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POLLEN ANALYSIS OF PEAT DEPOSITS
NEAR EDLINGHAM, NORTHUMBERLAND

by

D. W. MOYLE, B.A. (HONS.) (Adel.), Dip. T.

VOLUME 2

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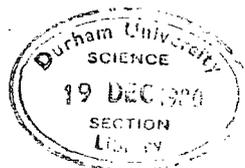
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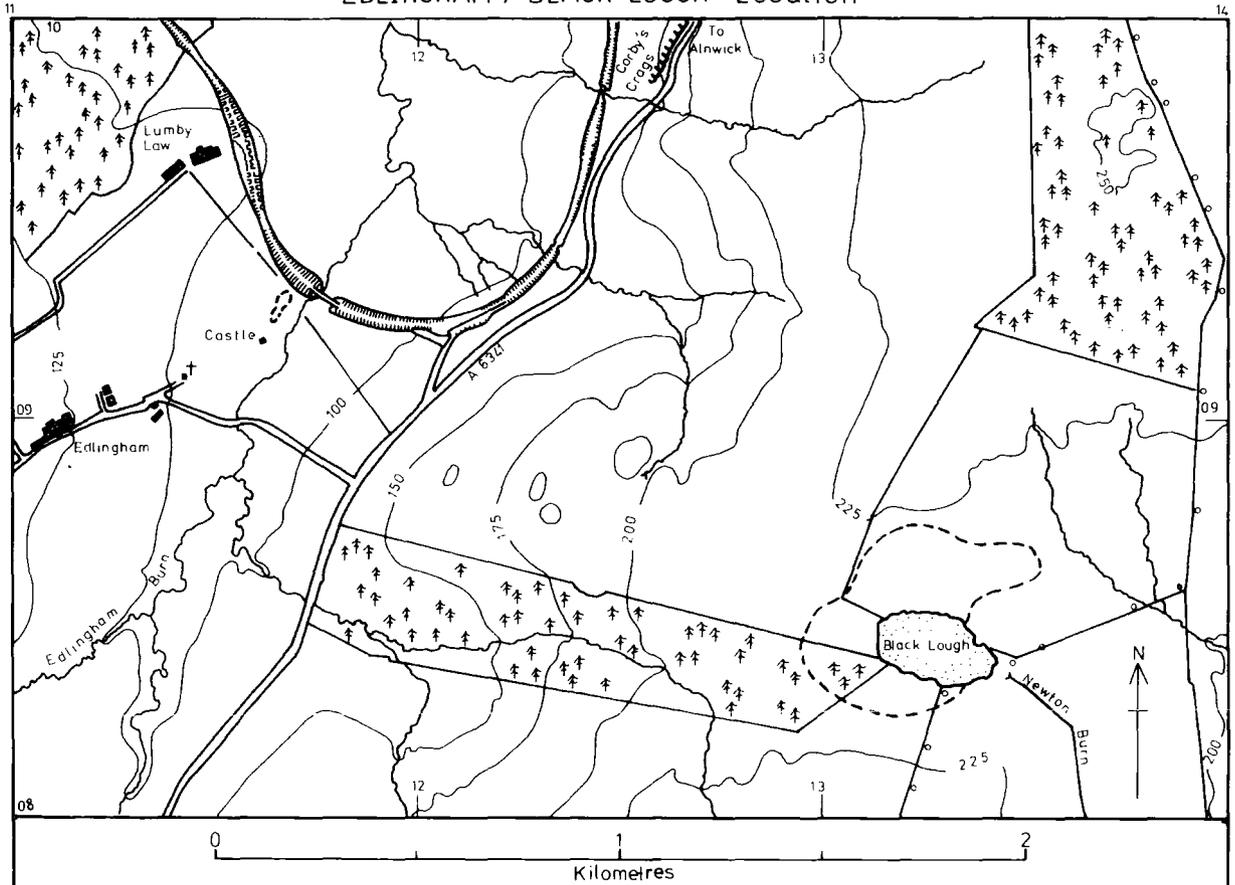
Figure 1 : Location of Edlingham/Black Lough Study Sites

Author references to sites listed on figure 1 :

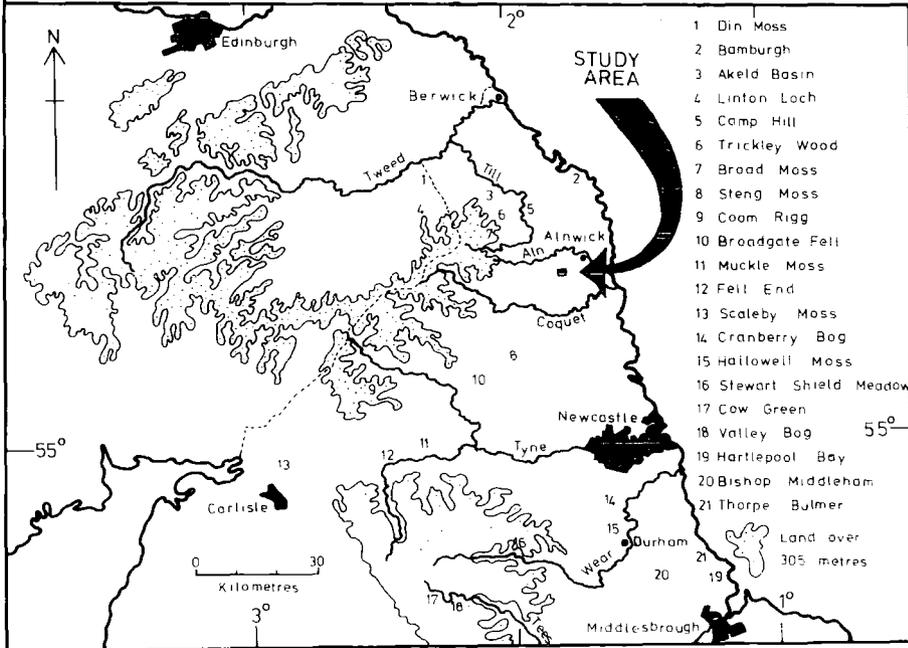
1. Din Moss; Hibbert and Switsur, 1976
2. Bamburgh; Bartley, 1966
3. Akeld Basin; Borek, 1975
4. Linton Loch; Mannion, 1978
5. Camp Hill; Davies and Turner, 1979
6. Trickle Wood; Turner, 1968
7. Broad Moss; Davies and Turner, 1979
8. Steng Moss; Davies and Turner, 1979
9. Coom Rigg; Chapman, 1964
10. Broadgate Fell; Blackburn, 1953
11. Muckle Moss; Pearson, 1960
12. Fell End; Davies and Turner, 1979
13. Scaleby Moss; Godwin, et al 1957
14. Cranberry Bog; Turner and Kershaw, 1973
15. Hallowell Moss; Donaldson and Turner, 1977
16. Stewart Shield Meadow; Roberts, Turner & Ward, 1977
17. Cow Green; Turner, et al 1973
18. Valley Bog; Chambers, 1978
19. Hartlepool Bay; Tooley, 1978
20. Bishop Middleham; Bartley, et al 1976
21. Thorpe Bulmer; Bartley, et al 1976



EDLINGHAM / BLACK LOUGH: Location



North-East England



Contour Interval 25 m.

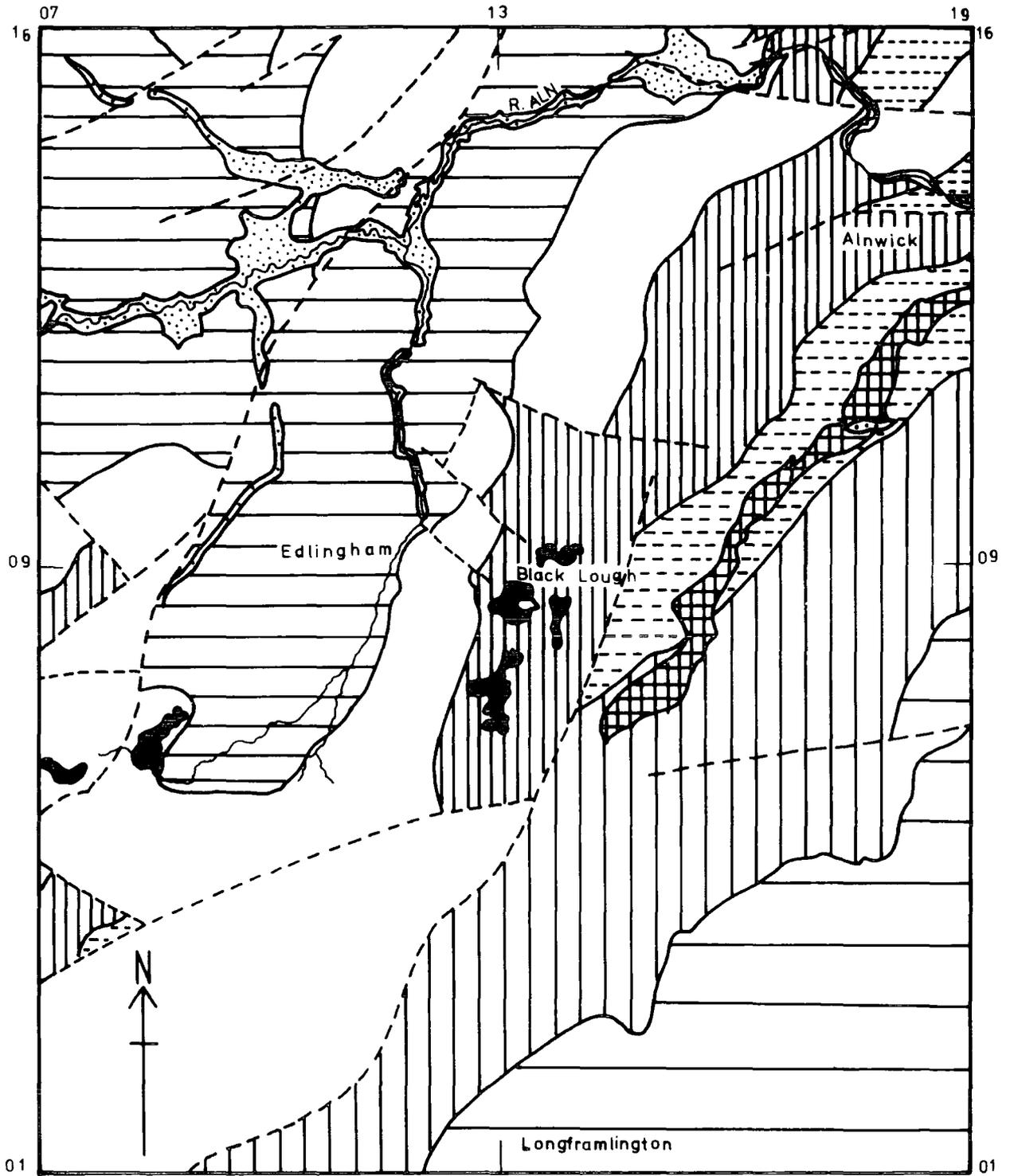
- Study Sites
- Pine Plantation
- Building
- Disused Railway
- Road
- Boundary



- 1 Din Moss
 - 2 Bamburgh
 - 3 Akeld Basin
 - 4 Linton Loch
 - 5 Camp Hill
 - 6 Trickle Wood
 - 7 Broad Moss
 - 8 Steng Moss
 - 9 Coam Rigg
 - 10 Broadgate Fell
 - 11 Muckle Moss
 - 12 Fell End
 - 13 Scaley Moss
 - 14 Cranberry Bog
 - 15 Hallowell Moss
 - 16 Stewart Shield Meadow
 - 17 Cow Green
 - 18 Valley Bog
 - 19 Hartlepool Bay
 - 20 Bishop Middleham
 - 21 Thorpe Bulmer
- Land over 305 metres

Figure 2 : Edlingham Geology: Solid

EDLINGHAM GEOLOGY - SOLID



0 1 2 13 3 4 5
KILOMETRES

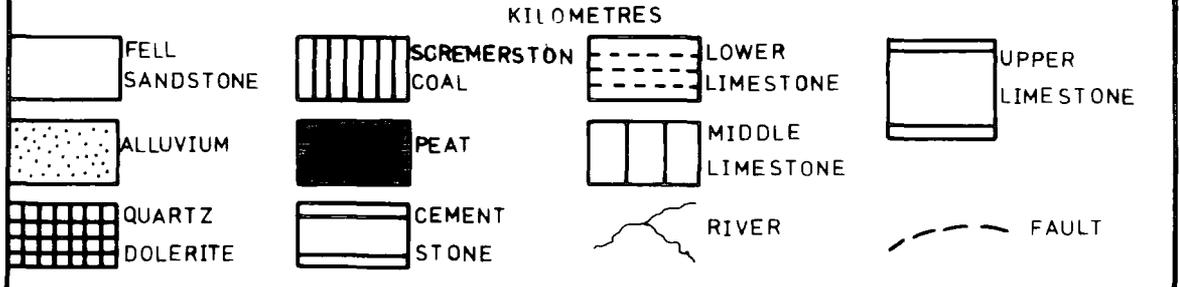


Figure 3 : Edlingham Geology: Drift

EDLINGHAM GEOLOGY — DRIFT

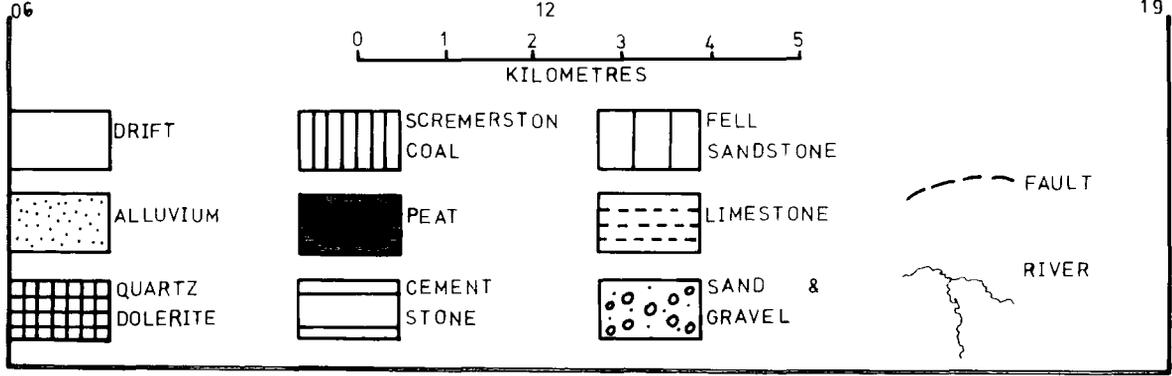
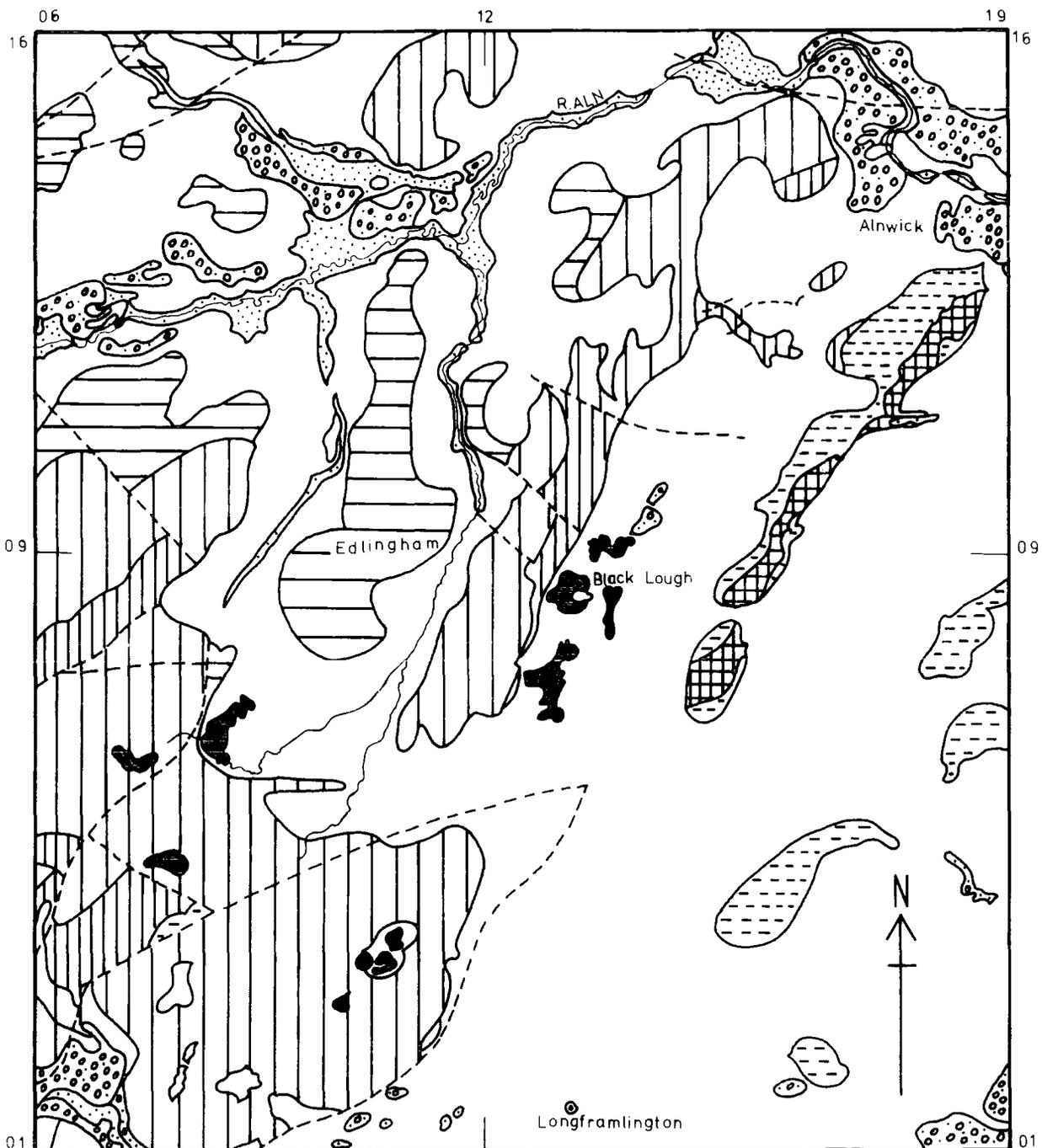
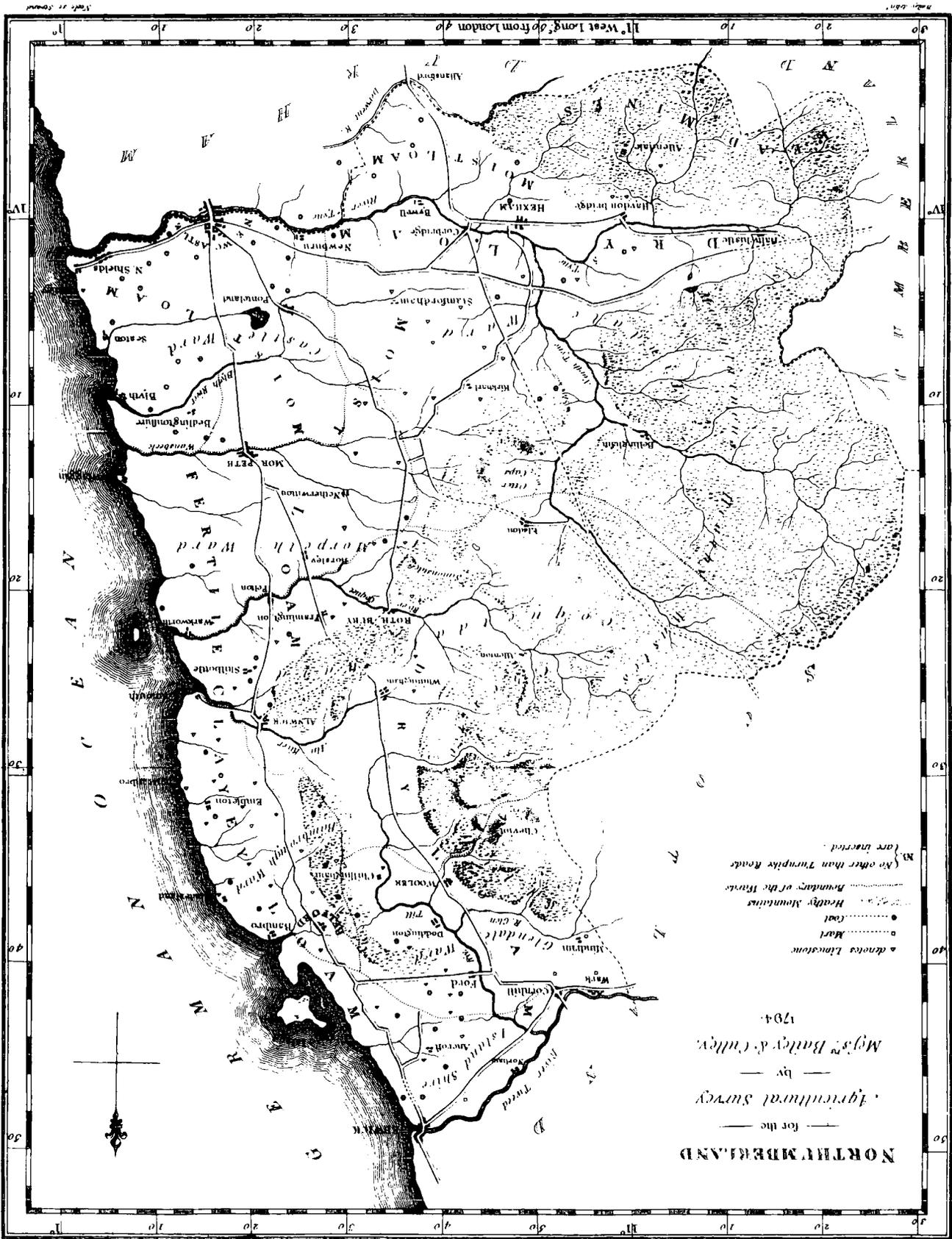


Figure 4 : Northumberland 1794
(copy of map from Bailey and Culley, 1801)



NORTHUMBRIA
 for the
 Agricultural Survey
 by
 Messrs. Bailey & Co.
 1864.

- denotes Limestone
- Coal
- Moorland
- Boundary of the State
- No other than Turnpike Roads
- (not inserted)

Figure 5 : Edlingham Region: Pre Iron Age Sites

EDLINGHAM REGION: Pre Iron-Age Sites

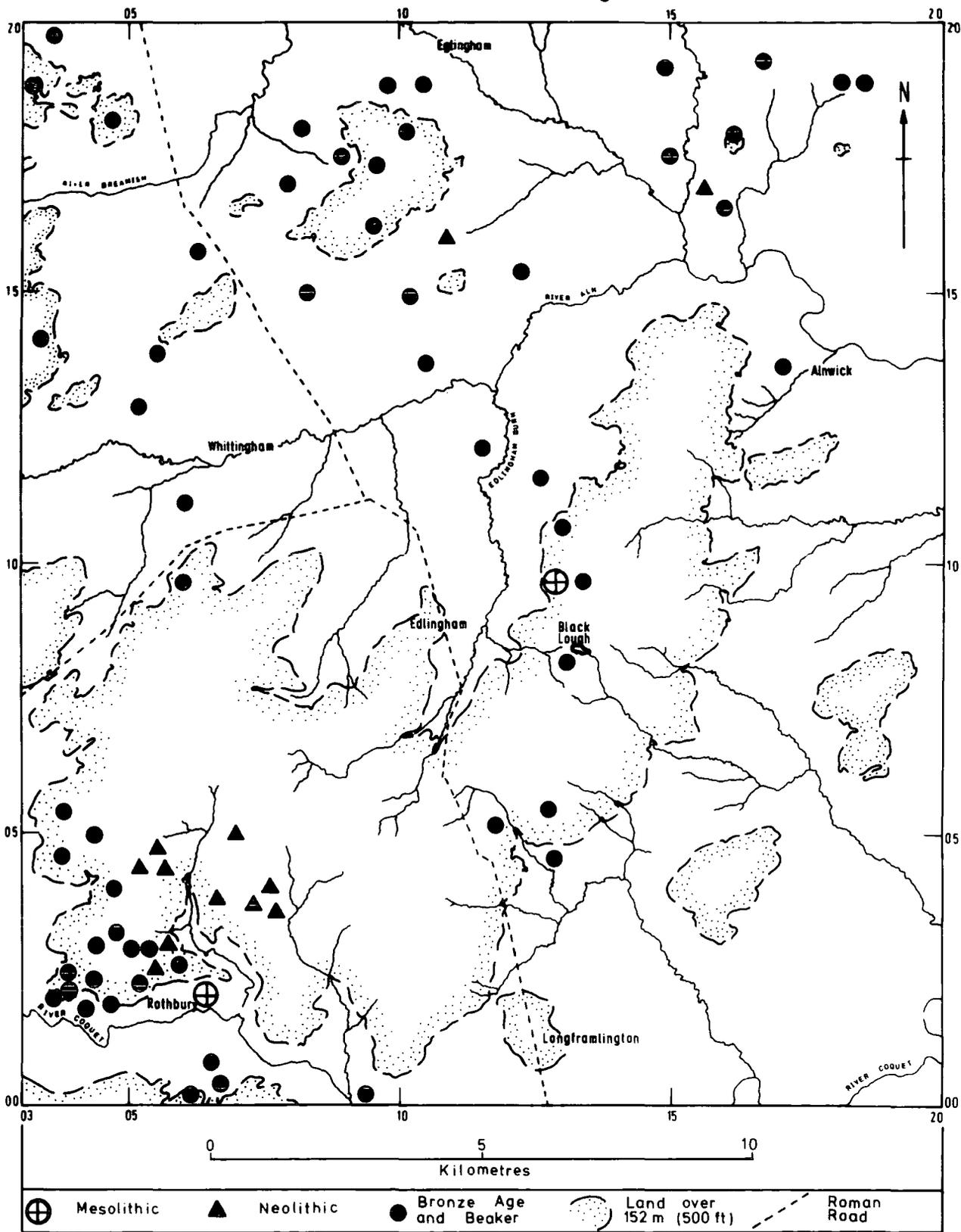


Figure 6 : Edlingham Region:
Iron Age and Romano-British Sites

EDLINGHAM REGION: Iron-Age and Romano-British Sites

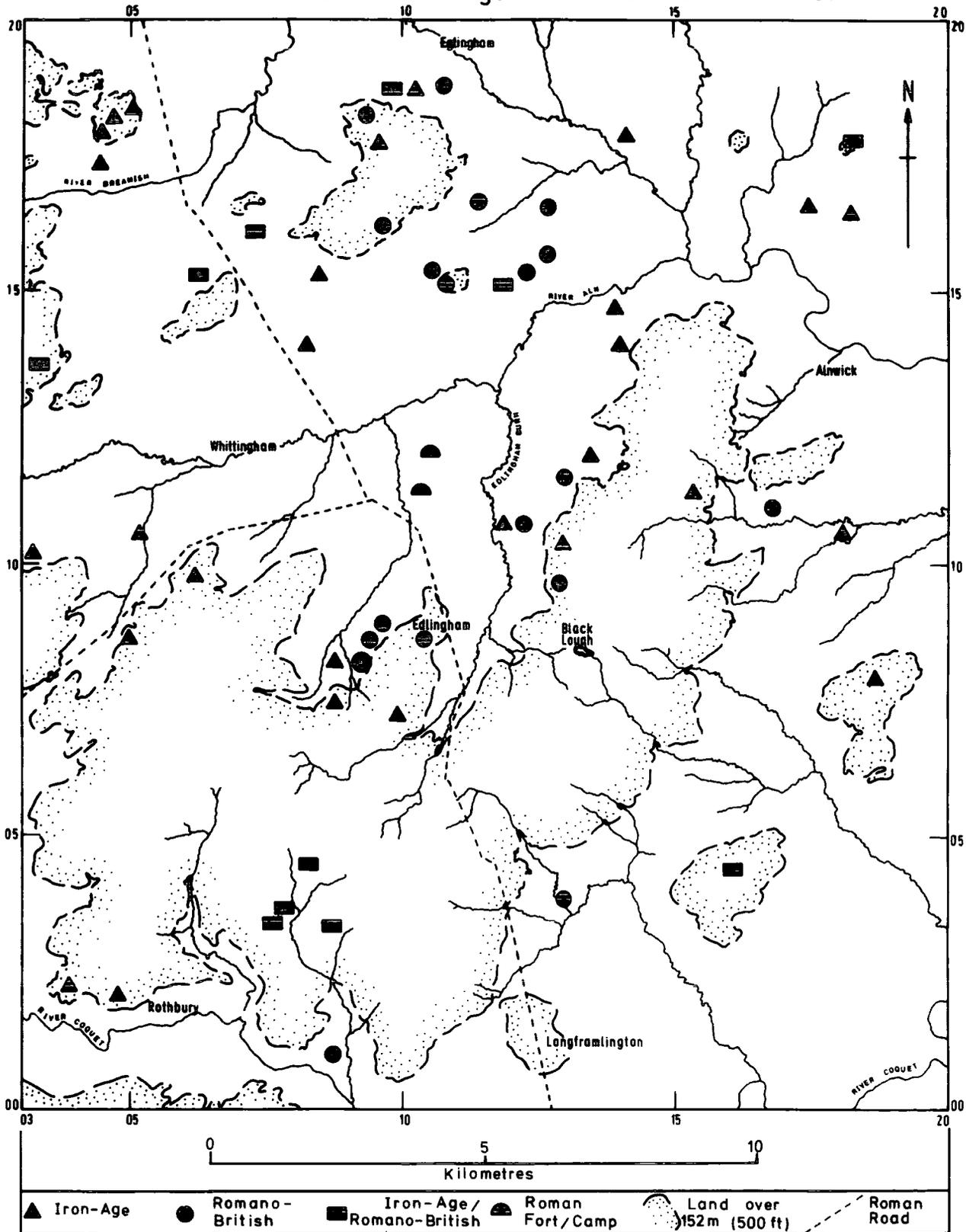


Figure 7 : Edlingham Region: Post Roman Sites

EDLINGHAM REGION: Post Roman Sites

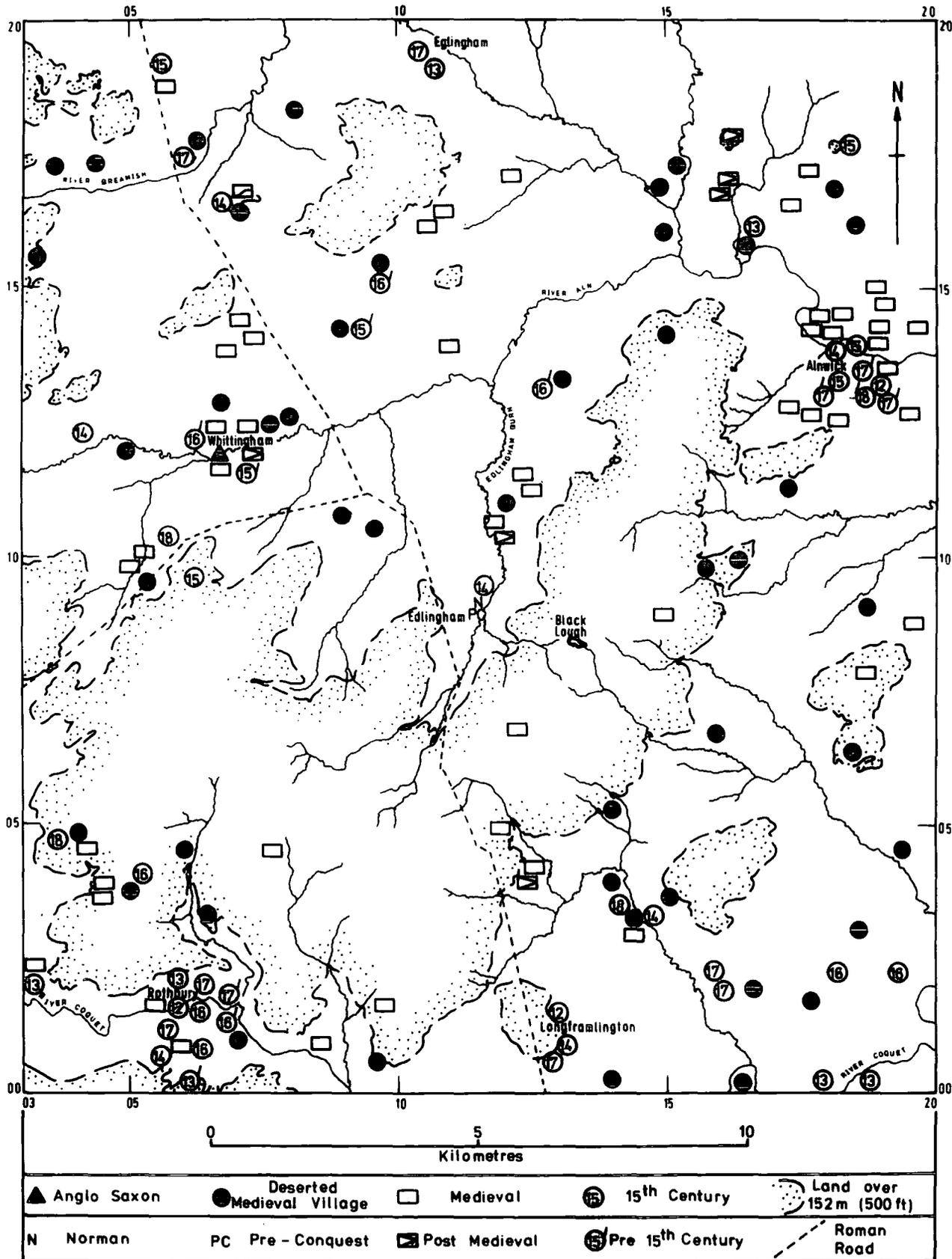


Figure 8 : Elm Decline: Radiocarbon Dates From
Sites in North East England

ELM DECLINE

Site ^{1.}	Radiocarbon Date
Din Moss (Hibbert and Switsur, 1976)	5390 ± 70 b.p.
Neasham Fen (Bartley, et al 1976)	5468 ± 80 b.p.
Mordon Carr (Bartley, et al 1976)	5305 ± 55 b.p.
Bishop Middleham (Bartley, et al 1976)	10 cm. below 5180 ± 110 b.p.
Valley Bog (Chambers, 1978)	4794 ± 55 b.p.
Hallowell Moss (Donaldson and Turner, 1977)	below 4938 ± 60 b.p.

1. Site locations shown in figure 1

Figure 9 : Edlingham Site Details

EDLINGHAM: Site

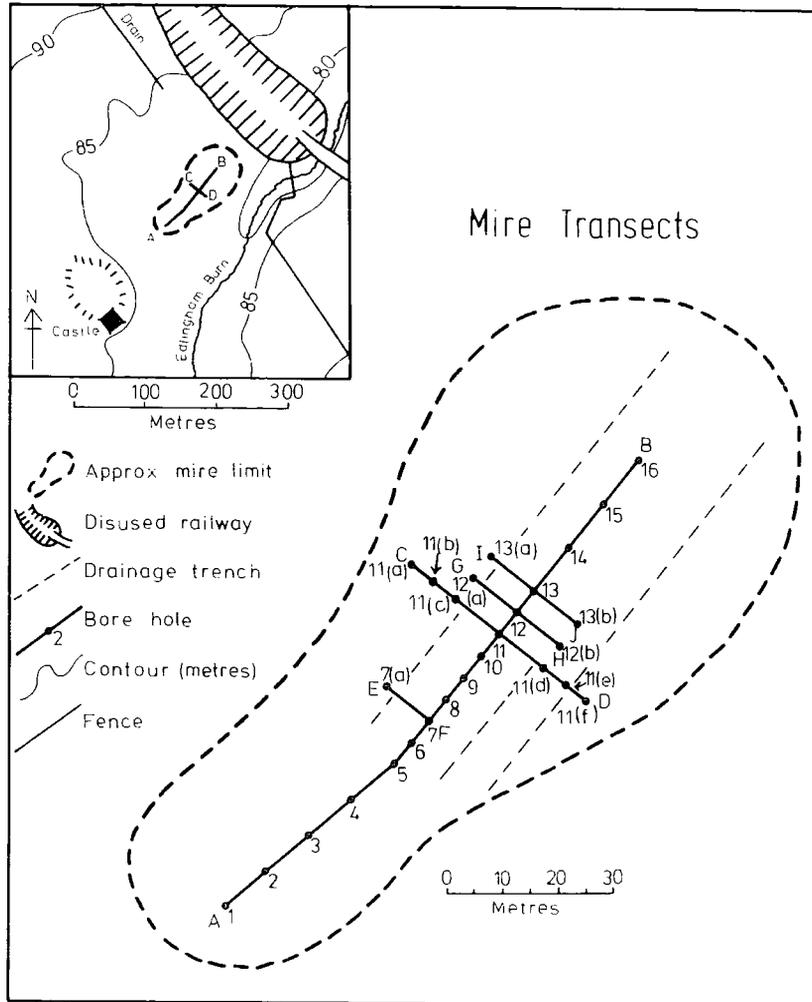


Figure 10(a) : A key to the groups of symbols used in the stratigraphic diagrams according to Troels-Smith (1955). The encircled superscript numbers indicate degrees of humification of the element on a scale of 0-4, ranging from completely unhumified sediment (0) to completely humified (4). The numbers following the element indicate the proportion of the total sediment (in quarters) which the particular element comprises. Increasing humification level is indicated diagrammatically by an increasing line thickness. The proportion of an element in the sediment is indicated by the density of lines or symbols on the diagram.

 Sh[Ⓢ] Substantia humosa
(Undifferentiated organic material)

 Ag₂ Argilla granosa
(Silt)

 Th[Ⓢ] Turfa herbacea
(Roots of herbaceous plants)

 Ga₂ Grana arenosa
(Sand)

 Th[Ⓢ] (vagi) Turfa herbacea
(Comprising *Eriophorum vaginatum*)

 Ldi[Ⓢ] Limus humosus
(Fine detritus mud)

 Tb₃[Ⓢ] Turfa bryophytica
(Moss peat)

 Gg₂(min) Grana glareosa (minora)
(Fine gravel)

 Tl[Ⓢ] Turfa lignosa
(Roots of woody plants)

 Gg₃(maj) Grana glareosa (majora)
(Medium gravel)

 Dl₂ Detritus lignosus
(Wood and turf fragments)

 Str. Conf. Stratum confusum
(Disturbed stratum)

 Dh₂ Detritus herbosus
(Stems and leaves of herbaceous plants)

 Dg₂ Detritus granosus
(Small fragments of wood, bark and herbaceous parts of plants)

 As₂ Argilla steatodes
(Clay)

Boundary area

	lim. 4	< 0.5mm.
	lim. 3	< 1mm and > 0.5mm.
	lim. 2	< 2mm and > 1mm.
	lim. 1	> 1cm and > 2mm.
	lim. 0	> 1cm.

Figure 10 : Edlingham Stratigraphy: Transect A-B

EDLINGHAM STRATIGRAPHY Transect A - B

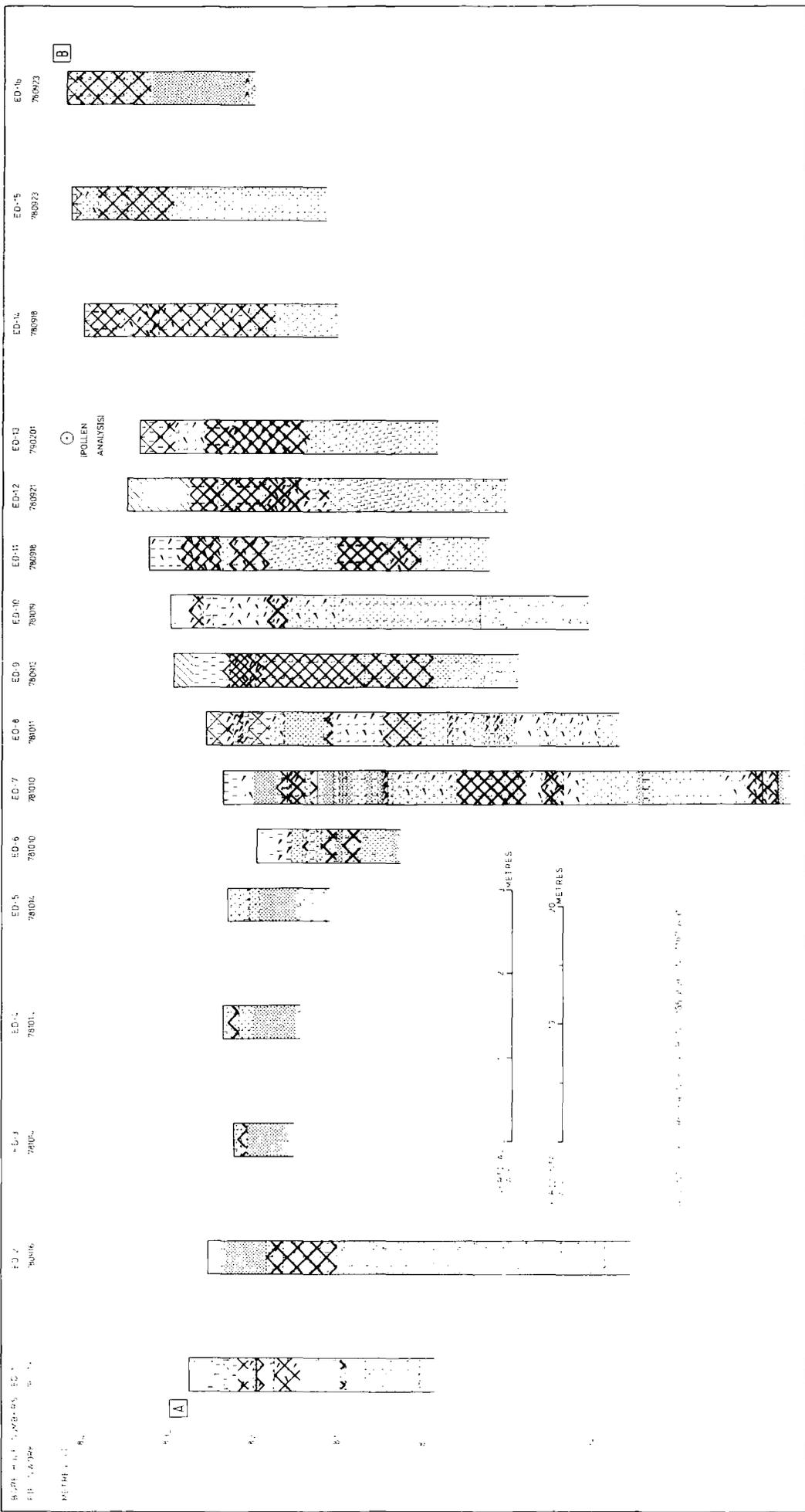


Figure 11 : Edlingham Stratigraphy: Transects C-D,
E-F, G-H, I-J

EDLINGHAM STRATIGRAPHY

Tronsects C-D, E-F, G-H, I-J

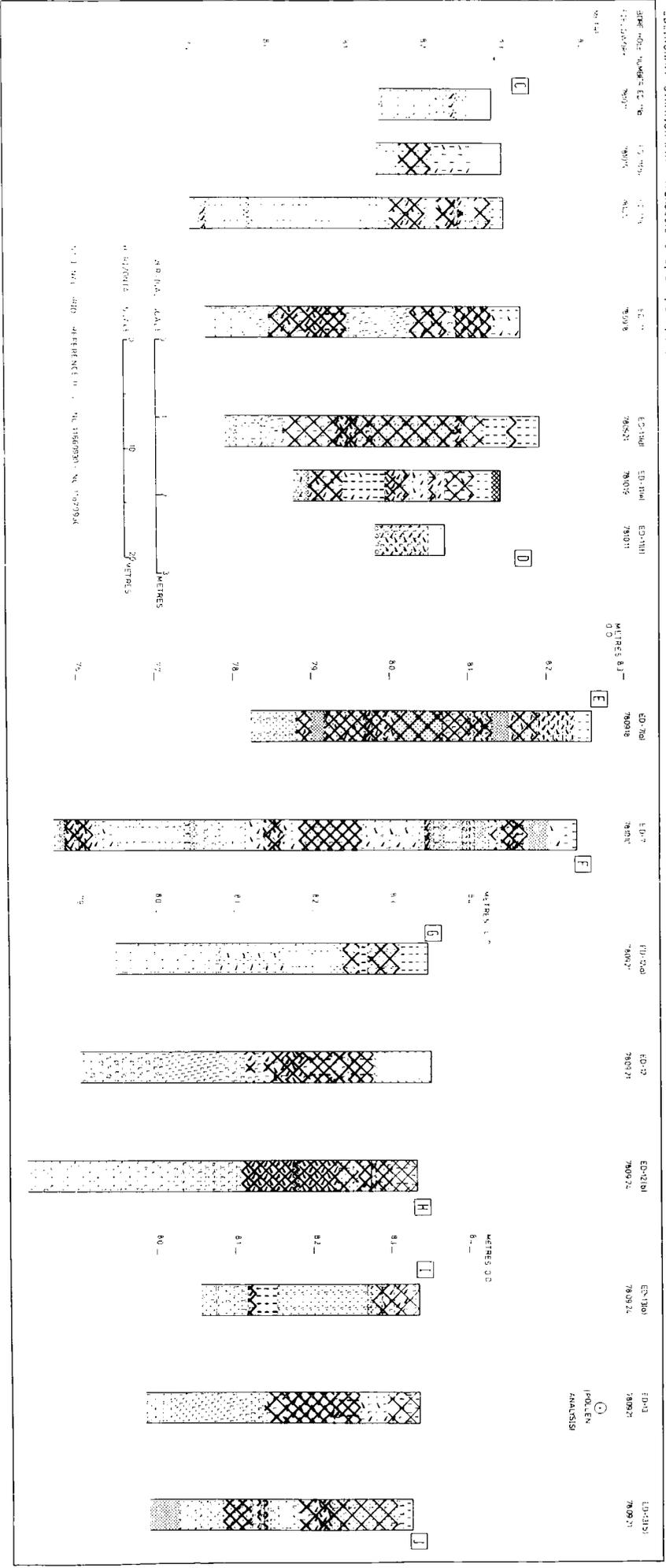


Figure 12 : Edlingham 13: Pollen Concentration

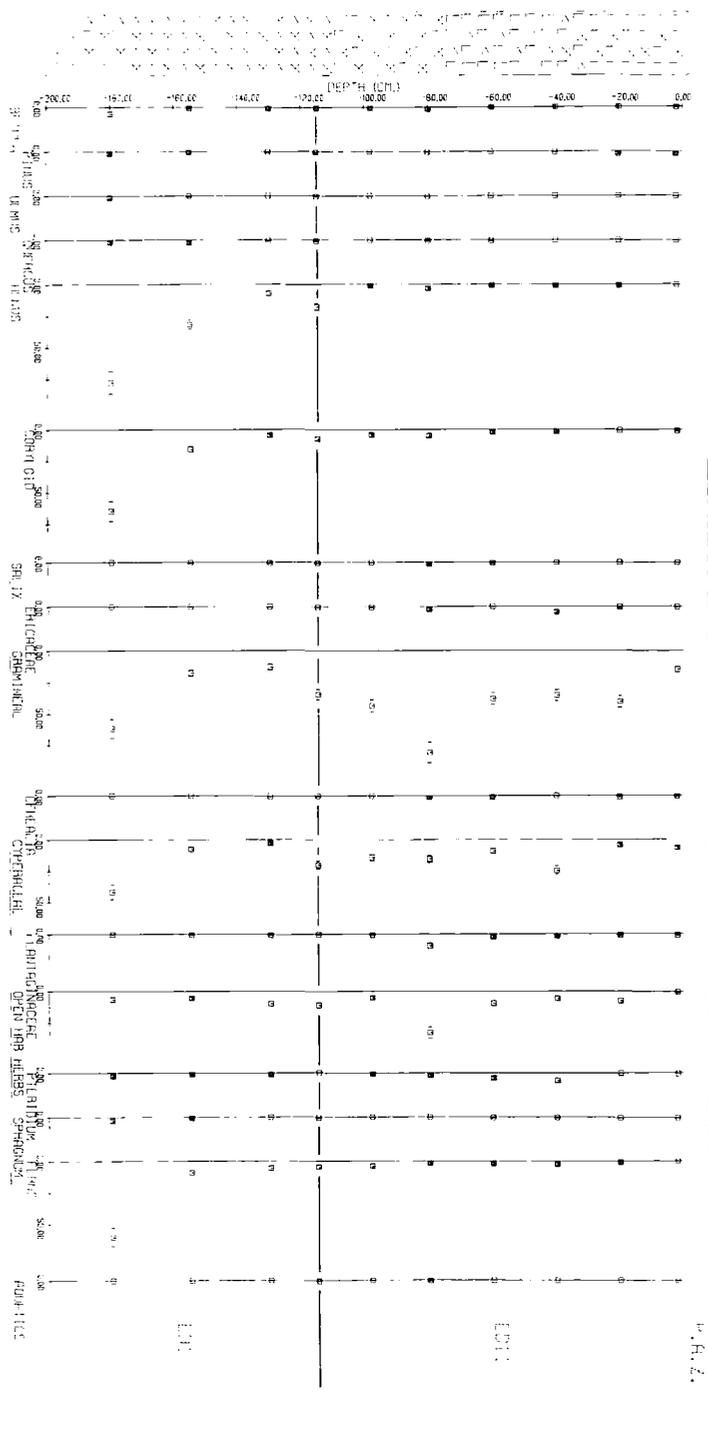
SECTION THROUGH THE WALL

SCALE: 1/8" = 1'-0"

DATE: 11/11/03

PROJECT: [illegible]

NO. 103



1/8" = 1'-0"

DATE: 11/11/03

SECTION THROUGH THE WALL

Figure 13 : Edlingham 13: % Total Land Pollen (total
pollen excluding aquatics and spores)

Figure 14 : Black Lough: Site

BLACK LOUGH: Site

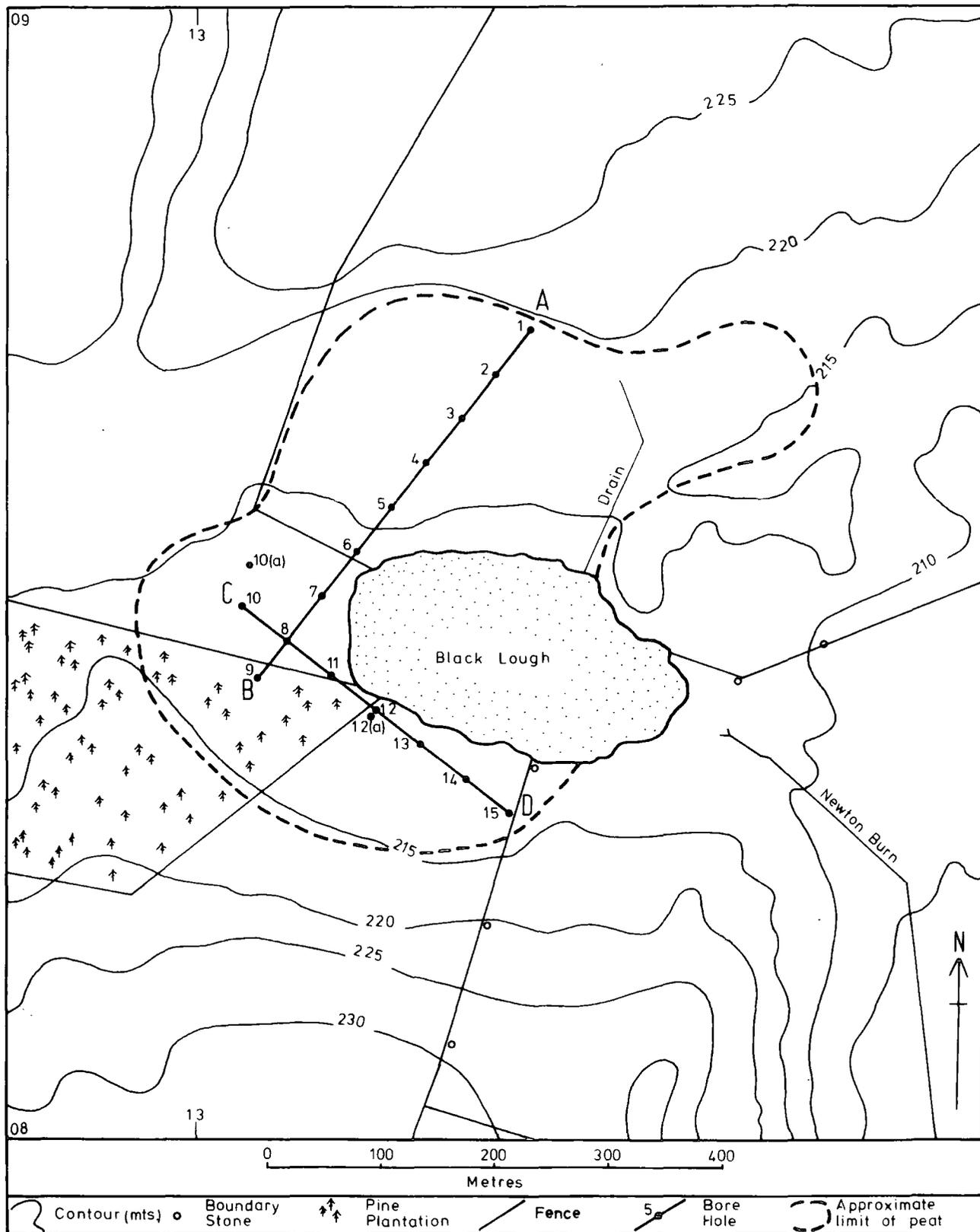


Figure 15 : Black Lough Stratigraphy: Transect A-B

BLACK LOUGH STRATIGRAPHY: Transect A-B

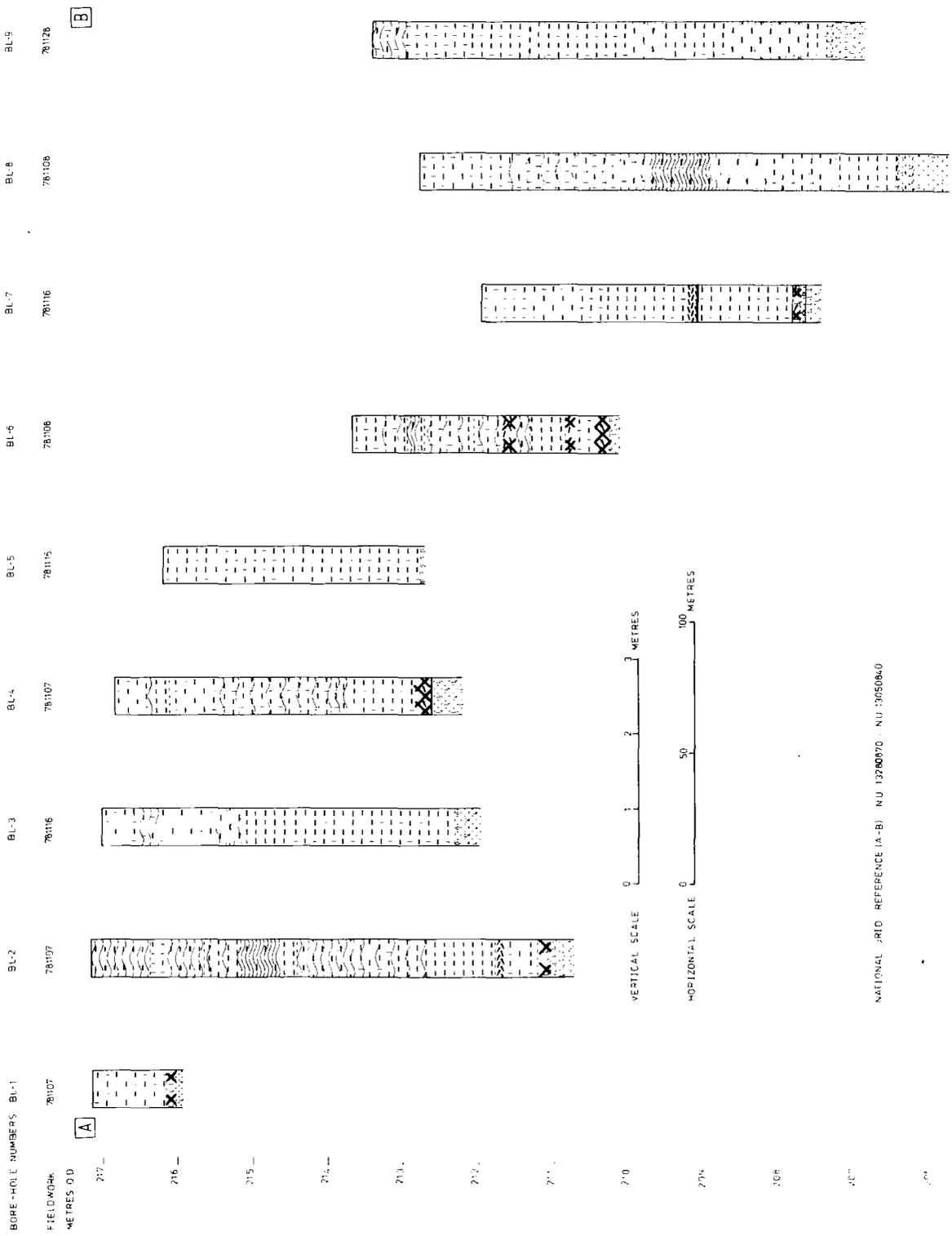


Figure 16 : Black Lough Stratigraphy: Transect C-D

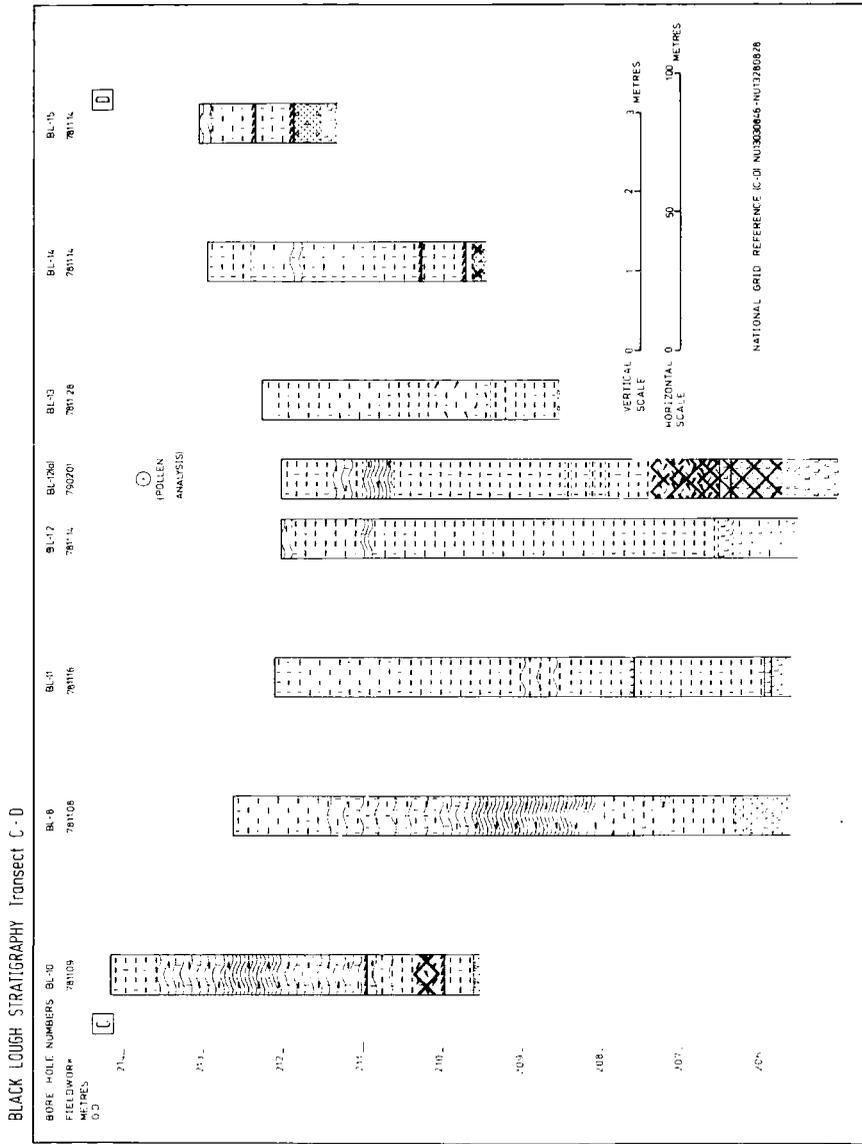
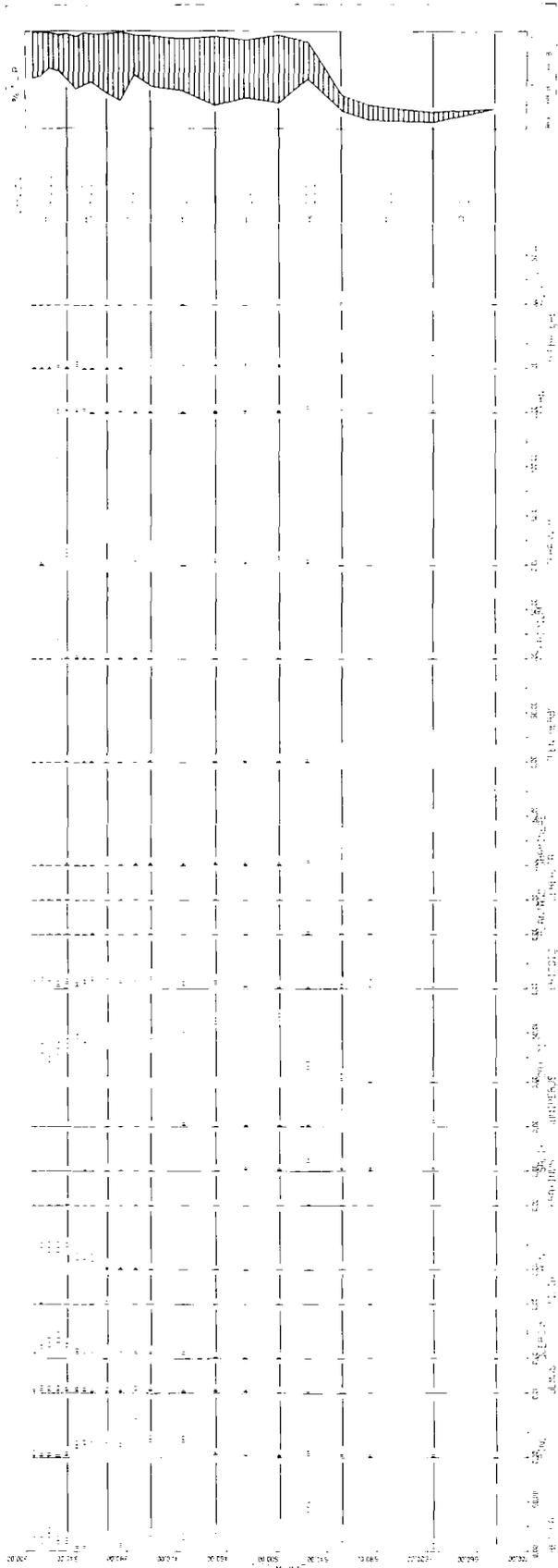


Figure 17 : Black Lough 12(a): % Total Land Pollen,
300-700 cm.



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TOTAL POLYMER QUANTITIES
 AND SPORES

• INCREASE IN POLYMER QUANTITIES

Figure 18 : Black Lough 12(a): % Total Land Pollen,
150-300 cm.

Figure 19 : Black Lough 12(a): % Total Land Pollen,
0-150 cm.

TOTAL POLLEN EXCL. AQUATICS
AND SPORES

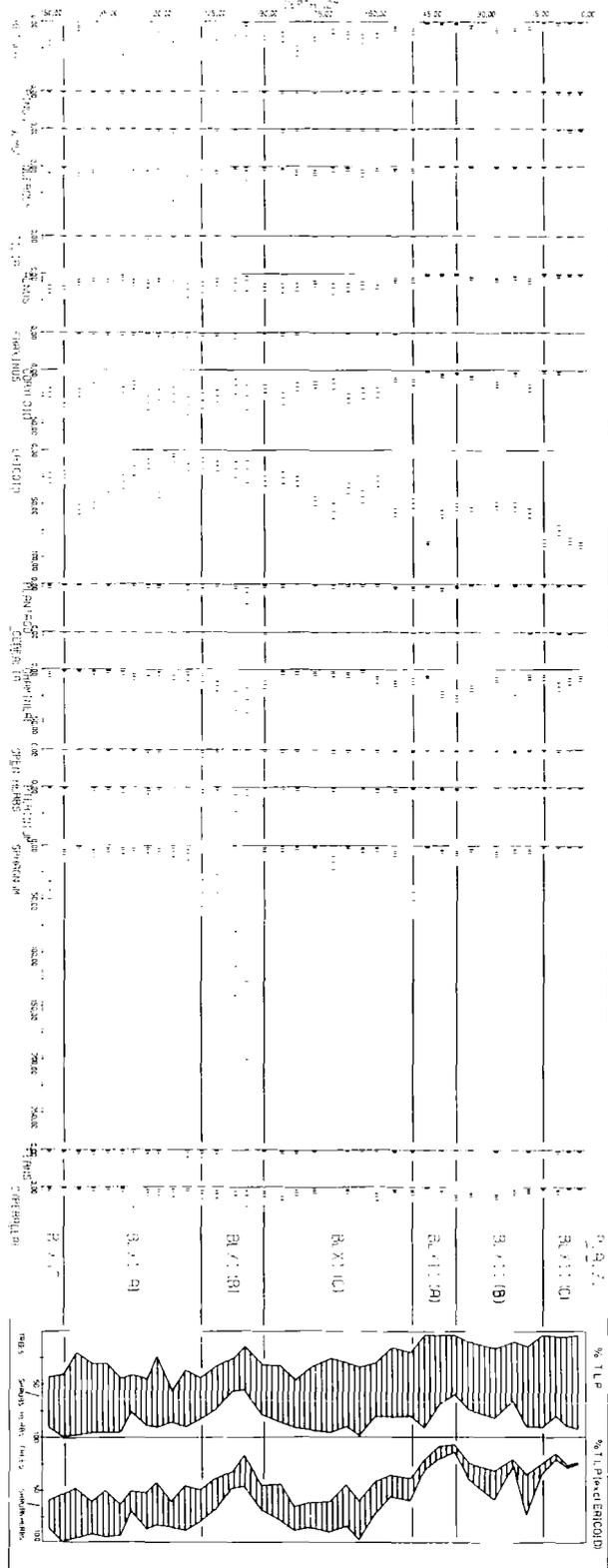


Figure 20 : Black Lough 12(a): Pollen Concentration,
300-700 cm.

B. ACK LOUGH 12 (A)
 GRID REF. NU13200835
 212.20M. 00

POLLEN CONCENTRATION
 (GRAINS / CM³ × 10³)

PROGRAM COPYRIGHT © SHEENAN 1979

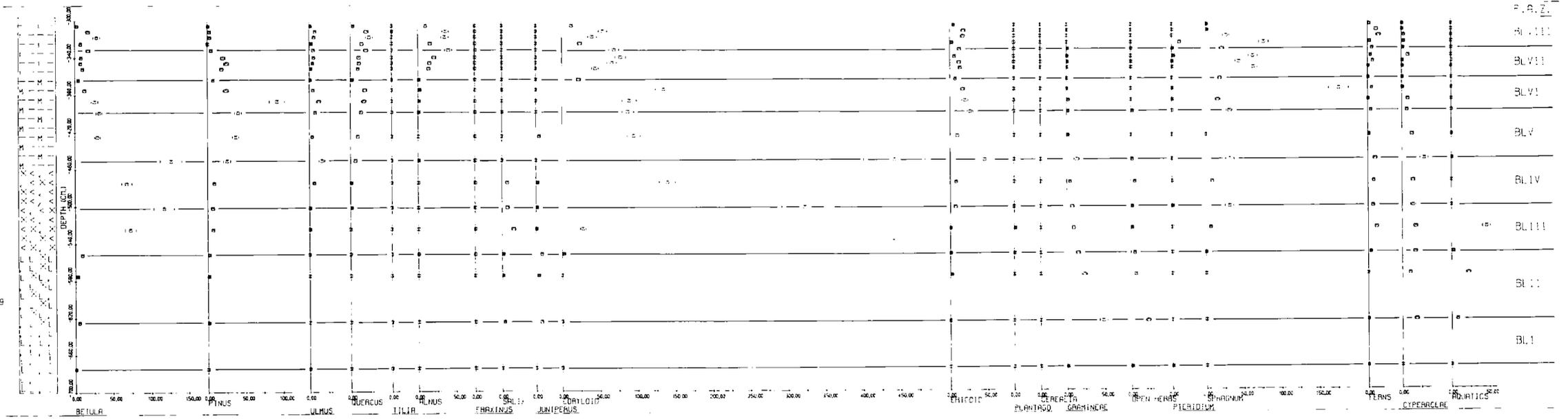


Figure 21 : Black Lough 12(a): Pollen Concentration,
150-300 cm.

Figure 22 : Black Lough 12(a): Pollen Concentration,
0-150 cm.

Figure 23 : Black Lough: Minerogenic/Biogenic Transition

BLACK LOUGH : Minerogenic - Biogenic Transition

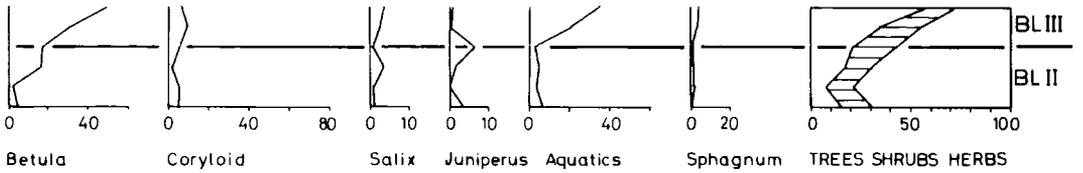
BL. 11(a)

LITHOLOGY



Depth cm.
500
550

Samples



Percentage Total Pollen (excl. aquatics and spores)

BL III
BL II

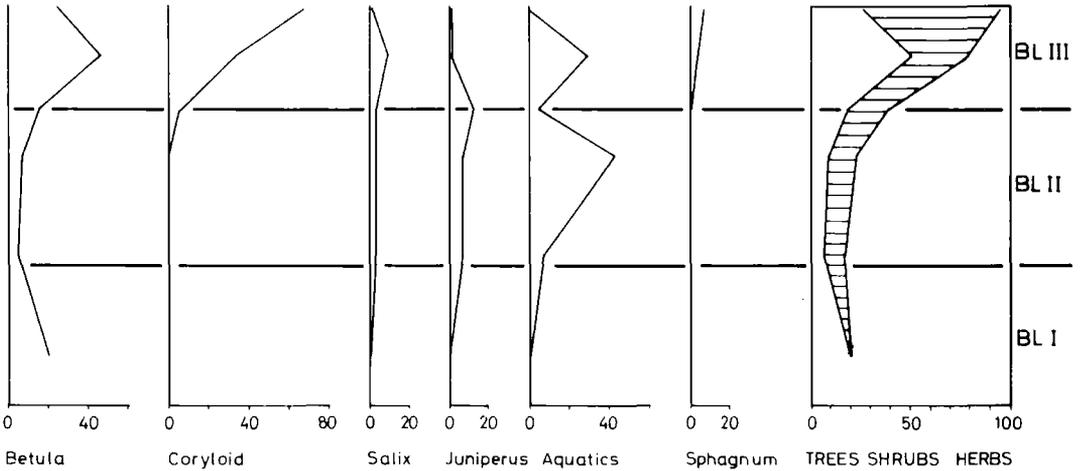
BL.12(a)

LITHOLOGY



Depth cm.
500
550
600
650
700

Samples



Percentage Total Pollen (excl. aquatics and spores)

BL III
BL II
BL I

Figure 24 : Black Lough Summary Pollen Diagram

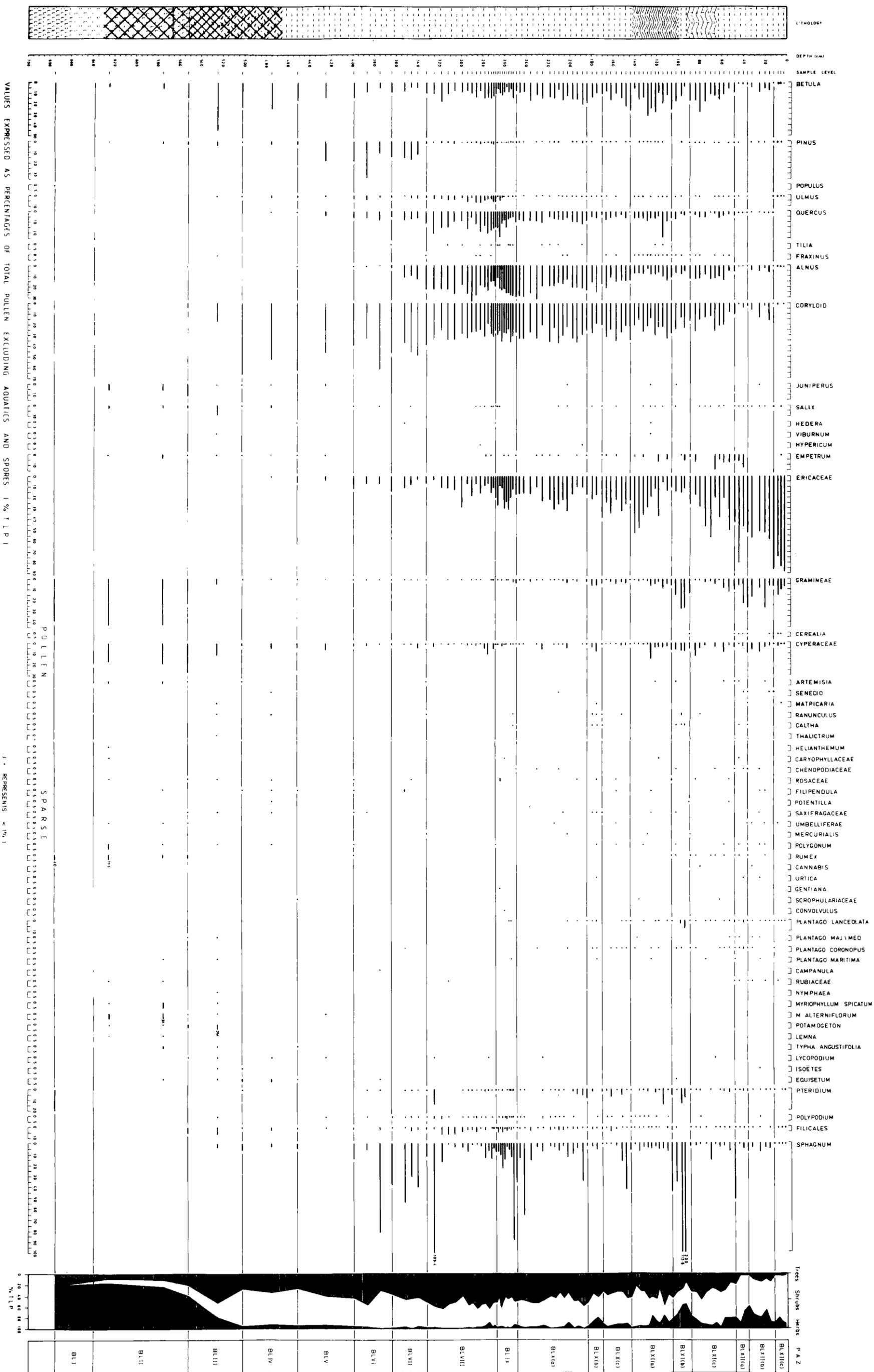


Figure 25 : Black Lough 12(a): Flandrian I/II Transition

BLACK LOUGH 12(a) : FLANDRIAN I/II TRANSITION (364 - 318 cm.)

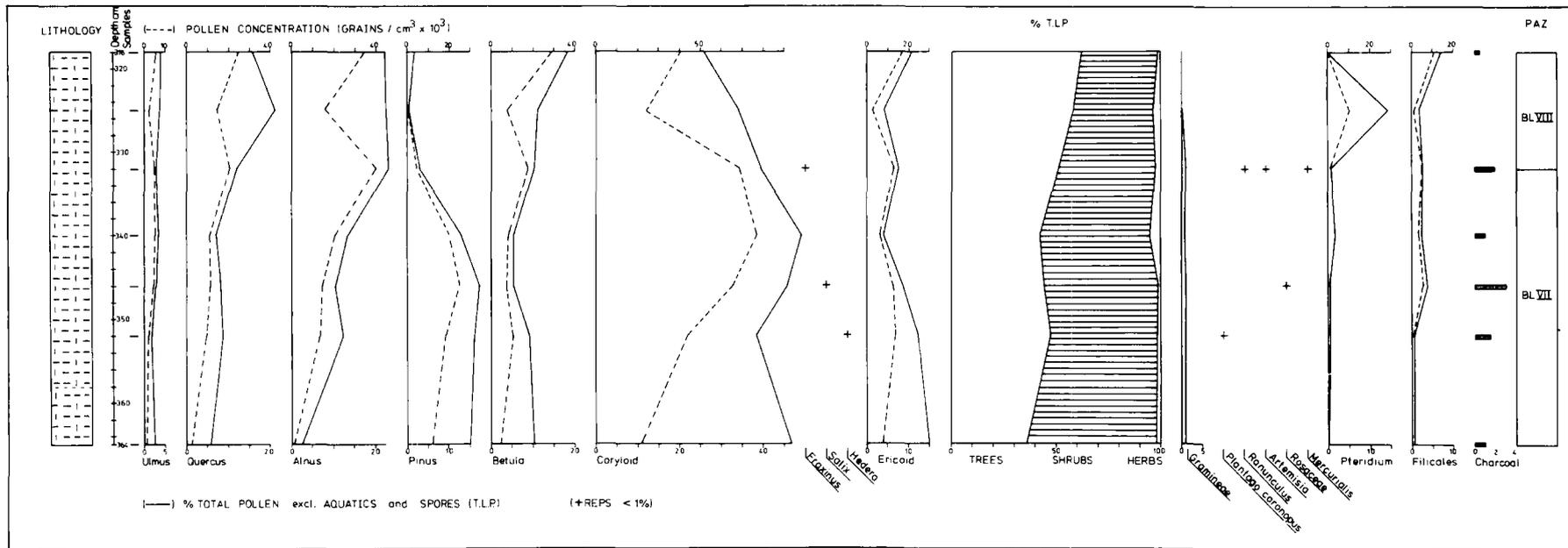


Figure 26 : Black Lough 12(a): Flandrian II/III Transition

Figure 27 : Black Lough 12(a): 166-188 cm.

BLACK LOUGH 17(a) 166-188 cm

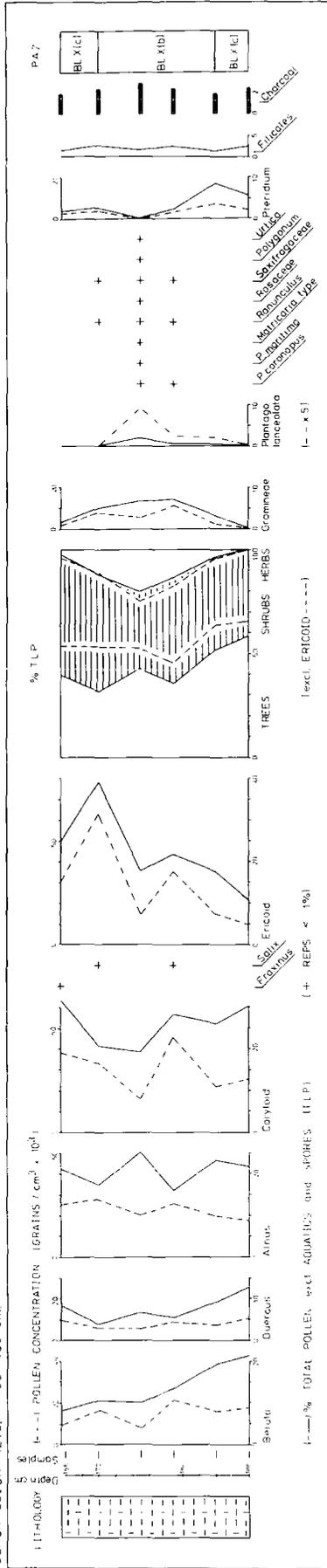


Figure 28 : Black Lough 12(a): 80-110 cm.

Figure 29 : Black Lough 12(a): 25-53 cm.

BLACK LOUGH 12 (a) 25-53 cm

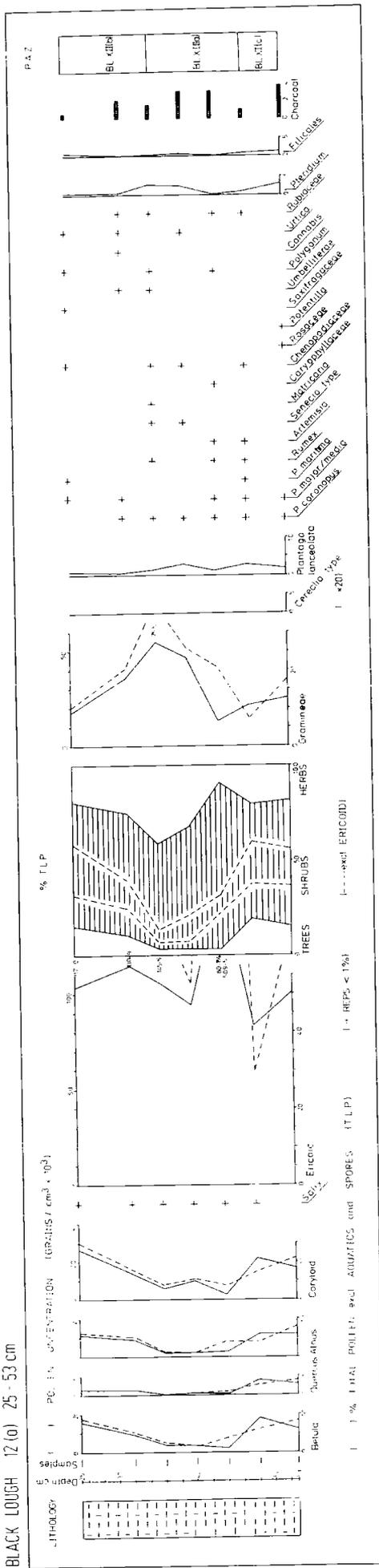


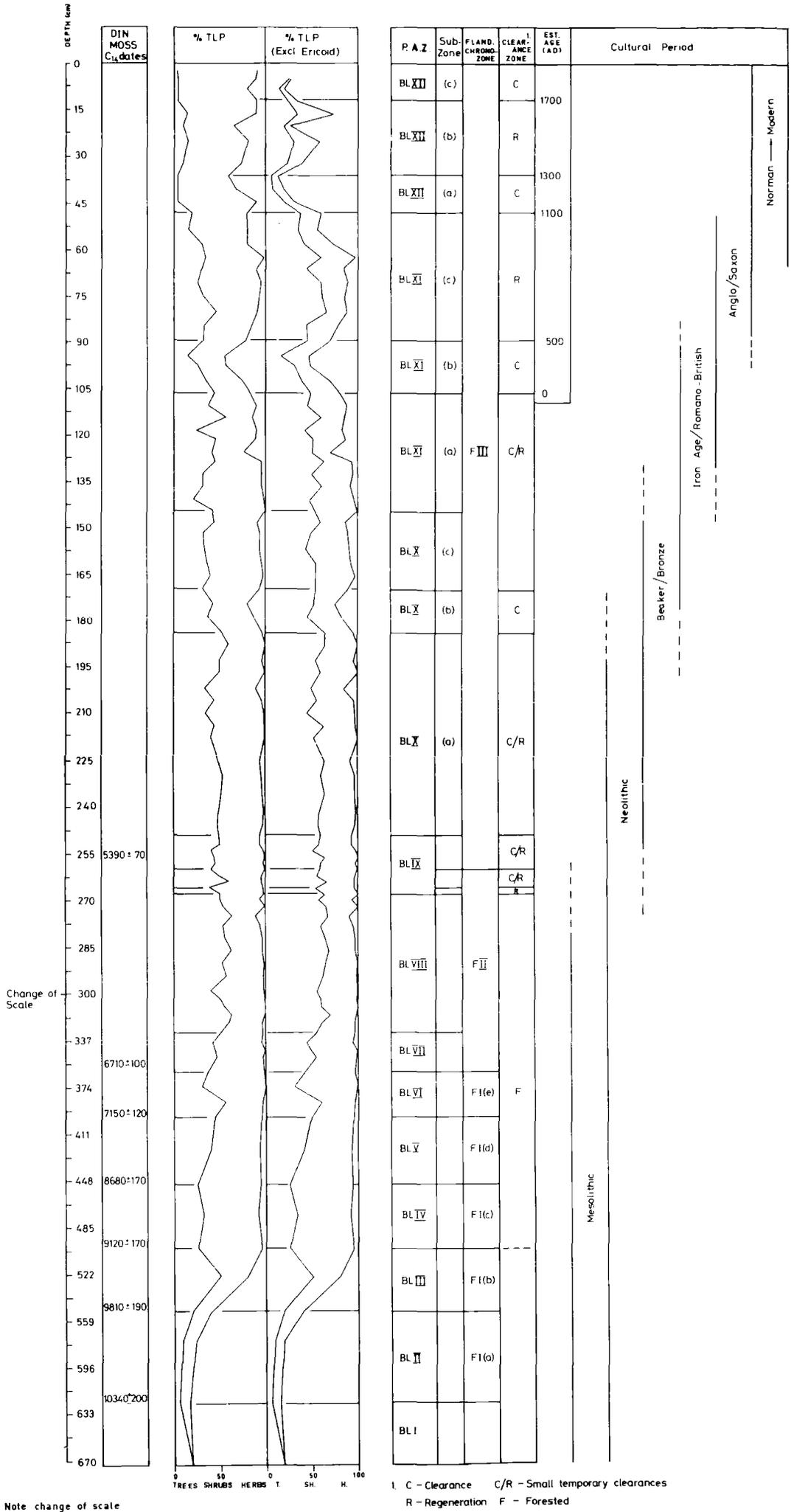
Figure 30 : Pinus/Corylus Relationship at the Flandrian
Transition for Sites in North-east England

PINUS/CORYLUS RELATIONSHIP

Site ^{1.}	<u>Corylus peak at Alder rise</u>	<u>Relationship to Pinus curve</u>	<u>Zone of Corylus rise</u>
Din Moss (Hibbert & Switsur 1976)	no peak, but decline from high values.	<u>Pinus</u> low through-out.	late FI
Linton Loch (Mannion 1978)	slight	<u>Pinus</u> low through-out.	FI/II
Muckle Moss (Pearson 1960)	distinct peak	close relationship to sharp decline of <u>Pinus</u> .	late FI
Coom Rigg (Chapman 1964)	distinct peak	close relationship to sharp decline of <u>Pinus</u> .	FI/II (mainly early FII)
Valley Bog (Chambers 1978)	no peak, but decline from high values.	<u>Pinus</u> remains high.	late FI
Thorpe Bulmer (Bartley et al 1976)	no peak, but decline from high values.	<u>Pinus</u> low through-out.	late FI
Bishop Middleham (Bartley et al 1976)	distinct peak	close relationship to decline of <u>Pinus</u> .	early FII
Red Sike Moss (Turner et al 1973)	slight peak	close relationship to decline of <u>Pinus</u> .	late FI

1. Site locations are shown in figure 1.

Figure 31 : Black Lough Clearance History: Summary Diagram



Note change of scale

I C - Clearance C/R - Small temporary clearances
R - Regeneration F - Forested

Figure 32 : Black Lough 12(a): Humification Levels and
Estimated Sedimentation Rates

BLACK LOUGH : SEDIMENTATION RATES

Depth (cm)	Pollen Zone	Cultural Period	Estimated Date	Zone Depth	Calculated Sedimentation Rate cm/century	Humification Levels
0	BL XII (c)	Modern	1950 1700	12	4.8	Sh 3
20	BL XII (b)	Late Medieval	1300	24	6.0	
40	BL XII (a)	Norman	1100	12	6.0	
60	BL XII (c)	Anglo Saxon			6.8	Sh 1
80			500	41		
100	BL XI (b)	<u>Roman</u> Late Iron Age	0	17	3.4	
120	BL XI (a)	Iron Age			7.6	Sh 3
140			500	38		
160	BL X (c)	Bronze Age				
180	BL X (b)			40		Sh 3
200		Late Neolithic			4.1	
220	BL X (a)	Mid Neolithic				
240						Sh 3
260	BL IX (c) (Eim Decline)	Early Neolithic	3300	76		
268	BL IX (b)					

BL IX (a)

Overall Sedimentation Rate : 4.95 cm/century

Figure 33 : Regional Correlation of Clearance History at
Sites in North-east England

NORTH EAST ENGLAND : Clearance History

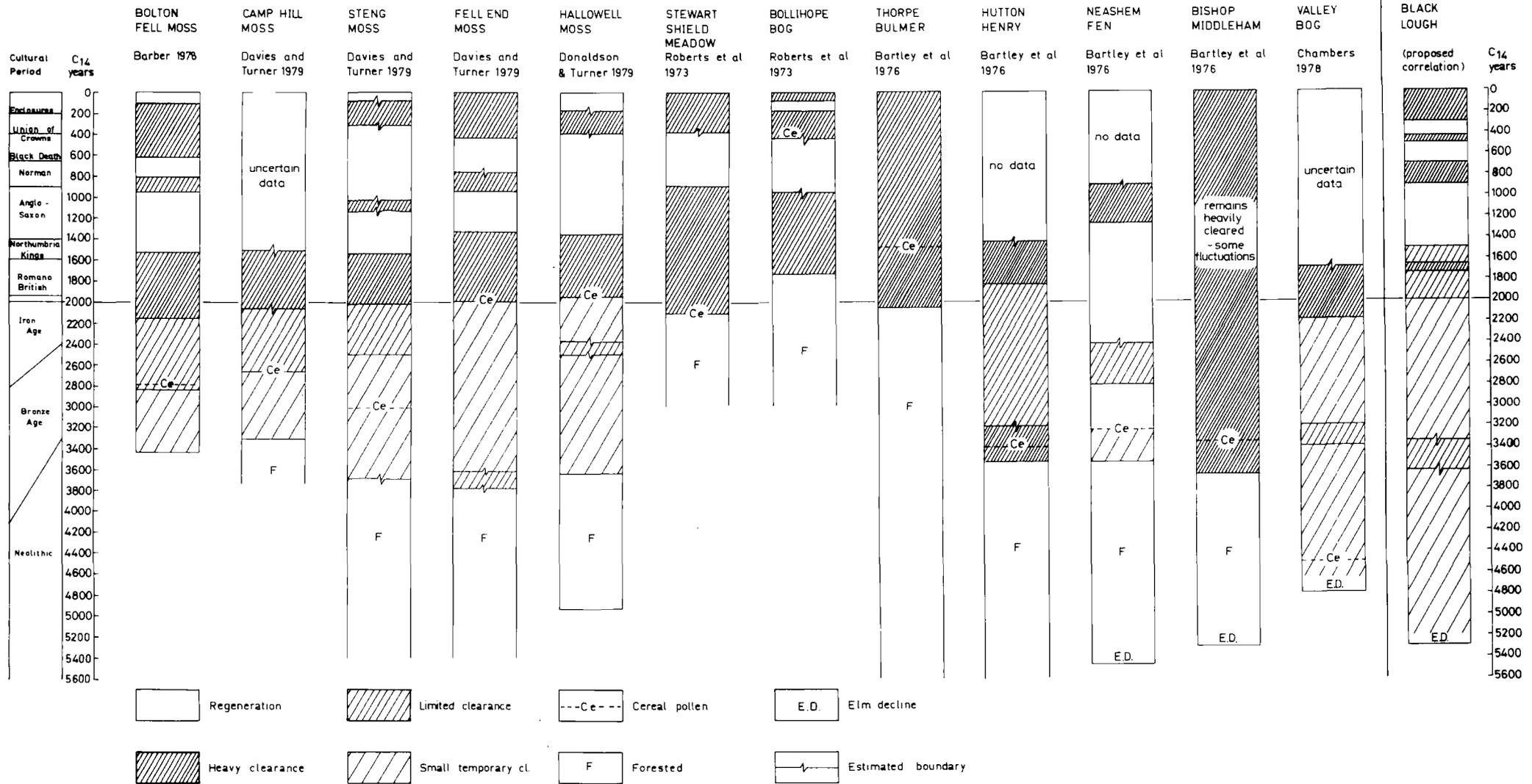


Figure 34 : Black Lough 12(a): Tentative Correlation of
Pollen Curve with Historical Events, Norman
Period to the Present

BLACK LOUGH : Norman to Present

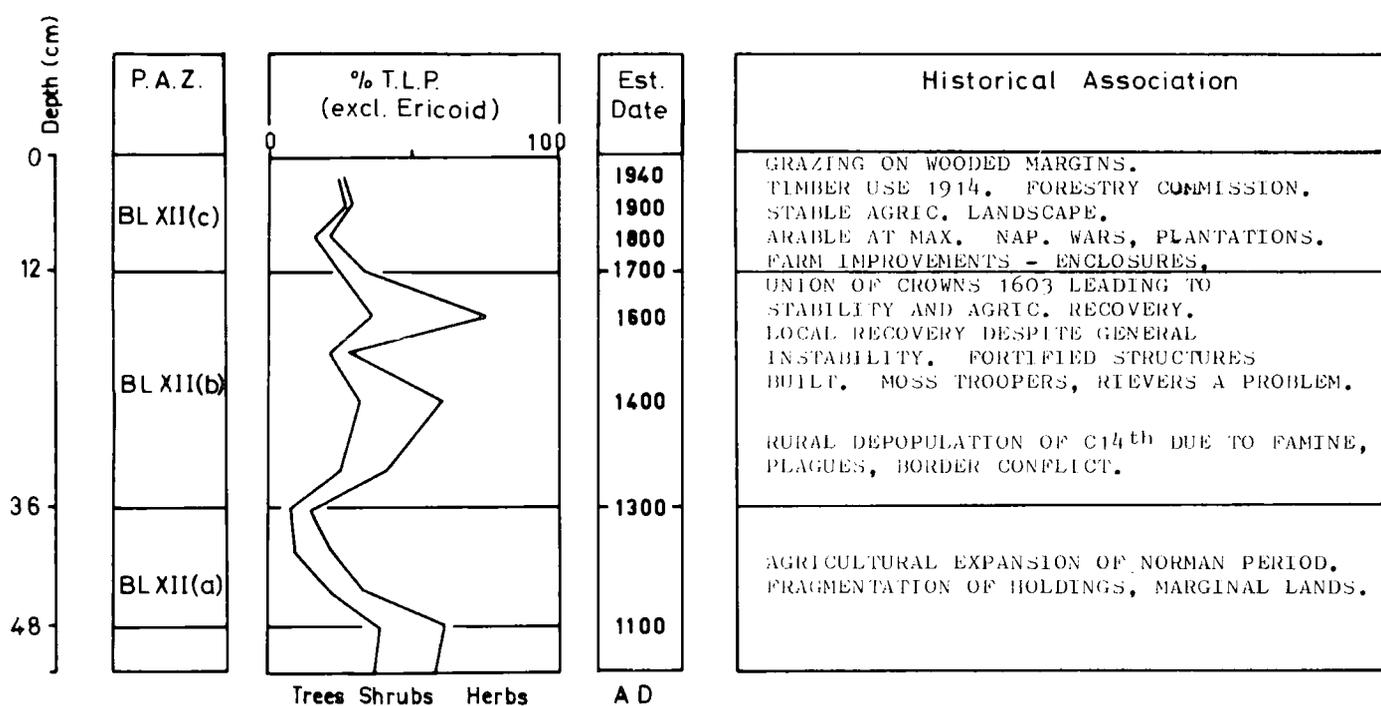


Figure 35 : Black Lough 12(a): Tentative Correlation of
Pollen Curve with Economic History

- Note : 1. Historical notes and predicted arboreal pollen curve compiled by Dr. B.K. Roberts, Dept. of Geography Durham University.
2. Lineal time scale approximate only due to variations in sedimentation rate.

BLACK LOUGH : vegetation / economic history correlation

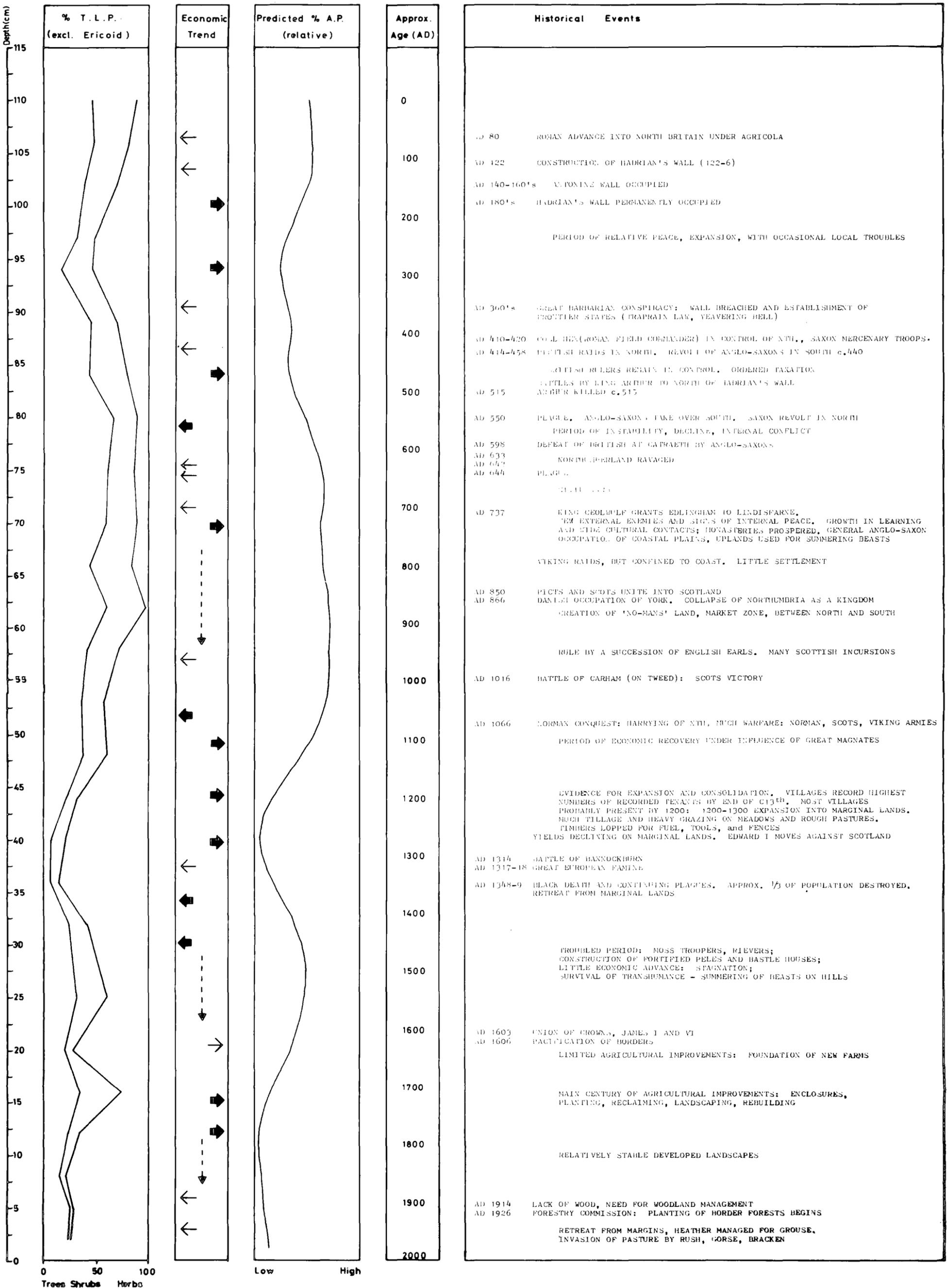


Figure 36 : Summary of Regional Clearance History in North
east England: Neolithic to Anglo-Saxon

N.E. ENGLAND: Neolithic to Anglo-Saxon

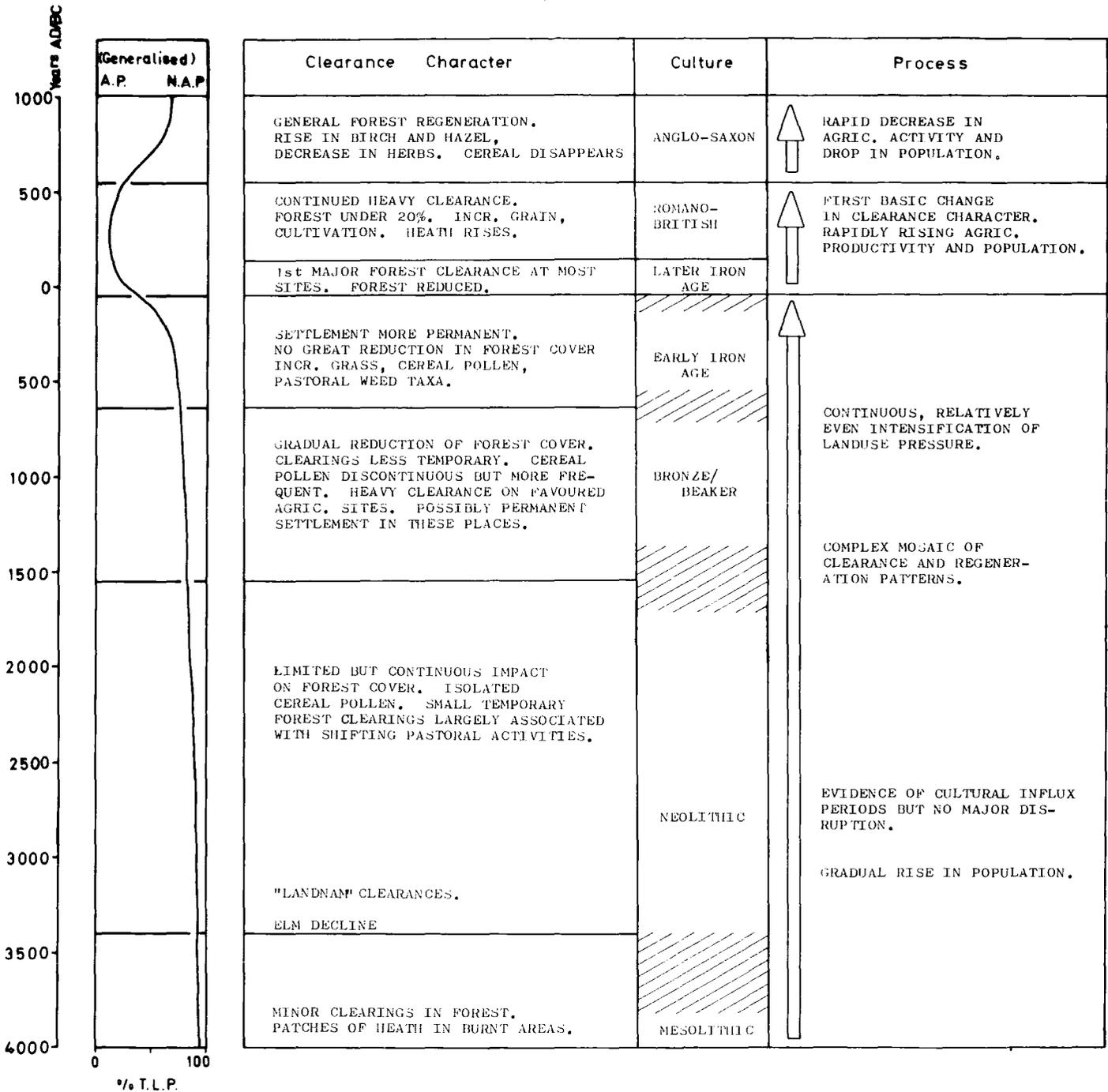


Figure 37 : Summary of Regional Clearance History in North-
east England: Early Medieval to the Present

N.E. ENGLAND : Early Medieval to Present

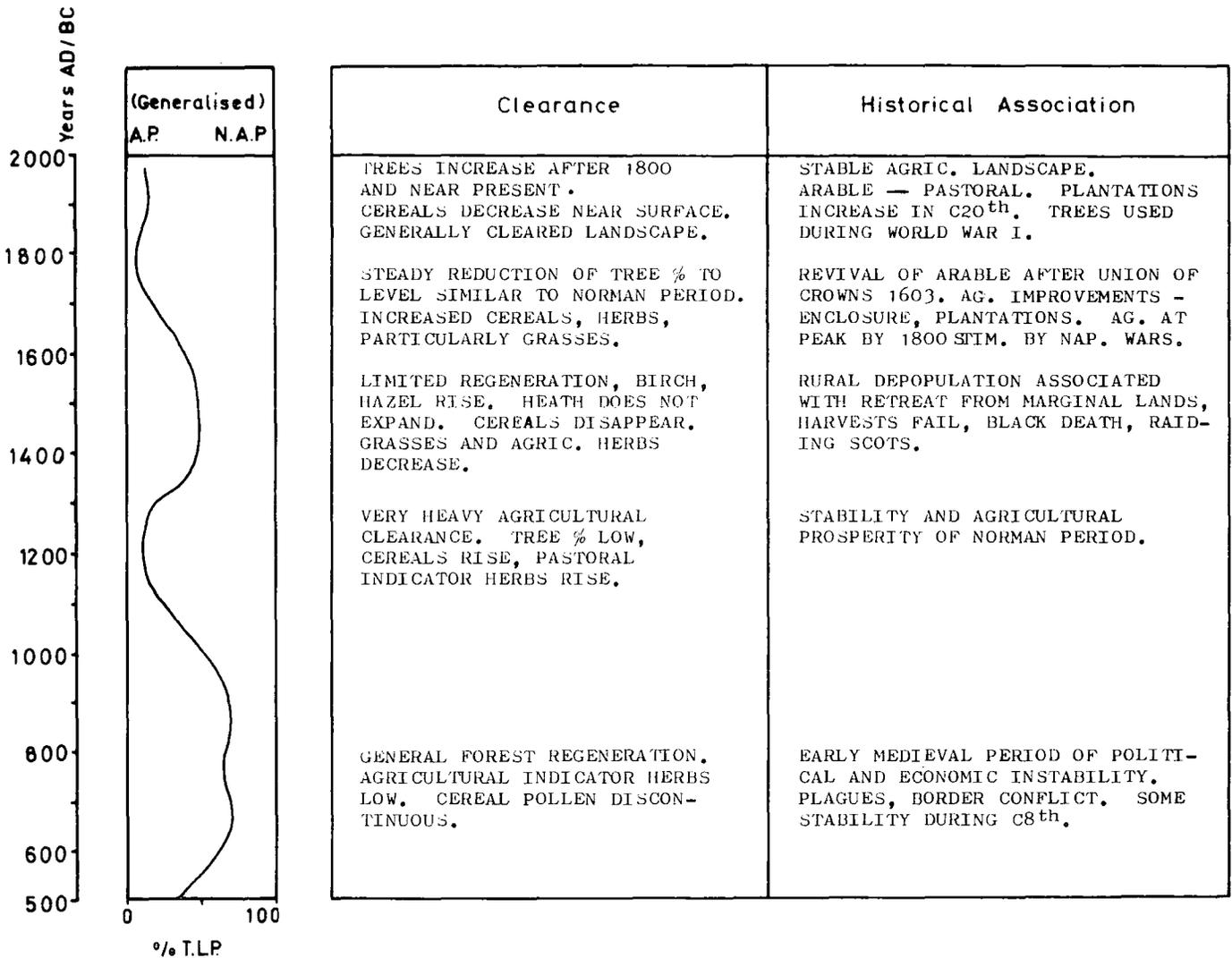
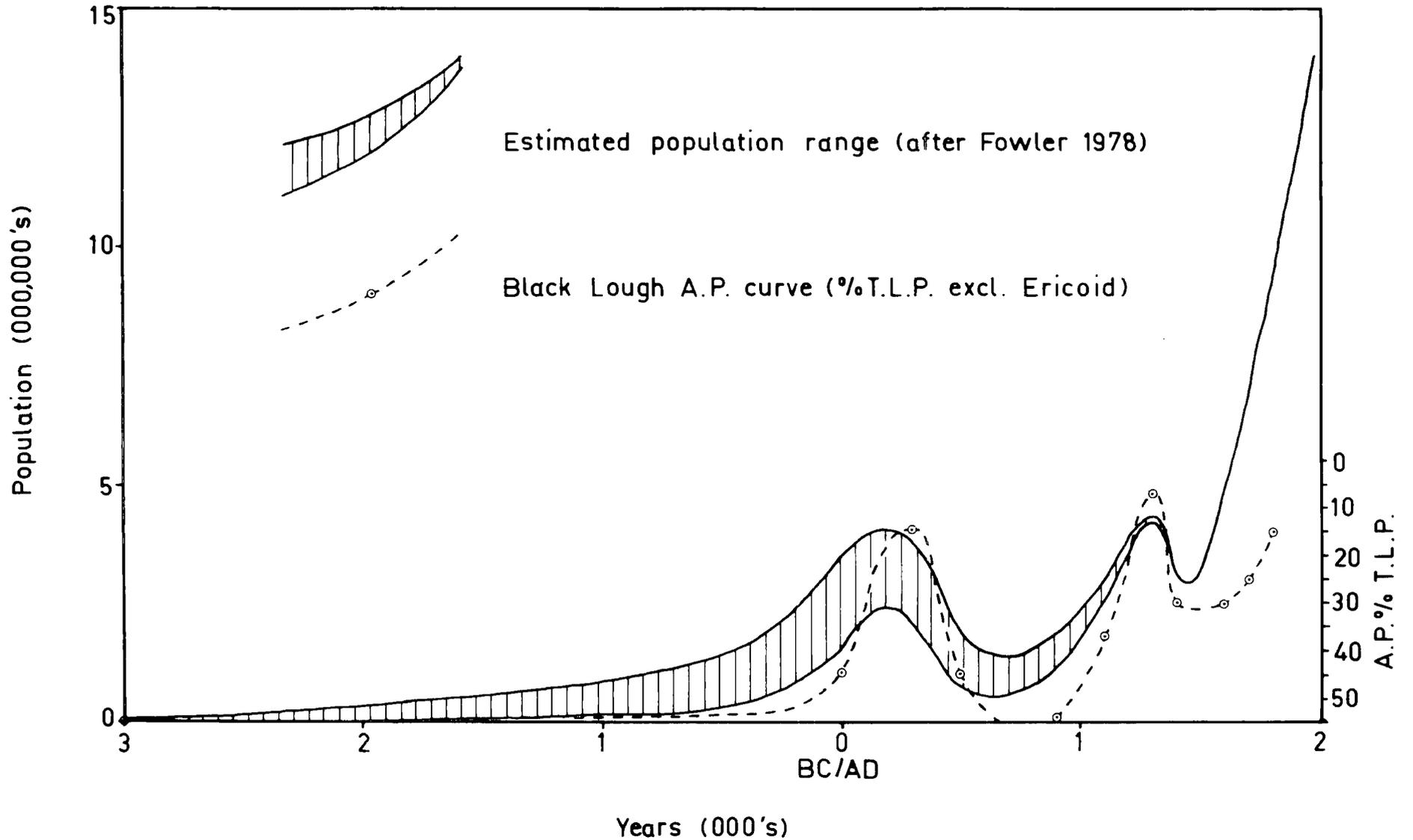


Figure 38 : Comparison of Population Curve for Southern
England (Fowler 1978) with Black Lough 12(a)
A.P. Curve

POPULATION / ARBOREAL POLLEN CURVE



Photograph 1 : Edlingham valley showing location of mire (dashed line) between castle and rail embankment. Runoff from neighbouring fields in the direction of Lumby Law (L.L.) is channelled toward the mire. The slope in the foreground is the western escarpment of the Fell Sandstone ridge upon which Black Lough is located (sandstone outcropping). Rolling hills in the background comprise rocks of the less resistant Cementstone Group (ref. section 1.3)

Photograph 2 : View of Edlingham village looking west from Fell Sandstone escarpment. Houses (H), church (Ch) and castle (C) are marked. Castle site is currently the subject of archaeological survey (note scaffolding around castle). Site of original Saxon settlement is probably on the fields between church and castle (ref. section 4.1)



Photograph 3 : The Parish Church of St. John The Baptist, Edlingham. The first church on this site is thought to date from c. AD 740. The present stone building began to emerge c. AD 1050. The defensive tower dates from the early 14th Century during the unsettled period of border raids (ref. section 2.7)

Photograph 4 : Black Lough viewed from the south, showing east-west extent of lake, and peat bog extending up to "lagg" area (dashed line) in the foreground (now drained). The eastern tip of the pine plantation is seen extending to near the lake edge on the right of the photograph. The lake probably results from peat cutting in more recent times. Black Lough occupies a depression in the underlying glacial drift with natural drainage blocked to the east (ref. section 5.1)



Photograph 5 : Edlingham mire (dashed line), adjacent to castle. Alder trees line Edlingham Burn in the foreground. The mire acts as a sump, taking drainage from the castle, surrounding slopes and springs (ref. section 4.1)

Photograph 6 : Winter view from Fell Sandstone escarpment north-west across Edlingham valley toward Lumby Law (L.L.) and the Cheviot massif (partially cloud obscured) in the distance. Snow lies much deeper on the uplands (see also photo 7) than on the surrounding valley. Ridge and furrow patterns can be clearly seen on the lowland areas



Photograph 7 : Black Lough remained heavily snow-bound between December 1978 and April 1979. Winter conditions would normally be harsh on the exposed sandstone uplands. Borehole BL 12(a) (sample site) is located near the frozen lake surface and the pine plantation at the deepest point of the basin (arrow)

Photograph 8 : Edlingham mire. Cultivated fields (wheat) extend right up to the mire margins. Survey poles marking the position of borehole transect A-B are shown on the mire surface. Dashed line marks approximate course of abandoned stream meander from Edlington Burn to the right of the photo. Surface water lies permanently on this section of the mire



Photograph 9 : Edlingham mire. Surface vegetation reflects variable pattern of wet and dry areas. Dashed lines indicate course of drainage ditches cut through the mire. Lowered areas at the castle end of the mire are abandoned meander loops from Edlingham Burn (see also photo 8)

Photograph 10 : Survey of Edlingham mire. Kern Autoset Level is placed at point A on borehole transect A-B. Far section of transect is aligned on undisturbed land between drainage trenches marked on photo 9



Photograph 11 : Black Lough, western extremity of basin. Pine plantation and adjacent lowered peat surface can be seen extending from western end of lake. Dashed line marks a drainage ditch following circumference of bog area ("lagg" zone). Dark area on far side of lake consists of heather covered bog surface and hillsides.

Photograph 12 : "Pool and tussock" landscape on lowered section of Black Lough, western end. Tussocks consist of Eriophorum vaginatum (flowering) with spreading Sphagnum spp. in the pools.



Photograph 13 : Feat cutting trench, showing exposed Pinus stumps, western end Black Lough

Photograph 14 : Northern peat surface, Black Lough.
"Regeneration complex" comprises small pools and damp areas favouring mosses, liverworts and sedges, with Eriophorum and to a lesser extent Calluna spp. dominating the drier areas



Photograph 15 : Lowered peat surface, Black Lough. Peat cutting in relatively recent times has exposed Pinus stumps at a consistent level over a wide area (see also photos 13, 16)

Photograph 16 : Exposed Pinus stumps, peat cut area, Black Lough (see also photos 13, 15)



Appendix 1. Preparation Of The Sediments For Pollen Analysis. (ref. page 33)

1. Carbonates (including the Ca CO₃ matrix of the Lycopodium tablets) were removed by the addition of cold 10% HCl.
2. Alkali-soluble organic compounds were evacuated by heating with 10% KOH for 30 to 60 minutes.
3. The sediment was then washed through 180 micron mesh and washed several times with distilled water until the supernatant liquid was quite clear. The sievings were back washed into Petri dishes and examined at x140 to x200 magnification under a binocular dissecting microscope for macroscopic content. Charcoal content was graded on a 0-4 scale indicating a range from absent to very dense.
4. Sediments which contained minerogenic matter were heated in 30% HF for 2-3 hours or until all silicates were removed, and were then heated shortly in 10% HCl to remove any fluorides.
5. After washing, the samples were acetolysed using Erdtman's mixture, washed with glacial acetic acid and then repeatedly washed with distilled water.
6. The samples were dehydrated in tertiary butyl alcohol, stained with 0.1% aqueous solution of safranin and suspended in silicone oil.

LINE	CONCENTRATION	UNIT	ANALYST	DATE	TIME	LAB	INSTR	METHOD	REMARKS
101	1.32	0.00							
102	1.37	0.00							
103	1.40	0.00							
104	1.44	0.00							
105	1.47	0.00							
106	1.50	0.00							
107	1.53	0.00							
108	1.56	0.00							
109	1.59	0.00							
110	1.62	0.00							
111	1.65	0.00							
112	1.68	0.00							
113	1.71	0.00							
114	1.74	0.00							
115	1.77	0.00							
116	1.80	0.00							
117	1.83	0.00							
118	1.86	0.00							
119	1.89	0.00							
120	1.92	0.00							
121	1.95	0.00							
122	1.98	0.00							
123	2.01	0.00							
124	2.04	0.00							
125	2.07	0.00							
126	2.10	0.00							
127	2.13	0.00							
128	2.16	0.00							
129	2.19	0.00							
130	2.22	0.00							
131	2.25	0.00							
132	2.28	0.00							
133	2.31	0.00							
134	2.34	0.00							
135	2.37	0.00							
136	2.40	0.00							
137	2.43	0.00							
138	2.46	0.00							
139	2.49	0.00							
140	2.52	0.00							
141	2.55	0.00							
142	2.58	0.00							
143	2.61	0.00							
144	2.64	0.00							
145	2.67	0.00							
146	2.70	0.00							
147	2.73	0.00							
148	2.76	0.00							
149	2.79	0.00							
150	2.82	0.00							
151	2.85	0.00							
152	2.88	0.00							
153	2.91	0.00							
154	2.94	0.00							
155	2.97	0.00							
156	3.00	0.00							
157	3.03	0.00							
158	3.06	0.00							
159	3.09	0.00							
160	3.12	0.00							
161	3.15	0.00							
162	3.18	0.00							
163	3.21	0.00							
164	3.24	0.00							
165	3.27	0.00							
166	3.30	0.00							
167	3.33	0.00							
168	3.36	0.00							
169	3.39	0.00							
170	3.42	0.00							
171	3.45	0.00							
172	3.48	0.00							
173	3.51	0.00							
174	3.54	0.00							
175	3.57	0.00							
176	3.60	0.00							
177	3.63	0.00							
178	3.66	0.00							
179	3.69	0.00							
180	3.72	0.00							
181	3.75	0.00							
182	3.78	0.00							
183	3.81	0.00							
184	3.84	0.00							
185	3.87	0.00							
186	3.90	0.00							
187	3.93	0.00							
188	3.96	0.00							
189	3.99	0.00							
190	4.02	0.00							
191	4.05	0.00							
192	4.08	0.00							
193	4.11	0.00							
194	4.14	0.00							
195	4.17	0.00							
196	4.20	0.00							
197	4.23	0.00							
198	4.26	0.00							
199	4.29	0.00							
200	4.32	0.00							

61	-193.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
62	-197.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
63	-202.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
64	-206.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.
65	-210.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
66	-214.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
67	-218.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
68	-225.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
69	-230.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70	-236.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71	-242.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
72	-246.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
73	-249.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
74	-252.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
75	-254.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
76	-256.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
77	-258.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
78	-260.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
79	-262.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80	-264.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	0.	0.	0.	0.	0.	0.	0.	0.
81	-266.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
82	-268.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.
83	-270.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
84	-272.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
85	-275.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
86	-278.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
87	-282.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
88	-286.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
89	-290.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
90	-294.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
91	-299.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
92		SENECIO TYPE				HELIANTHEMUM				POTENTILLA TYPE				RUMEX					
93		MATRICARIA TYPE				CARYOPHYLLACEAE				SAXIFRAGACEAE				CANNABIS					
94		RANUNCULUS TYPE				CHENOPODIACEAE				UMBELLIFERAE				URTICA					
95		CALTHA				ROSACEAE				MERCURIALIS				GENTIANA					
96		THALICTRUM				FILIPENDULA				POLYGONUM				SCROPHULARIACEAE					
97	1																		
98	0BLACK LOUGH 12(A)																		
99	0DEPTH																		
100	-152.	0.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	12.	1.	2.	35.
101	-157.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	0.	12.	13.
102	-162.	0.	0.	0.	3.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	31.	2.	16.	4.
103	-166.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.	1.	6.	4.
104	-170.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.	10.	4.
105	-175.	0.	5.	0.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	4.	16.
106	-179.	0.	2.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	9.	12.
107	-184.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	24.	0.	5.	7.
108	-188.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.	0.	5.	86.
109	-193.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	0.	6.	9.
110	-197.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	2.	5.	26.
111	-202.	0.	2.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	33.
112	-206.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	6.	5.
113	-210.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	5.	17.	41.
114	-214.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	4.	6.	14.
115	-218.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	5.	8.	10.
116	-225.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	5.	0.	1.	30.
117	-230.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	9.
118	-236.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	10.
119	-242.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	3.	1.	175.
120	-246.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.	5.	34.

121	-249.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	2.	167.
122	-252.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	3.	3.	273.
123	-254.	0.	1.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	3.	10.	56.
124	-256.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	3.	5.	24.
125	-258.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	8.
126	-260.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	3.	7.	63.
127	-262.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	5.	20.	100.
128	-264.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	35.
129	-266.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	5.	26.	42.
130	-268.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.	1.	1.	16.
131	-270.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	8.
132	-272.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.	0.	49.
133	-275.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	3.	0.	0.	10.
134	-278.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	5.	5.	34.
135	-282.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	1.	5.	12.
136	-286.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	4.	13.	2.
137	-290.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.	3.	3.	5.
138	-294.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	7.	32.
139	-299.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.	2.	27.	22.
140		CONVOLVULUS					CAMPANULA					POTAMOGETON					EQUISETUM				
141		PLANTAGO LANC.					RUBIACEAE					LEMNA					PTERIDIUM				
142		PLANTAGO MAJ.MED.					NYMPHAEA					TYPHA ANGUST.					POLYPODIUM				
143		PLANTAGO CORONOPUS					MYRIOPHYLLUM SPIC.					LYCOPIDIUM					FILICALES				
144		PLANTAGO MARITIMA					MYRIOPHYLLUM ALT.					ISOETES					SPHAGNUM				

145	IPOLLEN TOTALS AND SUMMARY TABLE													
146	0	DEPTH	TREES	SHRUBS	HERBS	AQUATS	SPORES	TOTAL	EXOTIC	TREES%	SHRUB%	HERBS%	AQUAT%	SPORE%
147	-152.0	68.0	129.0	15.0	0.0	50.0	212.0	400.0	32.1	60.8	7.1	0.0	0.0	23.6
148	-157.0	175.0	325.0	40.0	0.0	29.0	540.0	200.0	32.4	60.2	7.4	0.0	0.0	5.4
149	-162.0	135.0	227.0	19.0	0.0	53.0	381.0	300.0	35.4	59.5	5.0	0.0	0.0	13.9
150	-165.0	157.0	235.0	10.0	0.0	13.0	402.0	400.0	39.1	53.5	2.5	0.0	0.0	4.5
151	-170.0	129.0	250.0	29.0	0.0	24.0	408.0	300.0	31.6	61.3	7.1	0.0	0.0	5.9
152	-175.0	117.0	102.0	56.0	0.0	21.0	275.0	400.0	42.5	37.1	20.4	0.0	0.0	7.6
153	-179.0	144.0	204.0	57.0	0.0	29.0	405.0	300.0	35.6	50.4	14.1	0.0	0.0	7.2
154	-184.0	148.0	126.0	11.0	0.0	34.0	285.0	400.0	51.9	44.2	3.9	0.0	0.0	11.9
155	-188.0	146.0	103.0	1.0	0.0	105.0	250.0	350.0	58.4	41.2	0.4	0.0	0.0	42.0
156	-193.0	104.0	103.0	9.0	0.0	22.0	216.0	400.0	48.1	47.7	4.2	0.0	0.0	10.2
157	-197.0	131.0	135.0	2.0	0.0	38.0	258.0	400.0	48.9	50.4	0.7	0.0	0.0	14.2
158	-202.0	85.0	144.0	28.0	0.0	36.0	257.0	400.0	33.1	56.0	10.9	0.0	0.0	14.0
159	-206.0	93.0	112.0	7.0	0.0	15.0	212.0	400.0	43.9	52.8	3.3	0.0	0.0	7.1
160	-210.0	203.0	396.0	13.0	0.0	69.0	606.0	400.0	33.5	64.4	2.1	0.0	0.0	11.4
161	-214.0	187.0	235.0	7.0	0.0	25.0	429.0	200.0	43.6	54.8	1.0	0.0	0.0	5.8
162	-218.0	135.0	204.0	2.0	0.0	26.0	341.0	400.0	39.6	59.8	0.6	0.0	0.0	7.6
163	-225.0	139.0	181.0	25.6	0.0	46.0	395.0	300.0	47.8	45.8	6.3	0.0	0.0	11.5
164	-230.0	151.0	125.0	8.0	0.0	10.0	284.0	300.0	53.2	44.0	2.3	0.0	0.0	3.6
165	-236.0	34.0	29.0	2.0	0.0	12.0	65.0	400.0	52.3	44.6	3.1	0.0	0.0	13.5
166	-242.0	129.0	132.0	6.0	0.0	18.0	267.0	400.0	43.3	49.4	2.2	0.0	0.0	67.4
167	-246.0	126.0	129.0	7.0	0.0	43.0	256.0	400.0	46.9	50.4	2.7	0.0	0.0	16.8
168	-249.0	229.0	211.0	28.0	0.0	170.0	458.0	300.0	48.9	45.1	6.0	0.0	0.0	36.3
169	-252.0	155.0	134.0	21.0	0.0	283.0	310.0	200.0	50.0	43.2	6.8	0.0	0.0	91.3
170	-254.0	187.0	258.0	11.0	0.0	74.0	456.0	300.0	41.0	56.6	2.4	0.0	0.0	16.2
171	-256.0	195.0	251.0	2.0	0.0	33.0	448.0	300.0	43.5	56.0	0.4	0.0	0.0	7.4
172	-258.0	125.0	146.0	7.0	0.0	24.0	278.0	400.0	45.0	52.5	2.5	0.0	0.0	8.6
173	-260.0	172.0	253.0	4.0	0.0	75.0	429.0	300.0	40.1	59.0	0.9	0.0	0.0	17.5
174	-262.0	215.0	206.0	15.0	0.0	130.0	436.0	100.0	49.3	47.2	3.4	0.0	0.0	29.8
175	-264.0	205.0	119.0	13.0	0.0	39.0	337.0	200.0	60.8	35.3	3.9	0.0	0.0	11.6
176	-266.0	221.0	328.0	15.0	0.0	76.0	564.0	400.0	39.2	58.2	2.7	0.0	0.0	13.5
177	-268.0	106.0	99.0	2.0	0.0	20.0	206.0	400.0	51.5	47.6	1.0	0.0	0.0	9.7
178	-270.0	93.0	78.0	11.0	0.0	10.0	182.0	300.0	51.1	42.9	6.0	0.0	0.0	5.5
179	-272.0	190.0	160.0	1.0	0.0	55.0	351.0	300.0	54.1	45.6	0.3	0.0	0.0	15.7
180	-275.0	98.0	41.0	16.0	0.0	13.0	155.0	400.0	63.2	26.5	10.3	0.0	0.0	8.4

181	-278.0	139.0	107.0	14.0	0.0	47.0	260.0	400.0	53.5	41.2	5.4	0.0	18.1
182	-282.0	256.0	191.0	13.0	0.0	20.0	460.0	200.0	55.7	41.5	2.8	0.0	4.3
183	-286.0	191.0	105.0	9.0	0.0	21.0	305.0	400.0	62.6	34.4	3.0	0.0	6.9
184	-290.0	191.0	169.0	5.0	0.0	20.0	355.0	300.0	52.3	46.3	1.4	0.0	5.5
185	-294.0	175.0	123.0	7.0	0.0	31.0	305.0	200.0	57.4	40.3	2.3	0.0	10.2
186	-299.0	257.0	379.0	11.0	0.0	56.0	647.0	200.0	39.7	58.6	1.7	0.0	8.7

1																	
OBLACK LOUGH 12(A)																	
POLLEN CONCENTRATION																	
DEPTH	BETULA			PINUS			POPULUS			ULMUS			QUERCUS				
187	-152.	7.2	8.9	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	2.9		
188	-157.	27.1	32.0	36.9	0.0	0.6	1.2	0.0	0.0	0.0	0.7	1.3	2.8	13.8	17.2	20.6	
189	-162.	21.8	25.3	28.8	0.2	0.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	7.8	9.9	11.9	
190	-165.	7.7	9.5	11.2	0.0	0.3	0.6	0.0	0.0	0.0	0.6	1.2	1.8	8.0	9.8	11.5	
191	-170.	13.9	16.6	19.3	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.4	0.8	4.4	5.9	7.5	
192	-175.	6.4	8.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.4	4.0	5.3	6.6	
193	-179.	18.2	21.3	24.5	0.2	0.8	1.4	0.0	0.0	0.0	0.0	0.4	0.8	6.8	8.7	10.6	
194	-184.	13.7	16.0	18.3	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.4	0.6	6.1	7.7	9.3	
195	-188.	15.0	17.6	20.2	0.9	1.7	2.5	0.0	0.0	0.0	0.2	0.7	1.2	3.8	10.8	12.8	
196	-193.	8.3	10.1	11.9	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.3	0.6	3.4	6.8	8.3	
197	-197.	10.4	12.4	14.5	0.6	1.2	1.8	0.0	0.0	0.0	0.2	0.5	1.0	6.7	8.3	9.9	
198	-202.	7.7	9.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	3.8	5.0	6.7	
199	-206.	8.5	10.4	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	4.0	5.3	6.6	
200	-210.	9.3	11.3	13.2	1.3	2.1	2.9	0.0	0.0	0.0	1.0	1.8	2.5	12.3	14.5	16.7	
201	-214.	32.5	37.9	43.4	2.6	4.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	15.9	19.6	23.2	
202	-218.	11.5	13.6	15.3	0.0	0.3	0.6	0.0	0.0	0.0	0.2	0.5	1.0	4.3	5.6	7.0	
203	-225.	20.0	23.3	26.6	0.8	1.6	2.4	0.0	0.0	0.0	0.0	0.8	1.5	2.4	14.6	17.4	20.2
204	-230.	10.3	12.6	15.0	0.0	0.4	0.8	0.0	0.0	0.0	0.2	0.3	1.4	3.5	10.7	12.8	
205	-236.	2.3	3.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.8	2.5	
206	-242.	5.1	6.5	7.9	0.0	0.3	0.6	0.0	0.0	0.0	0.4	0.9	1.4	5.9	7.4	8.9	
207	-246.	5.6	7.1	8.6	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	6.2	7.6	
208	-249.	11.0	13.4	15.9	1.7	2.8	3.8	0.0	0.0	0.0	0.2	0.3	1.4	15.7	19.8	22.8	
209	-252.	22.3	26.7	31.1	1.2	2.4	3.6	0.0	0.0	0.0	0.0	0.5	1.2	7.5	10.1	12.6	
210	-254.	8.2	10.3	12.4	1.1	2.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	8.9	11.1	13.2	
211	-256.	12.1	14.6	17.2	0.5	1.2	1.9	0.0	0.0	0.0	0.5	1.2	1.9	11.4	13.8	16.3	
212	-258.	2.0	3.0	3.9	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	10.4	12.4	14.5	
213	-260.	12.1	14.6	17.2	0.8	1.6	2.4	0.0	0.0	0.0	0.2	0.3	1.4	11.7	14.2	16.7	
214	-262.	49.0	59.3	69.5	2.3	4.7	7.2	0.0	0.0	0.0	7.9	11.3	15.8	49.0	59.3	69.5	
215	-264.	15.9	19.6	23.2	0.0	0.0	0.0	0.0	0.0	0.0	7.5	10.1	12.6	41.7	49.0	54.3	
216	-266.	6.9	8.5	10.2	0.8	1.5	2.1	0.0	0.0	0.0	1.3	2.1	2.9	32.7	25.3	23.8	
217	-268.	4.8	6.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0	2.8	3.9	4.9	7.5	9.2	10.9	
218	-270.	6.8	8.7	10.6	1.1	2.0	2.9	0.0	0.0	0.0	3.0	4.3	5.7	9.2	11.5	13.7	
219	-272.	17.1	20.1	23.2	1.7	2.8	3.8	0.0	0.0	0.0	3.7	5.1	6.6	21.4	24.9	28.3	
220	-275.	4.8	6.2	7.6	0.2	0.5	1.0	0.0	0.0	0.0	1.0	1.3	2.5	7.7	9.5	11.2	
221	-278.	9.3	11.3	13.2	0.0	0.3	0.6	0.0	0.0	0.0	2.8	3.9	4.9	9.3	10.1	11.9	
222	-282.	16.9	20.7	24.5	5.0	7.1	9.2	0.0	0.0	0.0	15.3	19.0	22.6	45.5	52.1	58.8	
223	-286.	10.4	12.4	14.5	0.8	1.5	2.1	0.0	0.0	0.0	4.8	6.2	7.6	9.1	11.0	12.8	
224	-290.	11.7	14.2	16.7	0.0	0.4	0.8	0.0	0.0	0.0	2.7	3.9	5.2	6.8	8.7	10.6	
225	-294.	10.1	13.0	16.0	0.3	1.2	2.0	0.0	0.0	0.0	9.1	11.3	14.6	24.9	29.6	34.1	
226	-299.	28.2	33.2	38.2	1.6	3.0	4.3	0.0	0.0	0.0	8.5	11.3	14.0	29.2	34.4	39.5	
DEPTH	BETULA			PINUS			POPULUS			ULMUS			QUERCUS				
OBLACK LOUGH 12(A)																	
POLLEN CONCENTRATION																	
DEPTH	TILIA			FRAXINUS			ALNUS			CORYLID			JUNIPER				
231	-152.	0.0	0.0	0.0	0.0	0.0	0.0	7.5	9.2	10.9	15.0	17.5	19.9	0.0	0.0	0.0	
232	-157.	0.0	0.0	0.0	0.7	1.3	2.8	43.8	50.4	56.9	102.8	114.4	125.9	0.0	0.0	0.0	
233	-162.	0.0	0.0	0.0	0.0	0.0	0.0	14.5	17.4	20.2	33.1	37.5	42.0	0.0	0.0	0.0	
234	-166.	0.0	0.0	0.0	0.2	0.5	1.0	22.2	25.2	29.2	34.1	37.9	41.8	0.0	0.0	0.0	
235	-170.	0.0	0.0	0.0	0.0	0.0	0.0	24.0	27.6	31.3	29.1	33.2	37.3	0.0	0.0	0.0	
236	-175.	0.0	0.0	0.0	0.0	0.0	0.0	17.8	20.4	23.1	13.4	15.7	18.0	0.0	0.0	0.0	
237	-179.	0.0	0.0	0.0	0.0	0.0	0.0	22.2	25.7	29.2	40.4	45.4	50.4	0.0	0.0	0.0	
238	-184.	0.0	0.0	0.0	0.0	0.0	0.0	17.0	19.6	22.2	19.1	21.9	24.7	0.0	0.0	0.0	

241	-158.	0.0	0.3	0.7	0.0	0.0	0.0	15.6	18.3	21.0	22.2	25.4	28.6	0.0	0.0	0.0
242	-193.	0.0	0.0	0.0	0.0	0.0	0.0	11.2	13.3	15.4	20.8	23.7	26.6	0.0	0.0	0.0
243	-197.	0.0	0.0	0.0	0.0	0.0	0.0	13.9	16.3	18.5	23.5	25.7	29.8	0.0	0.0	0.0
244	-202.	0.0	0.0	0.0	0.0	0.3	0.6	8.3	10.1	11.9	14.8	17.2	19.6	0.0	0.3	0.6
245	-205.	0.0	0.0	0.0	0.2	0.5	1.0	9.1	11.0	12.8	16.7	19.3	21.8	0.0	0.0	0.0
246	-210.	0.2	0.6	1.0	0.0	0.0	0.0	26.6	29.9	33.3	62.2	67.9	73.5	0.0	0.0	0.0
247	-214.	0.0	0.0	0.0	0.0	0.0	0.0	42.7	49.2	55.6	53.1	60.4	67.8	0.0	0.0	0.0
248	-218.	0.2	0.6	1.0	0.0	0.0	0.0	16.7	19.3	21.8	33.2	37.0	40.8	0.0	0.0	0.0
249	-225.	0.0	0.4	0.3	0.0	0.0	0.0	26.5	30.4	34.3	25.3	32.4	36.4	0.0	0.0	0.0
250	-230.	0.0	0.0	0.0	0.0	0.0	0.0	30.9	35.2	39.4	32.7	37.1	41.5	0.0	0.0	0.0
251	-236.	0.0	0.0	0.0	0.0	0.0	0.0	3.8	5.0	6.3	4.0	5.3	6.6	0.0	0.0	0.0
252	-242.	0.0	0.0	0.0	0.0	0.0	0.0	20.2	23.1	26.0	23.3	26.4	29.5	0.0	0.0	0.0
253	-245.	0.0	0.0	0.0	0.0	0.0	0.0	18.9	21.6	24.4	22.4	25.5	28.5	0.0	0.0	0.0
254	-249.	0.0	0.0	0.0	0.0	0.0	0.0	48.2	53.7	59.3	45.9	51.3	56.8	0.0	0.0	0.0
255	-252.	0.0	0.5	1.2	0.0	0.0	0.0	44.9	51.5	58.2	49.5	56.0	64.0	0.0	0.0	0.0
256	-254.	0.0	0.4	0.8	0.0	0.0	0.0	44.8	50.2	55.5	59.5	66.0	72.4	0.0	0.0	0.0
257	-255.	0.2	0.3	1.4	0.0	0.0	0.0	40.4	45.4	50.4	38.2	43.1	47.9	0.0	0.0	0.0
258	-258.	0.0	0.0	0.0	0.0	0.0	0.0	15.5	21.5	24.1	20.5	23.4	26.3	0.0	0.0	0.0
259	-260.	0.0	0.0	0.0	0.0	0.0	0.0	32.4	36.7	41.1	41.9	47.0	52.1	0.0	0.0	0.0
260	-262.	0.0	0.0	0.0	0.0	0.0	0.0	102.8	119.7	135.6	102.2	116.0	129.9	0.0	0.0	0.0
261	-264.	0.0	0.5	1.2	0.0	0.0	0.0	37.3	43.3	49.2	44.9	51.5	58.2	0.0	0.0	0.0
262	-265.	0.2	0.6	1.0	0.0	0.0	0.0	23.3	27.0	30.1	44.9	49.3	54.0	0.0	0.0	0.0
263	-268.	0.0	0.0	0.0	0.0	0.0	0.0	10.2	12.1	14.1	13.4	15.7	18.0	0.0	0.0	0.0
264	-270.	0.0	0.0	0.0	0.0	0.0	0.0	3.2	10.3	12.4	19.3	22.5	25.4	0.0	0.0	0.0
265	-272.	0.2	0.8	1.4	0.0	0.4	0.8	17.8	20.9	24.1	35.3	39.9	44.5	0.0	0.0	0.0
266	-275.	0.0	0.0	0.0	0.0	0.0	0.0	9.1	11.0	12.8	7.2	8.9	10.6	0.0	0.0	0.0
267	-278.	0.0	0.0	0.0	0.0	0.0	0.0	13.4	15.7	18.0	21.3	24.3	27.2	0.0	0.0	0.0
268	-282.	0.0	0.5	1.2	0.0	0.5	1.2	44.9	51.5	58.2	50.1	58.1	75.1	0.0	0.0	0.0
269	-286.	0.0	0.0	0.0	0.0	0.3	0.6	22.2	25.2	28.2	21.1	24.0	26.9	0.0	0.0	0.0
270	-290.	0.0	0.0	0.0	0.0	0.0	0.0	43.0	48.2	53.4	34.9	39.5	44.1	0.0	0.0	0.0
271	-294.	0.0	0.0	0.0	0.0	0.0	0.0	41.7	48.0	54.3	52.0	59.3	66.5	0.0	0.0	0.0
272	-299.	0.0	0.5	1.2	0.0	0.0	0.0	61.8	69.9	78.0	69.5	110.3	122.1	0.0	0.0	0.0
273		TILIA			FRAXINUS			ALNUS			CORYLIO			JUNIPER		
274	OHLACK LOUGH 12(A)	POLLEN CONCENTRATION														
275	ODEPTH	SALIX			HEDERA			VIBURNUM			HYPERICUM			EMPETRUM		
276	-152.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
277	-157.	0.0	0.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	6.5	8.5
278	-162.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
279	-165.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	2.9
280	-170.	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.4	3.3
281	-175.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
282	-179.	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
283	-184.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.0
284	-188.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.0
285	-193.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
286	-197.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
287	-202.	0.2	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
288	-205.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
289	-210.	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
290	-214.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291	-218.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8
292	-225.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.4	3.3
293	-230.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8
294	-236.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
295	-242.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296	-246.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
297	-249.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8
298	-252.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299	-254.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300	-256.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.4

301	-258.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
302	-260.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2									
303	-262.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
304	-264.	0.3	1.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
305	-266.	0.4	0.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
306	-268.	0.2	0.6	1.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
307	-270.	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
308	-272.	0.2	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8									
309	-275.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
310	-278.	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
311	-282.	0.0	0.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	0.0	0.0									
312	-286.	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
313	-290.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
314	-294.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
315	-299.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
316		SALIX				HEDERA				VIRBURNUM				HYPERICUM				EMPETRUM							
317		OBLACK LOUGH 12(A)				POLLEN CONCENTRATION																			
318		ODEPTH				ERICACEAE				GRAMINEAE				CFREALIA				CYPERACEAE				ARTEMISIA			
319	-152.	18.0	20.7	23.4	1.3	2.1	2.9	0.0	0.0	0.0	0.0	0.0	1.5	2.1	0.0	0.0									
320	-157.	62.9	71.1	77.3	13.2	16.6	19.9	0.0	0.0	0.0	0.0	0.0	3.5	5.0	0.0	0.0									
321	-162.	46.7	52.1	57.6	3.3	4.7	6.1	0.0	0.0	0.0	0.0	0.0	1.5	2.4	0.0	0.0									
322	-166.	26.3	29.6	32.9	1.0	1.8	2.5	0.0	0.0	0.0	0.0	0.0	1.2	1.8	0.0	0.0									
323	-170.	56.6	62.8	69.0	5.7	7.5	9.3	0.0	0.0	0.0	0.0	0.0	1.2	1.9	0.0	0.0									
324	-175.	12.3	14.5	16.7	4.0	5.3	6.6	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.0	0.0									
325	-179.	30.5	34.3	39.0	3.9	11.1	13.2	0.0	0.0	0.0	0.0	0.0	0.5	8.4	0.0	0.0									
326	-184.	12.6	14.8	17.0	1.8	2.7	3.6	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0									
327	-188.	7.3	9.1	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.0									
328	-193.	5.1	6.5	7.7	1.0	1.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
329	-197.	11.2	13.3	15.4	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
330	-202.	21.6	24.6	27.6	2.3	3.3	4.3	0.0	0.0	0.0	0.0	0.0	2.8	4.9	0.0	0.0									
331	-206.	11.8	13.9	16.1	0.8	1.5	2.1	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0									
332	-210.	42.7	47.1	51.5	1.5	2.4	3.2	0.0	0.0	0.0	0.0	0.0	0.6	1.0	0.0	0.0									
333	-214.	70.0	78.8	87.6	1.2	2.4	3.6	0.0	0.0	0.0	0.0	0.0	1.2	2.0	0.0	0.0									
334	-218.	19.4	22.2	25.0	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
335	-225.	32.4	36.7	41.1	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	7.5	9.5	11.5	0.0									
336	-230.	9.6	11.8	14.1	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	1.1	2.0	2.9	0.0									
337	-236.	2.3	3.3	4.3	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
338	-242.	10.7	12.7	14.8	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	1.2	1.8	0.0	0.0									
339	-246.	10.7	12.7	14.8	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.6	1.5	2.1	0.0									
340	-249.	27.6	31.6	35.6	6.4	8.3	10.2	0.0	0.0	0.0	0.0	0.0	1.4	3.3	0.0	0.0									
341	-252.	18.5	22.5	26.5	4.5	6.5	9.5	0.0	0.0	0.0	0.0	0.0	2.1	3.6	5.0	0.0									
342	-254.	31.6	35.9	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.6	4.8	0.0									
343	-256.	49.6	55.3	61.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
344	-258.	17.2	19.8	22.5	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	2.1	0.0									
345	-260.	46.3	51.7	57.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.4	0.0									
346	-262.	47.9	58.1	68.2	0.0	1.2	2.4	0.0	0.0	0.0	0.0	0.0	11.9	16.6	21.3	0.0									
347	-264.	14.3	17.8	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
348	-266.	42.4	46.8	51.2	2.0	3.0	3.9	0.0	0.0	0.0	0.0	0.0	0.9	1.5	2.1	0.0									
349	-268.	10.4	12.4	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0									
350	-270.	6.1	7.9	9.7	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	3.7	3.9	5.2	0.0									
351	-272.	18.9	22.1	25.3	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
352	-275.	2.3	3.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.7	5.9	0.0									
353	-278.	5.6	7.1	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.1	5.3	0.0									
354	-282.	37.9	43.8	49.5	2.6	4.1	5.7	0.0	0.0	0.0	0.0	0.0	2.1	3.6	5.0	0.0									
355	-286.	5.4	6.9	8.3	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	1.3	2.1	2.9	0.0									
356	-290.	23.6	27.3	30.9	0.2	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.5	1.2	1.9	0.0									
357	-294.	10.6	13.6	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.1	5.7	0.0									
358	-299.	102.2	113.8	125.3	1.2	2.4	3.6	0.0	0.0	0.0	0.0	0.0	2.6	4.1	5.7	0.0									
359		ERICACEAE				GRAMINEAE				CEREALIA				CYPERACEAE				ARTEMISIA							
360		OBLACK LOUGH 12(A)				POLLEN CONCENTRATION																			

DEPTH	SENECIO TYPE	MATRICARIA TYPE	RANUNCULUS TYPE	CALTHA	THALICTRUM
361	0.0	0.0	0.0	0.0	0.0
362	0.0	0.0	0.0	0.0	0.0
363	0.0	0.0	0.0	0.0	0.0
364	0.0	0.0	0.0	0.0	0.0
365	0.0	0.0	0.0	0.0	0.0
366	0.0	0.0	0.0	0.0	0.0
367	0.0	0.0	0.0	0.0	0.0
368	0.0	0.0	0.0	0.0	0.0
369	0.0	0.0	0.0	0.0	0.0
370	0.0	0.0	0.0	0.0	0.0
371	0.0	0.0	0.0	0.0	0.0
372	0.0	0.0	0.0	0.0	0.0
373	0.0	0.0	0.0	0.0	0.0
374	0.0	0.0	0.0	0.0	0.0
375	0.0	0.0	0.0	0.0	0.0
376	0.0	0.0	0.0	0.0	0.0
377	0.0	0.0	0.0	0.0	0.0
378	0.0	0.0	0.0	0.0	0.0
379	0.0	0.0	0.0	0.0	0.0
380	0.0	0.0	0.0	0.0	0.0
381	0.0	0.0	0.0	0.0	0.0
382	0.0	0.0	0.0	0.0	0.0
383	0.0	0.0	0.0	0.0	0.0
384	0.0	0.0	0.0	0.0	0.0
385	0.0	0.0	0.0	0.0	0.0
386	0.0	0.0	0.0	0.0	0.0
387	0.0	0.0	0.0	0.0	0.0
388	0.0	0.0	0.0	0.0	0.0
389	0.0	0.0	0.0	0.0	0.0
390	0.0	0.0	0.0	0.0	0.0
391	0.0	0.0	0.0	0.0	0.0
392	0.0	0.0	0.0	0.0	0.0
393	0.0	0.0	0.0	0.0	0.0
394	0.0	0.0	0.0	0.0	0.0
395	0.0	0.0	0.0	0.0	0.0
396	0.0	0.0	0.0	0.0	0.0
397	0.0	0.0	0.0	0.0	0.0
398	0.0	0.0	0.0	0.0	0.0
399	0.0	0.0	0.0	0.0	0.0
400	0.0	0.0	0.0	0.0	0.0
401	0.0	0.0	0.0	0.0	0.0
402	0.0	0.0	0.0	0.0	0.0
403	0.0	0.0	0.0	0.0	0.0
404	0.0	0.0	0.0	0.0	0.0
405	0.0	0.0	0.0	0.0	0.0
406	0.0	0.0	0.0	0.0	0.0
407	0.0	0.0	0.0	0.0	0.0
408	0.0	0.0	0.0	0.0	0.0
409	0.0	0.0	0.0	0.0	0.0
410	0.0	0.0	0.0	0.0	0.0
411	0.0	0.0	0.0	0.0	0.0
412	0.0	0.0	0.0	0.0	0.0
413	0.0	0.0	0.0	0.0	0.0
414	0.0	0.0	0.0	0.0	0.0
415	0.0	0.0	0.0	0.0	0.0
416	0.0	0.0	0.0	0.0	0.0
417	0.0	0.0	0.0	0.0	0.0
418	0.0	0.0	0.0	0.0	0.0
419	0.0	0.0	0.0	0.0	0.0
420	0.0	0.0	0.0	0.0	0.0

OBBLACK LOUGH HELIANthemum POLLEN CONCENTRATION MATRICARIA TYPE RANUNCULUS TYPE CALTHA FILIPENDULA

DEPTH	POTENTILLA	TYPE	SAXIFRAGACEAE	UMBELLIFERAE	MERCURIALIS	POLYGONUM	RUMEX	CANNABIS	URTICA	GENTIANA	SCROPHULARIACEAE	
44	-1275.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-1273.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-1282.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-1285.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-1290.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-1294.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-1299.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	OBLACK LOUGH 12(A) POLLEN CONCENTRATION											
44	ODEPTH RUMEX CANNABIS URTICA GENTIANA SCROPHULARIACEAE											
44	-152.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-157.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-162.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-166.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-170.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-175.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-179.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-183.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-188.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-193.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-197.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-202.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-206.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-210.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-214.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-218.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-222.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-226.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-230.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-234.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-238.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-242.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-246.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-249.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-252.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-254.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-256.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-258.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-260.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-262.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-264.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-266.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-268.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-270.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-272.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-275.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-273.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-282.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-285.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-290.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-294.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-299.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	OBLACK LOUGH 12(A) POLLEN CONCENTRATION											
44	ODEPTH CONVULVULUS PLANTAGO LANC. PLANTAGO MAJ.MED. PLANTAGO CDONJUS PLANTAGO MARITIMA											
44	-152.	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0	
44	-157.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-162.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	1.9	
44	-166.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-170.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44	-175.	0.0	0.0	0.0	0.8	1.5	2.1	0.0	0.0	0.3	0.6	
44	-179.	0.0	0.0	0.0	0.2	0.8	1.4	0.0	0.0	0.4	0.8	

661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703	OBLACK LOUGH 12(A)			POLLEN CONCENTRATION			POLYPODIUM			FILICALES			SPHAGNUM		
	ODEPTH	EQUISETUM		PTERIDIUM											
-152.0	0.0	0.0	0.0	2.5	3.6	4.6	0.0	0.3	0.6	0.2	0.5	1.0	3.5	10.4	12.2
-157.0	0.0	0.0	0.0	1.2	2.4	3.6	0.0	0.0	0.0	5.0	7.1	9.2	5.5	7.7	9.9
-162.0	0.0	0.0	0.0	9.9	12.2	14.6	0.2	0.8	1.4	4.7	6.3	7.9	0.8	1.6	2.4
-166.0	0.0	0.0	0.0	1.3	2.1	2.9	0.0	0.3	0.6	1.0	1.8	2.5	0.6	1.2	1.8
-170.0	0.0	0.0	0.0	2.7	3.9	5.2	0.0	0.0	0.0	2.7	3.9	5.2	0.8	1.6	2.4
-175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.6	1.2	1.8	3.5	4.7	5.9
-179.0	0.0	0.0	0.0	2.0	3.2	4.3	0.0	0.0	0.0	2.4	3.5	4.8	3.3	4.7	6.1
-184.0	0.0	0.0	0.0	5.6	7.1	8.6	0.0	0.0	0.0	0.4	0.9	1.4	1.3	2.1	2.9
-188.0	0.0	0.0	0.0	3.4	4.7	6.0	0.0	0.0	0.0	0.9	1.7	2.5	25.6	29.1	32.6
-193.0	0.0	0.0	0.0	1.3	2.7	3.6	0.0	0.0	0.0	0.6	1.2	1.8	1.8	2.7	3.5
-197.0	0.0	0.0	0.0	0.8	1.5	2.1	0.2	0.6	1.0	0.8	1.5	2.1	6.1	7.7	9.3
-202.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.4	8.0	9.8	11.5
-205.0	0.0	0.0	0.0	0.2	0.6	1.0	0.2	0.6	1.0	1.0	1.8	2.5	0.8	1.5	2.1
-210.0	0.0	0.0	0.0	1.0	1.8	2.5	0.8	1.5	2.1	3.8	5.0	6.3	10.2	12.1	14.1
-214.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2	2.4	3.6	2.1	3.5	5.0	6.0	8.3	10.6
-218.0	0.0	0.0	0.0	0.4	0.9	1.4	0.8	1.5	2.1	1.5	2.4	3.2	2.0	3.0	3.9
-225.0	0.0	0.0	0.0	1.1	2.0	2.9	2.4	3.6	4.8	0.0	0.4	0.8	9.6	11.8	14.1
-230.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	2.4	3.6	4.8
-236.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	1.0	2.0	3.0	3.9
-242.0	0.0	0.0	0.0	0.0	0.3	0.6	0.4	0.9	1.4	0.0	0.3	0.6	47.1	51.8	56.6
-246.0	0.0	0.0	0.0	0.2	0.6	1.0	0.2	0.6	1.0	0.8	1.5	2.1	8.3	10.1	11.9
-249.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.2	0.8	1.4	59.6	66.0	72.4
-252.0	0.0	0.0	0.0	1.2	2.4	3.6	0.7	1.8	2.8	0.7	1.8	2.8	146.6	161.8	176.9
-254.0	0.0	0.0	0.0	1.1	2.0	2.9	0.5	1.2	1.9	2.7	3.9	5.2	18.9	22.1	25.3
-256.0	0.0	0.0	0.0	0.0	0.4	0.8	0.5	1.2	1.9	1.1	2.0	2.9	7.5	9.5	11.5
-258.0	0.0	0.0	0.0	0.0	0.3	0.6	1.0	1.8	2.5	1.8	2.7	3.6	1.5	2.4	3.2
-260.0	0.0	0.0	0.0	0.2	0.8	1.4	0.5	1.2	1.9	1.7	2.8	3.8	21.4	24.9	28.3
-262.0	0.0	0.0	0.0	3.2	5.9	8.6	3.2	5.9	8.6	17.0	23.7	29.5	101.7	118.5	135.3
-264.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	3.6	16.9	20.7	24.5
-266.0	0.0	0.0	0.0	0.4	0.9	1.4	0.3	1.5	2.1	6.1	7.7	9.3	10.4	12.4	14.5
-268.0	0.0	0.0	0.0	0.2	0.6	1.0	0.0	0.3	0.6	0.0	0.3	0.6	3.5	4.7	5.9
-270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.4	2.0	3.2	4.3
-272.0	0.0	0.0	0.0	0.2	0.8	1.4	0.2	0.8	1.4	0.2	0.8	1.4	16.4	19.4	22.3
-275.0	0.0	0.0	0.0	0.2	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	3.9
-278.0	0.0	0.0	0.0	0.8	1.5	2.1	0.2	0.8	1.4	1.0	1.8	2.5	8.3	10.1	11.9
-282.0	0.0	0.0	0.0	0.3	1.2	2.0	0.0	0.6	1.2	1.6	3.0	4.3	5.0	7.1	9.2
-286.0	0.0	0.0	0.0	0.2	0.6	1.0	0.6	1.2	1.8	2.5	3.9	4.9	0.2	0.6	1.0
-290.0	0.0	0.0	0.0	0.8	1.6	2.4	0.5	1.2	1.9	2.0	3.2	4.3	1.1	2.0	2.9
-294.0	0.0	0.0	0.0	0.0	0.6	1.2	0.0	0.6	1.2	2.6	4.1	5.7	10.1	13.0	16.0
-299.0	0.0	0.0	0.0	1.5	3.0	4.3	0.3	1.2	2.0	12.7	16.0	19.3	10.1	13.0	16.0

704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720	OBLACK LOUGH 12(A)			TOTAL CONCENTRATION (GRAINS X 1000 PER CC)		
ODEPTH	EQUISETUM	PTERIDIUM	POLYPODIUM	FILICALES	SPHAGNUM	
-152.0	51.9	62.8	73.7			
-157.0	255.9	319.9	374.0			
-162.0	126.7	150.5	174.3			
-166.0	101.8	119.1	136.4			
-170.0	136.0	161.2	185.3			
-175.0	63.4	81.5	94.6			
-179.0	135.0	160.0	184.9			
-184.0	71.0	84.4	97.8			
-188.0	70.3	84.6	98.9			
-193.0	53.0	64.0	75.0			
-197.0	66.6	79.4	92.2			
-202.0	63.7	76.1	83.6			
-206.0	51.9	62.8	73.7			
-210.0	155.6	179.5	203.4			
-214.0	269.9	254.2	298.5			

721	-218.0	85.7	101.0	116.3
722	-225.0	131.6	156.0	180.5
723	-230.0	93.2	112.2	131.1
724	-236.0	14.1	19.3	24.4
725	-242.0	66.3	79.1	91.9
726	-246.0	63.4	75.8	88.2
727	-249.0	156.8	184.9	212.9
728	-252.0	149.8	183.7	217.6
729	-254.0	152.7	180.1	207.6
730	-255.0	149.9	177.0	204.0
731	-258.0	69.2	82.4	95.5
732	-260.0	143.3	159.5	195.6
733	-262.0	400.8	516.7	632.6
734	-264.0	163.4	199.7	235.9
735	-266.0	144.5	167.1	189.6
736	-268.0	50.4	61.0	71.7
737	-270.0	58.2	71.9	85.6
738	-272.0	116.3	138.6	160.9
739	-275.0	37.1	46.9	54.7
740	-278.0	64.5	77.0	89.6
741	-282.0	225.5	272.5	319.6
742	-285.0	76.3	90.4	104.4
743	-290.0	121.2	144.2	167.2
744	-294.0	147.3	180.7	214.2
745	-299.0	320.0	383.3	446.7

	OBLACK LOUGH 12(A)			%TOTAL LAND	POLLEN			POPULUS			ULMUS			QUERCUS		
	DEPTH	BETULA			PINUS											
1781	-152.	10.1	14.2	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.3	6.7	
1782	-157.	7.7	10.0	12.3	0.0	0.2	1.0	0.0	0.0	0.2	0.5	1.6	3.8	5.4	7.6	
1783	-162.	13.4	16.8	20.9	0.1	0.5	1.9	0.0	0.0	0.0	0.0	0.0	4.5	6.5	9.5	
1785	-166.	5.7	9.0	11.0	0.0	0.2	1.4	0.0	0.0	0.4	1.0	2.5	5.9	8.2	11.3	
1787	-170.	7.7	10.3	13.6	0.0	0.2	1.4	0.0	0.0	0.0	0.2	1.4	2.2	3.7	6.0	
1788	-175.	6.8	9.8	13.9	0.0	0.0	0.0	0.0	0.0	0.4	1.1	3.2	4.2	6.5	10.1	
1789	-179.	10.4	13.3	17.0	0.1	0.5	1.8	0.0	0.0	0.0	0.2	1.4	3.6	5.4	8.1	
1790	-184.	14.8	18.9	23.9	0.1	0.4	2.0	0.0	0.0	0.1	0.4	2.0	5.3	9.1	13.0	
1791	-188.	16.2	20.8	25.5	0.9	2.0	4.6	0.0	0.0	0.2	0.8	2.9	9.2	12.8	17.5	
1792	-193.	11.5	15.7	21.2	0.1	0.5	2.6	0.0	0.0	0.1	0.5	2.6	7.2	10.6	15.5	
1793	-197.	11.3	15.7	20.5	0.6	1.5	3.3	0.0	0.0	0.2	0.7	2.7	7.3	10.4	14.7	
1794	-202.	9.0	12.5	17.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.2	4.2	6.5	10.3	
1795	-206.	12.1	16.5	22.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5	2.6	5.4	8.5	13.0	
1796	-210.	4.6	6.3	8.5	0.6	1.2	2.4	0.0	0.0	0.5	1.0	2.1	6.2	8.1	10.5	
1797	-214.	11.9	14.9	18.5	0.8	1.6	3.3	0.0	0.0	0.0	0.0	0.0	5.5	7.7	10.6	
1798	-218.	10.3	13.6	17.5	0.1	0.3	1.6	0.0	0.0	0.2	0.5	2.1	3.6	5.6	8.5	
1799	-225.	11.8	14.9	18.3	0.4	1.0	2.6	0.0	0.0	0.4	1.0	2.6	8.4	11.1	14.6	
1800	-230.	8.1	11.3	15.5	0.1	0.4	2.0	0.0	0.0	0.2	0.7	2.5	6.6	9.5	13.6	

1861	-1282.	0.0	0.2	1.2	0.0	0.2	1.2	15.6	18.9	22.7	21.3	25.0	29.2	0.0	0.0	0.0
1862	-1286.	0.0	0.0	0.0	0.1	0.3	1.8	23.1	27.9	33.2	21.6	26.6	31.3	0.0	0.0	0.0
1863	-1290.	0.0	0.0	0.0	0.0	0.0	0.0	28.8	33.4	38.4	23.1	27.4	32.2	0.0	0.0	0.0
1864	-1294.	0.0	0.0	0.0	0.0	0.0	0.0	21.9	26.6	31.3	27.4	32.3	38.2	0.0	0.0	0.0
1865	-1299.	0.0	0.2	0.9	0.0	0.0	0.0	15.5	18.2	21.4	25.5	28.9	32.5	0.0	0.0	0.0
1866		TILIA			FRAXINUS			ALNUS			CORYLOID			JUNIPER		
1867	OBLACK LOUGH 12(A)	%TOTAL LAND			POLLEN											
1868	ODEPTH	SALIX			HEDERA			VIBURNUM			HYPERICUM			EMPETRUM		
1869	-152.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1870	-157.	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0	3.6
1871	-162.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1872	-166.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1873	-170.	0.0	0.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5	3.2
1874	-175.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1875	-179.	0.0	0.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1876	-184.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	2.5
1877	-188.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.2	0.0	0.0	0.0
1878	-193.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	2.3
1879	-197.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1880	-202.	0.2	0.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1881	-206.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1882	-210.	0.0	0.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1883	-214.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1884	-218.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1885	-225.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5	3.3
1886	-230.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.0
1887	-236.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1888	-242.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1889	-246.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1890	-249.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1891	-252.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1892	-254.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1893	-256.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.5
1894	-258.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1895	-260.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	2.0
1896	-262.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1897	-264.	0.2	0.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1898	-256.	0.2	0.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1899	-268.	0.3	1.0	3.5	0.1	0.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1900	-270.	0.1	0.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1901	-272.	0.2	0.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0
1902	-275.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1903	-278.	0.1	0.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1904	-282.	0.0	0.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.0	0.0	0.0
1905	-285.	0.1	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1906	-290.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1907	-294.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1908	-299.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1909		SALIX			HEDERA			VIBURNUM			HYPERICUM			EMPETRUM		
1910	OBLACK LOUGH 12(A)	%TOTAL LAND			POLLEN											
1911	ODEPTH	ERICACEAE			GRAMINEAE			CEREALIA			CYPERACEAE			ARTEMISIA		
1912	-152.	27.0	33.0	39.6	1.6	3.3	6.7	0.0	0.0	0.0	1.0	2.4	5.4	0.0	0.0	0.0
1913	-157.	18.9	22.2	25.9	3.6	5.2	7.4	0.0	0.0	0.0	0.5	1.1	2.4	0.0	0.0	0.0
1914	-162.	30.0	34.6	39.6	1.8	3.1	5.4	0.0	0.0	0.0	0.4	1.0	2.7	0.0	0.0	0.0
1915	-166.	20.9	24.9	29.3	0.7	1.5	3.2	0.0	0.0	0.0	0.4	1.0	2.5	0.0	0.0	0.0
1916	-170.	34.4	39.0	43.3	3.0	4.7	7.2	0.0	0.0	0.0	0.3	0.7	2.1	0.0	0.0	0.0
1917	-175.	13.7	17.8	22.3	4.2	6.5	10.1	0.0	0.0	0.0	5.3	8.0	11.8	0.0	0.0	0.0
1918	-179.	18.0	21.7	26.0	4.8	6.9	9.8	0.0	0.0	0.0	2.5	4.2	6.6	0.0	0.0	0.0
1919	-184.	13.6	17.5	22.4	1.7	3.2	5.9	0.0	0.0	0.0	0.1	0.4	2.0	0.0	0.0	0.0
1920	-188.	7.5	10.8	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.2	0.0	0.0	0.0

1981	-1260.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982	-1252.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983	-1254.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984	-1266.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	-1263.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986	-1270.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	-1272.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988	-1275.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989	-1273.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1990	-1232.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991	-1286.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992	-1290.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993	-1294.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1994	-1299.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1995			SENECIO TYPE		MATRICARIA TYPE		RANUNCULUS TYPE		CALTHA						THALICTRUM		
1996	OBLACK LOUGH 12(A)		%TOTAL LAND		PULLEN												
1997	ODEPTH	HELIANTHEMUM			CARYOPHYLLACEAE		CHENOPODIACEAE		ROSACEAE						FILIPENDULA		
1998	-152.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1999	-157.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.0	0.0	0.0	0.2	1.0	0.0
2000	-162.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001	-166.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002	-170.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003	-175.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
2004	-179.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2005	-154.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2006	-138.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007	-193.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
2008	-197.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2009	-202.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2010	-206.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011	-210.	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2012	-214.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013	-213.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014	-225.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015	-230.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016	-236.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	-242.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018	-246.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019	-249.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020	-252.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021	-254.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	-256.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023	-253.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024	-260.	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025	-262.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2026	-264.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.0	5.4	0.0	0.0	0.0	0.0
2027	-266.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2028	-268.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2029	-270.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2030	-272.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2031	-275.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2032	-278.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2033	-232.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2034	-286.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2035	-290.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2036	-294.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2037	-299.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2038			HELIANTHEMUM		CARYOPHYLLACEAE		CHENOPODIACEAE		ROSACEAE						FILIPENDULA		
2039	OBLACK LOUGH 12(A)		%TOTAL LAND		PULLEN												
2040	ODEPTH	POTENTILLA TYPE			SAXIFRAGACEAE		UMBELLIFERAE		MERCURIALIS						POLYGONUM		

22221	-198.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22222	-193.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22223	-197.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22224	-202.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22225	-206.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22226	-210.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22227	-214.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22228	-218.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22229	-225.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	0.0	0.0	0.0
2230	-230.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2231	-236.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2232	-242.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2233	-246.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2234	-249.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2235	-252.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2236	-254.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2237	-256.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2238	-258.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2239	-260.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2240	-262.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2241	-264.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2242	-266.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2243	-268.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2244	-270.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2245	-272.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2246	-275.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.5	0.0	0.0	0.0	0.0
2247	-278.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2248	-282.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2249	-286.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2250	-290.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2251	-294.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2252	-299.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2253																	
2254		POTAMOGETON			LEMNA				TYPHA	ANGUST.		LYCOPodium			ISOCETES		
2255		OBLACK LOUGH 12(A)	%TOTAL LAND		POLLEN												
2256	-152.	0.0	0.0	0.0	3.1	5.7	9.8	0.1	0.5	2.6	0.2	0.9	3.4	11.2	16.5	23.0	
2257	-157.	0.0	0.0	0.0	0.3	0.7	1.9	0.0	0.0	0.0	1.2	2.2	3.9	1.4	2.4	4.1	
2258	-162.	0.0	0.0	0.0	5.5	8.1	11.5	0.1	0.5	1.9	2.5	4.2	4.5	0.4	1.0	2.7	
2259	-165.	0.0	0.0	0.0	0.8	1.7	3.6	0.0	0.2	1.4	0.7	1.5	3.2	0.4	1.0	2.5	
2260	-170.	0.0	0.0	0.0	1.3	2.5	4.5	0.0	0.0	0.0	1.3	2.5	4.5	0.4	1.0	2.5	
2261	-175.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.0	0.5	1.5	3.7	0.5	0.3	0.4	
2262	-179.	0.0	0.0	0.0	1.0	2.0	3.9	0.0	0.0	0.0	1.1	2.2	4.2	1.7	3.0	5.2	
2263	-184.	0.0	0.0	0.0	5.4	8.4	12.5	0.0	0.0	0.0	0.3	1.1	3.1	1.2	2.5	5.0	
2264	-188.	0.0	0.0	0.0	3.2	5.6	9.3	0.0	0.0	0.0	0.8	2.0	4.6	26.3	34.4	43.0	
2265	-193.	0.0	0.0	0.0	2.1	4.2	7.8	0.0	0.0	0.0	0.7	1.9	4.7	2.1	4.2	7.8	
2266	-197.	0.0	0.0	0.0	0.9	1.9	4.3	0.2	0.7	2.7	0.5	1.9	4.3	3.4	9.7	14.2	
2267	-202.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	3.4	8.7	12.8	18.0	
2268	-206.	0.0	0.0	0.0	0.2	0.9	3.4	0.2	0.9	3.4	1.2	2.3	6.1	1.0	2.4	5.4	
2269	-210.	0.0	0.0	0.0	0.4	1.0	2.2	0.3	0.8	1.9	1.7	2.8	4.5	4.9	6.8	9.2	
2270	-214.	0.0	0.0	0.0	0.0	0.2	1.3	0.4	0.9	2.4	0.6	1.4	3.0	1.9	3.3	5.5	
2271	-218.	0.0	0.0	0.0	0.3	0.9	2.6	0.5	1.5	3.4	1.2	2.3	4.6	1.6	2.9	5.4	
2272	-225.	0.0	0.0	0.0	0.5	1.3	2.9	1.2	2.3	4.3	0.0	0.3	1.4	5.2	7.5	10.8	
2273	-230.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.0	1.6	3.2	6.0	
2274	-236.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.1	10.6	7.3	15.4	27.4	
2275	-242.	0.0	0.0	0.0	0.1	0.4	2.1	0.4	1.1	3.3	0.1	0.4	2.1	53.0	65.5	77.7	
2276	-246.	0.0	0.0	0.0	0.2	0.8	2.8	0.2	0.8	2.8	0.3	2.0	4.5	9.1	13.3	18.6	
2277	-249.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.1	0.4	1.5	29.5	35.7	42.1	
2278	-252.	0.0	0.0	0.0	0.5	1.3	3.3	0.3	1.0	2.5	0.3	1.0	2.8	73.4	88.1	101.8	
2279	-254.	0.0	0.0	0.0	0.5	1.1	2.6	0.2	0.7	1.9	1.2	2.2	4.0	9.2	12.3	16.0	
2280	-256.	0.0	0.0	0.0	0.0	0.2	1.3	0.2	0.7	2.0	0.5	1.1	2.6	3.5	5.4	8.0	

2281	-258.	0.0	0.0	0.0	0.1	0.4	2.0	1.0	2.2	4.7	1.6	3.2	6.1	1.4	2.9	5.6
2282	-260.	0.0	0.0	0.0	0.1	0.5	1.7	0.2	0.7	2.2	0.8	1.6	3.3	11.1	14.7	13.9
2283	-262.	0.0	0.0	0.0	0.5	1.1	2.7	0.5	1.1	2.7	2.9	4.6	7.1	18.2	22.9	28.1
2284	-264.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	3.0	7.2	10.4	14.5
2285	-266.	0.0	0.0	0.0	0.2	0.5	1.6	0.4	0.9	2.1	3.1	4.6	6.7	5.4	7.4	10.1
2286	-268.	0.0	0.0	0.0	0.3	1.0	3.5	0.1	0.5	2.7	0.1	0.5	2.7	4.6	7.8	12.5
2287	-270.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	3.9	2.1	4.4	9.6
2288	-272.	0.0	0.0	0.0	0.2	0.6	2.1	0.2	0.6	2.1	0.2	0.6	2.1	10.2	14.0	19.5
2289	-275.	0.0	0.0	0.0	0.3	1.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.5	11.7
2290	-278.	0.0	0.0	0.0	0.8	1.9	4.6	0.2	0.8	2.3	1.0	2.3	5.0	9.0	13.1	18.3
2291	-282.	0.0	0.0	0.0	0.1	0.4	1.6	0.0	0.2	1.2	0.5	1.1	2.6	1.5	2.6	4.5
2292	-285.	0.0	0.0	0.0	0.2	0.7	2.4	0.5	1.3	3.3	2.4	4.3	7.2	0.2	0.7	2.4
2293	-290.	0.0	0.0	0.0	0.4	1.1	2.8	0.3	0.8	2.4	1.1	2.2	4.3	0.6	1.4	3.2
2294	-294.	0.0	0.0	0.0	0.1	0.3	1.8	0.1	0.3	1.3	1.1	2.3	4.7	4.6	7.2	10.9
2295	-299.	0.0	0.0	0.0	0.3	0.8	1.8	0.1	0.3	1.1	2.8	4.2	6.1	2.2	3.4	5.1
2296		EQUISETUM			PTERIDIUM			POLYPODIUM			FILICALES			SPHAGNUM		

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1		OBLACK LOUGH 12(A) POLLEN COUNTS																		
ODEPTH																				
-306.	10.	3.	0.	5.	12.	0.	0.	33.	42.	0.	0.	0.	0.	0.	0.	15.	0.	0.	2.	0.
-312.	44.	7.	0.	19.	53.	1.	0.	91.	137.	0.	0.	0.	0.	0.	0.	45.	1.	0.	1.	0.
-318.	49.	5.	0.	10.	42.	0.	0.	59.	68.	0.	0.	0.	0.	0.	0.	29.	0.	0.	4.	0.
-325.	26.	1.	0.	9.	50.	0.	0.	53.	81.	0.	0.	0.	0.	0.	0.	9.	0.	0.	9.	0.
-332.	45.	12.	0.	13.	52.	0.	1.	101.	174.	0.	0.	0.	0.	0.	0.	32.	4.	0.	4.	1.
-340.	21.	51.	0.	14.	28.	0.	0.	53.	195.	0.	0.	0.	0.	0.	0.	15.	2.	0.	20.	0.
-346.	19.	63.	0.	11.	29.	0.	0.	38.	167.	0.	1.	0.	0.	0.	0.	31.	3.	0.	2.	0.
-352.	35.	62.	0.	7.	33.	0.	0.	47.	149.	0.	0.	1.	0.	0.	0.	46.	3.	0.	3.	0.
-364.	16.	24.	0.	4.	9.	1.	0.	4.	75.	0.	0.	0.	0.	0.	0.	24.	1.	0.	3.	0.
-375.	32.	61.	0.	12.	43.	0.	0.	6.	340.	0.	1.	0.	0.	0.	0.	43.	1.	0.	2.	0.
-387.	44.	156.	0.	21.	30.	0.	0.	2.	150.	0.	0.	0.	0.	0.	0.	34.	4.	0.	13.	0.
-399.	62.	102.	0.	19.	35.	0.	0.	2.	220.	0.	1.	0.	0.	0.	0.	68.	5.	0.	15.	0.
-425.	75.	94.	0.	9.	24.	0.	0.	0.	240.	11.	0.	0.	0.	0.	2.	23.	5.	0.	33.	0.
-451.	160.	32.	0.	21.	8.	0.	0.	1.	559.	0.	0.	1.	0.	0.	5.	53.	17.	0.	37.	0.
-475.	173.	21.	0.	16.	3.	0.	0.	0.	352.	6.	18.	0.	0.	0.	7.	13.	11.	0.	36.	0.
-502.	143.	8.	0.	1.	2.	0.	0.	0.	408.	2.	9.	0.	0.	0.	4.	5.	9.	0.	19.	1.
-525.	135.	17.	0.	2.	0.	0.	1.	0.	70.	2.	38.	0.	3.	0.	1.	2.	23.	0.	45.	0.
-552.	24.	5.	0.	0.	0.	0.	0.	1.	7.	19.	5.	0.	0.	0.	1.	1.	38.	0.	44.	2.
-575.	9.	3.	0.	0.	0.	0.	0.	0.	0.	9.	4.	0.	0.	0.	5.	1.	59.	0.	25.	4.
-625.	13.	3.	2.	0.	0.	0.	0.	0.	0.	18.	9.	0.	0.	0.	1.	0.	122.	0.	48.	3.
-675.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.
	BETULA	PINUS	POPULUS	ULMUS	QUERCUS	JUNIPER	CORYLOID	FRAXINUS	ALNUS	TILIA	SALIX	HEDERA	VIBURNUM	HYPERICUM	EMPETRUM	ERICACEAE	GRAMINEAE	CEREALIA	CYPERACEAE	ARTEMISIA

1		OBLACK LOUGH 12(A) POLLEN COUNTS																		
ODEPTH																				
-306.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-312.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-318.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-325.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-332.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.
-340.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-346.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-352.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-364.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-375.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-387.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-399.	0.	0.	0.	0.	0.	0.	0.	0.	2.	1.	0.	1.	0.	0.	1.	1.	0.	0.	0.	0.
-425.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-451.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
-475.	1.	0.	1.	0.	0.	0.	0.	0.	1.	3.	4.	2.	0.	0.	5.	0.	0.	0.	0.	0.
-502.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-525.	0.	0.	5.	0.	4.	0.	0.	0.	2.	0.	0.	1.	0.	0.	2.	0.	0.	0.	0.	0.
-552.	0.	0.	0.	0.	0.	0.	0.	0.	3.	0.	0.	1.	0.	0.	0.	6.	0.	0.	0.	0.
-575.	0.	2.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	1.	0.	2.	5.	0.	0.	0.	0.
-625.	0.	0.	0.	0.	0.	2.	1.	0.	1.	0.	0.	0.	1.	0.	14.	32.	0.	0.	0.	0.
-675.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	0.	0.	0.
	SENECIO TYPE	MATRICARIA TYPE	RANUNCULUS TYPE	CALTHA	THALICTRUM	CARYOPHYLLACEAE	CHENOPODIACEAE	ROSACEAE	FILIPENDULA	POTENTILLA TYPE	SAXIFRAGACEAE	UMBELLIFERAE	MERCURIALIS	POLYGONUM	RUMEX	CANNABIS	URTICA	GENTIANA	SCROPHULARIACEAE	

DEPTH	CONVOLVULUS	PLANTAGO LANC.	CAMPANULA	RUBIACEAE	POTAMOGETON	LEMNA	EQUISETUM	PTERIDIUM	POLYPODIUM	FILICALES	SPHAGNUM
61	-306.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
62	-312.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
63	-318.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
64	-325.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
65	-332.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
66	-340.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
67	-346.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
68	-352.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
69	-364.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
70	-375.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71	-387.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
72	-399.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
73	-425.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
74	-451.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
75	-475.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
76	-502.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
77	-525.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
78	-552.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
79	-575.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80	-625.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
81	-675.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
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IPOLLEN TOTALS AND SUMMARY TABLE

DEPTH	TREES	SHRUBS	HERBS	AQUATS	SPORES	TOTAL	EXOTIC	TREES%	SHRUB%	HERBS%	AQUAT%	SPORE%
61	63.0	58.0	2.0	0.0	12.0	123.0	400.0	51.2	47.2	1.6	0.0	9.8
62	215.0	182.0	3.0	0.0	33.0	400.0	300.0	53.8	45.5	0.8	0.0	8.3
63	165.0	97.0	4.0	0.0	70.0	266.0	200.0	62.0	36.5	1.5	0.0	26.3
64	139.0	90.0	9.0	0.0	304.0	238.0	400.0	58.4	37.8	3.8	0.0	127.7
65	224.0	206.0	12.0	0.0	70.0	442.0	300.0	50.7	46.6	2.7	0.0	15.8
66	167.0	211.0	22.0	0.0	175.0	400.0	300.0	41.8	52.8	5.5	0.0	43.8
67	160.0	199.0	5.0	0.0	129.0	365.0	300.0	43.8	54.5	1.6	0.0	35.3
68	184.0	196.0	8.0	0.0	218.0	388.0	400.0	47.4	50.5	2.1	0.0	56.2
69	58.0	99.0	4.0	0.0	63.0	161.0	400.0	36.0	61.5	2.5	0.0	39.1
70	159.0	384.0	5.0	0.0	462.0	548.0	300.0	29.0	70.1	0.9	0.0	84.3
71	253.0	184.0	18.0	0.0	23.0	455.0	200.0	55.6	40.4	4.0	0.0	6.2
72	240.0	289.0	27.0	0.0	88.0	556.0	300.0	43.2	52.0	4.9	0.0	15.8
73	202.0	276.0	33.0	1.0	6.0	516.0	300.0	39.1	53.5	7.4	0.2	1.2
74	222.0	618.0	57.0	1.0	53.0	897.0	150.0	24.7	68.9	6.4	0.1	5.9
75	213.0	396.0	62.0	0.0	62.0	671.0	300.0	31.7	59.0	9.2	0.0	9.2
76	159.0	428.0	29.0	0.0	69.0	616.0	150.0	25.8	69.5	4.7	0.0	11.2
77	205.0	116.0	86.0	116.0	55.0	407.0	300.0	50.4	28.5	21.1	28.5	13.5
78	30.0	33.0	97.0	7.0	11.0	150.0	300.0	13.3	20.6	60.6	4.4	6.9
79	12.0	19.0	104.0	57.0	1.0	135.0	300.0	8.9	14.1	77.0	42.2	0.7
80	18.0	28.0	230.0	20.0	1.0	276.0	300.0	6.5	10.1	83.3	7.2	0.4
81	1.0	0.0	4.0	0.0	1.0	5.0	218.0	20.0	0.0	80.0	0.0	20.0

1 BLACK LOUGH 12(A) POLLEN CONCENTRATION

DEPTH	BETULA	PINUS	POPULUS	ULMUS	QUERCUS
114	2.0	3.0	3.9	0.4	0.9
115	14.6	17.4	20.2	1.7	2.8
116	24.4	29.0	33.7	1.6	3.0
117	6.1	7.7	9.3	0.0	0.3
118	14.9	17.8	20.6	3.3	4.7
119	6.4	8.3	10.2	17.1	20.1
120	5.7	7.5	9.3	21.4	24.9

121	-352.	8.5	10.4	12.2	15.9	18.4	20.9	0.0	0.0	0.0	1.3	2.1	2.9	8.0	9.8	11.5
122	-364.	3.5	4.7	5.9	5.5	7.1	8.6	0.0	0.0	0.0	0.5	1.2	1.8	1.8	2.7	3.6
123	-375.	10.3	12.6	15.0	20.7	24.1	27.5	0.0	0.0	0.0	3.3	4.7	6.1	16.0	19.0	21.9
124	-387.	21.7	26.1	30.4	82.5	92.4	102.3	0.0	0.0	0.0	9.6	12.4	15.3	14.3	17.8	21.3
125	-399.	28.3	32.4	36.4	35.7	40.3	44.9	0.0	0.0	0.0	5.7	7.5	9.3	11.4	13.8	16.3
126	-425.	25.8	29.6	33.5	32.7	37.1	41.5	0.0	0.0	0.0	2.4	3.5	4.8	7.5	9.5	11.5
127	-451.	112.0	126.4	140.3	20.4	25.3	30.2	0.0	0.0	0.0	12.7	16.5	20.5	4.0	6.3	8.6
128	-475.	61.8	68.3	74.9	6.4	8.3	10.2	0.0	0.0	0.0	4.7	6.3	7.9	0.5	1.2	1.9
129	-502.	103.3	116.9	130.5	4.0	6.3	8.6	0.0	0.0	0.0	0.0	0.8	1.6	0.5	1.6	2.7
130	-525.	66.2	73.1	79.9	5.0	6.7	8.4	0.0	0.0	0.0	0.2	0.8	1.4	0.0	0.0	0.0
131	-552.	7.5	9.5	11.5	1.1	2.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132	-575.	2.4	3.6	4.3	0.5	1.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133	-625.	3.7	5.1	6.6	0.5	1.2	1.9	0.2	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
134	-675.	0.0	0.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135																
136	OBLACK LOUGH 12(A)															
137	ODEPTH	TILIA			PINUS			POPULUS			ULMUS			QUERCUS		
138	-306.	0.0	0.0	0.0	FRAXINUS			ALNUS			CORYLOID			JUNIPER		
139	-312.	0.0	0.4	0.8	0.0	0.0	0.0	8.0	9.8	11.5	10.4	12.4	14.5	0.0	0.0	0.0
140	-318.	0.0	0.0	0.0	0.0	0.0	0.0	31.6	35.9	40.3	48.5	54.1	59.7	0.0	0.0	0.0
141	-325.	0.0	0.0	0.0	0.0	0.0	0.0	29.8	35.0	40.1	34.6	40.3	46.0	0.0	0.0	0.0
142	-352.	0.0	0.0	0.0	0.0	0.4	0.8	13.4	15.7	18.0	21.1	24.0	26.9	0.0	0.0	0.0
143	-340.	0.0	0.0	0.0	0.0	0.0	0.0	35.3	39.9	44.5	62.2	68.7	75.3	0.0	0.0	0.0
144	-346.	0.0	0.0	0.0	0.0	0.0	0.0	17.8	20.9	24.1	70.3	77.4	84.6	0.0	0.0	0.0
145	-352.	0.0	0.0	0.0	0.0	0.0	0.0	12.4	15.0	17.6	59.6	65.0	72.4	0.0	0.0	0.0
146	-364.	0.0	0.3	0.6	0.0	0.0	0.0	11.8	13.9	16.1	39.9	44.1	48.4	0.0	0.0	0.0
147	-375.	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8	19.4	22.2	25.0	0.0	0.0	0.0
148	-387.	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.4	3.3	123.6	134.3	145.0	0.0	0.0	0.0
149	-399.	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	2.0	79.3	83.9	93.5	0.0	0.0	0.0
150	-425.	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.4	79.2	85.9	94.6	0.0	0.0	0.0
151	-451.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.6	94.8	103.0	3.0	4.3	5.7
152	-475.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	400.9	441.5	482.4	0.0	0.0	0.0
153	-502.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.1	139.0	150.0	1.4	2.4	3.3
154	-525.	0.0	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	291.4	322.3	353.2	0.5	1.6	2.7
155	-552.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	27.6	31.3	0.2	0.3	1.4
156	-575.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	1.7	2.8	3.8	5.7	7.5	9.3
157	-625.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.6	4.8
158	-675.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	7.1	8.8
159														0.0	0.0	0.0
160	OBLACK LOUGH 12(A)															
161	ODEPTH	TILIA			FRAXINUS			ALNUS			CORYLOID			JUNIPER		
162	-306.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163	-312.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164	-318.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	-325.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166	-332.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167	-340.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168	-346.	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169	-352.	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	-364.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171	-375.	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172	-387.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173	-399.	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174	-425.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.4
175	-451.	0.0	0.0	0.0	0.0	0.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.9	5.7
176	-475.	5.4	7.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.8	3.8
177	-502.	4.7	7.1	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8
178	-525.	12.4	15.0	17.5	0.0	0.0	0.0	0.5	1.2	1.9	0.0	0.0	0.0	0.0	0.4	0.8
179	-552.	1.1	2.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8
180	-575.	0.8	1.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0	2.8

181	-625.	2.4	3.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8			
182	-675.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
183		SALIX				HEDERA			VIBURNUM			HYPERICUM			EMPETRUM				
184		OBLACK LOUGH 12(A)				POLLEN CONCENTRATION													
185		ODEPTH				GRAMINEAE				CEREALIA			CYPERACEAE			ARTEMISIA			
186	-306.	3.5	4.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.0	0.0	0.0			
187	-312.	14.9	17.8	20.6	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.0	0.0			
188	-318.	13.8	17.2	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	3.6	0.0	0.0			
189	-325.	1.8	2.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.7	3.6	0.0	0.0			
190	-332.	10.3	12.6	15.0	0.8	1.6	2.4	0.0	0.0	0.0	0.0	0.8	1.5	2.4	0.0	0.4			
191	-340.	4.4	5.9	7.5	0.2	0.8	1.4	0.0	0.0	0.0	0.0	6.1	7.9	9.7	0.0	0.0			
192	-346.	9.9	12.2	14.6	0.5	1.2	1.9	0.0	0.0	0.0	0.0	0.2	0.3	1.4	0.0	0.0			
193	-352.	11.5	13.6	15.8	0.4	0.9	1.4	0.0	0.0	0.0	0.0	0.4	0.9	1.4	0.0	0.0			
194	-364.	5.6	7.1	8.6	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.4	0.9	1.4	0.0	0.0			
195	-375.	14.2	17.0	19.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.2	0.8	1.4	0.0	0.0			
196	-387.	16.4	20.1	23.9	1.2	2.4	3.6	0.0	0.0	0.0	0.0	5.5	7.7	9.9	0.0	0.0			
197	-399.	23.2	26.9	30.5	1.1	2.0	2.9	0.0	0.0	0.0	0.0	4.7	6.3	7.9	0.0	0.0			
198	-425.	7.1	9.1	11.1	1.1	2.0	2.9	0.0	0.0	0.0	0.0	10.6	13.0	15.4	0.0	0.0			
199	-451.	35.2	41.9	48.6	10.0	13.4	15.9	0.0	0.0	0.0	0.0	23.0	29.2	34.6	0.0	0.0			
200	-475.	3.7	5.1	6.6	3.0	4.3	5.7	0.0	0.0	0.0	0.0	11.7	14.2	16.7	0.0	0.0			
201	-502.	2.2	3.9	5.7	4.7	7.1	9.6	0.0	0.0	0.0	0.0	10.7	14.2	17.8	0.0	0.8			
202	-525.	0.2	0.8	1.4	7.1	9.1	11.1	0.0	0.0	0.0	0.0	14.9	17.8	20.6	0.0	0.0			
203	-552.	0.0	0.4	0.8	12.4	15.0	17.6	0.0	0.0	0.0	0.0	14.6	17.4	20.2	0.2	0.8			
204	-575.	0.0	0.4	0.8	20.0	23.3	26.6	0.0	0.0	0.0	0.0	8.2	10.3	12.4	0.8	1.6			
205	-625.	0.0	0.0	0.0	43.0	48.2	53.4	0.0	0.0	0.0	0.0	16.0	19.0	21.9	2.0	3.2			
206	-675.	0.0	0.0	0.0	0.3	1.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
207		ERICACEAE				GRAMINEAE			CEREALIA			CYPERACEAE			ARTEMISIA				
208		OBLACK LOUGH 12(A)				POLLEN CONCENTRATION													
209		ODEPTH				SENECIO TYPE				MATRICARIA TYPE			RANUNCULUS TYPE			CALTHA		THALICTRUM	
210	-306.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
211	-312.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
212	-318.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
213	-325.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
214	-332.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.4	0.0	0.0	0.0	0.0	0.0			
215	-340.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
216	-346.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
217	-352.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
218	-364.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
219	-375.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
220	-387.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
221	-399.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
222	-425.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
223	-451.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
224	-475.	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0			
225	-502.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
226	-525.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.0	2.9	0.0	0.0	0.0	0.8	1.6			
227	-552.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
228	-575.	0.0	0.0	0.0	0.2	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
229	-625.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
230	-675.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
231		SENECIO TYPE				MATRICARIA TYPE			RANUNCULUS TYPE			CALTHA			THALICTRUM				
232		OBLACK LOUGH 12(A)				POLLEN CONCENTRATION													
233		ODEPTH				HELIANTHEMUM				CARYOPHYLLACEAE			CHENOPODIACEAE			ROSACEAE		FILIPENDULA	
234	-306.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
235	-312.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
236	-318.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
237	-325.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
238	-332.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
239	-340.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
240	-346.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.0	0.0			

1002	BLACK LOUGH 12(A)			%TOTAL LAND			POLLEN			POPULUS			ULMUS			QUERCUS		
1003	DEPTH	BETULA		PINUS		POPULUS		ULMUS		QUERCUS		POPULUS		ULMUS		QUERCUS		
1004	-306.	4.5	8.1	14.3	0.8	2.4	6.9	0.0	0.0	0.0	1.7	4.1	9.2	5.7	9.8	16.5		
1005	-312.	8.3	11.0	14.4	0.9	1.8	3.6	0.0	0.0	0.0	3.1	4.8	7.3	10.3	13.3	16.9		
1006	-318.	14.2	18.4	23.5	0.8	1.9	4.3	0.0	0.0	0.0	2.1	3.8	6.8	11.9	15.8	20.7		
1007	-325.	7.6	10.9	15.5	0.1	0.4	2.3	0.0	0.0	0.0	2.0	3.8	7.0	15.3	21.0	26.6		
1008	-332.	7.7	10.2	13.4	1.6	2.7	4.7	0.0	0.0	0.0	1.7	2.9	5.0	9.1	11.8	15.1		
1009	-340.	3.5	5.3	7.9	9.8	12.8	16.4	0.0	0.0	0.0	2.1	3.5	5.8	4.9	7.0	9.9		
1010	-346.	3.4	5.2	8.0	13.7	17.3	21.5	0.0	0.0	0.0	1.7	3.0	5.3	5.6	7.9	11.2		
1011	-352.	6.6	9.0	12.3	12.7	16.0	20.0	0.0	0.0	0.0	0.9	1.9	3.7	6.1	8.5	11.7		
1012	-364.	6.2	9.9	15.5	10.2	14.9	21.2	0.0	0.0	0.0	1.0	2.5	6.2	3.0	5.6	10.3		
1013	-375.	4.2	5.8	8.1	8.8	11.1	14.0	0.0	0.0	0.0	1.3	2.2	3.8	6.7	8.8	11.4		
1014	-387.	7.3	9.7	12.7	30.1	34.3	38.8	0.0	0.0	0.0	3.0	4.6	7.0	4.7	6.6	9.3		
1015	-399.	12.0	14.7	17.9	15.3	18.3	21.8	0.0	0.0	0.0	2.2	3.4	5.3	4.6	6.3	8.6		
1016	-425.	11.8	14.5	17.8	15.1	18.2	21.8	0.0	0.0	0.0	0.9	1.7	3.3	3.1	4.7	6.8		
1017	-451.	15.5	17.8	20.5	2.5	3.6	5.0	0.0	0.0	0.0	1.5	2.3	3.6	0.5	0.9	1.7		
1018	-475.	22.6	25.8	29.2	2.1	3.1	4.7	0.0	0.0	0.0	1.5	2.4	3.8	0.2	0.4	1.3		
1019	-500.	22.6	25.8	29.2	0.7	1.3	2.5	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.3	1.2		

1021	-552.	10.3	15.0	21.3	1.3	3.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1022	-575.	3.5	6.7	12.2	0.8	2.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1023	-625.	2.8	4.7	7.9	0.4	1.1	3.1	0.2	0.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
1024	-675.	3.6	20.0	62.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1025		BETULA			PINUS			POPULUS			ULMUS			QUERCUS		
1026	OBLACK LOUGH 12(A)			%TOTAL LAND	POLLEN											
1027	ODEPTH	TILIA			FRAXINUS			ALNUS			CORYLOID			JUNIPER		
1028	-305.	0.0	0.0	0.0	0.0	0.0	0.0	19.8	26.8	35.3	26.4	34.1	42.9	0.0	0.0	0.0
1029	-312.	0.0	0.3	1.4	0.0	0.0	0.0	18.9	22.8	27.1	29.8	34.3	39.0	0.0	0.0	0.0
1030	-318.	0.0	0.0	0.0	0.0	0.0	0.0	17.6	22.2	27.5	20.7	25.6	31.1	0.0	0.0	0.0
1031	-325.	0.0	0.0	0.0	0.0	0.0	0.0	17.4	22.3	28.0	28.3	34.0	40.3	0.0	0.0	0.0
1032	-332.	0.0	0.0	0.0	0.0	0.2	1.3	19.2	22.9	27.0	34.9	39.4	44.0	0.0	0.0	0.0
1033	-340.	0.0	0.0	0.0	0.0	0.0	0.0	10.3	13.3	16.9	44.1	49.0	53.9	0.0	0.0	0.0
1034	-346.	0.0	0.0	0.0	0.0	0.0	0.0	7.7	10.4	14.0	40.7	45.8	50.9	0.0	0.0	0.0
1035	-352.	0.0	0.0	0.0	0.0	0.0	0.0	9.2	12.1	15.7	33.7	38.4	43.3	0.0	0.0	0.0
1036	-364.	0.1	0.6	3.4	0.0	0.0	0.0	1.0	2.5	6.2	39.0	46.6	54.3	0.0	0.0	0.0
1037	-375.	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	2.4	57.9	62.0	66.0	0.0	0.0	0.0
1038	-387.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.6	28.8	33.0	37.4	0.0	0.0	0.0
1039	-399.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.3	35.8	39.6	43.7	0.0	0.0	0.0
1040	-425.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.2	46.5	50.8	1.2	2.1	3.6
1041	-451.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	59.1	62.3	65.4	0.0	0.0	0.0
1042	-475.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.7	52.5	56.2	0.4	0.9	1.9
1043	-502.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.4	65.2	69.9	0.1	0.3	1.2
1044	-525.	0.0	0.0	0.0	0.0	0.2	1.4	0.0	0.0	0.0	13.8	17.2	21.2	0.1	0.5	1.8
1045	-552.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	3.5	2.1	4.4	6.8	7.7	11.9	17.8
1046	-575.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.7	12.2
1047	-625.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	6.5	10.1
1048	-675.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1049		TILIA			FRAXINUS			ALNUS			CORYLOID			JUNIPER		
1050	OBLACK LOUGH 12(A)			%TOTAL LAND	POLLEN											
1051	ODEPTH	SALIX			HEDERA			VIBURNUM			HYPERICUM			EMPETRUM		
1052	-305.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1053	-312.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1054	-318.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1055	-325.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1056	-332.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1057	-340.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1058	-346.	0.0	0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1059	-352.	0.0	0.0	0.0	0.0	0.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1060	-364.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1061	-375.	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1062	-387.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1063	-399.	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1064	-425.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.4
1065	-451.	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.3
1066	-475.	1.7	2.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.1
1067	-502.	0.8	1.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.7
1068	-525.	6.9	9.3	12.6	0.0	0.0	0.0	0.3	0.7	2.1	0.0	0.0	0.0	0.0	0.2	1.4
1069	-552.	1.3	3.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.5
1070	-575.	1.2	3.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.7	8.4
1071	-625.	1.7	3.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.8
1072	-675.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1073		SALIX			HEDERA			VIBURNUM			HYPERICUM			EMPETRUM		
1074	OBLACK LOUGH 12(A)			%TOTAL LAND	POLLEN											
1075	ODEPTH	ERICACEAE			GRAMINEAE			CEREAIA			CYPERACEAE			ARTEMISIA		
1076	-305.	8.2	13.0	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.5	5.7	0.0	0.0	0.0
1077	-312.	8.5	11.3	14.7	0.0	0.3	1.4	0.0	0.0	0.0	0.0	0.3	1.4	0.0	0.0	0.0
1078	-318.	7.7	10.9	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.5	3.8	0.0	0.0	0.0
1079	-325.	2.0	3.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.3	7.0	0.0	0.0	0.0
1080	-332.	5.2	7.2	10.0	0.4	0.9	2.3	0.0	0.0	0.0	0.4	0.9	2.3	0.0	0.0	0.0

DEPTH	POTAMOGETON	EQUISETUM	%TOTAL LAND	LEMNA	TYPHA ANGUST.	POLLIN	LYCOPODIUM	ISOETES
-552.	1.6	3.8	8.0	0.0	0.0	0.0	0.0	0.0
-575.	0.4	1.5	5.3	0.1	0.7	4.1	1.1	3.0
-625.	0.1	0.4	2.0	0.4	1.1	3.2	0.0	0.0
-675.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BLACK LOUGH 12(A)	EQUISETUM	%TOTAL LAND	PTERIDIUM	POLYPODIUM	FILICALS	SPHAGNUM		
-306.	0.0	0.0	0.0	0.0	0.0	0.0		
-312.	0.0	0.0	0.0	0.0	0.0	0.0		
-313.	0.0	0.0	0.0	0.0	0.0	0.0		
-325.	0.0	0.0	0.0	9.7	14.3	20.0		
-332.	0.0	0.0	0.0	0.1	0.5	1.6		
-340.	0.0	0.0	0.0	0.7	1.5	3.3		
-346.	0.0	0.0	0.0	0.0	0.3	1.5		
-352.	0.0	0.0	0.0	0.1	0.5	1.9		
-354.	0.0	0.0	0.0	0.0	0.0	0.0		
-375.	0.0	0.2	1.0	0.0	0.2	1.0		
-387.	0.0	0.0	0.0	0.0	0.2	1.2		
-399.	0.0	0.0	0.0	0.0	0.0	0.0		
-425.	0.0	0.0	0.0	0.0	0.0	0.0		
-451.	0.0	0.1	0.6	0.0	0.0	0.0		
-475.	2.0	3.1	4.3	0.0	0.0	0.0		
-502.	1.9	3.1	4.3	0.0	0.2	0.9		
-525.	0.8	1.7	3.5	0.0	0.0	0.0		
-552.	0.0	0.0	0.0	0.0	0.0	0.0		
-575.	0.1	0.7	4.1	0.0	0.0	0.0		
-625.	0.0	0.0	0.0	0.0	0.0	0.0		
-675.	0.0	0.0	0.0	0.5	20.0	65.6		

OF FILE

(Note: The order of information after each borehole heading is :
date of field work, method of sampling, height of ground. e.g.

ED. 1 : 13/9/78, Russian, 82.714m.

The physical properties of each description are abbreviated in the order: nigror (n), stratificatio (s), elasticitas (e), siccitas (s), limes (l).

3.1 Edlingham

ED1 : 13/9/78, Russian, 82.714m

(cm)

- 0-18 Fibrous, saturated, highly organic clay/silt, dark brown, no apparent structure. Surface root system.
Th[⊙]3 Ag1 Ga+
n2 s0 e1 s1 l1
- 18-51 Grey/brown, highly organic clay/silt, saturated, no apparent structure, less fibrous than above, surface roots.
Ld[⊙]1 Th[⊙]2 Ag1 Ga+
n2 s0 e1 s1 l0
- 51-62 Dark grey with black streaks, sticky silt with fine root remnants. Fragments of sandstone and wood.
Ld[⊙]1 Dh1 Ag2 Tl[⊙]+ Ga+ Gg(maj)+
n1 s0 e1 s2 l1
- 62-69 Grey sticky silt. Fragments of stone and root.
Ag3 Dh1 Ga+ Gg(maj)+
n1 s0 e1 s2 l1
- 69-71 Narrow sandy horizon, grey, fine roots.
Ga3 Ag1 Dh+
n1 s0 e0 s3 l3
- 71-81 (as above 51-62)
- 81-92 Light grey, heavy, sticky clay with fragments of sandstone. Dark streaks of humus.
Ag2 As2 Ga+ Gg(maj)+ Sh+
n1 s0 e0 s2 l2

- 92-122 (As above 51-62)
- 122-170 Light grey silt/clay with some sand
As2 Ag2 Ga+ Sh+
n0 s0 e0 s3 l1
- 170-175 Brown sandy silt with black streaks
Ag2 Ga1 Ld^④1
n3 s0 e0 s2 l1
- 175-196 Grey sand (gravel at 196cm)
Ag4 D_l+ Dh+ Gg(maj)+
n3 s0 e0 s2 l1
- 196-260 Brown silt/clay
Ag2 As1 Ga1
n2 s0 e0 s2 l1
- 260-280 Pink/brown sand and gravel
Ag1 Ga2 Gg(min)1 Gg(maj)+
n2 s0 e0 s2 l0

ED2 : 16/9/78, gouge, 82.564m
(cm)

- 0- 13 Modern root mat
Th^④4 Ga+ Ag+ Ld^①+
n3 s0 e3 s2 l0
- 13- 20 Brown organic sand with black streaks
Ga2 Th^①2 Ld^①+ Ag+
n2 s2 e2 s3 l0
- 20- 69 Grey sand
Ga4
n1 s0 e0 s3 l2
- 69- 75 Brown silt
Ga2 Ag1 Ld^③1 Dh+
n2 s1 e2 s3 l1

- 75- 85 Brown organic silt/clay with black streaks
 Ag2 Dh1 Ld^④1 Ga+
 n3 s2 e3 s3 l2
- 85-150 Sticky grey silt/clay, black streaks, gravel
 Ag3 Ld^④1 Dh+ Gg(maj)+ Ga+
 n1 s0 e0 s2 l0
- 150-190 Firm, grey, sandy clay
 Ag1 Ga3 Dh+ Gg(min)+
 n2 s0 e0 s2 l0
- 190-200 Brown sandy clay
 Ga2 Ag2 Gg(min)+
 n2 s0 e0 s2 l0
- 200-259 Sandy grey clay (as above 150-190)
- 259-266 Brown sandy clay (as above 190-200)
- 266-300 Sandy grey clay (as above 150-190)
 Some wood at 183cm
- 300-465 Brown sandy clay
 Ag3 Ga1
 n2 s0 e0 s2 l0
- 465-495 Sand and gravel
 Ga2 Ag1 Gg(min)1 Gg(maj)+
 n2 s0 e0 s2 l0

ED3 : 14/10/78, gouge plus sand auger, 82.264m
 (cm)

0+ Surface water

0- 4 Saturated → root mat in mud matrix
 Th[⊙]2 Ga1 Ag1
 n3 s0 e0 s2 l0

- 4- 8 Firm organic clay, black streaks
Ag2 Ld^④1 Ga1 Th+
n2 s1 e0 s2 l1
- 8- 14 Grey organic clay
Ag3 Ld^③1 Dh+
n2 s1 e0 s2 l1
- 14- 35 Sand
(end gouge core) Ga4 Dh+
n2 s1 e0 s2 l0
- 35- 65 Auger through sand to sandstone at 65cm.
- ED4 : 14/10/78, gouge plus sand auger, 82.389m.
(cm)
- 0+ Surface water
- 0- 5 Root mat in mud matrix
Th^② Ag1 Ga1
n3 s0 e0 s2 l0
- 5- 19 Heavy organic clay
Ag2 Ga1 Ld^③ Dh+
n2 s1 e0 s2 l1
- 19- 35 Sandy clay
Ga2 Ag2 Ld^③+ Dh+
n2 s1 e0 s2 l0
- 35- 38 Grey sand
(end gouge core) Ga4 Dh+
n2 s1 e0 s2 l0
- 38- 88 Sand auger penetrated from 35cm through sand until
stopped at sandstone at 88cm.

ED5 : 14/10/78, gouge plus sand auger, 82.342m.

(cm)

0- 10 Surface root mat
 Th[⊙]₃ Ga1 Ag+
 n3 s0 e1 s3 l0

10- 25 Organic sandy clay
 Th^①₁ Ag2 Ga1
 n2 s1 e0 s3 l1

25- 37 Orange mottled sandy clay
 Ga3 Ag1 Dh+
 n2 s1 e0 s3 l1

37- 61 Grey sand, black streaks
 (end gouge Ga4 Ld^④ +
 core) n2 s0 e0 s3 l0

61- 74 Auger stopped at rock. Excavated pit through water-
 worn gravels to 120 cm. Gravels continued.
 (Water table at 75 cm.)

ED6 : 10/10/78, gouge, 81.997 m.

(cm)

0- 25 Surface root mat
 Th[⊙]₄
 n3 s0 e0 s3 l0

25- 40 Brown organic sediment
 Dh2 Th^①₂
 n3 s2 e3 s2 l1

40- 55 Yellow mottled sand with traces of rock
 Ga3 Ag1 Dh+ Gg(maj)+
 n2 s1 e1 s2 l1

55- 60 Black streaked sandy clay
 Ag2 Ga1 Ld^④₁
 n3 s0 e0 s2 l0

- 60- 71 Fibrous root mat (possibly old surface level)
 Th^①4
 n3 s0 e3 s2 l1
- 71- 75 Yellow mottled sand (as above 40-55)
- 75- 94 Black streaked sandy clay
 Ag Gal Ld^④ Dh+ Dh+
 n3 s1 e0 s2 l1
- 94-100 Sand
 Ga4
 n1 s0 e0 s2 l1
- 100-123 Black streaked sandy clay (as above 75-94)
- 123-160 Sandy clay
 Ga3 Ag1
 n1 s0 e0 s2 l0
- 160-164 Sand auger penetrated to rock at 164 cm.

ED7 : 10/10/78, gouge, 82.392
 (cm)

- 0- 16 Surface root zone
 Th^②4 Ga+ Ag+ Sh+
 n3 s4 e3 s2 l0
- 16- 35 Sandy detritus
 Ga2 Ag1 Dh1 Ld^④+
 n2 s2 e1 s2 l0
- 35- 60 Sand
 Ga4 Dg+ Ld^③+
 n1 s0 e0 s2 l0
- 60- 70 Brown organic silt
 Ag2 Ld^②1 Ga1 Dh+
 n2 s1 e1 s2 l1

- 70- 74 Brown monocot peat
 Th²₃ Ld³₁
 n3 s2 e3 s2 l1
- 74- 79 Detritus peat
 Dh3 Ld³₁
 n3 s3 e3 s2 l1
- 79- 97 Gyttja
 Dh1 Ag1 Ld³₂ Ga+
 n2 s2 e1 s2 l1
- 97-102 Sandy clay
 Ga2 Ag2 Ld³₊ Dg+ Dh+
 n2 s1 e0 s2 l0
- 102-111 Gyttja plus wood
 Dh2 Ag1 Ld³₁
 n2 s1 e1 s2 l2
- 111-118 Grey sandy clay
 Ag2 Ga2 Dh+
 n1 s1 e0 s2 l1
- 118-130 Sand
 Ga4 Ag+
 n1 s0 e0 s2 l1
- 130-189 Alternating clay and sand bands repeating pattern of
 111-118 cm and 118-130 cm above.
- 189-191 Detritus peat
 Dh3 Ld⁴₁
 n3 s1 e1 s2 l2
- 191-200 Clay (as above 111-118 cm)
- 200-275 Sandy clay, streaked with humus
 Ag2 Ga1 Dh1 Ld⁴₊
 n1 s1 e0 s2 l1

- 275-330 Black streaked organic clay
 Ld^④2 Ag2 Dh+
 n3 s1 e0 s2 l0
- 330-357 Core lost
- 357-374 Organic clay
 Ag3 Dh1 Ld^④+ Dl+
 n2 s1 e0 s2 l1
- 374-400 Woody detritus peat
 Dh2 Dg1 Dl+ Ld^④1
 n3 s3 e1 s2 l1
- 400-423 Organic clay
 Dh2 Ag2 Ld^④+
 n3 s1 e1 s2 l1
- 423-457 Moist, pink sandy clay
 Ga2 Ag2
 n2 s0 e0 s2 l1
- 457-489 Pink clay with humus streaking
 Ag2 As1 Ga1 Dl+ Ld^④+
 n2 s0 e0 s2 l1
- 489-493 Sand
 Ga4
 n1 s0 e0 s2 l1
- 493-501 Sandy detritus peat
 Th^②3 Ga1 Dl+ Ld^④+
 n3 s3 e1 s2 l1
- 501-590 Pink sandy clay with humus
 Ag2 Ga2 Ld^④+
 n2 s0 e0 s2 l0
- 590-615 Organic clay
 Ag2 Dh1 Ga1 Ld^④+ Dl+
 n3 s1 e0 s2 l0

- 615-635 Detritus peat
Dh3 Ld^③₁
n3 s3 e2 s2 l2
- 635-646 Gyttja
Dh2 Ld^③₁ Ag1
n3 s1 e1 s2 l0
- 646-654 Detritus peat (as above 615-635cm)
- 654-660 Sand
Ga4
n1 s0 e0 s2 l1
- 660-670 Firm sandy clay
Ag2 Ga1 As1 Gg(maj)+
n2 s0 e0 s2 l0

ED7 (a) : 18/9/78, Russian, 82.577m.
(cm)

- 0- 20 Fibrous roots
Th^④₄ Ga+ Ag+
n3 s0 e3 s2 l0
- 20- 67 Felted organic silt
Dh2 Ga1 Sh1 Dd+
n2 s3 e2 s3 l1
- 67- 106 Woody silt/sand
Dd1 Ld^③₁ Ga2 Dh+ Dg+
n2 s2 e0 s2 l1
- 106-127 Grey sand
Ga4 Ag+ Ld^④₊
n1 s1 e0 s3 l1
- 127-134 Brown organic sand
Ld^③₂ Ga2 Dh+ Dg+
n3 s1 e1 s2 l1

- 134-140 Sand
Ga3 Ld^③1 Dh+ Ag+ Dg+
n2 s1 e0 s2 l1
- 140-250 Alternating sand bands as above 127-140 cm.
- 250-266 Sandy gyttja
Dh2 Ga1 Ld^③1 Dg+ D ℓ +
n2 s3 e1 s2 l0
- 266-280 Woody gyttja
D ℓ 1 Ld^③2 Ga1 Ag+ Dh+ Dg+
n2 s2 e0 s2 l1
- 280-288 Woody detritus peat
Dh2 Ld^④2 D ℓ + Ga+
n3 s3 e0 s2 l1
- 288-341 Woody gyttja as above 266-280 cm
- 341-358 Grey sand
Ga4 Ag+ Ld^④+
n1 s0 e0 s2 l1
- 358-377 Woody gyttja as above 266-280 cm.
- 377-435 Sand/gravel
Ga2 Gg(maj)1 Ag1 Gg(min)+
n1 s0 e0 s2 l0

ED8 : 11/10/78, gouge, 82.587 m.

(cm)

- 0- 20 Modern root zone
Th^③3 Ld^①1
n3 s0 e3 s2 l0
- 20- 33 Organic detritus
Dh3 Ld^②1
n3 s3 e3 s2 l1

- 33- 36 Organic clay
 Ag2 Dh2 Ld^②+
 n2 s1 e0 s2 l1
- 36- 42 Organic detritus (as above 20-33 cm)
- 42- 50 Organic clay (as above 33-36 cm)
- 50-75 Turfa
 Th^①3 Ld^①1 Ld^④+
 n3 s1 e2 s2 l0
- 75- 90 Sandy organic clay
 Ag2 Ga1 Dh1 Ld^④+
 n3 s1 e0 s2 l1
- 90-138 Sandy clay
 Ga3 Ag1 Dh+ Dd+
 n2 s1 e0 s2 l0
- 138-149 Sandy gyttja
 Dh2 Ld^③1 Ga1
 n2 s2 e2 s2 l1
- 149-208 Brown organic clay
 Ag3 Dh1 Ld^④+ Ga+
 n2 s1 e0 s2 l0
- 208-253 Sandy organic clay
 Ga2 Ag1 Ld^③1 Dh+
 n2 s0 e0 s2 l1
- 253-285 Grey organic clay, some sand
 Ag3 Ga1 Dh+ Dd+
 n1 s0 e0 s2 l1
- 285-289 Woody organic detritus
 Dh3 Ag1 Dd+ Ld^④+
 n3 s2 e1 s2 l1

289-310	Organic clay Ag2 Ga1 Dh1 n2 s1 e1 s2 l0
310-317	Lost core
317-327	Sandy clay Ga2 Ag2 n2 s0 e0 s2 l1
327-333	Sandy organic detritus Dh2 Ga1 Ag1 Ld ^③ + D ⁺ n3 s2 e2 s2 l1
333-338	Grey clay Ag3 As1 Dh+ Ld ^③ + n1 s0 e0 s2 l1
338-341	Sandy organic detritus (as above 327-333 cm)
341-364	Sand with wood and minor organic content Ga3 D ⁺ l1 Ld ^③ + Dh+ n2 s1 e0 s0 l1
364-385	Organic clay Ag3 Dh1 Ga+ Ld ^④ + n1 s0 e0 s2 l1
385-395	Brown clay with sand and wood Ag2 Ga1 D ⁺ l1 Dh+ Ld ^③ + n3 s1 e0 s2 l1
395-405	Pink sandy clay Ag2 Ga1 D ⁺ l1 Dh+ Ld ^③ + n3 s1 e0 s2 l1
405-440	Brown clay (as above 385-395 cm.)
440-460	Clay Ag2 As1 D ⁺ l1 Dh+ n2 s1 e0 s2 l0

460-485 Firm sandy clay with gravel.
 Ag2 Ga1 Gg(maj)l
 n2 s0 e0 s2 l0

ED9 : 13/9/78, Russian, 82.972 m.
 (cm)

0- 23 Stratum confusum

23- 57 Fibrous root material
 Th^①3 Sh1 Ga+
 n2 s0 e4 s3 l0

57- 65 Grey organic clay
 Ag3 Ld^②1 Ga+ Dg+ Dh+
 n1 s0 e1 s2 l1

65- 90 Brown gyttja
 Dh2 Ld^③2 Ga+ Dl+ Dg+ Ag+
 n2 s2 e2 s3 l0

90- 96 Well humified detritus peat
 Dh2 Ld^④2 Dl+
 n3 s3 e2 s2 l1

96-103 Brown gyttja (as above 65-90 cm)

103-205 Brown organic clay
 Ag3 Ld^③1 Dh+ Dg+
 n2 s1 e1 s2 l0

205-224 Grey organic sand/clay
 Ga2 Ld^④1 Ag1 Dh+ Dg+
 n2 s0 e0 s2 l1

224-285 Sandy clay with humus
 Ag2 Ga1 Ld^④1 Dh+ Dg+
 n1 s0 e0 s2 l0

285-365	Firm sandy clay with humus
	Ga2 Ag1 Ld ^④ 1 Dg+ D ℓ + n1 s0 e0 s2 ℓ 0
365-390	Sandy clay and gravel
	Ga1 Ag1 Gg(min)1 Gg(maj)1 n2 s0 e0 s2 ℓ 0
390-405	Gravel
	Gg(maj)2 Gg(min)1 Ga1 n1 s0 e0 s2 ℓ 0

ED10 : 19/10/78, Gouge, 83.007 m.
(cm)

0- 21	Modern fibrous roots
	Th ^o 4 n3 s0 e4 s4 ℓ 0
21- 37	Organic clay/gyttja
	Ag1 Dh2 Ld ^② 1 n2 s2 e2 s2 ℓ 1
37- 50	Grey organic clay
	Ag2 Dh2 Ld ^④ + n2 s2 e1 s2 ℓ 1
50- 63	Organic clay
	Th ^② 2 Ag2 Ld ^② + n2 s2 e2 s2 ℓ 0
63-113	Black streaked organic clay
	Ag2 Dh2 Ld ^④ + n2 s1 e0 s2 ℓ 0
113-120	Dark grey clay
	Ag3 Ld ^④ 1 Ga+ n2 s0 e0 s2 ℓ 1

120-138	Detritus peat Dh3 Ld ^④ 1 D ℓ + n3 s2 e3 s2 ℓ 0
138-200	Sandy organic clay Ag2 Ga1 Dh1 Gg(min)+ n2 s0 e0 s2 ℓ 0
200-360	Brown sandy clay Ag2 Ga2 Ld ^④ + n2 s0 e0 s2 ℓ 0
360-411	Brown clay with wood Ag2 As2 D ℓ ++ Ga+ n2 s0 e0 s2 ℓ 0
411-479	Soft brown sandy clay Ag2 Ga2 n2 s0 e0 s2 ℓ 2
479-492	Firm sandy gravel Ga2 Gg(min)1 Gg(maj)1 n2 s0 e0 s3 ℓ 0

ED11 : 18/9/78, Russian, 83.262 m.
(cm)

0- 37	Fibrous root mat Th ^① 3 Dh1 Ld ^① + Ag+ Ga+ n3 s0 e1 s2 ℓ 1
37- 83	Organic gyttja Dh2 Ld ^③ 2 Ga+ Ag+ n2 s2 e0 s2 ℓ 1
83- 95	Brown sandy clay As1 Ag2 Ga1 Ld ^④ + Dg+ n1 s0 e0 s2 ℓ 2
95-117	Organic gyttja Dh2 Ld ^④ 1 Ag1 n2 s2 e0 s2 ℓ 1

- 117-140 Organic clay
 Ag2 Dh1 Ld^④₁
 n2 s1 e0 s2 l1
- 140-195 Orange clay
 Ag2 As2
 n1 s0 e0 s2 l0
- 195-220 Grey sandy clay
 Ag3 Ga1
 n1 s0 e0 s2 l0
- 220-248 Monocot peat with clay intrusions to 230 cm.
 Th^④₂ Ld^④₂ Ag+ Ga+
 n3 s3 e2 s2 l1
- 248-272 Detritus peat
 Dh2 Ld^④₂ Ga+
 n3 s3 e2 s2 l3
- 272-283 Grey clay with wood
 Ag2 As1 Ld^④₁ D_l+ Ga+ Dh+
 n1 s0 e0 s2 l1
- 283-305 Organic sandy gyttja
 Dh2 Ld^④₁ Ga1 Ag+
 n2 s3 e1 s2 l1
- 305-319 Sandy organic clay
 Ag2 Ga1 Ld^④₁ D_l+ Dh+
 n2 s0 e0 s2 l0
- 319-328 Pink clay
 Ag2 As2 Ga+ Ld^④₊
 n2 s0 e0 s2 l0
- 328-350 Brown clay
 Ag3 As1 D_l+
 n1 s0 e0 s2 l0

350-389 Brown sandy clay with gravel
 Ag2 Ga1 As1 Gg(maj)+
 n2 s0 e0 s2 l0

389-400 Soft pink clay
 Ag2 As2 Ga+

ED 11 (a) : 11/10/78, Gouge, 82.882 m.

(cm)

0- 30 Fibrous root mat
 Th^①₃ Dh1
 n3 s0 e1 s2 l1

30- 45 Orange mottled clay with sand
 Ag2 Ga2
 n2 s0 e0 s0 l1

45- 53 Sandy detritus
 Dh3 Ga1
 n3 s3 e2 s2 l1

53- 70 Orange mottled clay (as above 30-45 cm)

70-137 Soft grey clay with black streaks
 Ag3 Ga1 Dh+ Ld^④₊
 n2 s0 e0 s2 l0

137-140 Sandy gravel
 Ga3 Gg(maj)l
 n1 s0 e0 s2 l0

ED 11 (b) : 19/10/78, Gouge, 83.012 m.

(cm)

0- 37 Modern root mat
 Th^④₄
 n3 s0 e0 s2 l0

- 37- 88 Highly organic clay
 Ag1 Th^②2 Dh1
 n2 s1 e2 s2 l0
- 88-130 Sandy clay
 Ga1 Ag2 Ld^④1 Dh+
 n2 s0 e0 s2 l0
- 130-150 Grey sandy clay
 Ag2 Ga2 Ld^④+
 n2 s0 e0 s2 l0
- 150-160 Gravelly sand
 Ga2 Gg(maj) 2 Gg(min)+
 n2 s0 e0 s3 l0

ED 11 (c) : 10/10/78, Gouge, 83.037 m

(cm)

- 0- 16 Modern root mat
 Th^①4
 n3 s0 e4 s3 l1
- 16- 37 Organic clay
 Ag2 Ga1 Ld^③1 Dh+
 n2 s2 e0 s2 l0
- 37- 51 Sandy clay
 Ag2 Ga2 Ld^③+
 n2 s2 e0 s2 l0
- 51- 58 Detritus peat
 Dh3 Ld^④1
 n3 s3 e3 s2 l1
- 58- 62 Grey organic clay
 Ag3 Dh1 Ld^③+
 n2 s0 e0 s2 l1
- 62- 67 Detritus peat (as above 51-58 cm)

67- 85	Brown organic clay Ag2 Dh1 Ld ^④ 1 n2 s1 e0 s2 l1
85-100	Soft grey clay Ag2 As1 Ga1 Ld ^③ + n1 s0 e0 s2 l1
100-120	Organic clay Ag2 Dh1 Ld ^③ 1 Ga+ n2 s1 e0 s2 l0
120-124	Peat Dh2 Th ^② 1 Ld ^④ 1 n3 s2 e2 s2 l1
124-144	Organic clay Ag2 Dh1 Ld ^③ 1 n2 s1 e0 s2 l1
144-324	Soft grey sandy clay Ag2 Ga2 As+ Dh+ D _l + Ld ^④ + n1 s0 e0 s2 l2
324-330	Sand and gravel Ga3 Gg(maj)1 n1 s0 e0 s2 l0
330-380	Sandy grey clay (as above 144-324 cm)
380-383	Very organic clay Dh3 Ag1 n3 s2 e2 s2 l1
383-400	Stiff sandy clay Ag2 Ga1 Gg(maj)1 n2 s0 e0 s2 l0

ED 11 (d) : 21/9/78, Russian, 83.487 m

(cm)

- 0- 12 Fibrous root mat
 Th^①4
 n3 s0 e4 s2 l0
- 12- 31 Turfa
 Th^③4
 n3 s1 e2 s2 l0
- 31- 42 Organic clay
 Ag3 Ld^④1 Dh+ Ga+
 n2 s0 e0 s2 l1
- 42- 71 Turfa (buried surface?)
 Th^③4
 n3 s0 e2 s2 l1
- 71-100 Organic clay
 Ag3 Ld^②1 Dh+ Ga+
 n1 s0 e0 s2 l1
- 100-109 Organic gyttja
 Dh2 Ld^④2
 n3 s3 e2 s2 l0
- 109-215 Organic clay
 Ag2 Ld^④1 Ga1 Dl+ Dh+
 n2 s0 e0 s2 l1
- 215-223 Detritus peat
 Dh2 Th^③1 Ld^④1 Dl+ Dg+
 n3 s3 e2 s2 l0
- 223-230 Organic gyttja
 Dg2 Ld^④1 Ag1 Dl+
 n3 s2 e1 s2 l0

230-264	Detritus peat Dh3 Ld ^④ Dℓ+ Dh+ n3 s3 e3 s2 ℓ0
264-328	Grey clay with wood Ag2 As1 Ld ^③ Dℓ+ Dh+ Ga+ n1 s1 e0 s2 ℓ1
328-354	Clay As2 Ag2 Dℓ+ Ga+ Ld ^① + n1 s0 e0 s2 ℓ1
354-378	Sandy clay Ag2 Ga2 Ld ^② + n2 s0 e0 s2 ℓ0
378-387	Greasy brown clay with wood Ag3 Ga1 Ld ^② + Dℓ+ n2 s0 e0 s2 ℓ1
387-400	Sand and gravel Ga1 Gg(min) As1 Ag1 Ld ^① + n2 s0 e0 s2 ℓ0

ED 11 (e) : 19/10/78, Gouge, 82.997 m.

(cm)

0- 12	Fine organic mud Ld ^① 4 n3 s0 e0 s2 ℓ0
12- 33	Fibrous root mat Th ^① 4 n3 s0 e3 s2 ℓ0
33- 70	Organic gyttja Th ^② 2 Dh1 Ld ^② 1 n3 s2 e2 s2 ℓ1
70- 82	Organic clay Dh2 Ag2 Ld ^③ + Ga+ n2 s1 e0 s2 ℓ1

82- 91	Organic gyttja Th ^② Dh2 Ld ^③ ₁ n3 s2 e2 s2 l1
91-115	Organic clay (as above 70-82 cm)
115-125	Organic gyttja Dh2 Ag1 Ld ^③ ₁ n3 s2 e1 s2 l1
125-133	Detritus peat Dh3 Ld ^③ ₁ Ag+ n3 s3 e3 s2 l0
133-146	Organic gyttja Dh2 Ld ^③ ₂ n2 s2 e2 s2 l1
146-162	Monocot peat Th ^③ ₄ Dl+ Dh+ n3 s2 e2 s3 l0
162-200	Brown sandy mixed monocot/detritus peat Th ^③ ₃ Dh1 Ga+ n3 s3 e2 s2 l0
200-244	Organic clay/gyttja Ag2 Dh1 Ld ^④ ₁ Dl+ Ga+ n3 s2 e1 s2 l1
244-247	Sand Ga ₄ Dl+ n2 s0 e0 s3 l0
247-260	Organic sand Ga2 Dh1 Dl1 n2 s0 e0 s3 l0
260-262	Gravel Gg(maj) ₄ n2 s0 e0 s2 l0

ED 11 (f) : 11/10/78, Gouge, 82.292 m.

(cm)

- 0- 20 Surface root zone
 TH^④
 n3 s0 e4 s3 l1
- 20- 85 Organic sandy clay
 Ga1 Dh2 Ag1 Ld^③+
 n1 s0 e0 s1 l0

(rock prevented further penetration)

ED 12 : 21/9/78, Russian, 83.517 m

(cm)

- 0- 74 Stratum confusum (spoil from trenching?)
- 74- 92 Fibrous root mat with wood and other detritus material
 Th^②2 Ld^②2 Dl+ Dh+ Ag+
 n2+ s1 e2 s2 l0
- 92-105 Organic clay
 Ag2 Ld^④2 Ga+ Th^②+
 n2 s0 e0 s2 l1
- 105-127 Grey clay
 Ag3 Ld^④1 Dh+ Dg+ Ga+
 n2 s0 e0 s2 l0
- 127-155 Monocot peat considerable detritus including wood
 and twigs - very wet.
 Dh2 Ld^③2 Dl+ Dg+
 n3 s3 e3 s2 l0
- 155-165 Pink grey organic clay with wood - very smooth and damp
 As1 Ag2 Ld^④1 Dl+ Dh+
 n1 s0 e0 s2 l0
- 165-185 Highly organic gyttja (verging on peat)
 Ld^④2 Dh^③2 Dg+ Dl+
 n3 s3 e2 s2 l0

- 185-215 Organic gyttja
 Ag1 Ld^④1 Dh2 D ℓ ++ Dg+
 n2 s2 e1 s2 ℓ 0
- 215-224 Heavy grey clay
 Ag2 As2 Ld^④+ D ℓ + Ga+
 n1 s0 e0 s2 ℓ 0
- 224-238 Organic gyttja
 Ld^④1 Dh2 Ag1 D ℓ + Dg+
 n2 s3 e1 s2 ℓ 0
- 238-254 Light grey sandy clay with wood
 As1 Ag2 Ga1 D ℓ ++ Ld^④+
 n0 s⁰ e0 s2 ℓ 0
- 254-268 Pink grey sandy clay
 Ag3 Ga1 D ℓ + Dh+ Ld^④+
 n1 s0 e0 s2 ℓ 0
- 268-350 Smooth brown clay
 Ag3 As1 D ℓ +
 n1 s0 e0 s2 ℓ 0
- 350-450 Heavy pink/brown gravelly sandy clay
 Ag2 Ga1 Gg(maj)1 Gg(min)+
 n1 s0 e0 s2 ℓ 0

ED 12(a) : 21/9/78, Russian, 83.482 m

(cm)

- 0- 16 Fibrous root mat
 Th^①4
 n3 s0 e2 s2 ℓ 0
- 16- 36 Fibrous turfa
 Th^②4 Ga+
 n3 s0 e2 s2 ℓ 0
- 36- 77 Organic clay (sand bands at 66 cm and 70 cm)
 Ag2 Ld^③1 Ga1 Dh+ Dg+
 n2 s2 e1 s2 ℓ 1

- 77- 88 Monocot peat
Th^③₄
n2 s2 e1 s2 l1
- 88-110 Organic clay (as above 36-77 cm)
- 110-183 Brown sandy clay
Ag2 Ga2 Ld^③₊ Dh+
n1 s0 e0 s2 l1
- 183-267 Grey clay with wood
Ag2 D_l1 Ga1 Ld^③₊ Dh+
n2 s0 e0 s0 l1
- 267-300 Pink clay, increasing gravel
Ag3 Ga1 Gg(min)+ Ld^①₊ D_l+
n2 s0 e0 s2 l0
- 300-390 Soft brown sandy clay
Ag2 As1 Ga1 Gg(min)+ Gg(maj)+
n2 s0 e0 s2 l0
- 390-400 Sandy clay with gravel
Ag1 As1 Ga1 Gg(min)l Gg(maj)+
n2 s0 e0 s2 l0

ED 12 (b) : 24/9/78, gouge, 83.337 m
(cm)

- 0- 10 Root mat
Th^③₃ Ld^①₁
n3 s0 e3 s2 l0
- 10- 31 Root mat with moist organic sediments
Th^①₂ Ld^①₂
n3 s0 e1 s2 l0
- 31- 54 Organic sandy clay
Ag1 Ld^②₂ Ga1 Dh+ Dg+
n2 s3 e1 s2 l1

54- 59	Grey clay Ag3 Ld ^③ 1 Dh+ Dg+ n1 s0 e0 s2 l2
59- 76	Organic clay/gyttja Ld ^③ 2 Ag1 Dg1 Ga+ Dg+ n2 s2 e0 s2 l0
76-104	Organic clay/sand Ag2 Ld ^③ 1 Ga1 Dg+ Dh+ n1 s0 e0 s2 l0
104-119	Organic gyttja with considerable wood Ld ^③ 2 Dh2 Dl+ Dg+ n3 s3 e1 s2 l0
119-138	Organic gyttja Ld ^③ 2 Dh2 Ag+ n2 s3 e1 s2 l1
138-152	Organic gyttja (as above 104-119 cm)
152-160	Saturated sandy gyttja Ld ^④ 3 Ga1 n3 s0 e0 s1 l1
160-170	Organic gyttja (as above 104-119 cm)
170-177	Organic gyttja (as above 119-138 cm)
177-200	Organic gyttja (green colouration) Ld ^③ 2 Dh2 Ag+ Dg+ Dl+ n3 s3 e1 s2 l0
200-225	Detritus peat Dh2 Ld ^④ 2 Ag+ Ga+ Dg+ Dl+ n3 s3 e1 s2 l0
225-260	Grey organic sand/clay Ag3 Ga1 Dl+ Dh+ Gg(maj)+ n1 s0 e0 s2 l1

- 260-300 Brown organic clay
 Ag3 Ga1 D_l+
 n1 s0 e0 s2 l1
- 300-475 Clay with increasing sand/gravel
 Ag3 Ga1 D_l+
 n1 s0 e0 s2 l0
- 475-500 Clay/sand with gravel
 Ag2 Ga1 Gg(maj)1
 n1 s0 e0 s2 l0

ED 13 : 24/9/78, Russian, 83.372 m
 (Core used for pollen sample. Description p. 41, volume 1)

ED 13 (a) : 24/9/78, gouge, 83.357 m
 (cm)

- 0- 13 Modern root zone
 Th[⊙]₃ Ld[⊙]₁ Ag+
 n3 s0 e3 s2 l0
- 13- 32 Organic silt/clay
 Dh2 Ag1 Ld[⊙]₁
 n3 s3 e1 s2 l1
- 32- 48 Organic clay/silt
 Ag2 Dh1 Ld[⊙]₁ Ga+ Dg+
 n3 s2 e0 s2 l1
- 48- 62 Organic sand/clay
 Ag2 Ga1 Ld[⊙]₁ Dh+ Dg+
 n3 s2 e0 s2 l1
- 62- 66 Grey sand
 Ga3 Ag1 Dh+ Dg+ Ld[⊙]₊
 n1 s1 e0 s2 l1
- 66-182 Grey clay
 Ag2 Ga1 Ld[⊙]₁ Dh+ Dg+
 n2 s0 e0 s2 l0

182-209	Dark brown monocot peat Th ^③ 4 Dh+ Dℓ+ Ga+ n3 s3 e4 s2 ℓ0
209-220	Brown organic gyttja Ld ^④ 2 Dh1 Ag1 Ga+ Dg+ n3 s3 e1 s2 ℓ1
220-260	Pink clay Ag3 Ga1 Dg+ n1 s0 e0 s2 ℓ2
260-280	Sand/clay with gravel Ag2 Ga1 Gg(maj)1 n1 s0 e0 s2 ℓ0
<u>ED 13 (b)</u> : 21/9/78, Russian, 83.267 m	
(cm)	
0- 11	Fibrous root zone Th ^① 4 n3 s0 e3 s2 ℓ0
11- 19	Fibrous <u>turfa</u> with sand Th ^② 3 Ga1 n3 s0 e1 s2 ℓ0
19- 74	Brown, very sandy clay Ga2 Ag1 Ld ^② 1 Dh+ Dg+ n2 s2 e0 s2 ℓ0
74- 87	Brown sand/clay Ag2 Ga1 Ld ^② 1 Dh+ Dg+ n2 s1 e0 s2 ℓ0
87-103	Organic sand/clay Ga2 Ag1 Ld ^③ 1 Dh+ Gg(min)+ n1 s1 e0 s2 ℓ2
103-125	Humified detritus peat Dh3 Ld ^④ 1 Dℓ+ n3 s3 e2 s2 ℓ0

125-146	Grey woody clay Ag2 As2 Ld ^④ D ℓ + n1 s0 e0 s2 ℓ 0
146-186	Sandy clay with some gravel and wood Ag2 As1 Ga1 Gg(maj)+ D ℓ + Ld ^④ + n2 s0 e0 s2 ℓ 1
186-191	Organic gyttja with mineral content Ld ^④ Ag1 Ga1 Dg+ n3 s0 e0 s2 ℓ 1
191-195	Sandy clay (as above 146-186 cm)
195-198	Black detritus peat (as above 103-125 cm)
198-206	Sandy clay (as above 146-186 cm)
206-243	Organic gyttja (as above 186-191 cm plus wood, D ℓ +))
243-271	Grey clay/sand Ag2 As1 Ga1 Gg(min)+ D ℓ + Ld ^③ + n2 s0 e0 s2 ℓ 1
271-300	Brown clay/sand Ag2 As1 Ga1 Gg(min)+ Gg(maj)+ n1 s0 e0 s2 ℓ 0
300-340	Sand Ga4 n1 s0 e0 s3 ℓ 0

ED 14 : 18/9/78, Russian, 84.037 m
(cm)

0- 8	Root mat Th ^① 3 Sh1 Ga+ Ag+ n2 s0 e3 s2 ℓ 0
8- 29	Organic gyttja, clay increasing with depth Th ^② 2 Sh2 Ga+ Ag+ n3 s0 e2 s2 ℓ 0

- 29- 43 Organic silt/clay
 Th^②1 La^②2 Ag1 Ga+
 n2 s0 e1 s2 l0
- 43- 59 Organic clay/silt
 Dh1 La^②1 Ag2 Ga+ Dl+
 n1 s0 e0 s2 l0
- 59- 78 Organic gyttja
 Dh2 La^③1 Ag1 Ga+ Dl+
 n2 s2 e0 s2 l0
- 78- 89 Dark brown detritus peat
 Dh2 La^③2 Dl+
 n3 s2 e4 s2 l1
- 89-195 Organic clay with wood. Bands of sand traces
 Ag2 Dl1 La^③1 Ga+ Dh+
 n1 s1 e0 s2 l0
- 195-225 Grey sandy clay (gravel traces)
 Ag3 Ga1 La^③+ Gg(maj)+
 n1 s0 e0 s2 l0
- 225-300 Pink clay with increasing sand and gravel
 Ag2 As1 Ga1 Gg(maj)+ Gg(min)+
 n1 s0 e0 s2 l0

ED 15 : 23/9/78, gouge, 84.182 m
 (cm)

- 0- 5 Root mat
 Th^①3 La^①1, Ga+
 n3 s0 e2 s2 l1
- 5- 10 Root mat, increasing clay
 Th^①2 La^①1 Ag1 Ga+
 n2 s0 e1 s2 l0
- 10- 31 Organic sandy clay
 Ag2 Ga1 Dh1 La^③+ As+ Dg+
 n3 s1 e1 s2 l1

- 31- 64 Grey clay
 Ag2 Ga1 Ld^③1 D ℓ + Dh+ Dg+
 n1 s0 e0 s2 ℓ 1
- 64- 76 Sandy clay
 Ag1 Ga2 Ld^③1 Dh+ Dg+
 n1 s0 e0 s2 ℓ 0
- 76-100 (lost from core, similar to above 64-76 cm)
- 100-105 Sandy clay (as above 64-76 cm)
- 105-121 Sandy clay, wet (as above 64-76 cm)
- 121-144 Brown sandy clay with gravel
 Ag3 Ga1 Gg(maj)+ Ld^④+ As+
 n1 s0 e0 s2 ℓ 0
- 144-200 Heavy brown sandy clay, wood fragments
 Ag2 As1 Ga1 D ℓ + Gg(maj)+
 n1 s0 e0 s2 ℓ 0
- 200-300 Sandy clay with gravel
 Ag2 Ga2 Gg(maj)+
 n2 s0 e0 s2 10

ED 16 : 23/9/78, gouge, 84.242 m

(cm)

- 0- 10 Root mat
 Th^①2 Ag+ Ld^①2 Ga+
 n3 s0 e2 s2 ℓ 0
- 10- 68 Grey organic sandy clay
 Ag2 Ld^③1 Ga1 Dg+ D ℓ +
 n2 s2 e0 s2 ℓ 0

68-100	Grey organic sand/clay Ga2 Ag1 Ld ^③ 1 Dh+ Dg+ Dℓ+ n1 s1 e0 s2 ℓ0
100-210	Grey sand with wood Ga4 Dℓ+ Ag+ Dg+ Dh+ n1 s2 e0 s2 ℓ0
210-215	Organic sand Ga2 Dh2 Ag+ Dℓ+ Dg+ n3 s3 e1 s2 ℓ1
215-218	Grey sand/clay Ag2 Ga2 Dh+ Dg+ n1 s0 e0 s2 ℓ0
218-221	Sandy gravel Ga3 Gg(maj)1 n2 s0 e0 s2 ℓ0

3.2 Black LoughBL 1 : 7/11/78, Russian, 217.12 m

(cm)

- 0- 25 Brown fibrous monocot. peat with small amount
of Sphagnum
Th^①2 Sh2 Tb^①(Spag)+
n3 s0 e2 s3 l0
- 25- 50 Dark brown fibrous monocot. peat with some
Sphagnum and trace of Phragmites incr. to 50 cm.
Black/dark brown bands through profile.
Th^②2 Sh2 Tb⁺
n3 s1 e2 s3 l1
- 50- 98 Woody fibrous peat - wood apparently detrital.
Monocot. mainly Eriophorum and Phragmites
Th^②2 Sh2 Dl⁺ (wood conc. at 55, 67, 73, 80,
85 & 95 cm)
n3 s0 e2 s3 l1
- 98-110 Organic silty clay
Th^③1 Ld^④1 Ag2 Ga+ Ast Sh+
n3 s1 e0 s2+ l0
- 110-120 Yellow sand with black streaking + detritus incl.
charcoal (sample taken)
Ga2 Ag1 Dl⁺(charcoal) Dh⁺ Gg⁺
n1 s2 e0 s3 l0

BL 2 : 7/11/78, Russian, 217.135 m

(cm)

- 0- 77 Mixed Sphagnum Monocot peat - bands of Eriophorum
Tb^①2 Th^①1(Erioph) Sh1
n3 s0 e3 s2+ l1
- 77-100 V. fibrous dark brown Eriophorum peat
Th^②3 Sh1
n3 s0 e1 s2 l0
- 100-150 Mixed Sphagnum/Monocot peat - bands of Eriophorum
(as above 0-77 cm)

- 150-200 Highly humified mixed Sphagnum/monocot peat
 Th^③₁ Tb^③₁ Sh2
 n3 s1 e1 s2 l0
- 200-250 Well humified Sphagnum peat
 Tb^③₃ Th+ Sh1
 n3 s0 e1 s2 l0
- 250-276 Well humified monocot peat (Eriophorum)
 Th^③₂ Sh2
 n3 s0 e1 s2 l1
- 276-350 Well humified Sphagnum peat + trace of Eriophorum
 Tb^③₂ Sh2 Th⁺(Erioph)
 n3 s0 e1 s2 l0
 (Band of Eriophorum 310-320 cm)
- 350-400 Dark well humified peat
 Tb^③₁ Th^③₁ Sh2
 n3+ s0 e0 s2 l0
- 400-450 Very humified material, similar to above + detritus.
 Sh3 Tb^④₁ Th^④₊ Dh+
 n3+ s0 e0 s2 l0
- 450-535 Woody/monocot peat
 Th^③₂(Erioph) Sh2 Dℓ+
 n3 s0 e1 s2+ l1
- 535-550 Firm detritus peat (with wood)
 Dh3 Dℓ1 Th^③₊ Ld^④₊
 n3 s3 e1 s3 l0
- 550-572 Woody monocot peat with detritus
 Th^③₂ Sh2 Dℓ+(Birch) Dh+
 n3 s1 e1 s3 l0
- 572-592 Very humified monocot peat
 Sh3 Th^③₁
 n3 s0 e0 s3 l1

592-607 Organic clay with black bands
 Ag2 As1 La^④ Ga+ Dh+
 n2 s2 e0 s3 l0

607-640 Blue/Grey sandy clay
 Ag2 Ga1 As1
 n1 s0 e0 s2 l0

BL 3 : 16/11/78, Russian, 216.98 m

(cm)

0- 16 Slightly fibrous monocot peat
 Th^①₃ Sh1
 n3 s0 e3+ s3 l0

16- 40 Fibrous monocot peat
 Th^①₃ Sh1
 n3 s0 e3 s3 l0

40- 50 Moist humified monocot peat
 Th^③₂ Sh2 Tb^③₊
 n3 s0 e1 s2 l0

50- 78 Sphagnum peat + some fibrous monocot
 Th^②₂ Tb^②₁ Sh1
 n3 s0 e3 s2 l0

78-148 Monocot peat, mainly fibrous
 Th^②₃ Sh1 Tb^②₊ Dh+
 n3 s0 e3 s2 l0

148-183 Sphagnum peat
 Tb^②₂ Sh2 Th^②₊ Dh+
 n3 s0 e3 s2 l0

183-250 Humified Monocot peat, mainly Eriophorum + small
 amounts wood
 Th^③₂ Sh2 Dl+ Dh+
 n3 s0 e2 s2 l0

- 250-368 Finely felted, well humified monocot peat.
Some Sphagnum
Th^③₁ Sh₃ Tb^③(Sphag)⁺ Dh⁺
n₃ s₀ e₁ s₂ l₀
- 368-467 Very moist, highly humified monocot peat with
considerable wood (Birch)
Th^④₁ Sh₃ D_l⁺ T_l⁺
n₃ s₀ e₀ s₁ l₁
- 467-484 Mottled orange/brown sandy gravel with considerable
wood and detritus
Ga₂ Gg₂ D_l⁺⁺ Dh⁺ L_d^④⁺
n₂ s₀ e₀ s₁ l₁
- 484-500 Grey sandy silt with wood and charcoal (partic. piece
at 496)
Ga₂ Ag₂ D_l⁺ Charcoal⁺ Dh⁺ L_d^④⁺ Gg⁺
n₂ s₀ e₀ s₁ l₀

BL 4 : 7/11/78, Russian, 216.8m
(cm)

- 0- 38 Brown monocot peat. Slightly crumbly, dry.
Dark brown banding.
Th^①₂ Sh₂
n₃ s₀ e₁ s₃ l₀
- 38- 50 Mixed monocot/Sphagnum peat
Th^②₁ Tb^②₁ Sh₂ Dh⁺
n₃ s₁ e₁ s₃ l₀
- 50-135 Monocot peat (50-72 Eriophorum)
Colour banding
Th^②₂ Sh₂ Dh⁺
n₃ s₀ e₁ s₃ l₀
- 135-293 Slightly felted, mixed monocot/Sphagnum peat.
(Sphagnum and monocot in definite bands of
approx. 20 cm each.)
Tb^③₁ Th^③₁ Sh₂ Dh⁺
n₃ s₁ e₀ s₂ l₀

- 293-310 Sphagnum peat with woody detritus
 Tb^③₂ Sh₂ D_l+ Dh+
 n₃ s₀ e₁ s₃ l₀
- 310-375 Moist well-humified monocot peat with woody detritus and trace of humified Sphagnum
 Sh₃ Th^③₁ D_l+ Dh+ Db^③₊
 n₃ s₀ e₀ s₂ l₀
- 375-400 As above + charcoal
- 400-418 Detritus peat with wood - well humified
 Dh₁ D_l₁ L_d^④₂
 n₃ s₃ e₀ s₂ l₃
- 418-434 Yellow sandy clay with black bands + detritus
 Ga₂ Ag₂ Dh+ D_l+ L_d^④₊
 n₁ s₃ e₀ s₃ l₀
- 434-450 Grey/blue sandy clay with occasional gravel
 Ga₂ Ag₂ Gg+
 n₁ s₁ e₀ s₃ l₀
- BL 5 : 16/11/78, Russian, 216.16m.
 (cm)
- 0- 42 Highly humified, firm dry monocot peat
 Th^③₁ Sh₃
 n₃ s₀ e₂ s₃ l₀
- 42- 62 Well humified moist felted dark brown monocot peat
 Th^③₁ Sh₃
 n₃ s₀ e₃ s₂ l₀
- 62-145 Humified moist monocot peat with traces of Sphagnum
 Th^②₂ Sh₂ Tb^③₊
 n₃ s₀ e₃ s₂ l₀
- 145-264 Finely felted well humified monocot peat, moist, becoming very moist to base.
 Th^③₁ Sh₃ Tb⁺
 n₃ s₀ e₃ s₂ l₀

264-343 Beginning of wood in very moist, highly humified monocot peat
 Th^④1 Sh3 Tb^④(sphag)+ Dℓ++
 n3 s1 e1 s2 ℓ1

343-345 Sandy silt
 Ga2 Ag2
 n1 s0 e0 s2 ℓ0

BL 6 : 8/11/78, Russian, 213.67m
 (cm)

0- 40 Brown highly humified, crumbly, slightly felted monocot peat. Charcoal at 15 cm.

Th^③1 Sh3 Dh+
 n3 s2 e2 s3 ℓ0

40- 66 Well humified Sphagnum peat, felted and crumbly. Some monocot.

Tb^③1 Th^③1 Sh2 Dh+
 n3 s2 e2 s3 ℓ0

66- 74 Fibrous, well humified Eriophorum peat

Th^③3 Sh1 Dh+
 n3 s2 e2 s3 ℓ1

74- 88 Banded, (well humified/less humified) Sphagnum peat + woody detritus. Crumbly and felted

Tb^② & ^③ 3 Sh1 Dℓ+ (wood bands at 75, 85) Dh+
 n3 s2 e3 s3 ℓ0

88- 95 Eriophorum peat, fibrous and well humified

Th^③3 Sh1
 n3 s1 e2 s3 ℓ1

95-162 Well humified mixed Sphagnum/monocot peat

Th^②1 Tb^②1 Sh2 Dh+ Dℓ+
 n3 s2 e3 s3 ℓ0

(Eriophorum band 159-62 cm)

162-200 Mixed Sphagnum/monocot peat with detritus wood. (Heavy wood at 200 cm.)

Tb^③1 Th^③1 Sh2 Dℓ++ Dh+
 n3 s2 e1 s3 ℓ0

- 200-215 Woody detritus peat
Dl3 Ld^④₁
n2 s0 e0 s2 l0
- 215-235 Well humified Sphagnum peat + detritus wood
Tb^③₂ Sh2 Dl++
n3 s2 e2 s3 l1
- 235-285 Eriophorum peat
Th^③₂ Sh2 Dl+(245 cm)
n3 s2 e2 s3 l1
- 285-295 Woody detritus peat (wood zones 285, 295 cm)
Dl1 Dh2 Ld^④₁
n3 s3 e2 s3 l0
- 295-322 Fibrous monocot peat
Th^③₂ Sh2 Dl+
n3 s0 e2 s3 l0
- 322-340 Wood detritus peat (Charcoal at 340 cm)
Dh2 Ld^④₂ Dl++ (mainly birch)
n3 s3 e1 s3 l1
- 340-350 Grey silty clay + slight organic content
As1 Ag3 Ga+ Dh+ Ld^④₊
n2 s0 e0 s3 l0

BL 7 : 16/11/78, Russian, 211.96 m
(cm)

- 0- 41 Very fibrous chocolate brown firm monocot peat
Th^①₃ Sh1
n3 s0 e1 s3 l0
- 41- 64 Slightly fibrous, moist humified monocot peat with sand
Th^②₃ Sh1 Ga+
n3 s0 e2 s2+ l0

- 64-158 Fibrous moist humified monocot peat with Birch wood at 80-90 cm.
Th^③₂ Sh₂ D_l+ Dh+ Th+ Ga+
n₃ s₀ e₁ s₂ l₀
- 158-196 Fibrous Eriophorum peat + detritus wood
Th^②₃ Sh₁ D_l+ Dh+ Th+
n₃ s₀ e₁ s₂ l₀
- 196-270 Highly humified moist monocot peat with much wood concentrated at 227-233 cm, 243-250 cm, pine cones at 248-255 cm. Large piece tree root at 250-262 cm.
Th^④₁ Sh₃ D_l+ T_l+
n₄ s₁ e₀ s₂ l₀
- 270-281 Wood (sample taken)
D_l4
l₄
- 281-396 Highly humified Monocot/Detritus peat + wood 281-360 cm.
Th^④₁ D_l+ Dh+ Sh₃
n₃ s₃ e₁ s₂ l₀
- 396-413 Slightly silty highly humified monocot peat
Th^③₁ Sh₂ Ag₁
n₃ s₂ e₁ s₃ l₂
- 413-421 Dark grey organic silt
Ag₂ L_d^④₁ Dh₁
n₂₊ s₁ e₀ s₂ l₁
- 421-425 Sandy gravel
Ga₃ Gg₁ L_d^④₊
n₂ s₀ e₀ s₃ l₂
- 425-450 Dark Grey silt/sand
Ag₃ Ga₁ Dh+ LD^④₊
n₂ s₁ e₀ s₃ l₀

BL 8 : 8/11/78, Russian, 212.77 m
(cm)

- 0-113 Fibrous monocot peat
 Th^②₂ Sh₂ Tb(Sphag.)⁺
 n₃ s₀ e₃ s₃ l₀
- 113-262 Mixed monocot/Sphagnum peat + woody detritus.
 Slightly fibrous
 Th^②₂ Tb^②₁ Sh₁ D_l⁺
 n₃ s₁ e₂ s₃ l₀
- 262-300 Mixed Sphagnum/monocot peat
 Tb^②₂ Th^②₁ Sh₁ D_l⁺
 n₃ s₁ e₁ s₂ l₀
- 300-458 Sphagnum peat
 Tb^②₃ Sh₁ Th⁺
 n₂ s₁ e₁ s₃ l₀
- 458-540 Mixed Sphagnum/monocot peat incl. bands of Eriophorum
 Tb^③₁ Th^③₁ Sh₂ Dh⁺
 n₃ s₁ e₁ s₂ l₀
- 540-550 Sphagnum peat (as above 300-458 cm)
- 550-632 Well humified monocot peat
 Th^③₁ Dh⁺ Sh₃ D_l⁺ Ag⁺
 n₃ s₃ e₁ s₃ l₁
- 632-640 Brown organic silt
 Ag₂ Ga₂ Ld^④₊ Th⁺
 n₃ s₀ e₀ s₃ l₁
- 640-654 Grey silt
 Ag₃ Ga₁ Ld^④₊
 n₂ s₀ e₀ s₃ l₁
- 654-700 Grey organic clay/silt
 As₁ Ag₂ Ga₁ Dh⁺ Ld^④₊
 n₂ s₀ e₀ s₂ l₀

BL 9 : 28/11/78, Russian, 213.4 m

(cm)

- 0- 41 Mixed Sphagnum/monocot peat, slightly fibrous
with Calluna roots and small amounts of Eriophorum
Tb^①₂ Th^①₁ Sh₁
n3 s0 e3 s3 l0
- 41-125 Fibrous monocot peat with humified Sphagnum
Th^①₂ Sh₂ Tb^②₊ Dh+(Calluna)
n3 s0 e1 s3 l0
- 125-200 Felted well humified monocot peat + trace Sphagnum
Th^②₁ Sh₃ Tb^②₊ Dh+(Calluna)
n3 s0 e1 s3 l0
- 200-230 Moist Sphagnum peat, well humified
Tb^③₁ Sh₃ Th^③₊ Dh+ D_l+
n3 s0 e0 s2 l0
- 230-338 Moist felted well humified monocot peat
Th^③₁ Sh₃ Tb^③₊ Dh+
n3 s0 e0 s2 l0
- 338-380 Moist humified Sphagnum peat
Tb^③₂ Sh₂ Th^③₊ Dh+ D_l+ T_l+
n3 s0 e0 s2 l0
- 380-470 Moist well humified felted monocot peat
Th^③₁ Sh₃ Tb^④₊ Dh+ D_l+ (Birch at 450 cm)
n3 s0 e0 s2 l0
- 470-570 Moist Sphagnum peat well humified with layers of
Eriophorum
Tb^③₂ Sh₂ Th^③₊ Dh+ D_l+ (515 cm)
n3 s0 e0 s2 l0
- 570-580 Firm sandy monocot peat
Th^③₂ Sh₂ Ga+
n3 s0 e1 s2 l0

580-600 Firm sandy highly humified peat
 Th^③1 Sh3 Ga+
 n4 s0 e0 s2 l1

600-606 Brown organic sandy silt
 Ag2 Ga2 Dh+
 n2 s0 e0 s2 l1

606-650 Grey brown organic silt
 Ag3 Ga1 Dh+
 n2 s0 e0 s2 l0

BL 10 : 9/11/78, Russian, 214.3 m
 (cm)

0- 55 Highly humified, felted, dark brown monocot peat.
 Fibrous
 Th^③1 Sh3 Dh+
 n3⁺ s2 e3 s3 l0

55-145 Mixed Sphagnum monocot peat, less humified than 0-55 cm.
 Tb^②2 Th^②1 Sh1 Dh+
 n3 s1 e2 s2 l0

145-212 Sphagnum peat
 Tb^②3 Sh1 Th^②+ Dh+
 n3 s2 e2 s2 l0

212-320 Mixed Sphagnum/monocot with considerable wood
 Th^②1 Tb^②2 Sh1 Dh+ Dl++ (Birch and Alder at 335 cm)
 n3 s2 e1 s2 l0

320-355 Moist monocot/Sphagnum peat with detritus wood
 Th^③1 Tb^③1 Sh2 Dl++ Dh+
 n3 s3 e0 s2 l0

355-376 Eriophorum peat + wood
 Th^③2(E) Sh2 Dl++ Dh+
 n3 s2 e0 s2 l0

- 376-411 Detritus peat with considerable wood and some
monocot remains
Dh2 Th^③1 Ld^④1 Dℓ++ Tb^③+ (sphag.)
n3 s2 e1 s2 ℓ0
- 411-415 Wood section
Dℓ4
ℓ4
- 415-459 Very humified woody monocot peat
Th^③1 Sh3 Dℓ++ Dh+
n3 s2 e1 s2 ℓ2
- 459-461 Gravel + sand
Ga2 Gg2
n1 s0 e0 s3 ℓ0

BL 11 : 16/11/78, Russian, 212.23m
(cm)

- 0- 26 Firm dry moderately fibrous monocot peat
Th^①3 Sh1
n3 s0 e2 s3 ℓ0
- 26- 96 Moist fibrous monocot peat
Th^②2 Sh2
n3 s0 e2 s2 ℓ0
- 96-155 Moist moderately humified, monocot peat with traces
of wood
Th^②2 Sh2 Dℓ+
n3 s0 e1 s2 ℓ0
- 155-254 Well humified monocot/Sphagnum
Th^③1 Sh3 Tb^④+
n3 s1 e0 s2 ℓ0
- 254-304 Well humified felted monocot peat
Th^③1 Sh3 Dℓ+
n3 s1 e3 s2 ℓ0

- 304-356 Sphagnum peat well humified
 Tb^③1 Sh3 Th^③+ Dℓ+
 n3 s1 e1 s2 ℓ0
- 356-461 Monocot peat, well humified
 Th^③1 Sh3 Tb^③+ Dℓ+ Tℓ+ (Root at 450 cm)
 n3 s0 e1 s2 ℓ0
- 461-603 Humified, moist, monocot peat
 Th^④1 Sh3+ Dℓ+ Dh+
 n3⁺ s1 e0 s2 ℓ0
- 603-611 Slightly silty monocot peat, highly humified
 Th^④1 Sh3 Ag+ Dh+
 n3 s1 e0 s3 ℓ2
- 611-624 Brown silt with slight organic content
 Ag4 Ld^④+ Th^④+ Ga+
 n2+ s1 e0 s3 ℓ2
- 624-650 Grey/brown silt, slight organic content
 Ag4 Ga+ Ld^④+ Th^④+
 n2 s1 e0 s3 ℓ0

BL 12 : 14/11/78, Russian, 212.16 m
 (cm)

- 0- 10 Mixed Sphagnum monocot peat
 Tb^①2 Th^①1 Sh1 Ga+
 n3 s1 e4 s3 ℓ0
- 10- 26 Dry dark brown well-humified monocot peat. Med.
 crumbly, slightly felted.
 Th^③1 Sh3 Tb+ Ga+
 n3 s2 e3 s3 ℓ0
- 26-100 Moist well humified, felted, monocot peat
 Th^③1 Sh3 Ga+
 n3 s1 e1 s2 ℓ0
- 100-117 Sphagnum peat
 Tb^②3(Sphag) Th^②1 Sh+
 n3- s1 e2+ s2 ℓ0

- 117-404 Well humified monocot peat. Felted.
1st. frag. of wood at 18 6 cm. Scattered minor
frags. to 404 cm. when more wood appears.
Th^③1 Sh3 D_l+
n3+ s2 e1 s2 l0
- 404-424 Well humified monocot peat with wood fragments.
Th^④1 Sh3 D_l++
n4 s1 e1 s2 l0
- 424-500 Well humified, firm monocot peat. Occasional
wood fragments.
Th^③1 Sh3 D_l+
n3 s1 e2 s2 l0
- 500-510 Woody highly humified monocot peat
Th^④1 Sh3 D_l++
n4 s1 e1 s2 l0
- 510-521 Well humified monocot peat
Th^③1 Sh3
n3 s1 e1 s2 l0
- 521-551 Fluid organic mud
Sh4 Th^④+
n3 s0 e0 s1 l1
- 551-565 Grey silt
Ag4 Ld^②+
n2 s0 e0 s3 l1
- 565-638 Brown organic silt - considerable amount of
reed/sedge remains
Ag2 Th^②1 Sh1
n2 s2 e0 s3 l1
- 638-650 Grey/brown organic silt
Ag3 Th^②1 Sh+
n2 s2 e0 s2 l1

BL 12(a) : 1/2/79, Russian, 212.16m
(Sample core. Stratigraphic description p52,
volume 1)

BL 13 : 28/11/78, Russian, 212.39 m

(cm)

- 0- 15 Slightly fibrous monocot peat (Calluna remains),
humified and dry
Th^①₃ Sh1
n3 s0 e4 s3 l0
- 15- 38 Finely felted well humified dry monocot peat
Th^③₁ Sh3
n3 s1 e2 s3 l0
- 38- 72 Moist, felted, well-humified monocot peat
Th^③₁ Sh3 Dh+
n3+ s2 e1 s2 l0
- 72-121 Fibrous monocot peat
Th^②₂ Sh2 Dh+
n3 s0 e1 s2 l0
- 121-160 Moderately humified monocot peat. Trace of Sphagnum
Th^②₂ Sh2 Tb^③₊ Dh+
n3 s0 e1 s2 l0
- 160-210 Eriophorum peat
Th^②_{3(E)} Sh1 D_l+
n3 s0 e0 s2 l0
- 210-288 Monocot peat, narrow bands of fibrous Eriophorum
and considerable detritus material. Small amount
of wood at 242 cm. Heavier concentration (including
roots) from 255-288 cm.
Th^②₂ Dh1 Sh1 D_l++ Dh+
n3 s2 e1 s2 l0
- 288-320 Greasy highly humified peat. Fragments of charcoal.
Sh4 Th^③₊ Dh+ D_l+ Charcoal+
n3 s2 e0 s2 l0
- 320-356 Well humified monocot peat - traces of charcoal.
Th^③₁ Sh3 Dh+ D_l+ Charcoal+
n3+ s2 e0 s2 l0

356-370 Firm monocot peat with traces of sand
 Th^③1 Sh3 Ga+ Dh+ D&l+
 n3 s2 e0 s2 l0

370-373 Sandy gravel
 Ga2 Gg(maj)2
 n1 s0 e0 s2 l0

BL 14 : 14/11/78, Russian, 213.08 m
 (cm)

0- 28 Felted monocot peat
 Th^①3 Sh1
 n3 s0 e3 s3 l0

28- 55 Well humified moist monocot peat, mainly felted
 Th^③1 Sh3
 n3 s1 e2 s2 l1

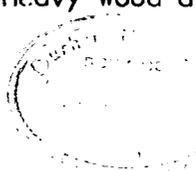
55-104 Moderately humified monocot peat with fibrous "sedge"
 roots. Otherwise felted fine roots.
 Th^②3 Sh1 Dh+ Tb+ (Sph. ag)
 n3 s1 e3+ s2 l0

104-120 Sphagnum peat
 Tb^②(Sphag)3 Sh1 Th^②+ Dh+
 n3 s2 e2 s2 l0

120-202 Well humified monocot peat (incl. Eriophorum).
 Wood (Birch, Alder) common after 130 cm.
 Th^③3 Sh1 D&l+ Dh+
 n3 s1 e1 s2 l0

202-255 Banded monocot/Sphagnum peat with considerable wood
 detritus. Some Eriophorum.
 Th^③2 Sh2 Tb++(Sphag.) D&l+ Dh+
 n3 s2 e1 s2 l0

255-320 Heavy humified, fine felted monocot peat with much
 detritus wood - mainly birch. (Heavy wood at 265 cm.)
 Th^④1 Sh3 D&l++ Dh+
 n3+ s2 e1 s2 l0



- 320-338 Heavily humified monocot peat with faint root traces in moist organic matrix. Much wood detritus - heavy at 324 cm.
Sh4 Th^④+ Dℓ+
n3 s2 e1 s2 ℓ1
- 338-344 Brown sandy silt + organic matter
Ga2 Ag1 Ld^④1 Dh+
n2 s0 e0 s3 ℓ1
- 344-350 Grey gravelly sandy silt
Gg1 Ga2 Ag1 Ld^④+
n2 s0 e0 s3 ℓ0
- BL15 : 14/11/78 Russian, 213.17 m
- (Cm) Mixed Sphagnum monocot peat
- 0- 9 Tb^①2 Th^①2 Sh+
n2 s0 e3+ s3 ℓ1
- 9- 37 Monocot peat moderately fibrous
Th^②2 Sh2
n3 s0 e3- s3 ℓ0
- 37- 76 Fibrous, well humified monocot peat, plus detritus wood
Th^③2 Sh2 Dℓ+
n3+ s0 e1 s2 ℓ0
- 76-120 Very moist, well humified fibrous monocot peat with detritus birch/alder particularly between 100-120 cm. Large piece birch resting in sandy gravel at boundary. Fragment of tree root at 107 cm.
Th^③2 Sh2 Tℓ+ Dℓ+
n3 s0 e0 s2 ℓ3 (wood)
- 120-150 Sandy gravel plus trace of organic content (Dh)
Ga3 Gg1 Ld^④+ Dh+
n2 s1 e0 s3 ℓ1
- 150-168 Slightly organic silt
Ag4 Ld^④+
n1 s0 e0 s3 ℓ0
- 168-174 Sandy silt
Ga2 Ag2 Ld^④+
n1 s0 e0 s3 ℓ0