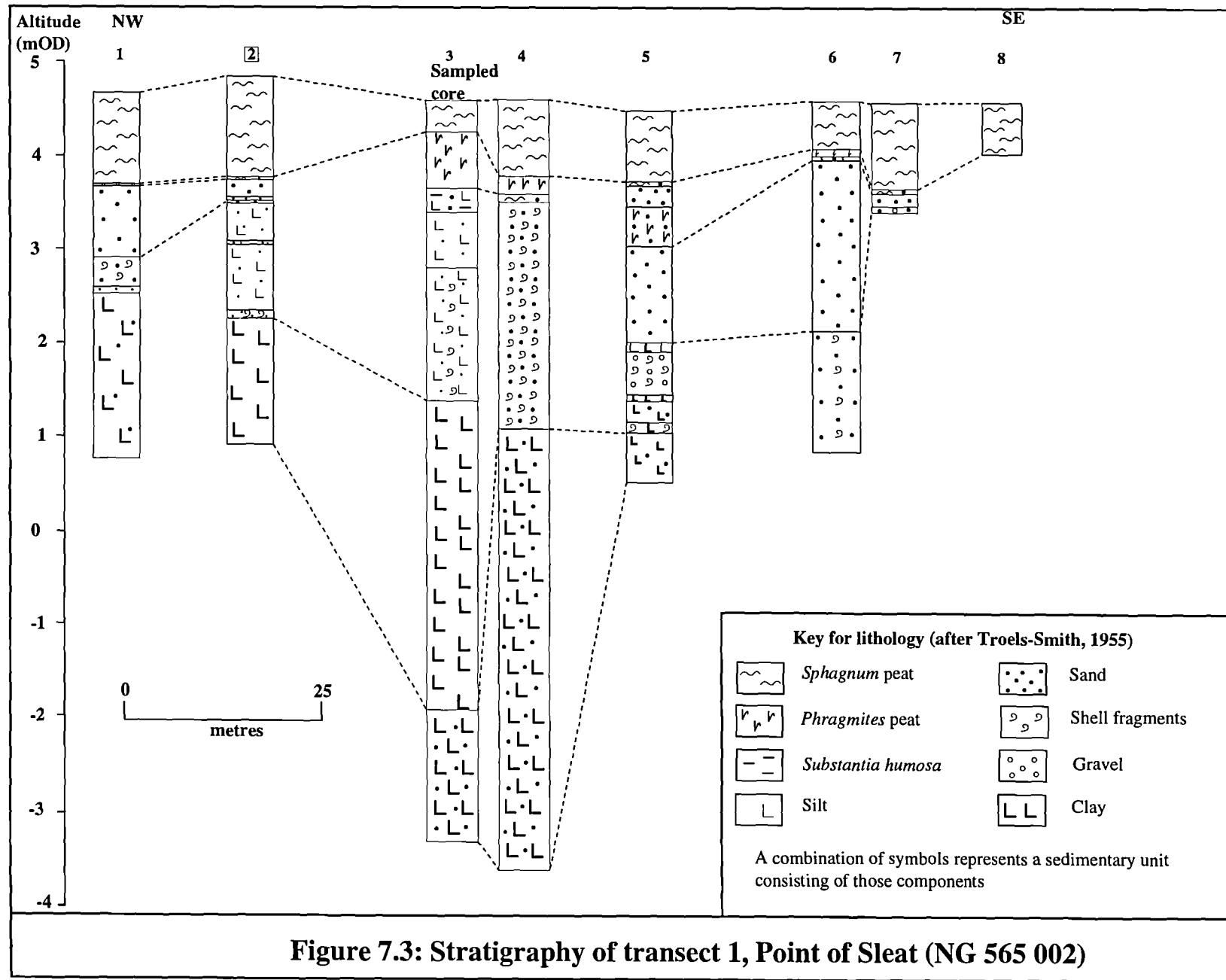
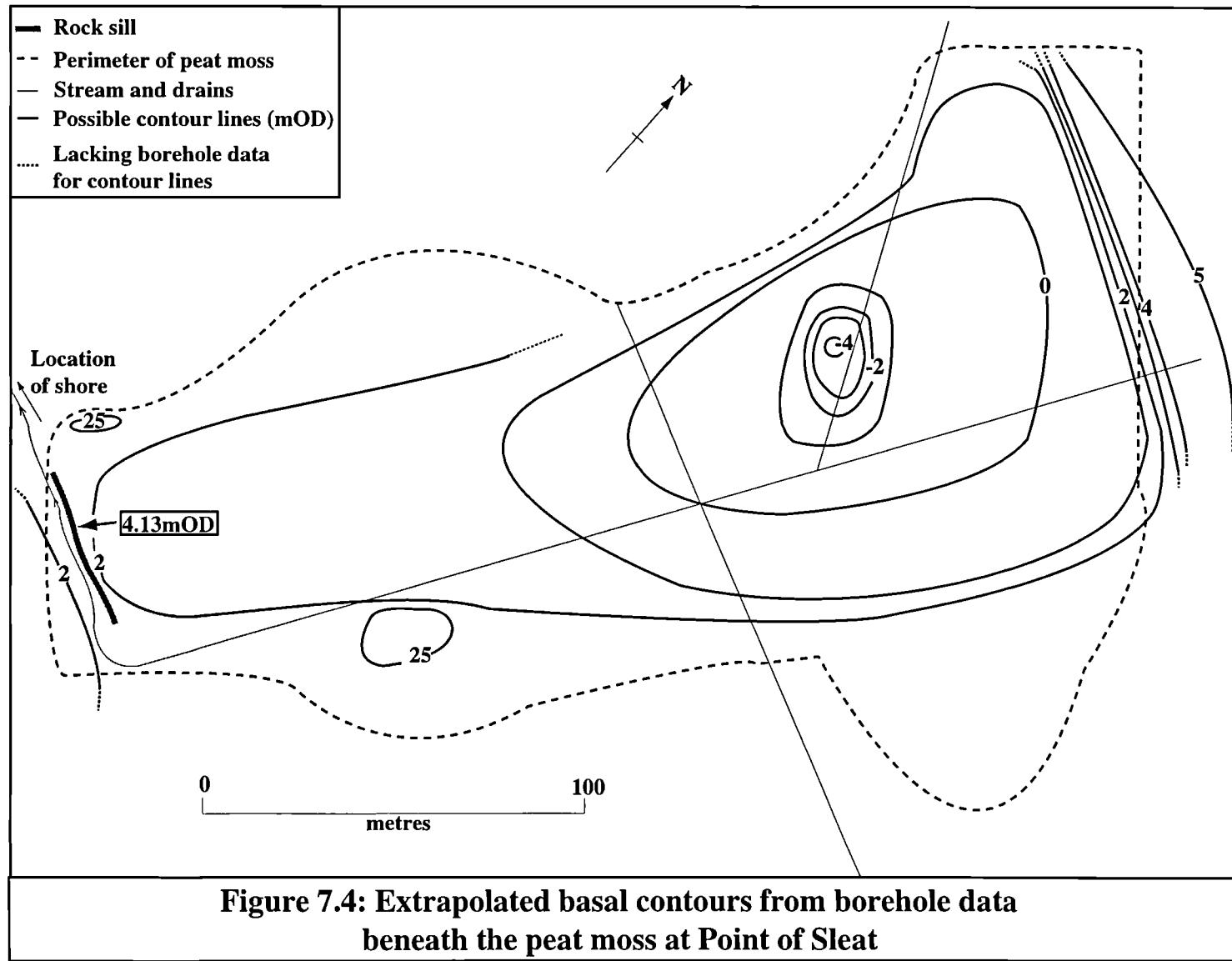


Figure 7.2: Stratigraphy of transect A, Point of Sleat (NG 565 002)





Altitude  
(mOD)

**Figure 7.5: High and low level loss on ignition for borehole 3, Point of Sleat**

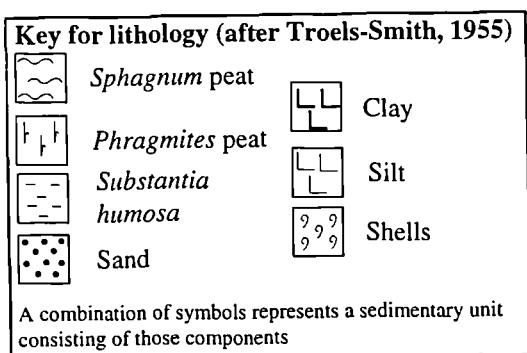
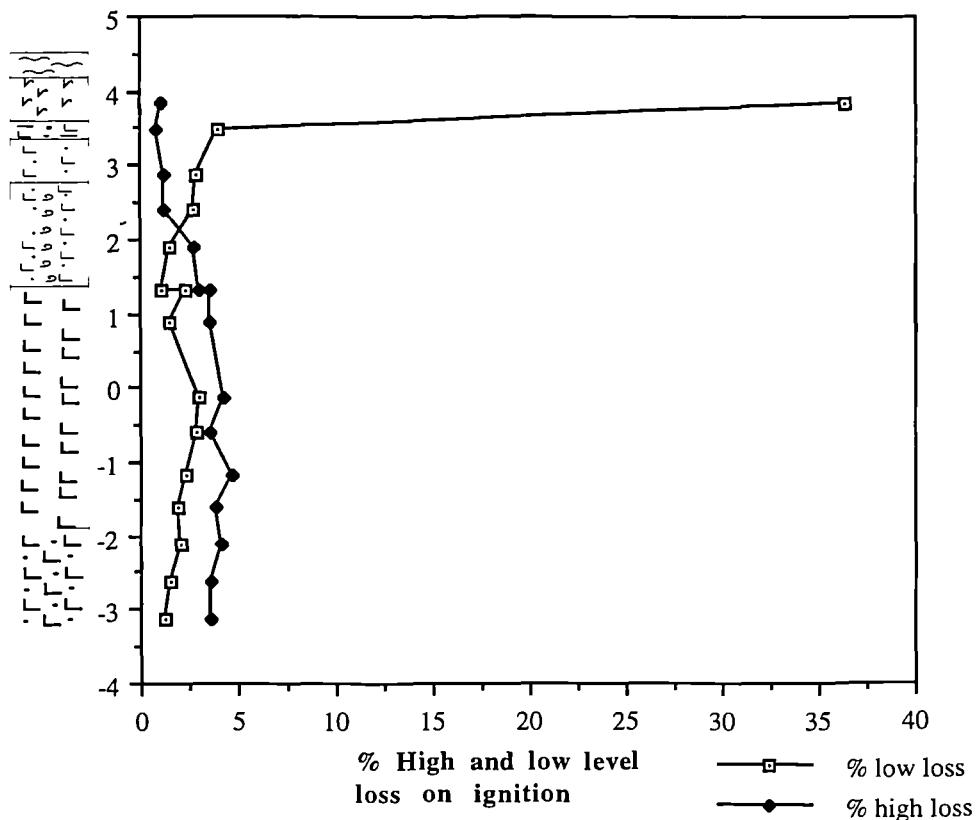


Figure 7.6: Percentage pollen assemblage for Point of Sleat

Borehole: 3 (NG 5645 0030)

Surface height: 463mOD

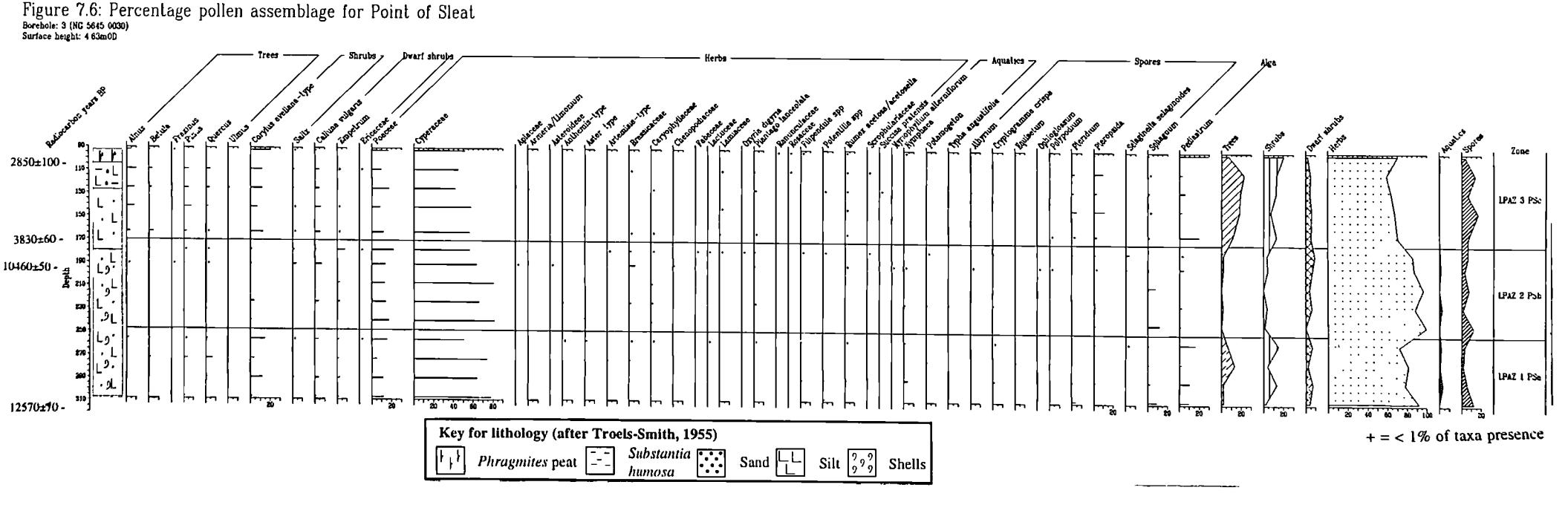
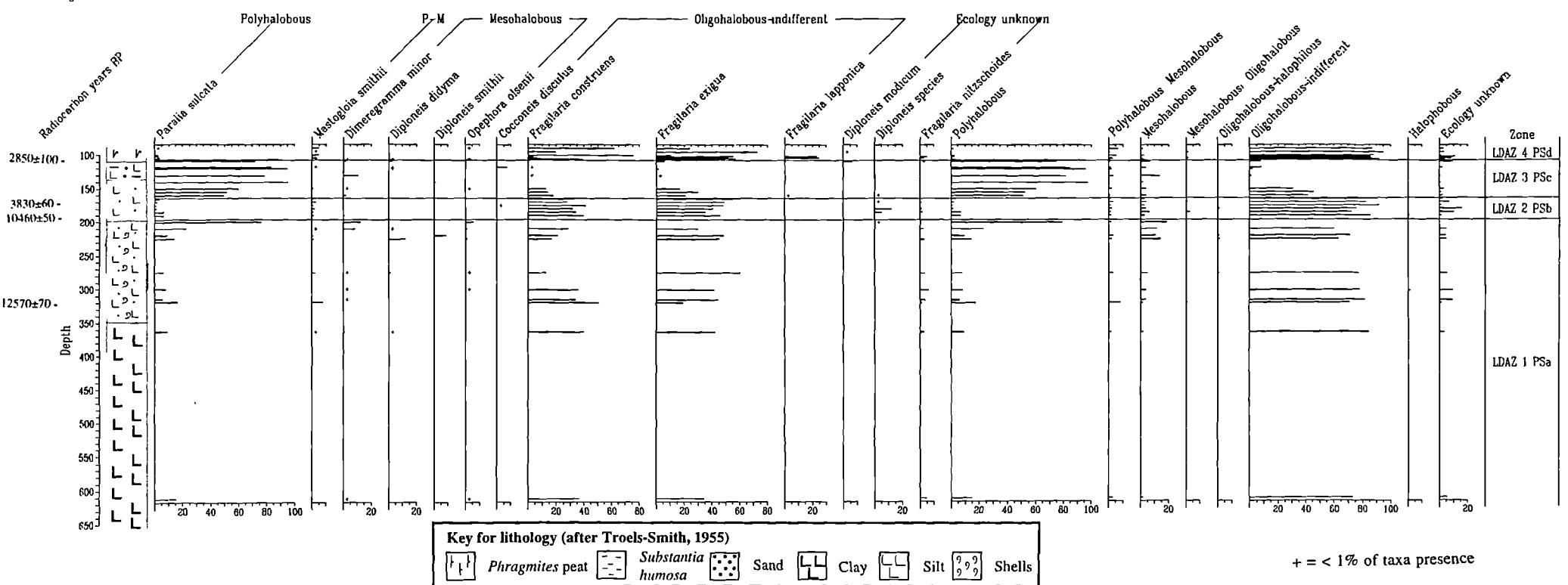
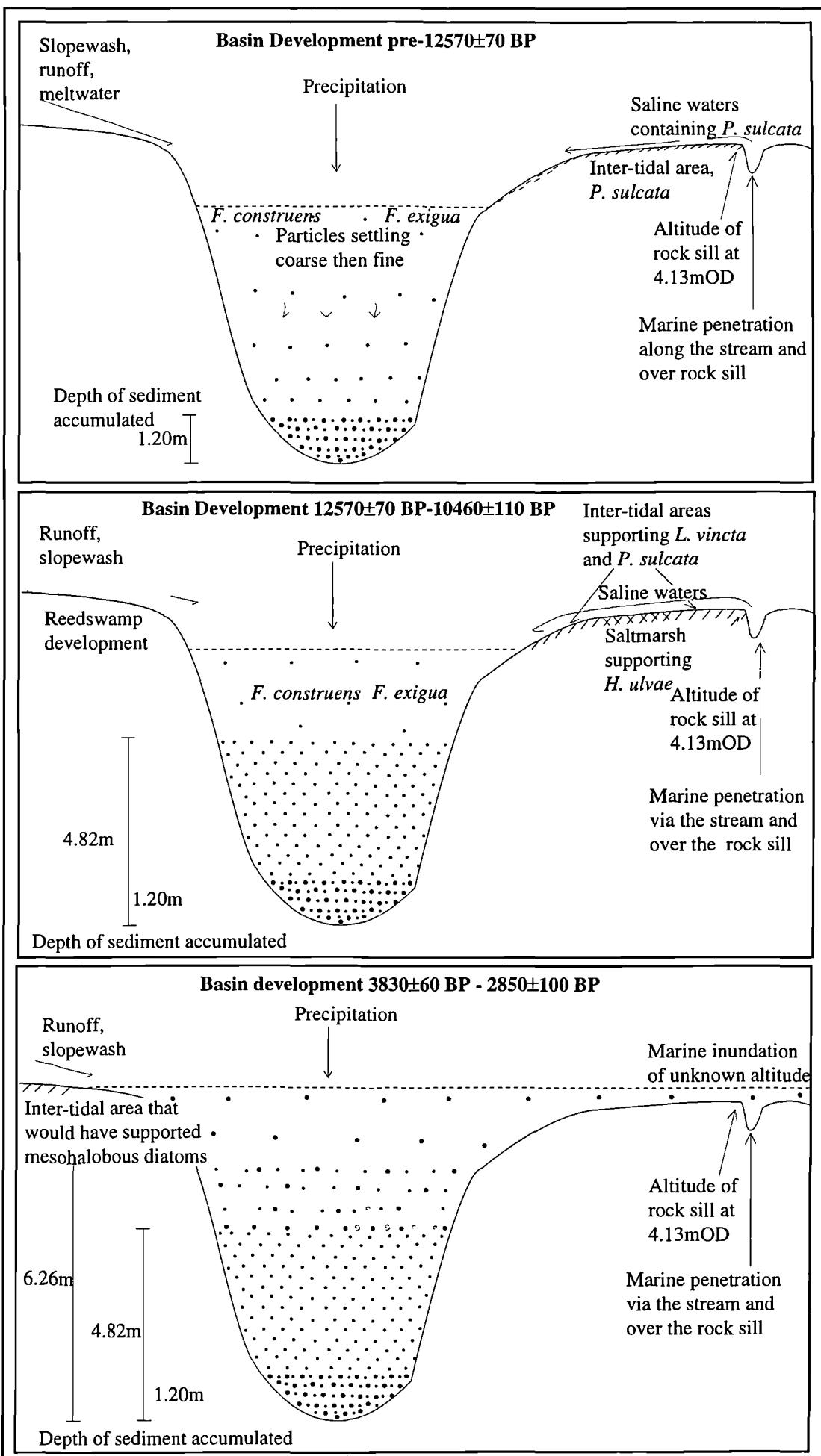


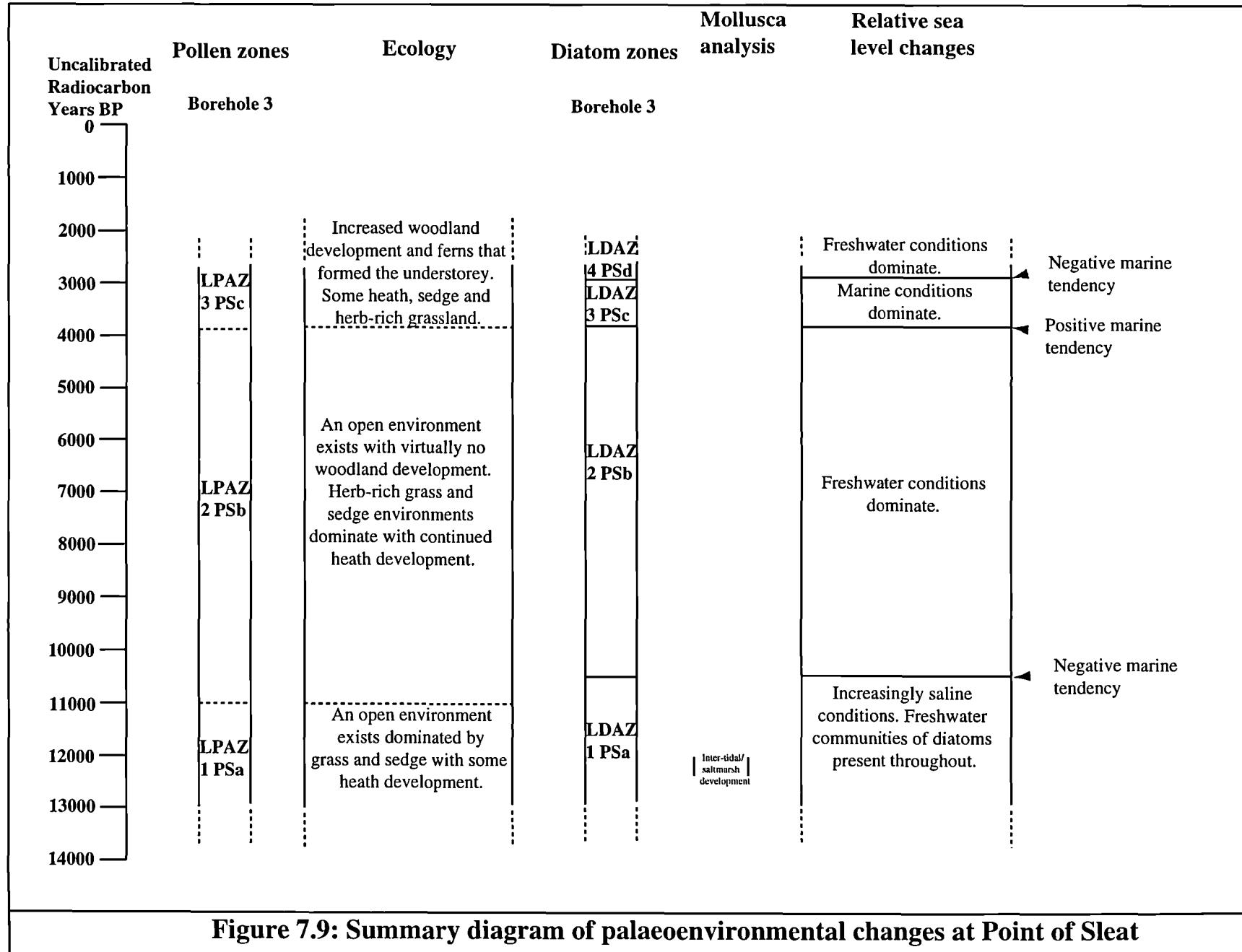
Figure 7.7: Summary percentage diatom assemblage and taxa over 5% for Point of Sleat

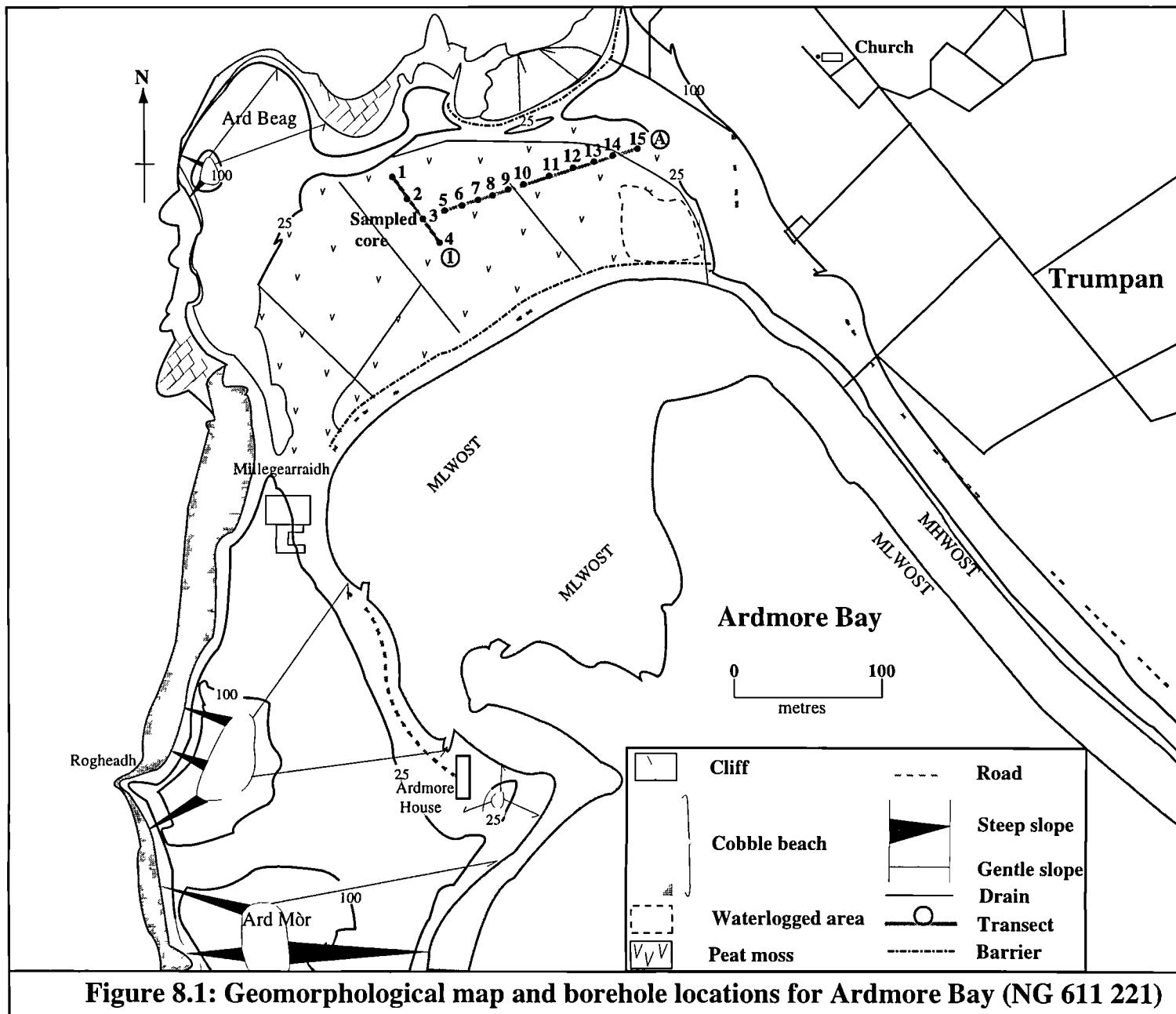
Borehole: 3 (NG 5645 0030)  
Surface height: 463mOD

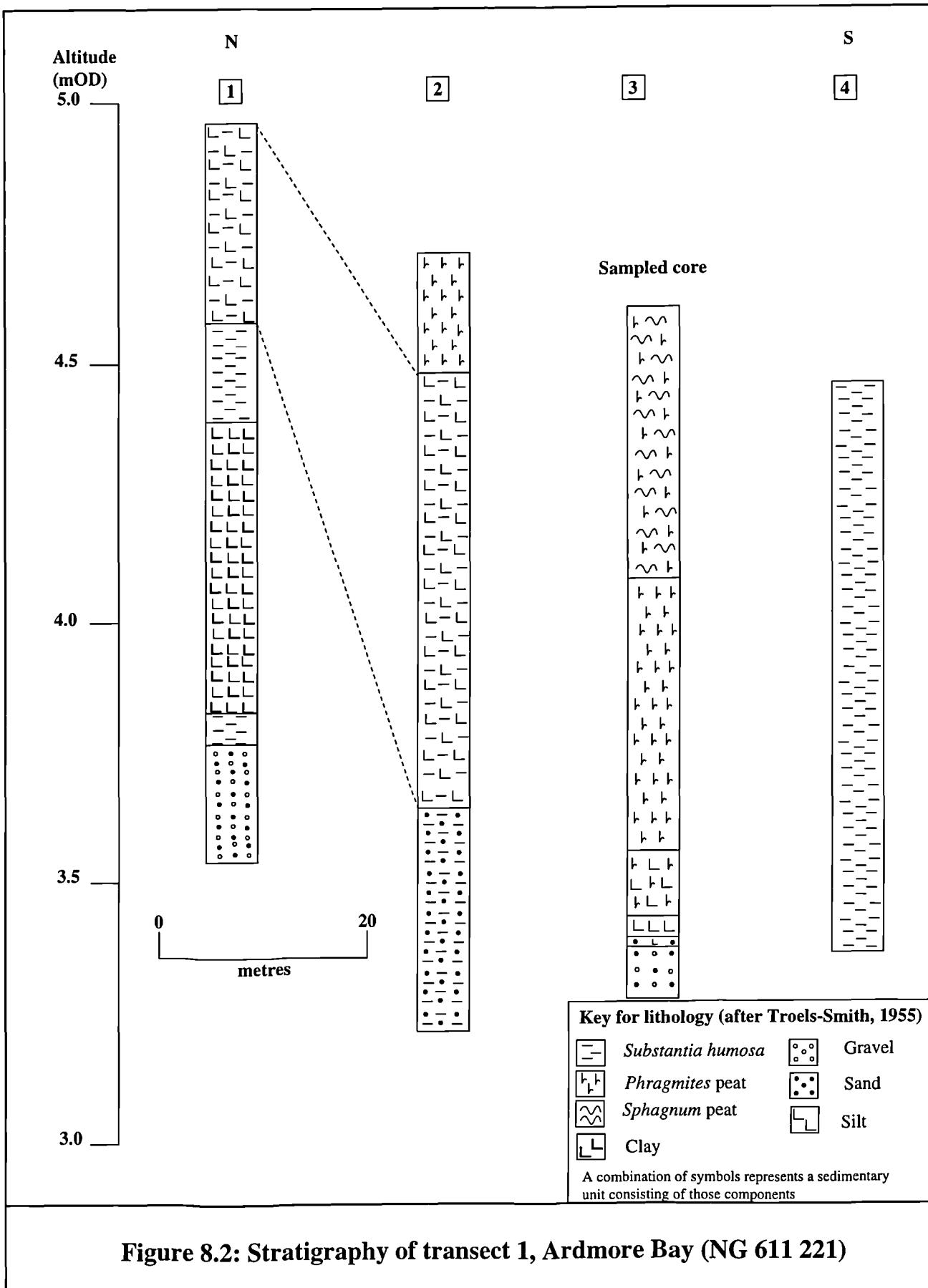


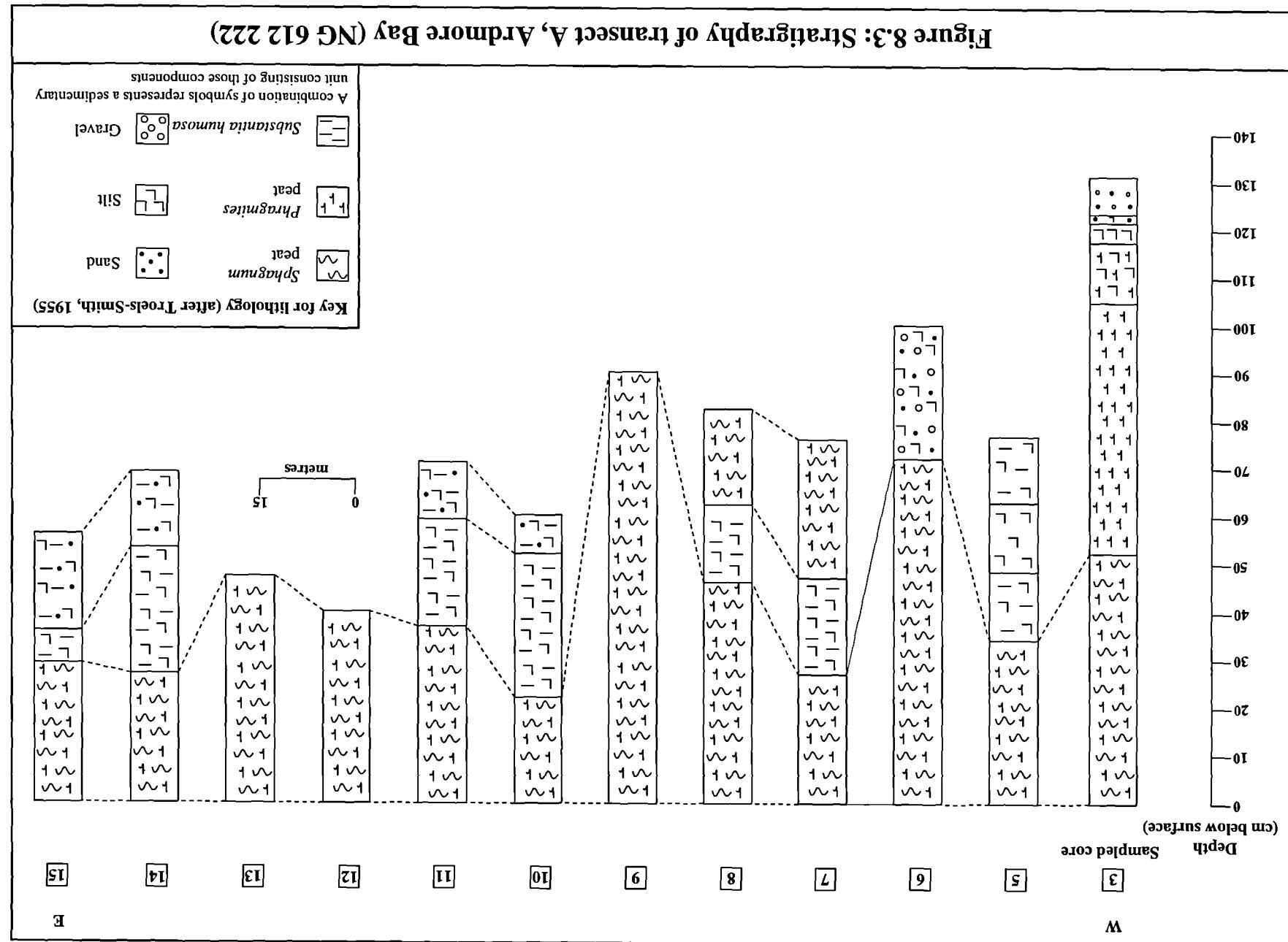


**Figure 7.8: Proposed basin development at Point of Sleat**



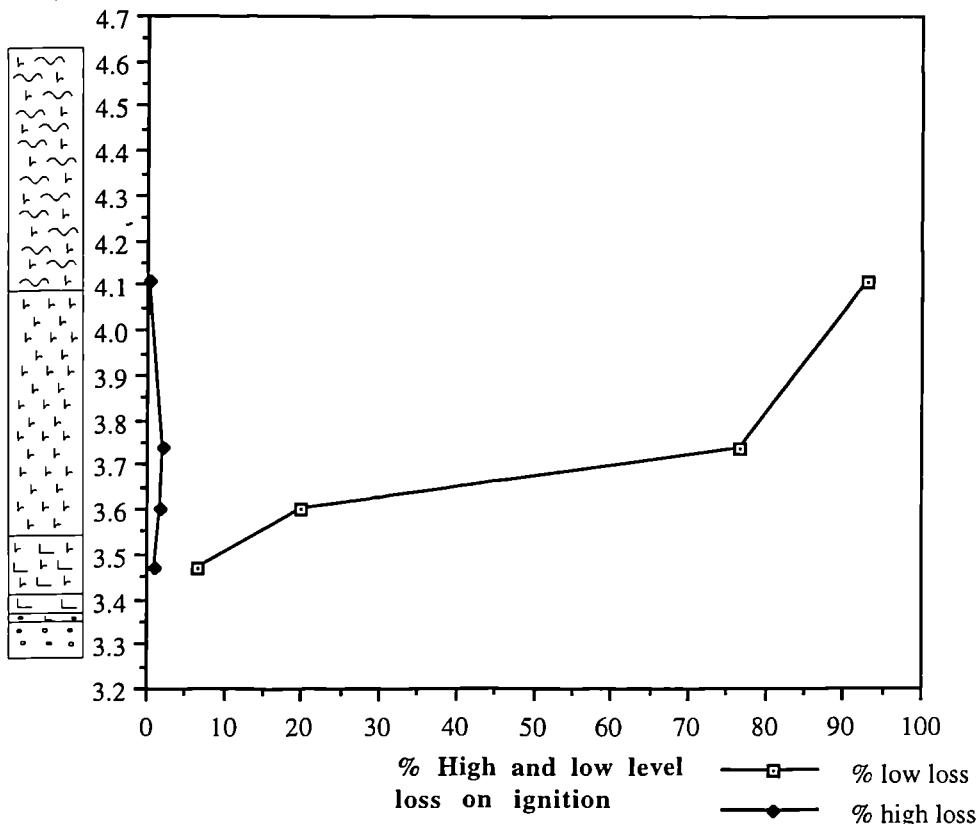






Altitude  
(mOD)

**Figure 8.4: High and low level loss on ignition  
for borehole 3, Ardmore Bay**



**Key for lithology (after Troels-Smith, 1955)**

Sphagnum peat    Sand

Phragmites peat    Silt

Gravel

A combination of symbols represents a sedimentary unit consisting of those components

**Figure 8.5:** Percentage pollen assemblage for Ardmore Bay

B rehole 3 (NG 2195 6100)  
Surface height 483 m OD

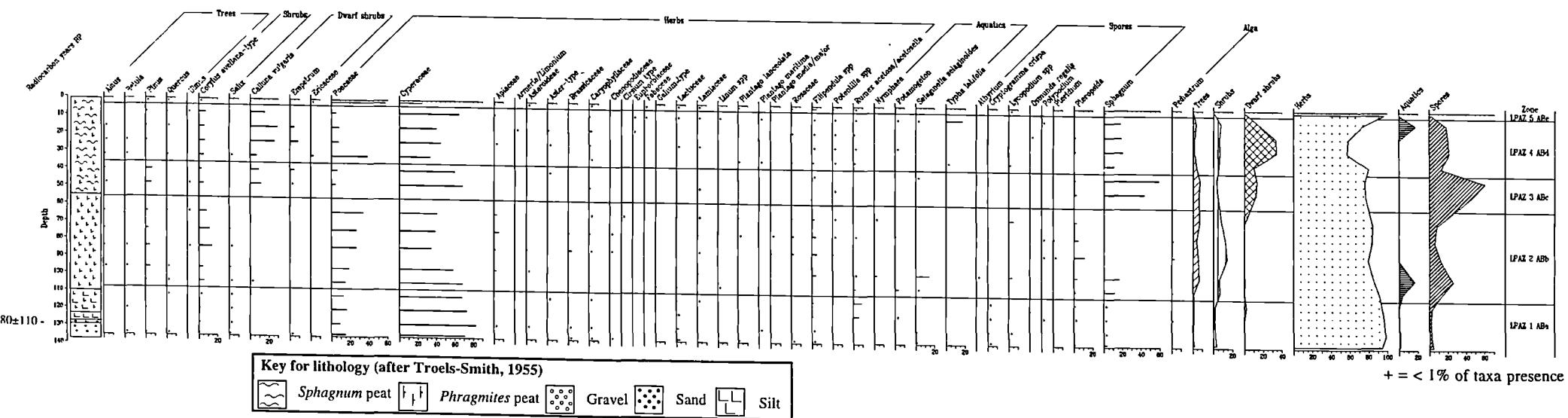
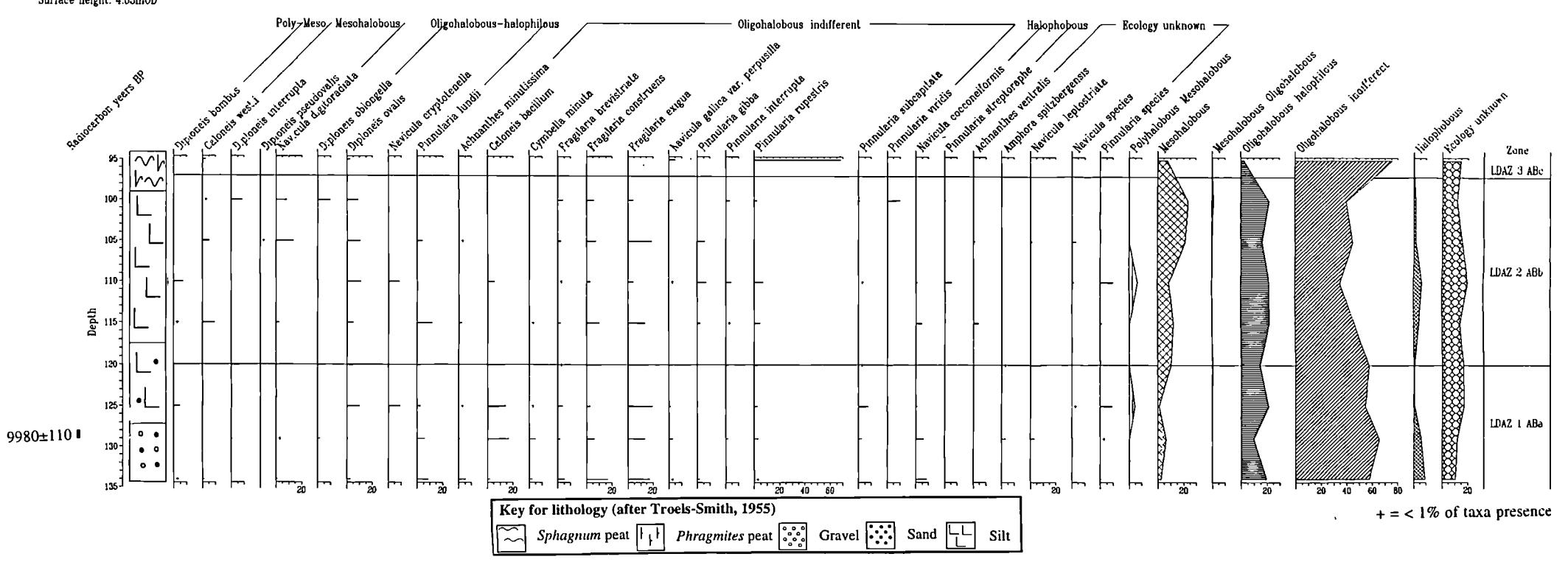
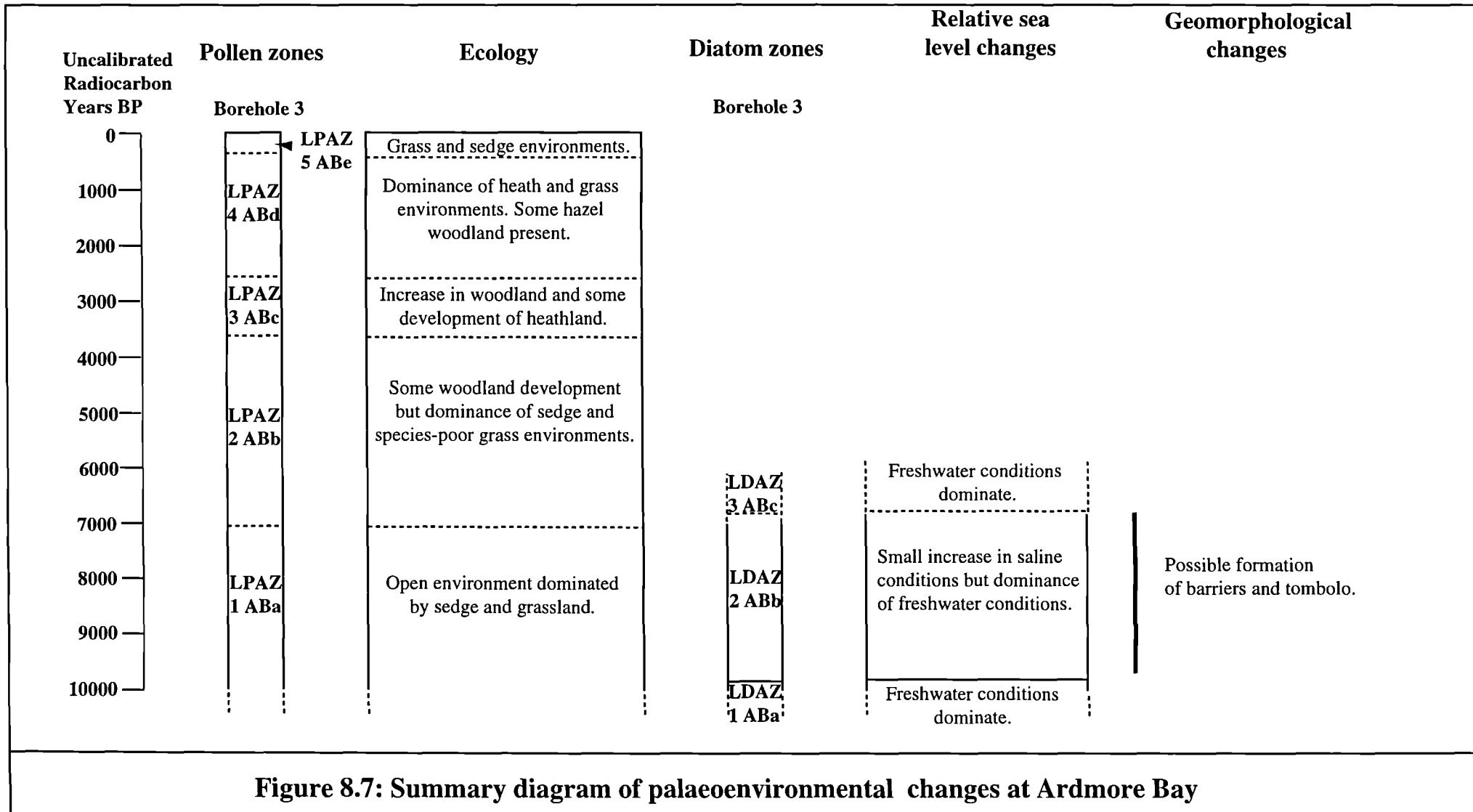
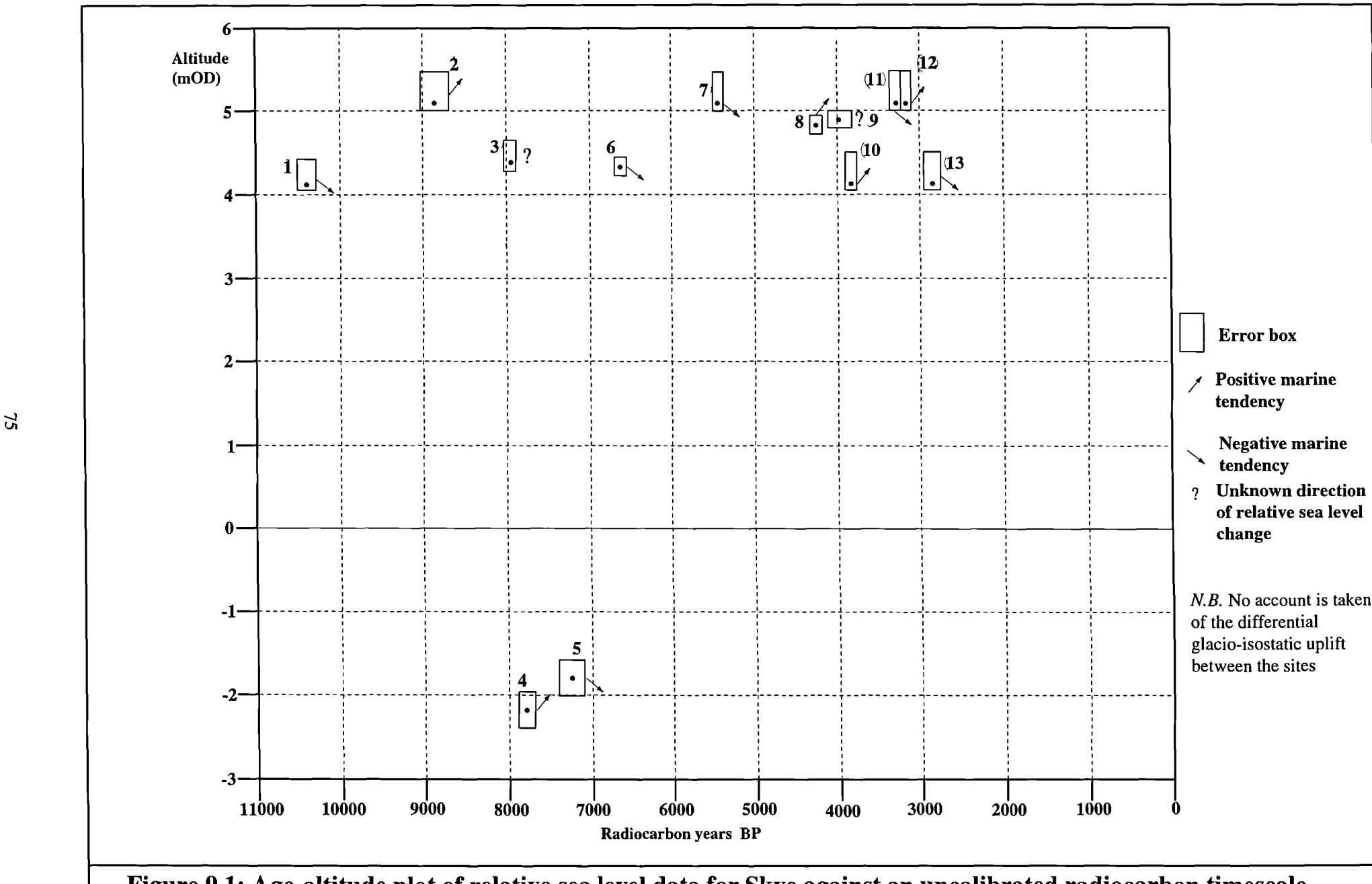


Figure 8.6: Summary percentage diatom assemblage and taxa over 5% for Ardmore Bay

Borehole: 3 (NG 2195 6100)  
Surface height: 4.63mOD







**Figure 9.1: Age-altitude plot of relative sea level data for Skye against an uncalibrated radiocarbon timescale**

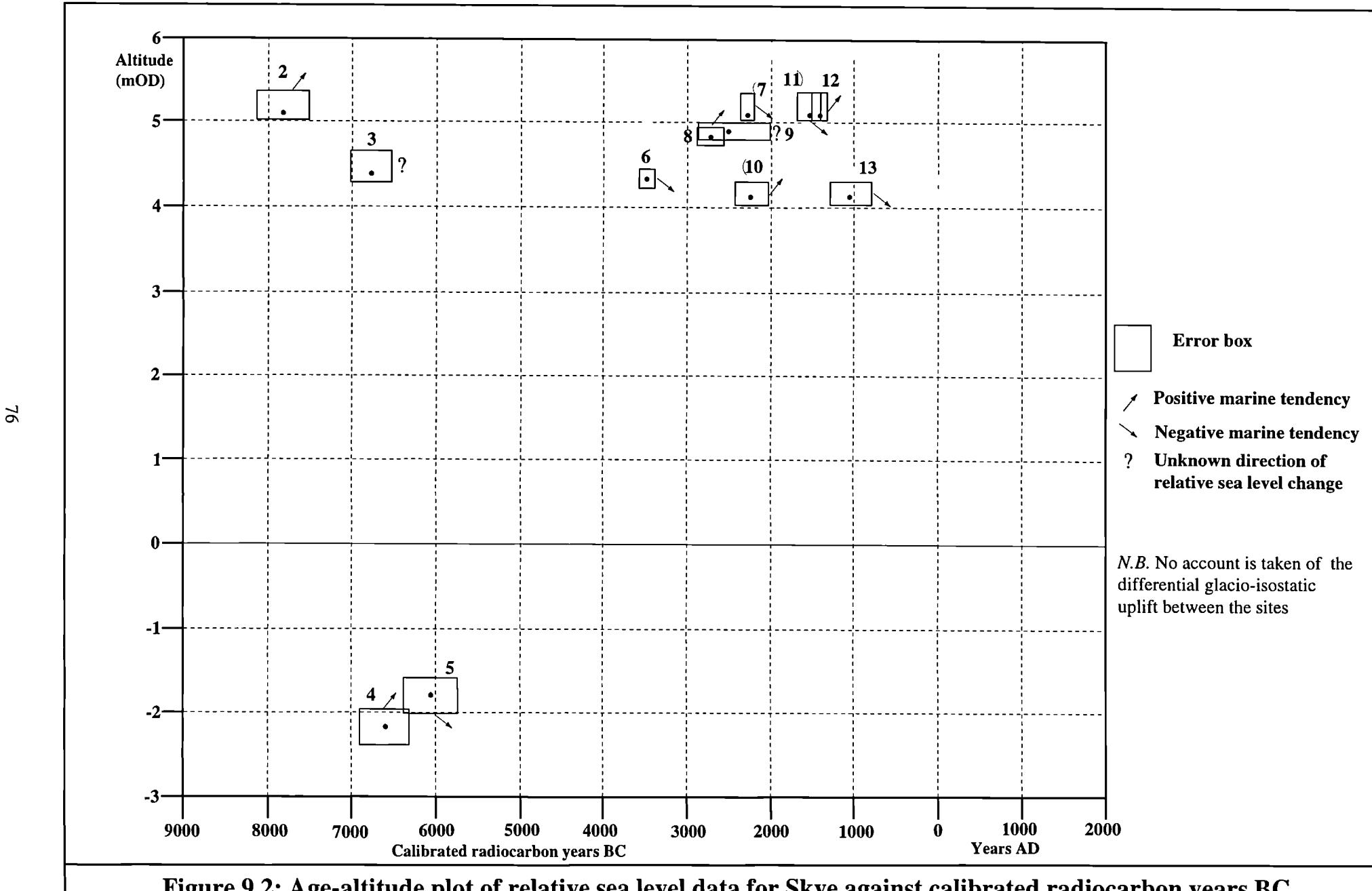
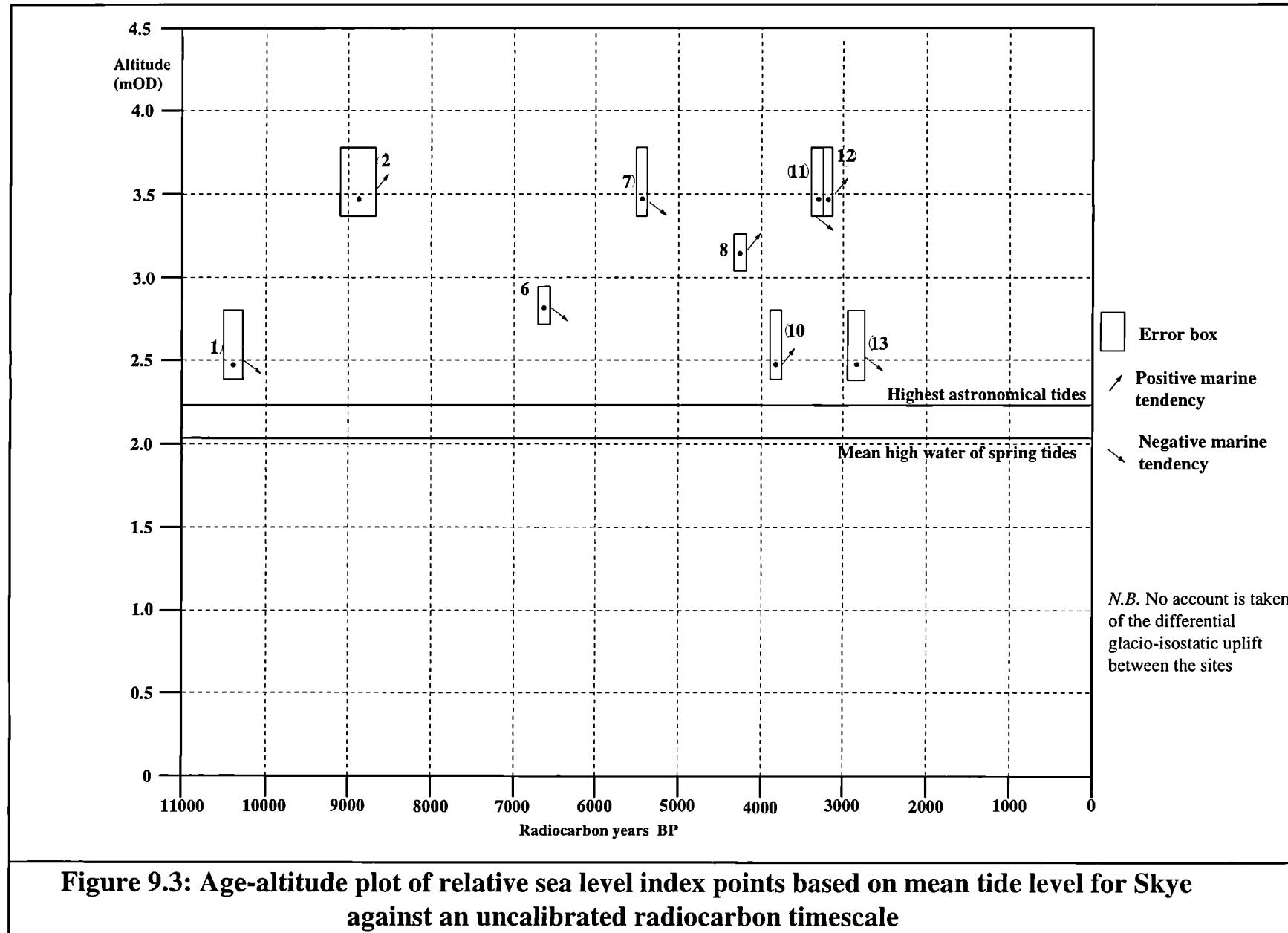
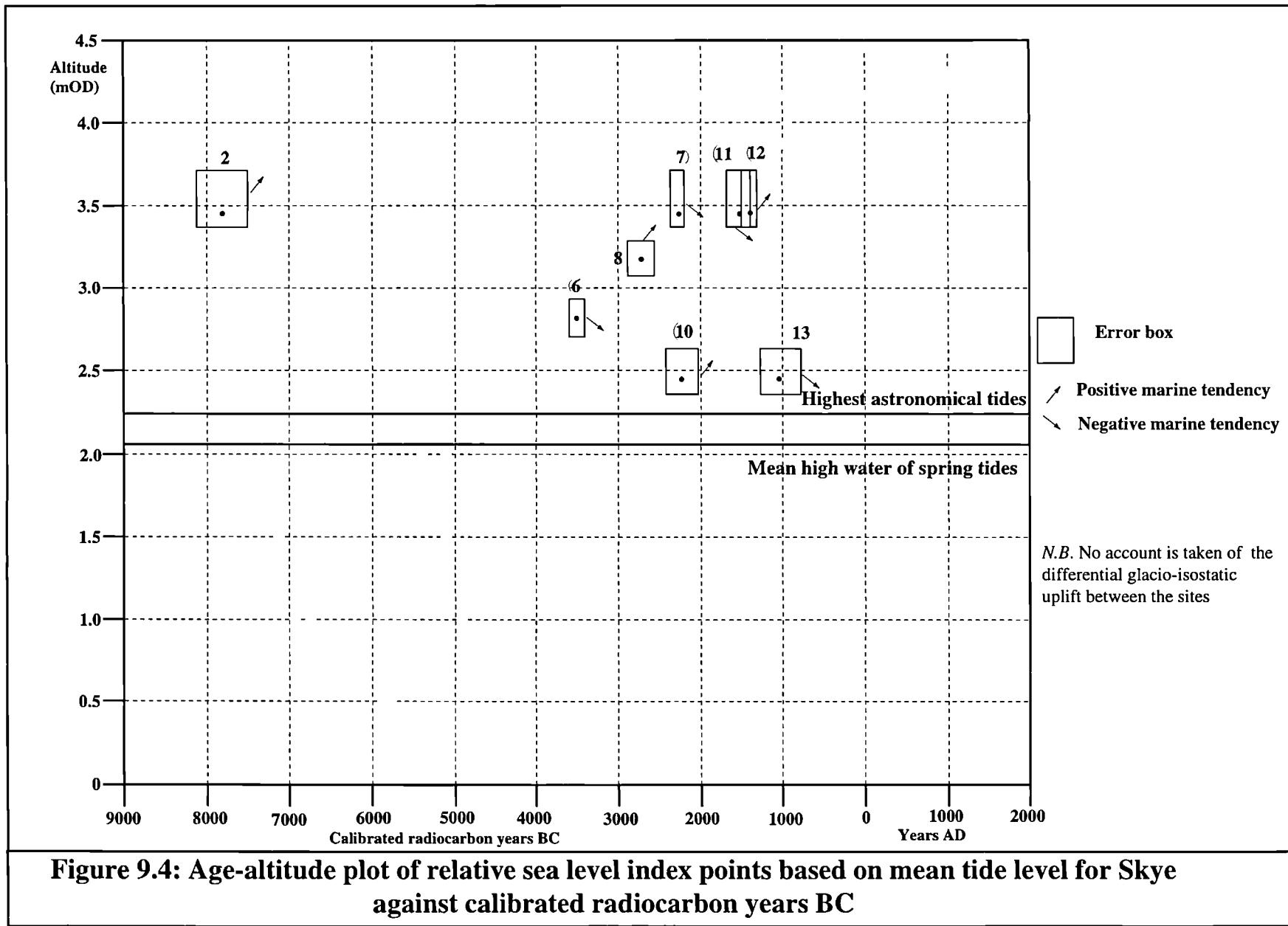
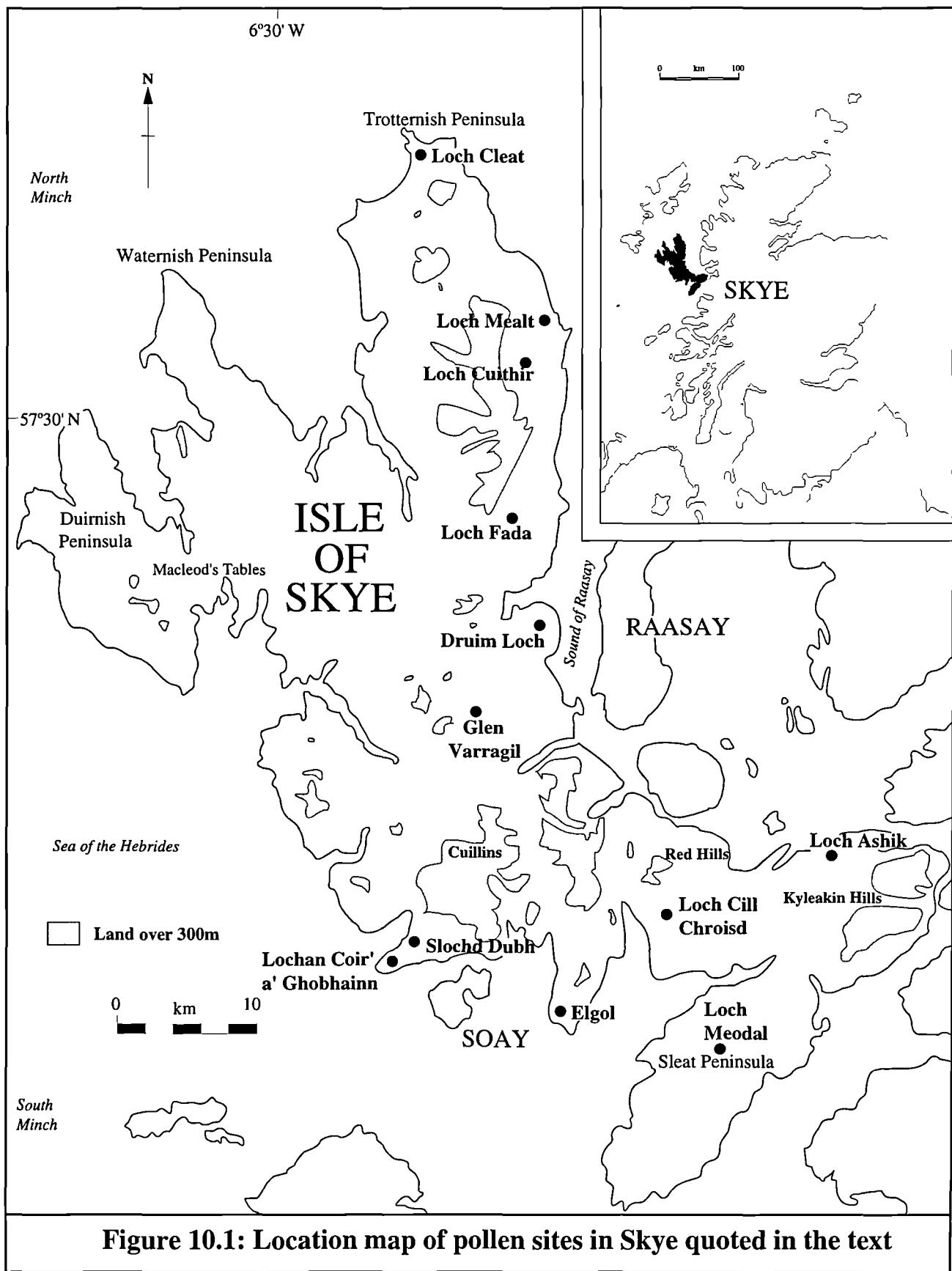


Figure 9.2: Age-altitude plot of relative sea level data for Skye against calibrated radiocarbon years BC







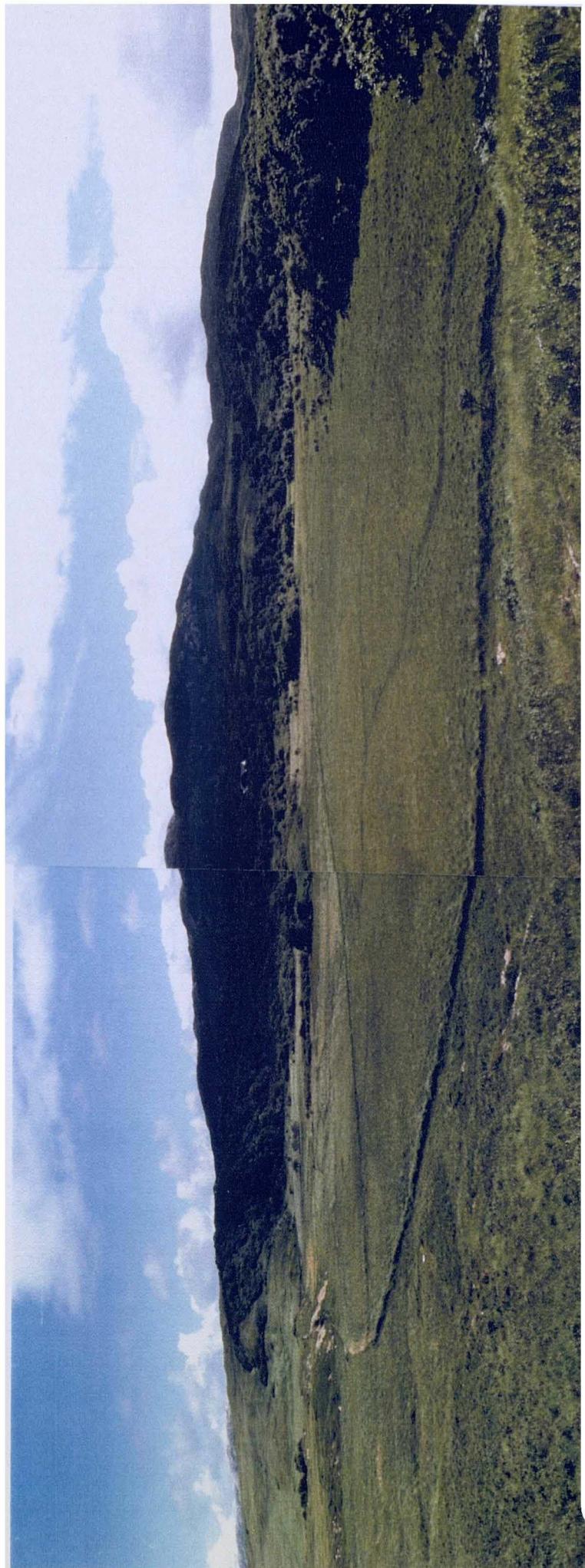
**Figure 10.1: Location map of pollen sites in Skye quoted in the text**

## **Appendices**

**Appendix 1: Photographs of the sites**

**Appendix 2: Borehole descriptions for the sites**

**Appendix 3: Complete ecological lists of diatom  
taxa identified at the sites**



Inver Aulavaig



Peinchorran



Talisker Bay



Point of Sleat

Ardmore Bay



## Appendix 2

### Borehole descriptions for the sites

#### Inver Aulavaig

Altitude (m OD)	Depth (cm)	Sedimentary description
Borehole 1 (NG 6057 1360)		
5.43 - 3.15	000-228	Brown fibrous peat
3.15	228	Impenetrable
Borehole 2 (NG 6056 1239)		
5.46 - 3.58	000-188	Brown fibrous peat
3.58	188	Impenetrable
Borehole 3 (NG 6055 1239)		
5.27 - 4.94	000- 33	Brown fibrous peat
4.94 - 1.64	33-363	Dark brown organic silt with fibres
1.64- -0.06	363-533	Dark grey organic silt
-0.06- -1.71	533-698	Brown organic silt with shell fragments
-1.71- -1.94	698-721	Light grey silty sandy shelly gravel
-1.94	721	Impenetrable
Borehole 3a (NG 6055 1238)		
5.23 - 0.23	000-500	Brown <i>Sphagnum</i> peat
0.23- -1.91	500-714	Brown-black <i>limus</i> with shell and wood fragments
-1.91- -5.08	714-1031	Brown <i>limus</i> with shell fragments that increase with depth
Borehole 4 (NG 6053 1238)		
5.74 - 5.36	000-38	Brown fibrous peat
5.36 - 4.56	38-118	Brown organic silt with small fibres
4.56 - 4.46	118-128	Brown grey silty sand
4.46 - 4.24	128-150	Brown grey organic sand
4.24 - 1.63	150-411	Brown <i>limus</i>
1.63 - 1.04	411-470	Dark grey-brown organic silt with some fibres
1.04- -0.26	470-600	Dark grey very fibrous organic silt
-0.26- -1.26	600-700	Grey silt with shell fragments
-1.26- -2.22	700-796	Light grey silty clay with fine sand and shell fragments
-2.22- -2.34	796-808	Light grey silt
-2.34- -2.79	808-853	Light grey sandy silt with shells
-2.79- -3.26	853-900	Light grey organic silt
-3.26	900	Stopped coring as exceeded length of rods available
Borehole 5 (NG 6049 1236)		
6.07 - 5.00	000-107	Brown fibrous peat
5.00 - 2.87	107-320	Brown fibrous <i>Phragmites</i> peat
2.87 - 2.72	320-335	Transitional grey organic silt
2.72 - 2.07	335-400	Grey silt
2.07 - 1.32	400-475	Brown fibrous peat
1.32- -0.93	475-700	Grey silt
-0.93- -1.96	700-803	Grey organic silt with shell and wood fragments
-1.96	803	Impenetrable
Borehole 6 (NG 6045 1233)		
6.47 - 4.62	000-185	Brown fibrous peat
4.62 - 4.26	185-221	Dark grey sandy silt
4.26 - 3.84	221-263	Brown organic silt

3.84 - 2.44	263-403	Grey silt
2.44 - 1.87	403-460	Brown organic silt
1.87 - 1.28	460-519	Grey brown organic silt
1.28 - 1.10	519-537	Light grey silt
1.10	537	Impenetrable

Borehole 7 (NG 6041 1231)		
7.01 - 4.68	000-233	Brown fibrous peat
4.68 - 4.63	233-238	Grey organic sand
4.63 - 4.54	238-247	Brown fibrous peat
4.54 - 4.23	247-278	Grey sand with wood and <i>Phragmites</i> fibres
4.23 - 3.94	278-307	Brown organic silt
3.94 - 3.39	307-362	Light grey sandy silt
3.39 - 2.52	362-449	Light brown woody peat
2.52 - 1.85	449-516	Brown organic silt
1.85 - 1.83	516-518	Grey silt
1.83 - 1.50	518-551	Brown organic silt
1.50 - 1.04	551-597	Grey blue clay
1.04 - 1.01	597-600	Grey silt with gravel and stones
1.01 - 0.61	600-640	Light grey clay with shells
0.61	640	Impenetrable

Borehole 8 (NG 6037 1228)		
7.14 - 4.89	000-225	Brown peat
4.89 - 4.64	225-250	Dark grey sand with wood fragments
4.64 - 4.56	250-258	Brown grey organic sandy silt
4.56 - 4.46	258-268	Grey silt
4.46 - 4.11	268-303	Grey organic silt
4.11 - 2.88	303-426	Grey clayey sandy silt
2.88 - 2.21	426-493	Brown organic silt
2.21 - 1.73	493-541	Grey silt
1.73 - 1.59	541-555	Grey sand
1.59 - 1.44	555-570	Brown organic silt
1.44 - 1.36	570-578	Grey silt
1.36 - 1.14	578-600	Brown organic silt
1.14	600	Impenetrable

Borehole 9 (NG 6033 1226)		
7.17 - 4.10	000-307	Brown fibrous peat
4.10 - 3.97	307-320	Dark grey sandy silt
3.97 - 3.88	320-329	Light grey fine sand
3.88 - 3.85	329-332	Grey coarse sand
3.85 - 3.17	332-400	Grey silt
3.17 - 3.01	400-416	Grey sand
3.01 - 2.72	416-445	Grey silt
2.72 - 2.17	445-500	Brown woody peat
2.17 - 1.90	500-527	Brown dense sand with gravel
1.90 - 1.17	527-600	Grey silt
1.17	600	Impenetrable

Borehole 10 (NG 6029 1224)		
8.22 - 6.08	000-214	Brown fibrous peat
6.08 - 6.04	214-218	Brown organic silt
6.04 - 5.75	218-247	Brown <i>Phragmites</i> peat
5.75 - 5.61	247-261	Brown organic silt
5.61	261	Impenetrable

Borehole 11 (NG 6028 1223)		
8.40 - 5.36	000-304	Brown fibrous peat
5.36 - 5.18	304-322	Brown fibrous organic silt
5.18 - 5.16	322-324	Grey organic sand
5.16 - 5.06	324-334	Brown fibrous organic silt
5.06 - 4.92	334-348	Grey sand
4.92	348	Impenetrable
Borehole 12 (NG 6043 1222)		
7.25 - 6.69	000- 56	Brown fibrous peat
6.69 - 6.61	56- 64	Brown organic silt
6.61	64	Impenetrable
Borehole 13 (NG 6042 1222)		
7.82 - 6.41	000-141	Red brown fibrous peat with wood
6.41 - 6.14	141-168	Brown grey organic silt
6.14	168	Impenetrable
Borehole 14 (NG 6041 1222)		
7.87 - 7.59	000- 28	Brown grey fibrous organic silt
7.59 - 6.47	28-140	Brown fibrous peat
6.47 - 6.07	140-180	Grey green silt with fibres
6.07	180	Impenetrable
Borehole 15 (NG 6039 1221)		
8.26 - 6.83	000-143	Brown fibrous peat
6.83 - 6.62	143-164	Brown grey organic silt with sand
6.62 - 6.56	164-170	Green organic silt with stones and gravel
6.56 - 6.34	170-192	Brown <i>limus</i>
6.34 - 5.81	192-245	Grey green organic silt with wood
5.81	245	Impenetrable
Borehole 16 (NG 6036 1219)		
8.47 - 5.88	000-259	Red brown fibrous peat
5.88	259	Impenetrable
Borehole 17 (NG 6035 1219)		
8.75 - 6.98	000-177	Red brown fibrous peat
6.98	177	Impenetrable
Borehole 18 (NG 6078 1333)		
6.12 - 4.12	000-200	Brown fibrous peat
4.12	200	Impenetrable
Borehole 19 (NG 6076 1333)		
5.97 - 3.97	000-200	Brown fibrous peat
3.97	200	Impenetrable
Borehole 20 (NG 6074 1332)		
7.00 - 4.69	000-231	Brown fibrous peat
4.69 - 4.41	231-259	Brown fibrous peat with sand layers
4.41 - 4.00	259-300	Brown fibrous peat
4.00 - 3.48	300-352	Brown grey organic silt
3.48 - 2.90	352-410	Brown grey organic silty sand with gravel and shell fragments
2.90 - 2.75	410-425	Dense silty sand with shell fragments
2.75 - 2.00	425-500	Brown grey silt
2.00 - 1.80	500-520	Brown grey silt with shells
1.80 - 0.00	520-700	Green silt

0.00	700	Impenetrable
Borehole 21 (NG 6073 1332)		
5.78 - 3.37	000-241	Brown fibrous peat
3.37 - 3.22	241-256	Brown fibrous peat with grey sand layers
3.22 - 2.28	256-350	Brown fibrous organic silt
2.28- -0.37	350-615	Brown grey organic silt with wood fragments
-0.37- -1.43	615-721	Brown grey organic sandy silt with wood fragments
-1.43	721	End on stone
Borehole 22 (NG 6058 1330)		
5.84 - 5.35	000- 49	Brown fibrous peat
5.35 - 5.23	49- 61	Brown grey organic silt with fibres
5.23 - 4.82	61-102	Brown grey silt
4.82 - 3.36	102-248	Brown fibrous woody peat
3.36 - 2.68	248-316	Brown <i>substantia humosa</i>
2.68 - 1.84	316-400	Brown organic silt
1.84 - 1.54	400-430	Brown peat with wood
1.54- -0.48	430-632	Brown organic silt
-0.48	632	Impenetrable
Borehole 23 (NG 6054 1329)		
5.99 - 4.09	000-190	Brown fibrous peat
4.09 - 4.04	190-195	Grey coarse sand
4.04 - 2.41	195-358	Brown grey organic silt
2.41	358	End on cobble
Borehole 24 (NG 6040 1237)		
6.54 - 5.60	000- 94	Brown fibrous organic silt
5.60	94	Impenetrable
Borehole 25 (NG 6041 1236)		
6.50 - 4.81	000-169	Brown fibrous peat
4.81	169	Impenetrable
Borehole 26 (NG 6041 1235)		
6.42 - 5.90	000- 52	Brown fibrous peat
5.90 - 5.79	52- 63	Grey brown fibrous peat
5.79 - 4.20	63-222	Brown grey fibrous organic silt
4.20 - 3.88	222-254	Grey green organic silt with <i>Phragmites</i> fibres
3.88 - 2.17	254-425	Grey silty clay with coarse sand and fine gravel
2.17 - 1.55	425-487	Light brown <i>limus</i>
1.55 - 0.75	487-567	Green organic silt
0.75 - 0.22	567-620	Grey blue clay
0.22- -0.02	620-644	Dark blue grey medium sand and fine gravel
-0.02	644	Impenetrable
Borehole 27 (NG 6043 1231)		
6.40 - 6.24	000- 16	Brown fibrous peat
6.24 - 5.53	16- 87	Brown fibrous organic sand
5.53 - 4.14	87-226	Brown <i>substantia humosa</i> with wood
4.14 - 3.96	226-244	Brown grey organic sand with <i>Phragmites</i> fibres
3.96 - 3.50	244-290	Brown grey organic silt
3.50 - 3.40	290-300	Brown grey organic sandy silt with fibres
3.40 - 1.00	300-540	Brown grey organic silt
1.00 - 0.86	540-554	Brown grey organic silt with shells
0.86- -0.08	554-648	Brown <i>limus</i>
-0.08- -0.60	648-700	Grey brown slightly sandy silt

-0.60- -1.04	700-744	Blue grey clay
-1.04	744	Impenetrable
<b>Borehole 28 (NG 6044 1228)</b>		
6.48 - 6.24	000- 24	Dark brown fibrous peat
6.24 - 4.90	24-158	Light brown fibrous peat
4.90 - 4.59	158-189	Grey brown sandy silt with some fibres
4.59 - 4.11	189-237	Grey brown clay with sand, stones and wood
4.11	237	Impenetrable
<b>Borehole 29 (NG 6045 1225)</b>		
6.16 - 4.86	000-130	Brown fibrous peat
4.86 - 4.34	130-182	Dark brown organic silt with some gravel at base
4.34	182	Impenetrable
<b>Borehole 30 (NG 6035 1228)</b>		
7.60 - 5.38	000-222	Brown fibrous peat
5.38 - 4.91	222-269	Grey green silt with some sand, wood and fibres
4.91 - 4.66	269-294	Brown <i>limus</i>
4.66 - 4.30	294-330	Grey green <i>limus</i>
4.30	330	Impenetrable
<b>Borehole 31 (NG 6037 1227)</b>		
7.38 - 5.30	000-208	Brown fibrous peat
5.30 - 4.94	208-244	Brown grey organic silt
4.94 - 4.77	244-261	Grey slightly sandy silt
4.77 - 4.25	261-313	Light brown <i>limus</i>
4.25	313	Impenetrable
<b>Borehole 32 (NG 6043 1219)</b>		
8.48 - 8.34	000- 14	Brown fibrous peat
8.34 - 8.14	14- 34	Dense dark grey organic silty sand
8.14 - 7.48	34-100	Brown fibrous peat
7.48	100	Impenetrable
<b>Borehole 33 (NG 6045 1216)</b>		
9.07 - 8.47	000- 60	Dark brown grey <i>substantia humosa</i>
8.47	60	Impenetrable
<b>Borehole 34 (NG 6030 1236)</b>		
8.36 - 5.20	000-316	Brown fibrous peat
5.20	316	Impenetrable
<b>Borehole 35 (NG 6031 1235)</b>		
8.19 - 4.84	000-335	Brown fibrous peat
4.84 - 4.19	335-400	Dark grey sandy silt
4.19 - 2.42	400-577	Brown <i>limus</i>
2.42	577	Impenetrable
<b>Borehole 36 (NG 6032 1234)</b>		
7.98 - 5.75	000-223	Brown <i>Sphagnum</i> peat with <i>Juncus</i> and <i>Eriophorum</i> fibres and wood fragments
5.75 - 4.70	223-328	Brown fibrous <i>Phragmites</i> peat
4.70 - 4.23	328-375	Brown silty sand
4.23 - 4.06	375-392	Brown grey silt with sand and gravel
4.06 - 3.81	392-417	Brown grey silty clay
3.81 - 3.47	417-453	Black peat with <i>P. australis</i> fibres
3.47 - 1.88	453-610	Brown <i>limus</i>

1.88 - 1.66	610-632	Grey brown clay
1.66 - 1.36	632-662	Brown grey organic silty sand
1.36 - 1.10	662-688	Dark grey silty clay
1.10 - 0.64	688-736	Light grey silty clay with shell fragments
0.64 - 0.48	736-750	Brown grey coarse sand with some clay
0.48	750	Impenetrable
<b>Borehole 37 (NG 6033 1232)</b>		
7.77 - 5.00	000-277	Brown fibrous peat
5.00 - 4.82	277-295	Brown grey fibrous organic silt
4.82 - 4.79	295-298	Black fibrous peat
4.79 - 3.02	298-475	Dark grey sandy silt
3.02 - 1.41	475-636	Brown <i>substantia humosa</i>
1.41 - 0.48	636-729	Blue grey clay with shells
0.48	729	Impenetrable
<b>Borehole 38 (NG 6025 1231)</b>		
8.97 - 6.54	000-243	Brown fibrous peat
6.54	243	Impenetrable
<b>Borehole 39 (NG 6027 1227)</b>		
8.95 - 5.10	000-385	Brown fibrous peat
5.10 - 4.79	385-416	Dark grey sand
4.79 - 3.93	416-502	Transitional brown peat to brown <i>limus</i>
3.93 - 2.95	502-600	Blue grey clay
2.95	600	Impenetrable
<b>Borehole 40 (NG 6025 1226)</b>		
9.87 - 6.52	000-335	Brown fibrous peat
6.52	335	Impenetrable
<b>Borehole 41 (NG 6023 1216)</b>		
9.14 - 5.54	000-360	Brown fibrous peat
5.54 - 5.27	360-387	Dark grey sand with fine gravel
5.27	387	Impenetrable
<b>Borehole 42 (NG 6040 1240)</b>		
9.15 - 8.53	000- 62	Brown fibrous organic silt
8.53	62	Impenetrable
<b>Borehole 43 (NG 6047 1220)</b>		
8.15 - 6.75	000-140	Brown fibrous peat
6.75	140	Impenetrable
<b>Borehole 44 (NG 6053 1232)</b>		
5.78 - 3.22	000-256	Brown fibrous peat
3.22 - 2.18	256-360	Brown <i>substantia humosa</i>
2.18- -2.99	360-877	Grey brown organic silt
-2.99	877	Impenetrable
<b>Borehole 45 (NG 6054 1240)</b>		
5.35 - 5.22	000- 13	Brown fibrous peat
5.22 - 4.61	13- 74	Dark grey fibrous organic silt
4.61 - 3.84	74-151	Dark grey organic silt
3.84	151	Impenetrable
<b>Borehole 46 (NG 6053 1240)</b>		
5.52 - 5.30	000- 22	Brown fibrous peat

5.30 - 3.17	22-235	Brown fibrous organic silt
3.17 - 2.91	235-261	Brown silt
2.91 - 2.52	261-300	Brown silt with shell fragments
2.52	300	End on gravel
<b>Borehole 47 (NG 6055 1237)</b>		
5.25 - 1.95	000-330	Brown fibrous organic silt
1.95 - 1.13	330-412	Brown organic silt with small fibres
1.13 - 0.86	412-439	Dark grey organic silt
0.86- -0.25	439-550	Grey brown organic silt
-0.25- -3.75	550-900	Grey brown organic silt with shells
-3.75	900	Impenetrable
<b>Borehole 48 (NG 6057 1233)</b>		
5.38 - 1.21	000-417	Brown fibrous <i>Phragmites</i> peat
1.21 - 0.93	417-445	Brown organic silt
0.93- -0.02	445-540	Dark grey silt
-0.02- -2.62	540-800	Brown organic silt
-2.62- -3.12	800-850	Brown organic silt with shells and wood
-3.12	850	Impenetrable
<b>Borehole 49 (NG 6059 1227)</b>		
6.51 - 5.44	000-107	Brown fibrous peat
5.44 - 5.24	107-127	Brown fibrous organic silt
5.24 - 5.03	127-148	Brown fibrous organic silt with fine sand, medium gravel and wood
5.03 - 4.79	148-172	Dark grey coarse sand with wood
4.79 - 4.60	172-191	Blue grey medium sand
4.60 - 4.11	191-240	Brown organic silt
4.11 - 4.06	240-245	Brown grey silt
4.06 - 3.63	245-288	Blue grey clay
3.63	288	Impenetrable
<b>Borehole 50 (NG 6061 1225)</b>		
7.13 - 6.71	000- 42	Brown grey organic silt
6.71	42	End on stone/gravel
<b>Borehole 51 (NG 6062 1223)</b>		
7.17 - 5.91	000-126	Brown fibrous organic silt
5.91 - 5.57	126-160	Brown grey sandy silt
5.57 - 5.08	160-209	Brown fibrous peat
5.08 - 4.93	209-224	Brown grey organic silt
4.93 - 4.75	224-242	Brown grey organic silt with sand and gravel
4.75	242	Impenetrable
<b>Borehole 52 (NG 6076 1229)</b>		
6.11 - 4.01	000-210	Brown fibrous peat
4.01 - 3.71	210-240	Dark grey coarse sand with some fine gravel
3.71 - 3.40	240-271	Brown grey organic silt
3.40 - 1.41	271-470	Grey green silt
1.41 - 1.35	470-476	Grey coarse sand
1.35 - 1.30	476-481	Medium grey silty clay
1.30 - 1.25	481-486	Grey coarse sand
1.25 - 0.70	486-541	Grey clay with some gravel at base
0.70	541	Impenetrable

## Peinchorran

<b>Altitude (m OD)</b>	<b>Depth (cm)</b>	<b>Sedimentary description</b>
Borehole F (NG 5288 3320)		
8.29 - 7.34	000- 95	Red brown fibrous <i>Sphagnum</i> peat with wood
7.34 - 6.94	95-135	Brown black peat with <i>P. australis</i> fibres
6.94 - 5.79	135-250	Red brown black fibrous peat
5.79 - 5.59	250-270	Brown black peat with <i>Phragmites</i> fibres
5.59 - 5.14	270-315	Brown black organic silt
5.14 - 4.71	315-358	Grey brown organic sandy silt
4.71 - 4.47	358-382	Black <i>substantia humosa</i>
4.47 - 4.29	382-400	Grey brown sandy silt
4.29 - 4.25	400-404	Brown black <i>substantia humosa</i>
4.25	404	Impenetrable
Borehole 1 (NG 5287 3309)		
8.99 - 5.39	000-360	Brown peat
5.39 - 5.22	360-377	Dark grey brown organic silt
5.22 - 5.14	377-385	Dark brown black peat
5.14 - 5.07	385-392	Light brown organic silt
5.07 - 4.87	392-412	Dark blue green silty sand
4.87 - 4.80	412-419	Dark blue green sand with wood
4.80 - 4.66	419-433	Dark brown <i>substantia humosa</i>
4.66 - 4.61	433-438	Brown organic sand
4.61 - 4.55	438-444	Dark blue grey silty sand
4.55	444	Impenetrable
Borehole 2 (NG 5286 3305)		
8.42 - 5.95	000-247	Dark brown <i>Phragmites</i> and <i>Sphagnum</i> peat
5.95 - 5.88	247-254	Dark brown organic silt
5.88 - 5.81	254-261	Black clay
5.81 - 5.65	261-277	Dark brown peat with wood
5.65 - 5.48	277-294	Grey green organic silt
5.48	294	Impenetrable
Borehole 3 (NG 5285 3303)		
8.27 - 6.26	000-201	Brown <i>Sphagnum</i> peat with fibres
6.26 - 6.14	201-213	Brown organic silt
6.14 - 6.05	213-222	Brown <i>substantia humosa</i>
6.05 - 5.97	222-230	Brown organic silt
5.97 - 5.91	230-236	Black clay with shell fragments
5.91 - 5.49	236-278	Dark brown grey organic silt
5.49	278	Impenetrable
Borehole 4 (NG 5285 3299)		
8.10 - 7.49	000- 61	Brown <i>Sphagnum</i> peat
7.49	61	Impenetrable
Borehole 5 (NG 5285 3299)		
8.09 - 6.21	000-188	Brown <i>Sphagnum</i> peat
6.21	188	Impenetrable
Borehole 6 (NG 5286 6298)		
7.51 - 6.33	000-118	Brown <i>Sphagnum</i> peat
6.33	118	Impenetrable

Borehole 7 (NG 5288 3319)		
7.34 - 5.53	000-181	Brown peat
5.53	181	Impenetrable
Borehole 9 (NG 5289 3322)		
6.54 - 4.94	000-160	Brown <i>Sphagnum</i> peat
4.94	160	Impenetrable
Borehole 10 (NG 5289 3326)		
6.19 - 4.12	000-207	Brown <i>Sphagnum</i> and <i>Phragmites</i> peat
4.12 - 4.08	207-211	Grey brown organic silt
4.08 - 3.77	211-242	Dark blue grey sand with some gravel
3.77 - 3.61	242-258	Brown peat
3.61 - 3.47	258-272	Brown organic silt
3.47 - 3.44	272-275	Grey green organic silt
3.44 - 2.84	275-335	Grey blue silty sand
2.84	335	Impenetrable
Borehole 11 (NG 5293 3329)		
5.86 - 4.26	000-160	Brown <i>Sphagnum</i> peat
4.26	160	Impenetrable
Borehole 12 (NG 5295 3351)		
6.05 - 5.95	000- 10	Brown topsoil
5.95 - 4.78	10-127	Brown sandy silty clay
4.78	127	Impenetrable
Borehole 13 (NG 5296 3362)		
5.62 - 4.53	000-109	Brown <i>substantia humosa</i>
4.53	109	Impenetrable
Borehole 14 (NG 5296 3371)		
5.71 - 4.66	000-105	Brown <i>Sphagnum</i> peat
4.66	105	Impenetrable
Borehole 15 (NG 5295 3372)		
5.87 - 4.27	000-160	Brown <i>Sphagnum</i> peat
4.27 - 4.04	160-183	Brown organic silt
4.04 - 3.87	183-200	Grey blue silty sand
3.87 - 3.33	200-254	Grey blue silt
3.33	254	Impenetrable
Borehole 16 (NG 5293 3375)		
7.62 - 5.79	000-183	Brown <i>Sphagnum</i> peat
5.79 - 5.62	183-200	Grey green organic silt
5.62 - 5.49	200-213	Dark blue grey sand
5.49 - 5.00	213-262	Dark grey blue clay
5.00	262	Impenetrable
Borehole 17 (NG 5292 3378)		
6.51 - 4.33	000-218	Brown <i>Sphagnum</i> peat
4.33 - 4.25	218-226	Green grey organic silt
4.25 - 4.13	226-238	Dark blue grey sand with <i>Phragmites</i> fragments and wood
4.13 - 3.96	238-255	Dark blue grey sand
3.96 - 3.86	255-265	Dark blue grey clay
3.86	265	Impenetrable

Borehole a (NG 5289 3311)		
9.29 - 5.49	000-380	Brown <i>Sphagnum</i> peat
5.49 - 5.40	380-389	Brown organic silty clay
5.40 - 5.28	389-401	Brown peat
5.28 - 5.01	401-428	Brown organic silty clay
5.01 - 5.00	428-429	Grey green silty clay
5.00	429	Impenetrable

Borehole b (NG 5292 3311)		
9.35 - 6.02	000-333	Brown <i>Sphagnum</i> peat
6.02 - 5.95	333-340	Brown organic silty clay
5.95 - 5.75	340-360	Dark brown peat
5.75 - 5.72	360-363	Grey brown organic silt
5.72 - 5.48	363-387	Dark brown organic silty clay
5.48	387	Impenetrable

Borehole c (NG 5294 3311)		
9.43 - 7.93	000-150	Brown <i>Sphagnum</i> peat
7.93 - 7.16	150-227	Brown organic silt
7.16 - 7.13	227-230	Dark brown organic silt
7.13	230	Impenetrable

Borehole d (NG 5296 3311)		
9.65 - 6.32	000-333	Brown <i>Sphagnum</i> peat
6.32 - 6.11	333-354	Brown organic silty clay
6.11 - 5.93	354-372	Dark blue grey silty sand
5.93 - 5.56	372-409	Dark brown black <i>substantia humosa</i>
5.56	409	Impenetrable

Borehole e (NG 5283 3312)		
7.85 - 6.00	000-185	Brown <i>Sphagnum</i> peat
6.00 - 5.67	185-218	Dark brown grey organic silt
5.67 - 5.35	218-250	Light brown silt
5.35	250	Impenetrable

Borehole f (NG 5278 3312)		
7.72 - 5.31	000-241	Brown <i>Sphagnum</i> peat
5.31 - 4.99	241-273	Grey brown organic silt
4.99	273	Impenetrable

Borehole g (NG 5276 3312)		
7.67 - 5.61	000-206	Brown <i>Sphagnum</i> peat
5.61 - 5.39	206-228	Brown organic silt
5.93 - 5.28	228-239	Black organic silt
5.28 - 5.08	239-259	Light brown silt
5.08 - 4.93	259-274	Dark olive green organic silt
4.93 - 4.90	274-277	Blue grey organic silt
4.90	277	Impenetrable

## Talisker Bay

<b>Altitude (m OD)</b>	<b>Depth (cm)</b>	<b>Sedimentary description</b>
<b>Borehole A1 (NG 3155 3005)</b>		
11.95 - 11.30	000- 65	Dark brown silty sand
11.30 - 11.25	65- 70	Dark grey sand, less silty with depth
11.25	70	Impenetrable
<b>Borehole A2 (NG 3064 3007)</b>		
6.31 - 5.91	000- 40	Brown topsoil with roots of vegetation
5.91 - 5.63	40- 68	Dense brown clayey sandy silt
5.63	68	Impenetrable
<b>Borehole A3 (NG 3069 3008)</b>		
5.47 - 4.53	000- 94	Brown sandy clayey silt
4.53 - 4.47	94-100	Dark grey sand
4.47 - 4.32	100-115	Orange clayey silt with <i>Phragmites</i> fibres
4.32 - 4.19	115-128	Dark grey sand
4.19 - 3.07	128-240	Dark blue grey sand
3.07 - 3.03	240-244	Dark grey sand
3.03 - 2.82	244-265	Dark grey sand and shell fragments
2.82	265	Impenetrable
<b>Borehole A4 (NG 3080 3010)</b>		
5.27 - 4.97	000- 30	Brown <i>Phragmites</i> peat
4.97 - 4.82	30- 45	Dark grey blue sand
4.82 - 4.57	45- 70	Brown organic clay
4.57 - 4.44	70- 83	Dark grey sand and gravel
4.44 - 3.17	83-210	Brown fibrous peat
3.17 - 2.96	210-231	Light grey clay
2.96 - 2.27	231-300	Brown peat
2.27 - 1.17	300-410	Brown organic clayey silt
1.17 - 0.82	410-445	Dark grey blue sand and small shell fragments
0.82	445	Impenetrable
<b>Borehole A5 (NG 3190 3012)</b>		
5.02 - 4.95	000- 7	Dark brown fibrous organic silt
4.95 - 4.71	7- 31	Brown organic silt
4.71 - 3.27	31-175	Dark brown organic silt with <i>Phragmites</i> and <i>Sphagnum</i> fibres
3.27 - 2.43	175-259	Light yellow brown organic silty sand
2.43- -0.72	259-574	Dark brown organic silt
-0.72- -1.14	574-616	Brown organic silty sand
-1.14- -1.92	616-694	Brown organic silt
-1.92- -2.31	694-733	Light brown grey organic silty sand
-2.31- -2.65	733-767	Brown <i>substantia humosa</i>
-2.65- -3.02	767-800	Brown grey coarse sand and gravel
-3.02	800	Impenetrable
<b>Borehole A6 (NG 3200 3013)</b>		
5.00 - 4.60	000- 40	Brown organic silt
4.60 - 4.40	40- 60	Brown peat
4.40 - 4.13	60- 87	Brown <i>Phragmites</i> peat
4.13 - 3.88	87-112	Brown organic silt with <i>Phragmites</i> fibres
3.88 - 3.07	112-193	Brown <i>Phragmites</i> peat
3.07 - 2.91	193-209	Grey silt
2.91- -1.71	209-671	Brown organic silt
-1.71- -1.74	671-674	Dark brown fibrous peat

-1.74- -1.81	674-681	Brown sandy silty clay
-1.81- -1.84	681-684	Dark grey sand with some shell fragments
-1.84	684	Impenetrable

Borehole A7 (NG 3213 3016)

5.61 - 5.49	000- 12	Brown fibrous peat
5.49 - 5.11	12- 50	Brown organic clayey silt
5.11 - 4.73	50- 88	Brown organic silt
4.73 - 4.71	88- 90	Dark grey sand with some shell fragments
4.71 - 4.61	90-100	Brown peat
4.61 - 3.51	100-210	Brown <i>Phragmites</i> peat
3.51 - 0.72	210-489	Brown organic silt
0.72 - 0.61	489-500	Dark grey sand with gravel
0.61	500	Impenetrable

Borehole A8 (NG 3220 3017)

5.95 - 5.78	000- 17	Reddish brown <i>Phragmites</i> peat
5.78 - 5.45	17- 50	Brown organic silt
5.45 - 5.44	50- 51	Dark grey sand
5.44 - 5.15	51- 80	Brown grey organic sandy silt
5.15 - 5.13	80- 82	Dark grey sand
5.13 - 5.06	82- 89	Brown grey organic sandy silt
5.06 - 5.04	89- 91	Dark grey sand
5.04 - 4.95	91-100	Brown grey organic sandy silt
4.95 - 4.92	100-103	Brown fibrous peat
4.92 - 4.30	103-165	Dark brown grey silt
4.30 - 4.14	165-181	Dark grey brown gravel
4.14 - 3.55	181-240	Brown organic silt
3.55 - 3.05	240-290	Brown <i>Phragmites</i> peat
3.05 - 3.02	290-293	Dark grey gravel
3.02 - 2.58	293-337	Brown organic silt
2.58 - 1.98	337-397	Brown fibrous woody peat
1.98 - 1.95	397-400	Brown clayey silt
1.95 - 1.66	400-429	Brown fibrous peat
1.66 - 1.21	429-474	Black peat with some wood fragments
1.21 - 1.17	474-478	Dark grey sand
1.17 - 1.00	478-495	Brown organic silt
1.00 - 0.73	495-522	Dark grey blue sand
0.73	522	Impenetrable

Borehole A9 (NG 3031 3018)

7.12 - 6.32	000- 80	Brown topsoil
6.32	80	Impenetrable

Borehole B2 (NG 3062 3017)

5.21 - 4.78	000- 43	Brown silty sand
4.78 - 4.74	43- 47	Orange mottling within brown grey sand
4.74 - 4.72	47- 49	Dark blue grey coarse sand with gravel
4.72	49	Impenetrable

Borehole B3 (NG 3072 3017)

4.30 - 3.88	000- 42	Grey brown fibrous organic sandy silt
3.88 - 3.59	42- 71	Brown fibrous peat
3.59 - 3.25	71-105	Light grey clay
3.25 - 2.40	105-190	Brown organic silt with some wood
2.40- -0.70	190-500	Dark grey sand
-0.70	500	Impenetrable

Borehole B4 (NG 3078 3019)

4.33 - 4.27	000- 6	Dark brown fibrous <i>Phragmites</i> and <i>Juncus</i> peat
4.27 - 3.83	6- 50	Grey brown mottled orange sandy clayey silt
3.83 - 3.80	50- 53	Beige sandy clayey silt
3.80 - 3.05	53-128	Brown fibrous peat
3.05 - 2.85	128-148	Light grey fibrous sandy silty clay
2.85 - 2.76	148-157	Brown fibrous organic silt
2.76 - 2.59	157-174	Light grey sandy silty clay with fibres
2.59 - 0.41	174-392	Brown fibrous organic sandy silt
0.41 - 0.38	392-395	Dark blue grey medium sand
0.38- -0.18	395-451	Brown organic silt
-0.18- -0.65	451-498	Dark blue grey medium sand
-0.65- -0.98	498-531	Brown sandy silt
-0.98- -1.11	531-544	Dark blue grey medium sand
-1.11- -1.39	544-572	Brown sandy silt
-1.39- -3.07	572-740	Dark blue grey sand
-3.07- -3.38	740-771	Dark blue grey sand and fine gravel
-3.38	771	End on gravel

Borehole B5 (NG 3088 3021)

5.28 - 5.22	000- 6	Brown sandy clayey silt
5.22 - 4.88	6- 40	Grey brown fibrous sandy silt
4.88 - 4.08	40-120	Brown fibrous organic silt
4.08 - 3.18	120-210	Brown fibrous <i>Phragmites</i> peat
3.18 - 0.71	210-457	Grey brown organic sandy silt
0.71 - 0.67	457-461	Grey brown medium sand
0.67 - 0.64	461-464	Brown sandy silt
0.64 - 0.62	464-466	Grey brown medium sand
0.62- -0.26	466-554	Brown sandy silt
-0.26- -1.34	554-662	Dark blue grey medium sand
-1.34	662	End on gravel

Borehole B6 (NG 3098 3022)

5.26 - 4.96	000- 30	Brown grey mottled orange sandy clayey silt
4.96 - 4.65	30- 61	Grey sandy clayey silt
4.65 - 3.48	61-178	Brown fibrous peat
3.48- -1.35	178-661	Grey brown organic silt with fibres
-1.35- -1.59	661-685	Grey blue silty sand
-1.59- -1.64	685-690	Brown grey sandy silt
-1.64- -1.74	690-700	Blue grey medium sand
-1.74- -1.88	700-714	Brown organic sandy silt
-1.88- -2.02	714-728	Dark grey blue sand
-2.02- -2.06	728-732	Grey brown sandy silt
-2.06- -2.15	732-741	Dark grey blue sand
-2.15- -2.21	741-747	Red brown woody organic silt
-2.21- -2.26	747-752	Dark blue grey sand with gravel
-2.26	752	End on gravel

Borehole B7 (NG 3209 3022)

5.13 - 4.98	000- 15	Brown fibrous organic silt
4.98 - 4.63	15- 50	Brown mottled orange sandy silt
4.63 - 3.29	50-184	Dark grey blue silty sand
3.29 - 3.09	184-204	Brown organic silt with <i>Sphagnum</i> fibres
3.09 - 2.79	204-234	Brown <i>Phragmites</i> peat
2.79 - 2.41	234-272	Grey brown organic silt
2.41 - 1.13	272-400	Grey brown fibrous organic sandy silt
1.13- -1.56	400-669	Grey brown organic sandy silt
-1.56- -1.81	669-694	Dark blue grey clayey sandy silt

-1.81- -2.02	694-715	Brown organic silt
-2.02- -2.30	715-743	Blue grey silty sand interbedded with grey brown sandy silt
-2.30- -2.32	743-745	Dark blue grey sand
-2.32- -2.33	745-746	Brown peat
-2.33- -2.34	746-747	Blue grey sand
-2.34- -2.44	747-757	Grey green clayey sandy silt
-2.44- -2.48	757-761	Brown organic sandy silt
-2.48- -2.56	761-769	Dark blue grey sandy silty clay
-2.56- -2.64	769-772	Dark blue grey sand with gravel
-2.64	772	End on gravel

Borehole B8 (NG 3218 3026)

5.05 - 4.99	000- 6	Brown fibrous peat
4.99 - 4.73	6- 32	Grey brown clayey sandy silt
4.73 - 3.91	32-114	Brown fibrous organic silt with some wood
3.91 - 3.33	114-172	Dark brown fibrous <i>Phragmites</i> peat
3.33 - 2.52	172-253	Brown organic silt
2.52 - 2.43	253-262	Dark grey silty sand with gravel
2.43 - 2.34	262-271	Brown silty sand
2.34 - 2.31	271-274	Dark grey silty sand
2.31 - 1.93	274-312	Brown silty sand
1.93 - 1.71	312-334	Brown silty sand with gravel
1.71 - 1.62	334-343	Dark grey sand with gravel
1.62 - 1.40	343-365	Grey brown sandy silt
1.40 - 0.96	365-409	Dark grey gravel with wood fragments
0.96 - 0.91	409-414	Brown sandy silt with gravel
0.91 - 0.82	414-423	Dark grey sand with gravel
0.82 - 0.05	423-500	Brown grey organic sandy silt
0.05- -0.20	500-525	Dark grey sandy silt with gravel
-0.20- -0.97	525-602	Brown grey sandy silt
-0.97- -1.07	602-612	Blue grey sand with gravel
-1.07- -1.30	612-635	Grey brown silty sand
-1.30- -1.57	635-662	Dark grey brown sandy silt
-1.57- -1.78	662-683	Brown sandy silt with wood fragments
-1.78- -1.88	683-693	Grey silty sand
-1.88- -1.95	693-700	Dense dark blue grey sand with gravel
-1.95	700	End on gravel

Borehole B9 (NG 3229 3027)

5.65 - 5.30	000- 35	Brown topsoil with many roots
5.30 - 5.05	35- 60	Brown clayey silt
5.05 - 5.00	60- 65	Brown clayey silt with gravel
5.00 - 4.85	65- 80	Dark grey blue sand with gravel
4.85 - 4.55	80-110	Brown peat with gravel
4.55 - 4.34	110-131	Brown <i>Sphagnum</i> peat
4.34 - 4.24	131-141	Grey clayey silt with medium gravel
4.24	141	Impenetrable

Borehole B10 (NG 3239 3029)

6.43 - 5.88	000- 55	Blue grey brown sandy clay
5.88 - 5.68	55- 75	Brown clayey sandy silt
5.68 - 5.36	75-107	Dark brown peat
5.36 - 4.69	107-174	Brown organic silt
4.69 - 4.65	174-178	Dark grey blue sand
4.65 - 4.43	178-200	Brown fibrous organic silt
4.43 - 3.73	200-270	Brown fibrous organic silt with wood fragments
3.73 - 3.03	270-340	Brown organic sandy silt with some <i>Phragmites</i> fibres
3.03 - 2.63	340-380	Dark brown organic sandy silt

2.63 - 2.60	380-383	Dark grey coarse sand
2.60 - 2.58	383-385	Grey sandy silt
2.58 - 2.55	385-388	Dark grey sand with shell fragments
2.55 - 2.49	388-394	Dark brown silty sand
2.49 - 2.42	394-401	Dark brown grey silty sand
2.42 - 2.21	401-422	Brown <i>Phragmites</i> peat
2.21 - 1.45	422-498	Dark brown grey silty sand
1.45 - 1.35	498-508	Dark grey sand with shell fragments
1.35	508	Impenetrable

#### Borehole B11 (NG 3249 3031)

6.72 - 6.42	000- 30	Grey brown fibrous peat
6.42 - 6.39	30- 33	Reddish brown gravel and sand
6.39 - 5.44	33-128	Brown organic silt with <i>Phragmites</i> and wood frgments
5.44 - 2.89	128-383	Brown fibrous <i>Phragmites</i> peat
2.89 - 2.87	383-385	Grey sandy clay
2.87 - 2.82	385-390	Blue grey sand and gravel
2.82	390	Impenetrable

#### Borehole C2 (NG 3161 3025)

6.13 - 5.73	000- 40	Brown silty sand with gravel
5.73 - 5.43	40- 70	Brown silty sand
5.43	70	End on gravel

#### Borehole C5 (NG 3188 3029)

5.24 - 5.06	000- 18	Brown organic silt
5.06 - 4.76	18- 48	Grey brown mottled orange sandy silt with roots
4.76 - 4.59	48- 65	Grey fibrous silty sand
4.59 - 4.16	65-108	Grey sandy silt
4.16 - 3.97	108-127	Brown fibrous <i>Sphagnum</i> peat
3.97 - 3.87	127-137	Grey brown fibrous organic silt
3.87 - 3.64	137-160	Dark brown fibrous peat
3.64 - 3.15	160-209	Dark brown <i>Phragmites</i> peat
3.15 - 3.07	209-217	Brown fibrous organic silt
3.07 - 2.92	217-232	Grey sandy silt
2.92- -0.59	232-583	Brown fibrous organic sandy silt
-0.59- -2.14	583-738	Dark blue grey medium sand
-2.14- -2.19	738-743	Green brown clayey silt
-2.19- -2.36	743-760	Dark blue medium sand
-2.36- -2.39	760-763	Dark blue grey fine to coarse sand with wood
-2.39	763	Impenetrable

#### Borehole C6 (NG 3195 3031)

5.12 - 5.04	000- 8	Black <i>substantia humosa</i>
5.04 - 4.83	8- 29	Grey brown mottled red sandy clayey silt
4.83 - 4.67	29- 45	Grey brown organic silt with <i>Phragmites</i> fibres
4.67 - 3.09	45-203	Brown fibrous organic silt
3.09- -0.61	203-573	Brown fibrous organic sandy silt
-0.61- -1.42	573-654	Grey clayey silty sand
-1.42- -1.64	654-676	Dark blue grey silty sand
-1.64- -1.88	676-700	Dark grey blue medium sand
-1.88	700	End on gravel

#### Borehole C7 (NG 3204 3033)

4.43 - 4.33	000- 10	Dark brown peat
4.33 - 3.88	10- 55	Grey brown mottled orange sandy clayey silt
3.88 - 3.73	55- 70	Grey sandy clayey silt
3.73 - 2.80	70-163	Grey brown organic silt

2.80 - 2.68	163-175	Grey very sandy clayey silt
2.68- -1.85	175-628	Grey brown fibrous organic silt
-1.85- -1.96	628-639	Dark grey sandy silt
-1.96- -2.14	639-657	Grey sandy silt interbedded with brown silt and blue grey sand
-2.14- -2.17	657-660	Dark blue grey sand
-2.17- -2.23	660-666	Brown sandy silt
-2.23- -2.25	666-668	Brown peat
-2.25- -2.26	668-669	Blue grey silty sand
-2.26- -2.32	669-675	Brown woody peat
-2.32- -2.37	675-680	Grey brown sandy silt
-2.37- -2.43	680-686	Brown peat
-2.43- -2.51	686-694	Light grey blue clayey silty sand
-2.51- -2.59	694-702	Dark grey sandy silty clay
-2.59- -2.67	702-710	Dense dark blue grey sand with gravel
-2.67	710	End on gravel

#### Borehole C8 (NG 3215 3036)

4.71 - 3.48	000-123	Brown grey fibrous organic silt
3.48 - 3.25	123-146	Dark blue grey sand
3.25 - 3.16	146-155	Brown organic silt
3.16 - 3.05	155-166	Dark blue sand
3.05 - 2.82	166-189	Dark blue grey sand interbedded with brown organic silt
2.82 - 2.68	189-203	Brown organic sandy silt
2.68 - 0.82	203-389	Brown grey organic silt
0.82- -1.13	389-584	Dark blue grey silty sand
-1.13- -1.72	584-643	Brown sandy silt
-1.72- -1.90	643-661	Dark blue grey silty sand interbedded with brown silt
-1.90- -2.02	661-673	Dark blue grey sand
-2.02- -2.10	673-681	Grey silty sand
-2.10- -2.13	681-684	Grey sand with gravel
-2.13	684	Impenetrable

#### Borehole C9 (NG 3227 3037)

5.32 - 4.96	000- 36	Red brown fibrous sandy clayey silt
4.96 - 4.77	36- 55	Grey brown mottled orange silty sand
4.77	55	Impenetrable

#### Borehole C10 (NG 3238 3038)

6.82 - 6.68	000- 14	Brown fibrous peat
6.68 - 6.17	14- 65	Grey brown fibrous sandy clayey silt
6.17 - 6.13	65- 69	Grey brown fibrous clayey silt with gravel
6.13 - 5.53	69-129	Dark grey organic silty sand
5.53 - 5.50	129-132	Dark brown fibrous peat with gravel
5.50 - 5.42	132-140	Dark grey sand and gravel
5.42 - 5.28	140-154	Reddish grey sand with gravel
5.28	154	Impenetrable

#### Borehole C11 (NG 3249 3040)

6.10 - 6.00	000- 10	Dark brown <i>Phragmites</i> peat
6.00 - 5.60	10- 50	Brown clayey silty sand
5.60 - 5.10	50-100	Brown reddish <i>Phragmites</i> and <i>Sphagnum</i> peat
5.10 - 3.96	100-214	Brown <i>Phragmites</i> peat
3.96 - 3.50	214-260	Grey brown fibrous organic silt
3.50 - 2.81	260-329	Grey clayey silty sand
2.81 - 2.79	329-331	Dark brown organic silt
2.79 - 2.78	331-332	Grey clayey silty sand
2.78 - 1.88	332-422	Grey brown sandy silt with some <i>Phragmites</i> fibres

1.88 - 1.60	422-450	Grey brown clayey sand
1.60 - 1.10	450-500	Brown organic silt
1.10 - 0.98	500-512	Brown organic silt with <i>Phragmites</i> fibres
0.98 - 0.93	512-517	Brown fibrous organic silty sand
0.93 - 0.70	517-540	Grey brown sandy silt
0.70 - 0.67	540-543	Grey blue coarse sand
0.67 - 0.42	543-568	Grey brown clayey sandy silt
0.42 - 0.30	568-580	Dark blue grey sand
0.30	580	Impenetrable

#### Borehole D2 (NG 3157 3037)

5.61 - 5.21	000- 40	Brown sandy silt
5.21 - 5.19	40- 42	Brown coarse sand
5.19	42	End on gravel

#### Borehole D5 (NG 3185 3037)

4.81 - 4.68	000- 13	Brown fibrous organic silt
4.68 - 4.40	13- 41	Brown grey fibrous sandy silt
4.40 - 4.17	41- 64	Grey fibrous sandy silt
4.17 - 3.61	64-120	Brown organic silt with <i>Phragmites</i> fibres
3.61 - 3.50	120-131	Grey sandy clayey silt
3.50 - 0.81	131-400	Brown fibrous organic silt
0.81- -1.00	400-581	Brown organic sandy silt
-1.00- -1.19	581-600	Dark grey blue silty sand
-1.19	600	Ground too waterlogged to continue

#### Borehole D6 (NG 3194 3040)

4.58 - 4.46	000- 12	Brown fibrous peat
4.46 - 4.24	12- 34	Grey brown fibrous organic sandy silt
4.24 - 3.06	34-152	Brown grey fibrous organic silt
3.06 - 2.98	152-160	Grey sandy silty clay
2.98 - 2.58	160-200	Brown grey organic sandy silt
2.58- -0.02	200-460	Brown organic sandy silt
-0.02- -0.30	460-488	Grey brown sandy silt
-0.30- -0.52	488-510	Dark grey clayey silty sand
-0.52- -0.79	510-537	Brown grey sandy silt with <i>Phragmites</i> fibres
-0.79- -0.99	537-557	Blue grey silty sand
-0.99- -1.09	557-567	Dark grey silty sand
-1.09	567	End on gravel

#### Borehole D7 (NG 3203 3043)

4.52 - 4.27	000- 25	Reddish brown fibrous organic sand
4.27 - 3.97	25- 55	Grey brown fibrous sandy silty clay
3.97 - 3.16	55-136	Brown fibrous <i>Phragmites</i> peat
3.16 - 2.68	136-184	Brown fibrous organic silt
2.68 - 2.47	184-205	Grey clayey sand
2.47 - 1.98	205-254	Brown sandy silt
1.98 - 1.05	254-347	Brown fibrous sandy silt
1.05 - 0.92	347-360	Dark grey clayey silty sand
0.92- -1.31	360-583	Brown organic sandy silt
-1.31- -1.40	583-592	Dark grey silty sand
-1.40- -1.48	592-600	Dark grey blue sand with gravel
-1.48	600	End on gravel

#### Borehole D8 (NG 3214 3043)

5.26 - 4.72	000- 54	Reddish brown fibrous sandy clayey silt
4.72 - 4.12	54-114	Grey clayey sandy silt
4.12 - 3.91	114-135	Dark grey brown organic silt with <i>Phragmites</i> fibres

3.91 - 3.76	135-150	Brown fibrous organic silt
3.76 - 3.20	150-206	Brown <i>Phragmites</i> peat
3.20 - 3.14	206-212	Grey sand
3.14 - 3.09	212-217	Dark brown fibrous peat
3.09 - 2.52	217-274	Brown peat interbedded with dark grey sand with wood fragments
2.52 - 2.51	274-275	Light grey brown silty clay
2.51 - 2.45	275-281	Black sand
2.45 - 1.90	281-336	Grey brown fibrous clayey silt
1.90- -0.21	336-547	Brown sandy clayey silt
-0.21- -0.27	547-553	Dark grey blue sand with gravel
-0.27- -0.37	553-563	Brown grey sandy silty clay
-0.37- -0.40	563-566	Dark blue grey clayey silty sand with gravel
-0.40	566	End on gravel

Borehole D9 (NG 3225 3046)

7.82 - 7.06	000- 76	Brown grey fibrous sandy clayey silt
7.06 - 6.98	76- 84	Grey brown with orange mottling silty sand
6.98 - 6.91	84- 91	Grey silty clay with gravel
6.91 - 6.88	91- 94	Brown coarse sand with fine gravel and orange banding
6.88 - 6.86	94- 96	Grey silty clay
6.86 - 6.85	96- 97	Grey coarse sand
6.85 - 6.42	97-140	Grey sandy silty clay
6.42 - 5.65	140-217	Dark grey blue sand with gravel
5.65 - 5.55	217-227	Brown grey sandy clayey silt
5.55 - 5.32	227-250	Dark brown grey fibrous organic sandy silt and gravel
5.32 - 4.88	250-294	Dark blue grey silty sand with gravel
4.88 - 4.43	294-339	Brown clayey sandy silt with gravel
4.43 - 4.23	339-359	Brown grey sandy silt with gravel
4.23 - 2.86	359-496	Brown clayey sandy silt with wood fragments
2.86 - 2.81	496-501	Dark blue grey silty sand with gravel
2.81 - 2.69	501-513	Brown grey sandy silt
2.69 - 2.68	513-514	Dark grey silty sand
2.68 - 2.39	514-543	Dark grey sandy silty clay
2.39 - 2.28	543-554	Dark grey blue sand with gravel
2.28	554	End on gravel

Borehole D10 (NG 3231 3047)

6.38 - 6.14	000- 24	Brown fibrous sandy clayey silt
6.14 - 5.78	24- 60	Orange brown sandy clayey silt
5.78 - 5.51	60- 87	Grey brown sandy clayey silt
5.51 - 5.40	87- 98	Grey brown mottled orange coarse sand
5.40 - 3.52	98-286	Grey coarse sand with gravel
3.52 - 3.42	286-296	Brown silt interbedded with dark grey sand
3.42 - 3.35	296-303	Dark grey clayey silty sand
3.35 - 2.90	303-348	Dark grey silty sand
2.90 - 2.79	348-359	Dark grey blue sand and gravel
2.79 - 2.39	359-399	Dark grey blue sand thickly interbedded with brown woody peat and grey sand
2.39 - 2.38	399-400	Dark brown silt
2.38 - 1.61	400-477	Grey sand and pockets of dark grey blue gravel
1.61 - 1.56	477-482	Dark grey blue coarse sand
1.56 - 1.44	482-494	Dark brown sandy silt
1.44 - 1.20	494-518	Dark brown sandy silt with gravel
1.20 - 0.88	518-550	Grey sand interbedded with grey sand layers with gravel
0.88 - 0.58	550-580	Dark grey blue sand with gravel
0.58	580	Impenetrable

Borehole D11 (NG 3247 3049)

6.50 - 6.40	000- 10	Brown fibrous organic sandy silt
6.40 - 6.06	10- 44	Grey brown mottled orange very sandy silt
6.06 - 5.62	44- 88	Dark brown organic silt with <i>Phragmites</i> fibres
5.62 - 5.30	88-120	Grey brown clayey silt with some <i>Phragmites</i> fibres
5.30 - 5.06	120-144	Brown clayey silt
5.06 - 4.19	144-231	Dark blue grey sand with gravel
4.19 - 4.07	231-243	Grey sand interbedded with brown peat
4.07 - 3.49	243-301	Brown dark grey sandy silt
3.49 - 3.28	301-322	Grey sand with gravel
3.28 - 2.98	322-352	Brown grey silty sand
2.98 - 2.50	352-400	Dark grey brown organic silty sand with wood
2.50 - 2.35	400-415	Grey sand with some gravel
2.35 - 1.88	415-462	Dark grey organic sand with wood fragments
1.88 - 1.76	462-474	Green grey silty sand
1.76 - 1.57	474-493	Dark grey organic sand with wood fragments
1.57 - 1.55	493-495	Grey silty sand
1.55 - 1.54	495-496	Dark grey blue coarse sand with fine medium gravel
1.54	496	Impenetrable

Borehole E8 (NG 3212 3052)

6.89 - 6.67	000- 22	Grey brown mottled orange fibrous sandy clayey silt
6.67 - 6.61	22- 28	Red coarse sand
6.61 - 6.35	28- 54	Grey brown mottled fibrous orange sandy clayey silt
6.35 - 6.03	54- 86	Grey brown fibrous sandy silt
6.03 - 5.27	86-162	Brown grey organic silty sand
5.27 - 5.07	162-182	Brown organic silt with <i>Phragmites</i> fibres
5.07 - 4.28	182-261	Brown organic silt
4.28 - 3.98	261-291	Brown fibrous organic sandy silt
3.98 - 3.64	291-325	Grey organic sandy silt
3.64 - 3.55	325-334	Grey clayey sandy silt
3.55 - 2.38	334-451	Brown clayey sandy silt
2.38 - 2.29	451-460	Dark blue grey sand
2.29 - 2.22	460-467	Dark blue grey sand with gravel
2.22	467	End on gravel

Borehole E9 (NG 3222 3054)

6.43 - 6.13	000- 30	Brown red fibrous sandy clayey silt
6.13 - 5.57	30- 86	Grey brown sand interbedded with silty sand
5.57 - 5.27	86-116	Grey brown fibrous organic silt
5.27 - 3.69	116-274	Reddish brown organic silt with some wood and <i>Phragmites</i> fibres
3.69 - 3.40	274-303	Grey brown sandy clayey silt with <i>Phragmites</i> fibres
3.40 - 3.23	303-320	Grey sand and brown sandy silt
3.23 - 3.07	320-336	Dark grey clayey sand
3.07 - 3.06	336-337	Brown organic sandy silt
3.06	337	Impenetrable

Borehole E10 (NG 3227 3054)

6.64 - 5.64	000-100	Grey brown sandy clayey silt
5.64 - 5.43	100-121	Brown fibrous organic silt
5.43 - 5.24	121-140	Dark grey brown fibrous sandy silty clay
5.24 - 4.64	140-200	Dark blue grey silty sand with gravel
4.64 - 2.86	200-378	Dark grey blue gravel in a loose matrix of silty sand
2.86 - 2.77	378-387	Dark grey fine sand
2.77 - 2.72	387-392	Dark grey coarse sand with gravel and wood fragments
2.72 - 2.31	392-433	Grey brown clayey silty sand with gravel
2.31 - 2.19	433-445	Dark brown sandy silt
2.19 - 2.06	445-460	Dark grey clayey silty sand

2.06 - 1.93	460-471	Dark grey sandy silty clay with gravel
1.93 - 1.88	471-476	Dark grey silty clayey sand
1.88 - 1.86	476-478	Dark grey blue coarse sand with gravel
1.86	478	Impenetrable

Borehole E11 (NG 3245 3058)

7.66 - 6.40	000-126	Reddish brown clayey sandy silt
6.40 - 6.06	126-160	Dark grey sandy silty clay with gravel
6.06 - 6.03	160-163	Dark grey medium sand
6.03 - 5.95	163-171	Grey brown sandy silty clay with fine gravel
5.95 - 5.92	171-174	Dark grey blue sand with gravel
5.92	174	End on cobble

Borehole E12 (NG 3253 3059)

7.96 - 7.48	000- 48	Brown clayey sandy silt
7.48 - 6.99	48- 97	Brown coarse sand
6.99 - 6.97	97- 99	Brown organic clay
6.97 - 6.96	99-100	Grey gravel
6.96 - 6.69	100-127	Brown silty sand
6.69 - 6.65	127-131	Brown coarse sand with gravel
6.65	131	End on cobble

Borehole S1 (NG 3190 3009)

7.29 - 5.09	000-220	Brown organic silt with <i>Phragmites</i> and <i>Sphagnum</i> fibres
5.09 - 4.82	220-247	Brown <i>Phragmites</i> peat
4.82 - 4.69	247-260	Dark brown organic silt with <i>Phragmites</i> fibres
4.69 - 3.33	260-396	Light brown silty clay
3.33 - 2.85	396-444	Blue grey sand and gravel
2.85	444	Impenetrable

## Point of Sleat

<b>Altitude (m OD)</b>	<b>Depth (cm)</b>	<b>Sedimentary description</b>
<b>Borehole 1 (NG 5643 0033)</b>		
4.84 - 3.94	000- 90	Brown <i>Eriophorum/Sphagnum</i> peat
3.94 - 3.90	90- 94	Grey gravel
3.90 - 3.09	94-175	Grey coarse sand
3.09 - 2.64	175-220	Grey coarse sand with shells
2.64 - 0.99	220-385	Blue grey clay with sand layers
0.99	385	Impenetrable
<b>Borehole 2 (NG 5644 0032)</b>		
4.77 - 3.67	000-110	Brown <i>Eriophorum/Sphagnum</i> peat
3.67 - 3.60	110-117	Brown organic sand
3.60 - 3.47	117-130	Grey coarse sand
3.47 - 3.39	130-138	Dense grey sand
3.39 - 3.35	138-142	Grey coarse sand and gravel
3.35 - 3.06	142-171	Grey silty sand
3.06 - 2.99	171-178	Grey silty sand with <i>Littorina</i> species
2.99 - 2.23	178-254	Brown grey silty fine sand
2.23 - 2.18	254-259	Grey sand with shell fragments
2.18 - 2.13	259-264	Grey shelly sand
2.13 - 0.87	264-390	Blue grey clay
0.87	390	Impenetrable
<b>Borehole 3 (NG 5645 0030)</b>		
4.63 - 3.88	000- 75	Brown <i>Sphagnum</i> peat
3.88 - 3.68	75- 95	Brown organic sediment with <i>Phragmites</i> fibres
3.68 - 2.95	95-168	Grey brown organic sandy silt
2.95 - 1.43	168-320	Grey brown silty sand with shell fragments
1.43- -0.71	320-392	Grey clay with occasional shell layers
-0.71- -1.88	392-651	Pink clay with occasional sand layers
-1.88- -2.69	651-732	Pink clay with fine sand
-2.69- -3.26	732-789	Pink grey clay with sand
-3.26	789	Impenetrable
<b>Borehole 4 (NG 5647 0029)</b>		
4.63 - 3.63	000-100	Brown <i>Eriophorum/Sphagnum</i> peat with <i>Phragmites</i> fibres
3.36 - 3.58	100-105	Brown organic sand
3.58 - 2.73	105-190	Grey sand
2.73 - 1.13	190-350	Brown sand with shell fragments
1.13- -0.89	350-552	Grey clay with sand layers
-0.89- -0.96	552-559	Brown shelly layer
-0.96- -3.62	559-825	Blue grey clay with sand layers
-3.62	825	Impenetrable
<b>Borehole 5 (NG 5649 0022)</b>		
4.54 - 3.80	000- 74	Brown <i>Eriophorum/Sphagnum</i> peat
3.80 - 3.72	74- 82	Brown organic sand
3.72 - 3.54	82-100	Dark grey sand
3.54 - 3.14	100-140	Dark grey sand with <i>Phragmites</i> fibres
3.14 - 2.09	140-245	Grey sand
2.09 - 1.90	245-264	Grey silty clay
1.90 - 1.49	264-305	Shelly sand with gravel
1.49 - 1.36	305-318	Blue grey clay
1.36 - 0.61	318-393	Grey clay with sand layers
0.61- -1.06	393-560	Pink clay with shell fragments

-1.06	560	Impenetrable
Borehole 6 (NG 5622 0024)		
4.61 - 4.09	000- 52	Brown <i>Eriophorum/Sphagnum</i> peat
4.09 - 3.96	52- 65	Brown <i>Phragmites</i> peat
3.96 - 3.91	65- 70	Brown organic sand
3.91 - 2.23	70-238	Grey fibrous sand
2.23 - 0.84	238-377	Grey sand
0.84	377	Impenetrable
Borehole 7 (NG 5623 0024)		
4.60 - 3.76	000- 84	Brown <i>Eriophorum/Sphagnum</i> peat
3.76 - 3.71	84- 89	Brown organic sand
3.71 - 3.45	89-115	Grey sand
3.45 - 3.35	115-125	Grey sand with gravel
3.35	125	Impenetrable
Borehole 8 (NG 5623 0023)		
4.61 - 3.96	000- 65	Brown <i>Eriophorum/Sphagnum</i> peat
3.96	65	Impenetrable
Borehole 9 (NG 5632 0022)		
1.99 - 1.81	000- 18	Brown <i>Sphagnum</i> peat
1.81 - 1.79	18- 20	Brown organic sandy silt
1.79	20	End on gravel
Borehole 10 (NG 5637 0021)		
1.93 - 1.75	000- 18	Brown fibrous <i>Sphagnum</i> peat
1.75 - 1.73	18- 20	Brown sandy silty gravel
1.73	20	Impenetrable
Borehole 11 (NG 5631 0018)		
1.95 - 1.80	000- 15	Brown fibrous <i>Sphagnum</i> peat
1.80	15	Impenetrable
Borehole 12 (NG 5643 0017)		
1.87 - 1.64	000- 23	Brown <i>Sphagnum</i> peat
1.64	23	Impenetrable
Borehole 13 (NG 5644 0017)		
1.97 - 1.86	000- 11	Dark brown peat
1.86	11	Impenetrable
Borehole 14 (NG 5634 0011)		
1.85 - 1.70	000- 15	Brown fibrous <i>Sphagnum</i> peat
1.70	15	Impenetrable
Borehole 15 (NG 5636 0014)		
1.95 - 1.50	000- 45	Brown fibrous <i>Sphagnum</i> peat
1.50 - 1.38	45- 57	Brown silty sand
1.38	57	Impenetrable
Borehole 16 (NG 5637 0015)		
1.87 - 1.35	000- 52	Brown fibrous <i>Sphagnum</i> peat
1.35	52	Impenetrable
Borehole 17 (NG 5638 0017)		
1.87 - 1.33	000- 54	Brown fibrous peat

1.33	54	Impenetrable
<b>Borehole 18 (NG 5641 0017)</b>		
1.97 - 1.92	000- 5	Light brown <i>Sphagnum</i> peat
1.92 - 1.79	5- 18	Brown fibrous organic silt
1.79 - 1.77	18- 20	Brown organic silt
1.77	20	Impenetrable
<b>Borehole 19 (NG 5642 0019)</b>		
2.04 - 1.98	000- 6	Brown <i>Sphagnum</i> peat
1.98 - 1.87	6- 17	Dark brown organic sandy silt
1.87 - 1.69	17- 35	Brown organic silt
1.69	35	Impenetrable
<b>Borehole 20 (NG 5643 0021)</b>		
2.07 - 1.61	000- 46	Brown fibrous organic silt
1.61	46	Impenetrable
<b>Borehole 21 (NG 5644 0023)</b>		
2.12 - 1.45	000- 67	Brown <i>Sphagnum</i> peat
1.45	67	Impenetrable
<b>Borehole 22 (NG 5644 0023)</b>		
2.12 - 1.92	000- 20	Brown <i>Sphagnum</i> peat
1.92 - 1.33	20- 79	Brown black fibrous organic silt
1.33 - 1.14	79- 98	Brown grey sandy silt with wood fragments
1.14	98	Impenetrable
<b>Borehole 23 (NG 5645 0025)</b>		
2.21 - 1.28	000- 93	Brown fibrous <i>Sphagnum</i> peat
1.28 - 1.21	93-100	Brown grey sandy silt with gravel
1.21 - 0.89	100-132	Grey silty sand
0.89	132	Impenetrable
<b>Borehole 24 (NG 5652 0030)</b>		
4.61 - 3.96	000- 65	Brown <i>Eriophorum/Sphagnum</i> peat
3.96 - 3.91	65- 70	Brown sandy peat
3.91	70	Impenetrable
<b>Borehole 25 (NG 5653 0034)</b>		
4.68 - 3.78	000- 90	Brown <i>Eriophorum/Sphagnum</i> peat
3.78 - 3.39	90-129	Brown organic sand
3.39 - 1.48	129-320	Grey sand with shells
1.48 - 1.30	320-338	Blue grey clay
1.30- -0.93	338-561	Pink clay
-0.93	561	Impenetrable
<b>Borehole 26 (NG 5654 0036)</b>		
5.28 - 4.51	000- 77	Brown <i>Eriophorum/Sphagnum</i> peat
4.51 - 4.46	77- 82	Brown organic sand
4.46 - 4.26	82-102	Grey sand
4.26	102	Impenetrable
<b>Borehole 27 (NG 5655 0037)</b>		
4.75 - 3.91	000- 84	Brown <i>Eriophorum/Sphagnum</i> peat
3.91 - 3.84	84- 91	Brown organic sand
3.84 - 1.56	91-319	Grey sand
1.56- -0.11	319-486	Blue grey clay

-0.11            486            Impenetrable

## Ardmore Bay

<b>Altitude (m OD)</b>	<b>Depth (cm)</b>	<b>Sedimentary description</b>
Borehole 1 (NG 2191 6105)		
4.97 - 4.68	000- 29	Brown organic silt
4.68 - 4.59	29- 38	Red brown organic silt
4.59 - 4.40	38- 57	Black <i>substantia humosa</i>
4.40 - 4.22	57- 75	Blue grey silty clay
4.22 - 3.84	75-113	Blue grey silty clay with orange mottling
3.84 - 3.78	113-119	Brown peat
3.78 - 3.55	119-142	Blue grey coarse sand with fine gravel
3.55	142	Impenetrable
Borehole 2 (NG 2193 6102)		
4.72 - 4.39	000- 33	Brown fibrous <i>Phragmites</i> peat
4.39 - 3.71	33-101	Grey green fibrous organic silt
3.71 - 3.23	101-149	Grey green fibrous sand
3.23	149	Impenetrable
Borehole 3 (NG 2195 6100)		
4.63 - 4.17	000- 47	Brown black fibrous peat
4.17 - 3.63	47-100	Brown black peat with <i>Phragmites</i> fibres
3.63 - 3.45	100-118	Brown organic silt with decreased <i>Phragmites</i> fibres
3.45 - 3.38	118-125	Brown green silt
3.38 - 3.35	125-128	Brown green silty sand
3.35 - 3.28	128-135	Brown grey gravelly sand
3.28	135	Impenetrable
Borehole 4 (NG 2198 6097)		
4.47 - 3.37	000-110	Brown peat
3.37	110	Impenetrable
<b>Depth (cm)</b>	<b>Sedimentary description</b>	
Borehole 5 (NG 2198 6101)		
00-34	Brown peat	
34-48	Brown organic silt	
48-62	Dark blue grey silt	
62-77	Dark brown organic silt	
77	Impenetrable	
Borehole 6 (NG 2201 6112)		
00-72	Brown peat	
72-100	Dark blue grey silty sand with gravel	
100	Impenetrable	
Borehole 7 (NG 2204 6113)		
00-27	Brown peat	
27-47	Black organic silt	
47-76	Brown peat	
76	Impenetrable	
Borehole 8 (NG 2207 6115)		
00-46	Brown peat	
46-62	Black organic silt	
62-82	Brown peat	

82                   Impenetrable

Borehole 9 (NG 2210 6102)

00-90              Brown peat  
90                  Impenetrable

Borehole 10 (NG 2213 6108)

00-65              Brown peat  
65-71              Brown grey organic silt  
71                  Impenetrable

Borehole 11 (NG 2215 6109)

00-15              Brown peat  
15-27              Green grey organic silty sand  
27-38              Brown organic silt  
38-65              Dark blue grey silty sand  
65-85              Dark blue grey sand  
85                  Impenetrable

Borehole 12 (NG 2217 6109)

00-31              Brown peat  
31-46              Green grey organic silt  
46-75              Dark blue grey sand and gravel  
75                  Impenetrable

Borehole 13 (NG 2219 6110)

00-22              Brown peat  
22-52              Brown grey organic silt  
52-60              Blue grey organic silty sand  
60                  Impenetrable

Borehole 14 (NG 2221 6110)

00-37              Brown peat  
37-59              Brown grey organic silt  
59-71              Blue grey organic silty sand  
71                  Impenetrable

Borehole 15 (NG 2223 6111)

00-40              Brown peat  
40                  Impenetrable

## Appendix 3

### Complete ecological lists of diatom taxa identified at the sites

#### Inver Aulavaig

##### Borehole 36

###### Polyhalobous

<i>Achnanthes longipes</i>	<i>N. atlantica</i>
<i>Amphora gigantea</i>	<i>N. scoliopleura</i>
<i>Cocconeis distans</i>	<i>Paralia sulcata</i>
<i>C. stauroneiformis</i>	<i>Plagiogramma staurophorum</i>
<i>Dimeregramma minor</i>	<i>Rhabdonema minutum</i>
<i>Grammatophora marina</i>	<i>Rhaphoneis amphiceros</i>
<i>G. oceanica</i>	<i>R. surirella</i>
<i>G. oceanica</i> var. <i>macilenta</i>	<i>Triceratium favus</i>
<i>G. serpentina</i>	<i>T. reticulatum</i>
<i>Navicula abrupta</i>	

###### Polyhalobous-Mesohalobous

<i>Actinocyclus octanarius</i>	<i>Navicula humerosa</i>
<i>Cocconeis scutellum</i>	<i>Nitzschia acuminatum</i>
<i>C. scutellum</i> var. <i>parva</i>	<i>Pinnularia ambigua</i>
<i>Coscinodiscus marginatus</i>	<i>Plagiogramma staurophorum</i>
<i>Diploneis bombus</i>	<i>Podosira stelligera</i>

###### Mesohalobous

<i>Achnanthes brevipes</i>	<i>N. crucicula</i>
<i>A. delicatula</i>	<i>N. digitoradiata</i>
<i>A. engelbrechtii</i>	<i>N. elegans</i>
<i>A. hauckiana</i>	<i>N. halophila</i>
<i>Diploneis didyma</i>	<i>N. peregrina</i>
<i>D. interrupta</i>	<i>N. phyllepta</i>
<i>Gyrosigma peisonis</i>	<i>N. pygmaea</i>
<i>G. strigile</i>	<i>Nitzschia compressa</i>
<i>Hantzschia virgata</i>	<i>Opephora olsenii</i>
<i>Mastogloia pumilla</i>	<i>Rhopalodia acuminata</i>
<i>M. smithii</i>	<i>Scoliopleura peisonis</i>
<i>Navicula cincta</i>	<i>Synedra fasciculata</i>
	<i>S. pulchella</i>

###### Mesohalobous-Oligohalobous

<i>Cyclotella meneghiana</i>	<i>Navicula pusilla</i>
<i>Epithemia turgida</i>	<i>Pinnularia lundii</i>
<i>Fragilaria subsalina</i>	

###### Oligohalobous-halophilous

<i>Anomoeoneis vitrea</i>	<i>Epithemia sorex</i>
---------------------------	------------------------

###### Oligohalobous-indifferent

<i>Achnanthes chlidanos</i>	<i>F. capucina</i> var. <i>vaucheriae</i>
<i>A. clevei</i> var. <i>bottnica</i>	<i>F. construens</i>
<i>A. conspicua</i>	<i>F. construens</i> var. <i>venter</i>
<i>A. didyma</i>	<i>F. dilatata</i>
<i>A. distincta</i>	<i>F. exigua</i>
<i>A. exigua</i>	<i>F. lapponica</i>

<i>A. helvetica</i>	<i>F. leptostauron</i>
<i>A. holsatica</i>	<i>F. pinnata</i>
<i>A. lanceoalata</i>	<i>F. virescens</i>
<i>A. laterostriata</i>	<i>Gomphonema acuminatum</i>
<i>A. microcephala</i>	<i>G. insigne</i>
<i>A. minutissima</i>	<i>G. subtile</i>
<i>A. pusilla</i>	<i>Meridion circulare</i>
<i>Amphipleura pellucida</i>	<i>Navicula americana</i>
<i>Amphora pediculus</i>	<i>N. bryophila</i>
<i>Caloneis bacillum</i>	<i>N. capitata</i>
<i>Cocconeis placentula</i>	<i>N. cryptocephala</i>
<i>C. placentula</i> var. <i>lineata</i>	<i>N. cryptotenella</i>
<i>Cyclotella antiqua</i>	<i>N. gallica</i> var. <i>perpusilla</i>
<i>C. radiosa</i>	<i>N. pelliculosa</i>
<i>Cymbella caespitosa</i>	<i>N. radiosa</i>
<i>C. cymbiformis</i>	<i>N. rhyncocephala</i>
<i>C. gracilis</i>	<i>N. tuscula</i>
<i>C. helvetica</i>	<i>N. variostriata</i>
<i>C. mesiana</i>	<i>N. vulpina</i>
<i>C. microcephala</i>	<i>Nitzschia amphibia</i>
<i>C. minuta</i>	<i>Pinnularia divergens</i>
<i>C. silesiaca</i>	<i>P. intermedia</i>
<i>C. sinuata</i>	<i>P. lagerstedtii</i>
<i>C. subaequalis</i>	<i>P. maior</i>
<i>Diatoma hiemale</i>	<i>P. schroederii</i>
<i>D. mesodon</i>	<i>P. viridis</i>
<i>D. vulgaris</i>	<i>Rhopalodia gibba</i>
<i>Diploneis oblongella</i>	<i>Stauroneis phoenicentron</i>
<i>Epithemia adnata</i>	<i>Synedra parasitica</i>
<i>E. smithii</i>	<i>S. ulna</i>
<i>Fragilaria bicapitata</i>	<i>Tabellaria fenestrata</i>
<i>F. brevistriata</i>	

### Halophobous

*Frustulia rhomboides*

*Tabellaria flocculosa*

### Ecology unknown

*Achnanthes curtissima*  
*A. flexella* var. *alpestris*  
*A. grana*  
*A. impexa*  
*A. impexiformis*  
*A. lacus-vulcani*  
*A. laevis*  
*A. pericava*  
*A. petersenii*  
*A. reversa*  
*Achnanthes* species  
*Amphora veneta*  
*Aulacoseira* species  
*Caloneis silicula*  
*Caloneis* species  
*Cocconeis pseudomarginata*  
*Cocconeis* species  
*C. sublittoralis*  
*Coscinodiscus* species  
*Cyclotella bodanica*  
*Cyclotella* species

*Diploneis* species  
*Eunotia* species  
*Fragilaria constricta*  
*F. nitzschoides*  
*F. robusta*  
*Gomphonema* species  
*Mastogloia barbadensis*  
*Navicula dententa*  
*N. forcipata*  
*N. hungarica*  
*N. jaernfeltii*  
*N. leptostriata*  
*N. miniscula* var. *muralis*  
*N. muraliformis*  
*N. schroederii*  
*N. scutiformis*  
*Navicula* species  
*N. stroemii*  
*N. subminiscula*  
*Neidium* species  
*Nitzschia* species

<i>Cymbella cesatii</i>	<i>Pinnularia macilenta</i>
<i>C. descripta</i>	<i>P. rupestris</i>
<i>C. norvegica</i>	<i>Pinnularia species</i>
<i>C. perpusilla</i>	<i>Rhoicosphenia curvata</i>
<i>Cymbella</i> species	<i>Rhopalodia rupestris</i>
<i>C. turgida</i>	<i>Rhopalodia species</i>
<i>Denticula</i> species	<i>Stauroneis species</i>
<i>Diatoma monoliformis</i>	<i>Stephanodiscus species</i>
<i>Diploneis domblittensis</i>	<i>Surirella species</i>
<i>D. parma</i>	<i>Synedra tenera</i>

### Borehole 3a

#### **Polyhalobous**

<i>Amphora gigantea</i>	<i>N. hennyedyi</i>
<i>A. ostrearia</i>	<i>N. lyra</i>
<i>Caloneis brevis</i>	<i>N. lyroides</i>
<i>C. westii</i>	<i>N. palpebralis</i>
<i>Cocconeis stauroneiformis</i>	<i>N. scoliopleura</i>
<i>Coscinodiscus marginatus</i>	<i>Paralia sulcata</i>
<i>Dimeregramma minor</i>	<i>Pinnularia ambigua</i>
<i>Glyphodesmis distans</i>	<i>Plagiogramma staurophorum</i>
<i>Grammatophora marina</i>	<i>Rhabdonema arcuatum</i>
<i>G. oceanica</i>	<i>R. minutum</i>
<i>G. serpentina</i>	<i>Rhaphoneis nitida</i>
<i>Navicula abrupta</i>	<i>Roperia tesselata</i>
<i>N. atlantica</i>	<i>Thalosiosira decepiens</i>
<i>N. cancellata</i>	<i>Trachyneis aspera</i>

#### **Polyhalobous-Mesohalobous**

<i>Cocconeis scutellum</i>	<i>M. pumilla</i>
<i>C. scutellum</i> var. <i>stauroneiformis</i>	<i>Navicula forcipata</i>
<i>Coscinodiscus radiatus</i>	<i>N. marina</i>
<i>Diploneis bombus</i>	<i>Nitzschia constricta</i>
<i>Mastogloia exigua</i>	<i>N. constricta</i> var. <i>subconstricta</i>

#### **Mesohalobous**

<i>Achnanthes amoena</i>	<i>N. elegans</i>
<i>A. brevipes</i>	<i>N. halophila</i>
<i>A. delicatula</i>	<i>N. peregrina</i>
<i>Amphora commutata</i>	<i>N. phyllepta</i>
<i>A. delicatissima</i>	<i>N. pygmaea</i>
<i>Diploneis didyma</i>	<i>Nitzschia acuminata</i>
<i>D. interrupta</i>	<i>N. compressa</i>
<i>D. smithii</i>	<i>Opephora olsenii</i>
<i>Gyrosigma strigile</i>	<i>Rhopalodia acuminatum</i>
<i>Navicula bottnica</i>	<i>Surirella brightwelli</i>
<i>N. crucicula</i> var. <i>cruciculooides</i>	<i>Synedra fasciculata</i>
<i>N. digitoradiata</i>	<i>S. pulchella</i>

#### **Mesohalobous-Oligohalobous**

<i>Cyclotella meneghiana</i>	<i>Nitzschia microcephala</i>
<i>Fragilaria subsalina</i>	<i>Pinnularia lundii</i>
<i>Mastogloia smithii</i>	<i>Rhoicosphenia abbreviata</i>

*Surirella brebissonii*

#### **Oligohalobous-halophilous**

<i>Anomoeoneis vitraea</i>	<i>Epithemia sorex</i>
----------------------------	------------------------

**Oligohalobous-indifferent**

<i>Achnanthes lanceolata</i>	<i>F. lapponica</i>
<i>A. minutissima</i>	<i>F. pinnata</i>
<i>A. pusilla</i>	<i>Gomphonema angusta</i>
<i>Caloneis bacillum</i>	<i>G. gracile</i>
<i>Coccconeis placentula</i>	<i>G. parvulum</i>
<i>C. placentula</i> var. <i>euglypta</i>	<i>Meridion circulare</i>
<i>C. placentula</i> var. <i>lineata</i>	<i>Navicula capitata</i>
<i>C. placentula</i> var. <i>placentula</i>	<i>N. capitata</i> var. <i>hungarica</i>
<i>Cyclotella radiosua</i>	<i>N. cryptocephala</i>
<i>Cymbella affinis</i>	<i>N. gallica</i> var. <i>perpusilla</i>
<i>C. cistula</i>	<i>N. pupula</i>
<i>C. leptoceros</i>	<i>N. tuscula</i>
<i>C. minuta</i>	<i>N. variostriata</i>
<i>C. silesiaca</i>	<i>Pinnularia borealis</i>
<i>Denticula tenuis</i>	<i>P. microstauron</i>
<i>Diploneis elliptica</i>	<i>P. nodosa</i>
<i>D. oblongella</i>	<i>P. sudetica</i>
<i>Fragilaria brevistriata</i>	<i>P. viridis</i>
<i>F. capucina</i>	<i>Stauroneis anceps</i>
<i>F. capucina</i> var. <i>vaucheriae</i>	<i>S. smithii</i>
<i>F. construens</i>	<i>Synedra ulna</i>
<i>F. construens</i> var. <i>venter</i>	<i>Tabellaria fenestrata</i>
<i>F. exigua</i>	

**Halophobous**

<i>Cymbella gracilis</i>	<i>Frustulia rhomboides</i>
<i>Eunotia arcus</i>	<i>Navicula coccconeiformis</i>
<i>E. exigua</i>	<i>Tabellaria flocculosa</i>
<i>E. praerupta</i>	

**Ecology unknown**

<i>Achnanthes distincta</i>	<i>D. monoliformis</i>
<i>A. flexella</i>	<i>D. tenuis</i>
<i>A. helvetica</i>	<i>Dimeregramma species</i>
<i>A. holsatica</i>	<i>Diploneis parma</i>
<i>A. lacus-vulcani</i>	<i>Eunotia species</i>
<i>Achnanthes</i> species	<i>Fragilaria investiens</i>
<i>A. suchlandtii</i>	<i>Gomphonema bohemican</i>
<i>Amphora aequalis</i>	<i>Gomphonema species</i>
<i>A. libyca</i>	<i>Navicula duerrenbergiana</i>
<i>A. veneta</i>	<i>N. grevillei</i>
<i>Anomoeoneis brachysira</i>	<i>N. hungarica</i>
<i>Aulacoseira lirata</i>	<i>N. leptostriata</i>
<i>Aulacoseira</i> species	<i>N. pseudomarginata</i>
<i>Caloneis alpestris</i>	<i>N. pseudopalpebralis</i>
<i>C. molaris</i>	<i>N. rostellata</i>
<i>Coccconeis costata</i>	<i>N. scutiformis</i>
<i>C. disculus</i>	<i>Navicula species</i>
<i>Coscinodiscus eccentricus</i>	<i>N. tusca</i>
<i>C. nitidus</i>	<i>Nitzschia species</i>
<i>Coscinodiscus</i> species	<i>Pinnularia intermedia</i>
<i>Cyclotella</i> species	<i>Pinnularia species</i>
<i>Cymbella</i> species	<i>Raphoneis surirella</i>
<i>Denticula kuetzingii</i>	<i>Stauroneis species</i>
<i>Diatoma mesodon</i>	<i>Surirella smithii</i>
	<i>Synedra hennydyana</i>

## Borehole 15

### Polyhalobous

*Coccconeis stauroneiformis*

### Mesohalobous

*Caloneis westii*

*Navicula digitoradiata*

*Diploneis interrupta*

*N. peregrina*

*D. parma*

*Synedra fasciculata*

*Mastogloia smithii*

*S. pulchella*

### Oligohalobous-halophilous

*Anomoeoneis vitrea*

### Oligohalobous-indifferent

*Achnanthes coarctata*

*G. clavatum*

*A. minutissima*

*G. gracile*

*Coccconeis placentula* var. *lineata*

*G. insigne*

*Cymbella cistula*

*G. parvulum*

*C. mesiana*

*G. subtile*

*C. minuta*

*Meridion circulare*

*C. silesiaca*

*Navicula contenta*

*C. sinuata*

*N. cryptocephala*

*Epithemia adnata*

*N. gallica* var. *perpusilla*

*Eunotia bilunaris*

*N. subcostulata*

*E. pectinalis*

*N. variostriata*

*Fragilaria brevistriata*

*Pinnularia borealis*

*F. capucina* var. *vaucheriae*

*P. gibba*

*F. construens*

*P. intermedia*

*F. construens* var. *venter*

*P. interrupta*

*F. exigua*

*P. subcapitata*

*F. lapponica*

*P. sudetica*

*F. virescens*

*P. viridis*

*F. vulgaris*

*Rhopalodia gibba*

*Gomphonema acuminatum*

*Tabellaria fenestrata*

*G. angustum*

### Halophobous

*Eunotia arcus*

*P. stomatophora*

*E. praerupta*

*P. streptoraphe*

*Frustulia rhomboides*

*P. subrostrata*

*Navicula coccconeiformis*

*Tabellaria flocculosa*

*P. appendiculata*

### Ecology unknown

*Achnanthes helvetica*

*Eunotia minor*

*A. laevis*

*Eunotia* species

*Amphora veneta*

*Gomphonema angusta*

*Anomoeoneis brachysira*

*G. bohemican*

*Anomoeoneis* species

*G. minutum*

*Caloneis alpestris*

*Gomphonema* species

*Cymbella falaisensis*

*Nitzschia* species

*C. hybrida*

*Pinnularia karelica*

*C. laevis*

*P. microstauron*

*Cymbella* species

*P. rupestris*

*Diatoma hyemalis*

*Pinnularia* species

*D. monoliformis*

*Stauroneis* species

## Peinchorran

### Polyhalobous

<i>Cocconeis stauroneiformis</i>	<i>Paralia sulcata</i>
<i>Grammatophora oceanica</i>	<i>Rhabdonema minutum</i>
<i>G. oceanica</i> var. <i>macilenta</i>	<i>Triceratium favus</i>
<i>Navicula scoliopleura</i>	<i>Triceratium reticulatum</i>

### Polyhalobous-Mesohalobous

<i>Cocconeis scutellum</i>	<i>Diploneis bombus</i>
<i>C. scutellum</i> var. <i>parva</i>	

### Mesohalobous

<i>Achnanthes brevipes</i>	<i>N. elegans</i>
<i>A. delicatula</i>	<i>N. peregrina</i>
<i>A. engelbrechtii</i>	<i>N. phyllepta</i>
<i>A. haukiana</i>	<i>N. pygmaea</i>
<i>Diploneis interrupta</i>	<i>Opephora olsenii</i>
<i>Navicula crucicula</i>	<i>Synedra pulchella</i>

### Mesohalobous-Oligohalobous

<i>Cyclotella meneghiana</i>	<i>Fragilaria subsalina</i>
<i>Diploneis ovalis</i>	<i>Navicula pusilla</i> <i>Pinnularia lundii</i>

### Oligohalobous-halophilous

<i>Anomoeoneis vitrea</i>	<i>Epithemia sorex</i>
---------------------------	------------------------

### Oligohalobous-indifferent

<i>Achnanthes chlidanos</i>	<i>F. exigua</i>
<i>A. clevei</i> var. <i>bottnica</i>	<i>F. lapponica</i>
<i>A. distincta</i>	<i>F. pinnata</i>
<i>A. helvetica</i>	<i>F. virescens</i>
<i>A. holstica</i>	<i>Navicula americana</i>
<i>A. laterostriata</i>	<i>N. capitata</i>
<i>A. minutissima</i>	<i>N. rhyncocephela</i>
<i>A. pusilla</i>	<i>N. variostriata</i>
<i>Caloneis bacillum</i>	<i>Pinnularia intermedia</i>
<i>Cocconeis placentula</i> var. <i>lineata</i>	<i>P. lagerstedtii</i>
<i>Cyclotella antiqua</i>	<i>P. schroederii</i>
<i>Cymbella silesiaca</i>	<i>P. viridis</i>
<i>Diploneis oblongella</i>	<i>Stauroneis phoenicentron</i>
<i>Fragilaria brevistriata</i>	<i>Synedra ulna</i>
<i>F. capucina</i>	<i>Tabellaria fenestrata</i>
<i>F. construens</i>	<i>Tabellaria flocculosa</i>
<i>F. construens</i> var. <i>venter</i>	

### Ecology unknown

<i>Achnanthes</i> species	<i>N. jaernfeltii</i>
<i>Amphora</i> species	<i>N. leptostriata</i>
<i>Caloneis</i> species	<i>N. scutiformis</i>
<i>C. silicula</i>	<i>Navicula</i> species
<i>Cyclotella</i> species	<i>Nitzschia</i> species
<i>Diploneis</i> species	<i>Pinnularia</i> species
<i>Eunotia</i> species	<i>Rhabdonema</i> species
<i>Navicula dententa</i>	<i>Stauroneis</i> species <i>Stephanodiscus</i> species

## Talisker Bay

### Borehole A5

#### Polyhalobous

*Cocconeis stauroneiformis*  
*Coscinodiscus marginatus*  
*Grammatophora oceanica*  
*G. oceanica* var. *macilenta*

*Mastogloia pumilla*  
*Paralia sulcata*  
*Rhabdonema minutum*

#### Polyhalobous-Mesohalobous

*Achnanthes taeniata*  
*Amphora coffaeiformis*  
*Cocconeis scutellum*

*Nitzschia constricta*  
*Surirella amphioxys*  
*Synedra tenera*

#### Mesohalobous

*Achnanthes delicatula*  
*Amphora holsatica*  
*Diploneis aestuarii*  
*Mastogloia smithii*  
*Navicula crucicula*  
*N. peregrina*  
*N. phyllepta*

*N. pygmaea*  
*Opephora olsenii*  
*Rhopalodia constricta*  
*R. gibberula*  
*Synedra fasciculata*  
*S. pulchella*

#### Mesohalobous-Oligohalobous

*Cyclotella iris*  
*Surirella subsalsa*

*Rhopalodia brebissonii*

#### Oligohalobous-halophilous

*Amphora veneta*  
*Anomoeoneis brachysira*  
*A. vitrea*  
*Diploneis parma*  
*Fragilaria subsalina*  
*N. eidrigiana*  
*N. exilis*

*N. halophila*  
*N. hungarica*  
*N. mutica* var. *mutica*  
*N. pusilla*  
*Pinnularia lundii*  
*Rhoicosphenia abbreviata*

#### Oligohalobous-indifferent

*Achnanthes chlidanos*  
*A. clevei* var. *bottnica*  
*A. coarctata*  
*A. conspicua*  
*A. distincta*  
*A. flexella* var. *alpestris*  
*A. helvetica*  
*A. holsatica*  
*A. lanceolata*  
*A. lanceolata* var. *frequentissima*  
*A. lanceolata* var. *minutissima*  
*A. laterostriata*  
*A. minutissima*  
*A. oestrupii* var. *aperta*  
*A. pusilla*  
*A. suchlandtii*  
*Amphora ovalis* var. *libyca*  
*A. ovalis* var. *pediculus*  
*A. pediculus*  
*Anomoeoneis serians*

*E. incisa*  
*E. minor*  
*Fragilaria bicapitata*  
*F. brevistriata*  
*F. capucina*  
*F. capucina* var. *mesolepta*  
*F. capucina* var. *vaucheriae*  
*F. construens*  
*F. construens* var. *venter*  
*F. exigua*  
*F. heidenii*  
*F. lapponica*  
*F. pinnata*  
*F. pseudoconstruens*  
*F. virescens*  
*Gomphonema acuminatum*  
*G. angustum*  
*G. parvulum*  
*Meridion circulare*  
*Navicula angusta*

<i>Aulacoseira lirata</i>	<i>N. capitata</i>
<i>Caloneis bacillum</i>	<i>N. capitata</i> var. <i>hungarica</i>
<i>Cocconeis disculus</i>	<i>N. cari</i>
<i>C. euglypta</i>	<i>N. concentrica</i>
<i>C. pediculus</i>	<i>N. contenta</i>
<i>C. placentula</i>	<i>N. cryptocephela</i>
<i>C. placentula</i> var. <i>euglypta</i>	<i>N. cryptotenella</i>
<i>C. placentula</i> var. <i>lineata</i>	<i>N. cuspidata</i>
<i>C. placentula</i> var. <i>placentula</i>	<i>N. gallica</i>
<i>C. placentula</i> var. <i>pseudolineata</i>	<i>N. gallica</i> var. <i>perpusilla</i>
<i>Cyclotella antiqua</i>	<i>N. hasta</i>
<i>C. bodanica</i>	<i>N. minima</i>
<i>C. bodanica</i> var. <i>affinis</i>	<i>N. pupula</i>
<i>C. ocellata</i>	<i>N. rhyncocephela</i>
<i>C. radiosa</i>	<i>N. seminulum</i>
<i>Cymbella cesatii</i>	<i>N. subcostulata</i>
<i>C. delicatula</i>	<i>N. tenelloides</i>
<i>C. helvetica</i>	<i>N. tuscula</i>
<i>C. minuta</i>	<i>N. variostriata</i>
<i>C. silesiaca</i>	<i>Pinnularia lagerstedtii</i>
<i>C. sinuata</i>	<i>P. viridis</i>
<i>Denticula tenuis</i>	<i>Rhopalodia gibba</i>
<i>Diatoma hyemalis</i>	<i>R. gibba</i> var. <i>gibba</i>
<i>D. tenuis</i>	<i>Stauroneis anceps</i>
<i>Diploneis boldtiana</i>	<i>S. anceps</i> var. <i>gracilis</i>
<i>D. elliptica</i>	<i>S. phoenicentron</i>
<i>D. marginestriata</i>	<i>Synedra acus</i>
<i>D. minuta</i>	<i>S. parasitica</i>
<i>D. oblongella</i>	<i>S. parasitica</i> var. <i>subconstruens</i>
<i>Eunotia bilunaris</i>	<i>S. ulna</i>
	<i>Tabellaria fenestrata</i>

#### **Halophobous**

<i>Achnanthes didyma</i>	<i>N. lapidosa</i>
<i>Eunotia arcus</i>	<i>Pinnularia appendiculata</i>
<i>E. praerupta</i>	<i>Tabellaria flocculosa</i>
<i>Navicula cocconeiformis</i>	

#### **Ecology unknown**

<i>Achnanthes biasolettiana</i>	<i>Diploneis petersenii</i>
<i>A. frigida</i>	<i>Diploneis</i> species
<i>A. impexa</i>	<i>Eunotia</i> species
<i>A. lacus-vulcani</i>	<i>Fragilaria arcus</i>
<i>A. levanderii</i>	<i>Gomphonema minutum</i>
<i>A. pericava</i>	<i>G. pumilum</i>
<i>A. petersenii</i>	<i>Gomphonema</i> species
<i>A. saccula</i>	<i>Navicula bergensis</i>
<i>Achnanthes</i> species	<i>N. dententa</i>
<i>A. subatomoides</i>	<i>N. jaernfeltii</i>
<i>A. ventralis</i>	<i>N. leptostriata</i>
<i>Amphipleura</i> species	<i>N. miniscula</i> var. <i>muralis</i>
<i>Amphora fagediana</i>	<i>N. plausibilis</i>
<i>Amphora</i> species	<i>Navicula</i> species
<i>Aulacoseira</i> species	<i>N. subtilissima</i>
<i>Cocconeis neodiminuata</i>	<i>Nitzschia inconspicua</i>
<i>Coscinodiscus</i> species	<i>N. minuta</i>
<i>Cyclotella comensis</i>	<i>Nitzschia</i> species
<i>C. rosii</i>	<i>N. valdestriata</i>

<i>Cyclotella</i> species	<i>Paralia</i> species
<i>Cymbella obscura</i>	<i>Pinnularia lapponica</i>
<i>Cymbella</i> species	<i>Podocystis spathulata</i>
<i>Diatoma mesodon</i>	<i>Stauroneis</i> species
<i>D. moniliformis</i>	

### Borehole S1

#### Mesohalobous

<i>Achnanthes amoena</i>	<i>N. phyllepta</i>
<i>Navicula peregrina</i>	<i>Synedra pulchella</i>

#### Mesohalobous-Oligohalobous

<i>Amphora veneta</i>	<i>Diploneis ovalis</i> var. <i>oblongella</i>
-----------------------	--

#### Oligohalobous-indifferent

<i>Achnanthes chlidanos</i>	<i>F. capucina</i> var. <i>vaucheriae</i>
<i>A. helvetica</i>	<i>F. construens</i>
<i>A. lanceolata</i>	<i>F. construens</i> var. <i>venter</i>
<i>A. minutissima</i>	<i>F. exigua</i>
<i>A. pusilla</i>	<i>F. nitzschoides</i>
<i>Amphora ovalis</i> var. <i>libyca</i>	<i>F. pinnata</i>
<i>Cocconeis placentula</i> var. <i>lineata</i>	<i>F. pseudoconstruens</i>
<i>C. placentula</i> var. <i>placentula</i>	<i>F. virescens</i>
<i>Cyclotella antiqua</i>	<i>Gomphonema acuminatum</i>
<i>C. radiosa</i>	<i>G. gracile</i>
<i>Cymbella helvetica</i>	<i>Navicula capitata</i>
<i>C. microcephala</i>	<i>N. cryptotenella</i>
<i>C. silesiaca</i>	<i>N. gallica</i> var. <i>perpusilla</i>
<i>C. turgida</i>	<i>N. pseudocutiformis</i>
<i>Diatoma vulgaris</i>	<i>N. subcostulata</i>
<i>Eunotia bilunaris</i>	<i>Pinnularia nodosa</i>
<i>E. minor</i>	<i>Synedra parasitica</i> var. <i>subconstricta</i>
<i>Fragilaria brevistriata</i>	<i>S. ulna</i>
<i>F. capucina</i>	<i>Tabellaria fenestrata</i>

#### Halophobous

<i>Eunotia praerupta</i>	<i>Pinnularia divergentissima</i>
<i>Frustulia rhomboides</i> var. <i>viridula</i>	<i>Tabellaria flocculosa</i>
<i>Navicula coccineiformis</i>	

#### Ecology unknown

<i>Achnanthes daonesis</i>	<i>E. intermedia</i>
<i>A. frigida</i>	<i>Gomphonema minutum</i>
<i>A. lacus-vulcani</i>	<i>Gomphonema</i> species
<i>Achnanthes</i> species	<i>Navicula leptostriata</i>
<i>Anomoeoneis inariensis</i>	<i>Nitzschia</i> species
<i>Aulacoseira</i> species	<i>Pinnularia schwabei</i>
<i>Cyclotella</i> species	<i>Surirella</i> species
<i>Diploneis minuta</i>	<i>Synedra tenera</i>
<i>Eunotia implicata</i>	

## Point of Sleat

### Polyhalobous

<i>Amphora gigantea</i>	<i>N. atlantica</i>
<i>Coccconeis stauroneiformis</i>	<i>Paralia sulcata</i>
<i>Grammatophora oceanica</i>	<i>Plagiogramma staurophorum</i>
<i>Navicula abrupta</i>	<i>Rhabdonema minutum</i>

### Polyhalobous-Mesohalobous

<i>Achnanthes brevipes</i>	<i>M. exigua</i>
<i>Auliscus sculptus</i>	<i>M. smithii</i>
<i>Coccconeis scutellum</i>	<i>Navicula lyroides</i>
<i>Cymbella pusilla</i>	<i>Rhaphoneis surirella</i>
<i>Diploneis bombus</i>	<i>Trachyneis aspera</i>
<i>Mastogloia baltica</i>	

### Mesohalobous

<i>Achnanthes delicatula</i>	<i>N. elegans</i>
<i>Amphora coffaeformis</i>	<i>N. pseudoforcipata</i>
<i>Dimeregramma minor</i>	<i>Nitzschia acuminata</i>
<i>Diploneis didyma</i>	<i>Opephora olsenii</i>
<i>D. smithii</i>	<i>Pinnularia lundii</i>
<i>Gyrosigma strigile</i>	<i>Stauroneis producta</i>
<i>Navicula digitoradiata</i>	<i>Synedra pulchella</i>

### Oligohalobous-halophilous

<i>Anomoeoneis vitraea</i>	<i>Epithemia sorex</i>
<i>Cyclotella meneghiana</i>	

### Oligohalobous-indifferent

<i>Achnanthes flexella</i>	<i>G. gracile</i>
<i>A. minutissima</i>	<i>Navicula capitata</i>
<i>A. pusilla</i>	<i>N. capitata</i> var. <i>hungarica</i>
<i>Amphora veneta</i>	<i>N. contenta</i>
<i>Coccconeis disculus</i>	<i>N. cryptocephala</i>
<i>Cyclotella antiqua</i>	<i>N. pupula</i>
<i>Cymbella mesiana</i>	<i>N. tuscula</i>
<i>C. silesiaca</i>	<i>N. variostriata</i>
<i>Diploneis elliptica</i>	<i>Neidium ampliatum</i>
<i>D. oblongella</i>	<i>Nitzschia sinuata</i>
<i>Fragilaria brevistriata</i>	<i>Pinnularia gibba</i>
<i>F. construens</i>	<i>P. nobilis</i>
<i>F. construens</i> var. <i>venter</i>	<i>P. subrostrata</i>
<i>F. exigua</i>	<i>P. viridis</i>
<i>F. laponica</i>	<i>Synedra ulna</i>
<i>Gomphonema angustatum</i>	<i>Tabellaria fenestrata</i>

### Halophobous

<i>Eunotia arcus</i>	<i>Pinnularia borealis</i>
<i>E. praerupta</i>	<i>P. streptoraphe</i>
<i>Frustulia rhomboides</i>	<i>Rhopalodia gibba</i>
<i>N. coccconeiformis</i>	

### Ecology unknown

<i>Achnanthes flexella</i>	<i>C. norvegica</i>
<i>A. helvetica</i>	<i>Cymbella species</i>
<i>A. lacus-vulcani</i>	<i>Diploneis modicum</i>
<i>A. polaris</i>	<i>D. parma</i>

<i>Achnanthes</i> species	<i>Diploneis</i> species
<i>Caloneis subsalina</i>	<i>Eunotia</i> species
<i>Coccconeis neodiminuta</i>	<i>Fragilaria nitzschoides</i>
<i>C. placentula</i> var. <i>lineata</i>	<i>Gomphonema pumilum</i>
<i>Coscinodiscus</i> species	<i>Navicula leptostriata</i>
<i>Cymbella cesatii</i>	<i>Navicula</i> species
<i>C. gracilis</i>	<i>Surirella</i> species

## Ardmore Bay

### Polyhalobous

*Amphora gigantea*

### Polyhalobous-Mesohalobous

*Diploneis bombus*

### Mesohalobous

*Achnanthes delicatula*

*Amphora holsatica*

*Caloneis westii*

*Diploneis interrupta*

*D. pseudovalvis*

*N. digitoradiata*

*N. halophila*

*N. peregrina*

*Opephora olsenii*

*Pinnularia aestuarii*

*Synedra pulchella*

### Mesohalobous-Oligohalobous

*Anomoeoneis vitraea*

*Epithemia sorex*

### Oligohalobous-indifferent

*Achnanthes flexella*

*A. lanceolata*

*A. minutissima*

*A. montana*

*A. pusilla*

*Amphora veneta*

*Caloneis helvetica*

*C. mesiana*

*C. minuta*

*C. silesiaca*

*Diploneis domblittensis*

*D. elliptica*

*D. oblongella*

*D. ovalis*

*Fragilaria brevistriata*

*F. construens*

*F. construens* var. *venter*

*F. exigua*

*F. lapponica*

*F. nitzschoides*

*F. pinnata*

*F. virescens*

*Meridion circulare*

*Navicula cincta*

*N. cohnii*

*N. cryptotenella*

*N. gallica* var. *perpusilla*

*N. subcostulata*

*N. tenelloides*

*N. variostriata*

*Pinnularia gibba*

*P. hemiptera*

*P. interrupta*

*P. lagerstedtii*

*P. lundii*

*P. microstauron*

*P. nodosa*

*P. schroederii*

*P. subcapitata*

*P. sudetica*

*P. viridis*

*Rhopalodia gibba*

*Stauroneis anceps*

*S. legumen*

*S. phoenicentron*

*S. smithii*

### Halophobous

*Eunotia arcus*

*E. praerupta*

*Frustulia rhomboides*

*Navicula coccconeiformis*

*Pinnularia appendiculata*

*P. borealis*

*P. lata*

*P. streptoraphe*

**Ecology unknown**

<i>Achnanthes distincta</i>	<i>G. angusta</i>
<i>A. helvetica</i>	<i>G. insigne</i>
<i>A. holsatica</i>	<i>Gomphonema</i> species
<i>A. petersenii</i>	<i>Mastogloia</i> species
<i>Achnanthes</i> species	<i>Navicula abiskoensis</i>
<i>A. ventralis</i>	<i>N. accomodo</i>
<i>Amphora libyca</i>	<i>N. dolmatica</i>
<i>A. spitzbergensis</i>	<i>N. leptostriata</i>
<i>Caloneis alpestris</i>	<i>N. pseudosilicula</i>
<i>C. hyalina</i>	<i>N. scutiformis</i>
<i>C. silicula</i>	<i>Navicula</i> species
<i>Cymbella descripta</i>	<i>Nitzschia minuta</i>
<i>C. lacustris</i>	<i>N. sinuata</i>
<i>Cymbella</i> species	<i>Nitzschia</i> species
<i>Diatoma mesodon</i>	<i>Pinnularia rupestris</i>
<i>D. monoliformis</i>	<i>Pinnularia</i> species
<i>Eunotia</i> species	<i>Stauroneis</i> species
<i>Fragilaria zeilleri</i>	<i>Surirella</i> species
<i>Gomphonema acuminatum</i>	