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2nd of 2 files

Photos and Pullouts from

**Aspects of the Flandrian vegetational history of south-west
Scotland, with special reference to possible Mesolithic
impact**

by P. J. Newell

A thesis submitted to the
Faculty of Science
of the
University of Birmingham
for the degree of
DOCTOR OF PHILOSOPHY

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Birmingham
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England
August 1990

PHOTOGRAPHS I - XII

PHOTOGRAPHS I - II

PHOTOGRAPHS III - IV



I, Pine stumps exposed on the south-west shore of Clatteringshaws Loch,
(July 1986,)



II, The figures to the south are by the site of Loch Dee Road I profile,
(April 1986,)

PHOTOGRAPHS III - IV



III, The notch into the peat face signifies the position of the Loch Dee Road I monolith, (April 1986,)



IV, The southern end of Loch Doon and the Gala Lane inflow, (April 1986,)



V, The southern end of Loch Doon and the Gala Lane inflow, Note the higher loch level than seen in Photo, IV, (July 1985,)



VI, The southern end of Loch Doon and the eroded peat cliff of the highest loch level viewed from the east, The light gable end in the middle distance is that of Starr Cottage, (July 1985,)

PHOTOGRAPHS VII - VIII

LDFSI
|



VII, The hillock by Loch Doon on which lithics were found, viewed from the northwest, The site of LDFSI is marked, (July 1985,)

LDIII
|

LDIV
|



VIII, The sites of Loch Doon III and IV seen from the northwest, Ranging poles at the sites are just discernible in the middle ground (July 1986,)



IX, The peat hag just to the south of Loch Doon I viewed from the southwest, (April 1986,)



X, The main peninsula on the east side of Loch Dee viewed from the southwest, Note the ridges on the peninsula, (August 1984,)

PHOTOGRAPHS XI - XII



XI, The eastern peninsula at Loch Dee from the southeast, Note the heather on the ridges, (August 1984,)

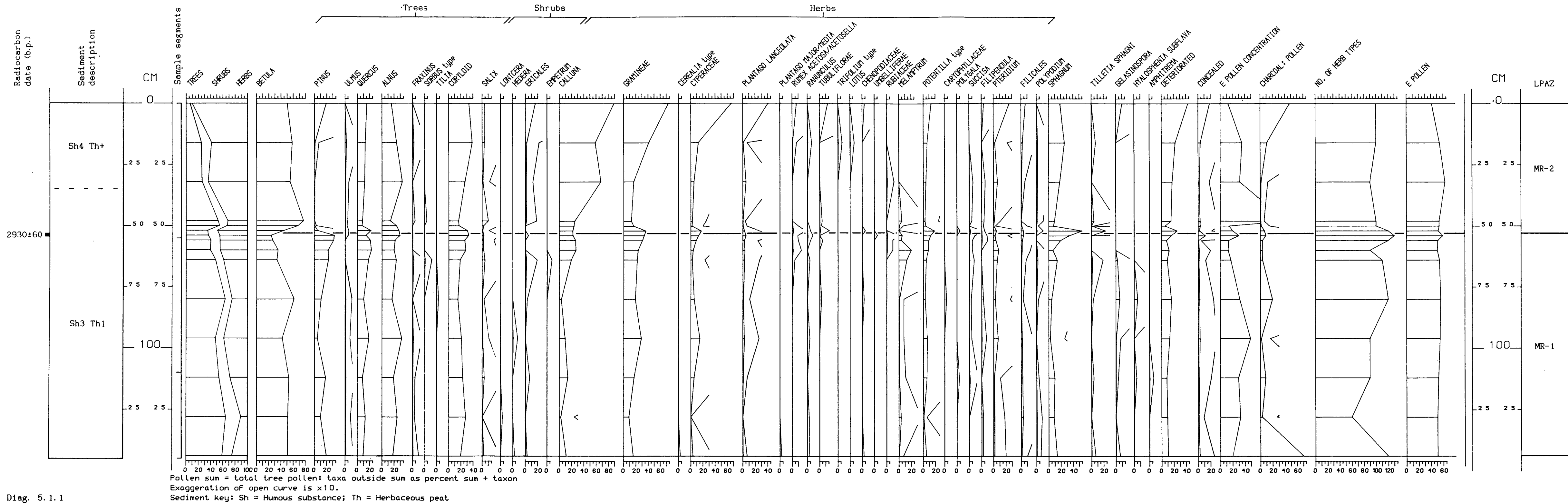
Coring site

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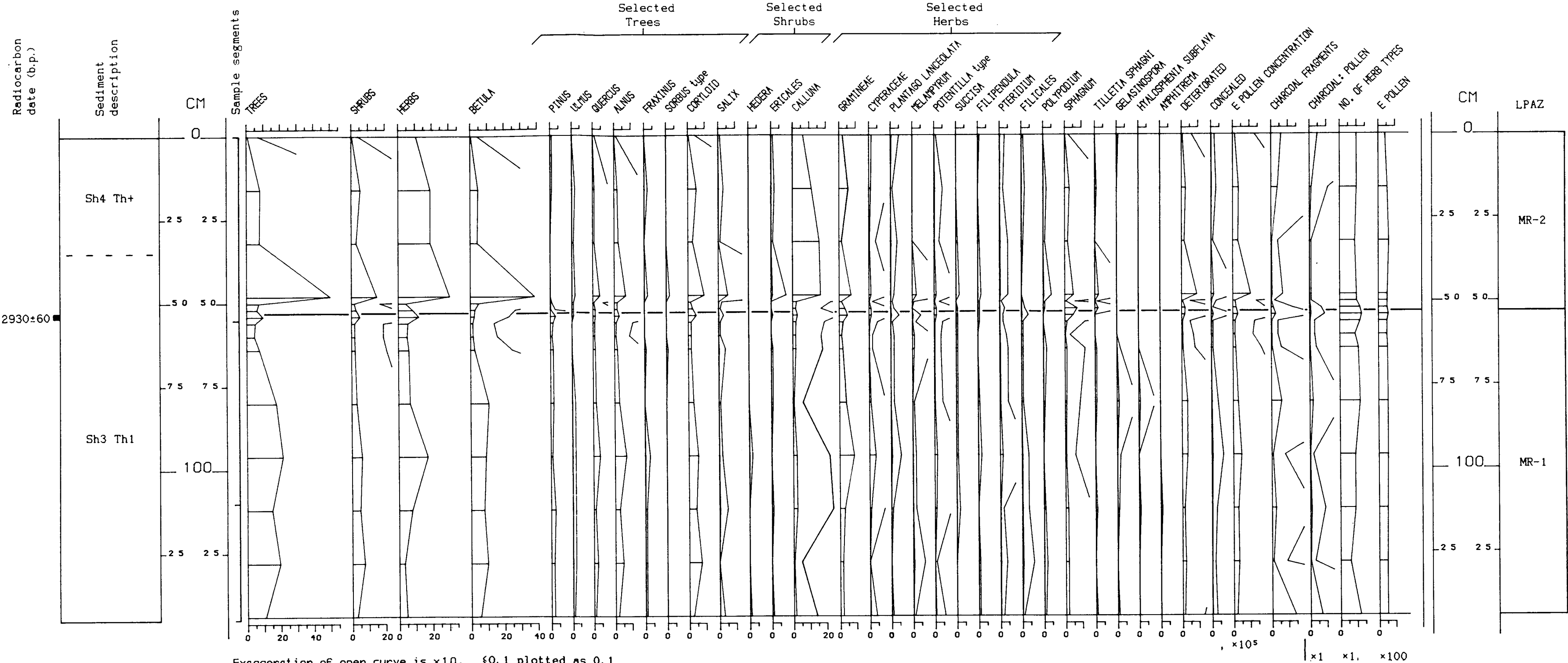
XII, The coring site of Palnure shown in relation to the present woodland edge, viewed from eastsoutheast, The second pole is 15m from the site, (April 1987,)

MOSS RAPLOCH



Diag. 5.1.1

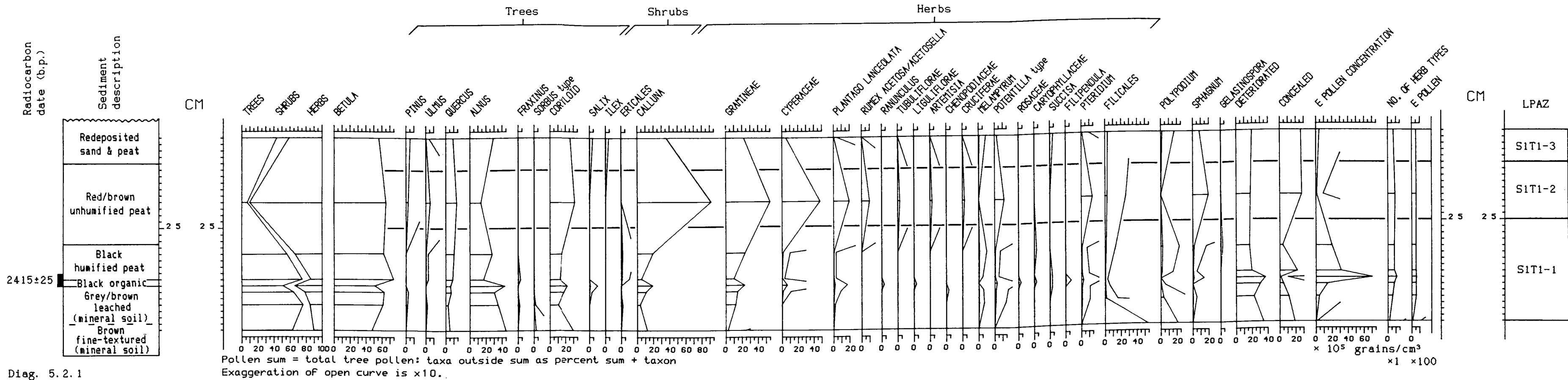
MOSS RAPLOCH



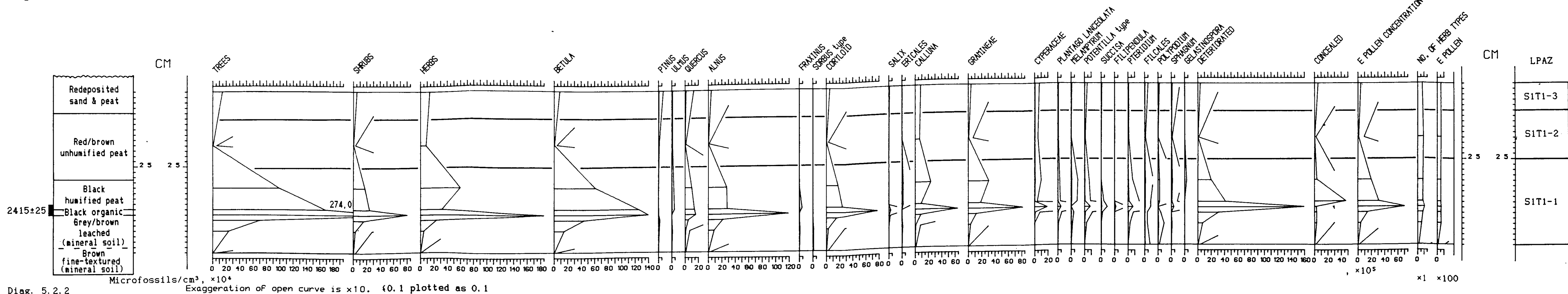
Diag. 5.1.2



STARR 1 TRENCH 1



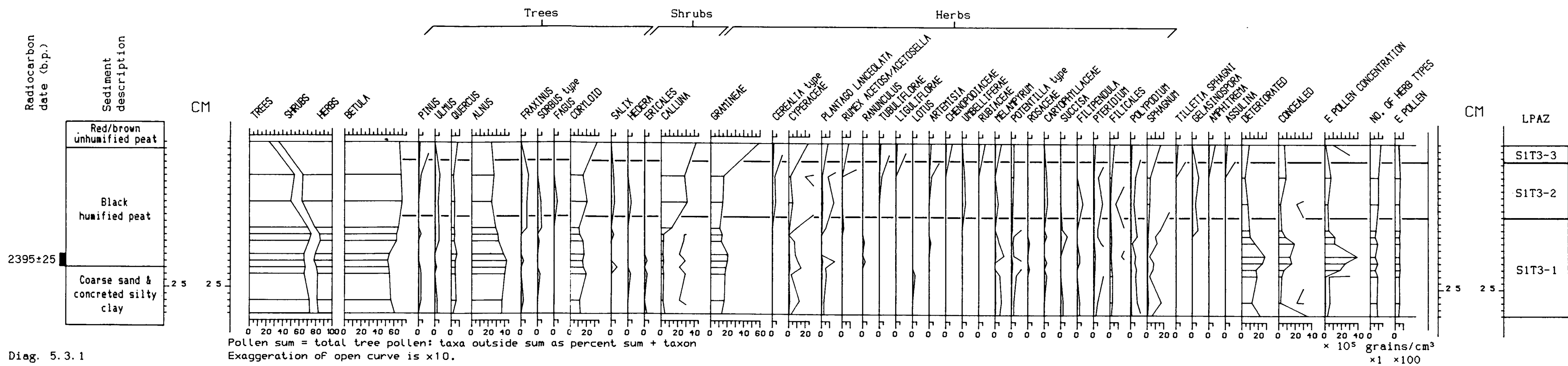
Diag. 5.2.1



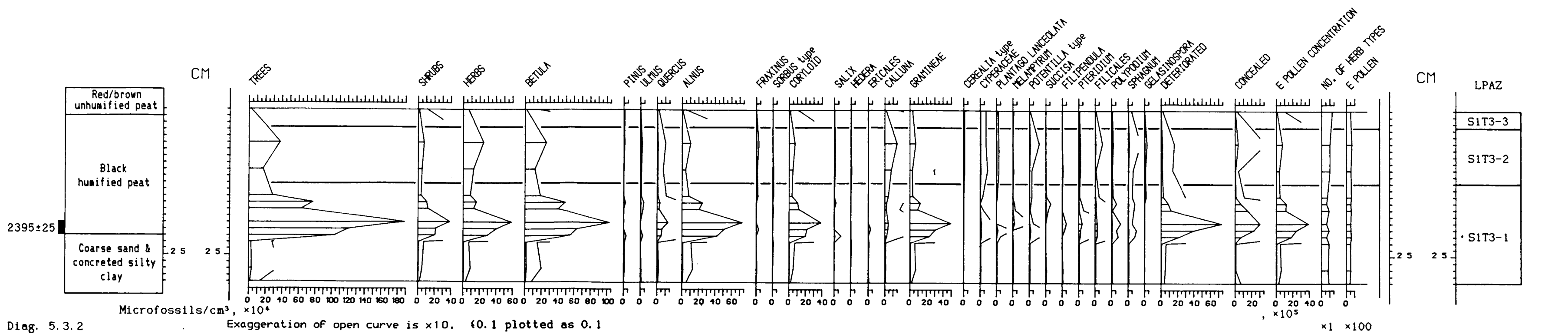
Diag. 5.2.2



STARR 1 TRENCH 3

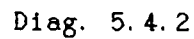
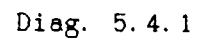


Diag. 5.3.1

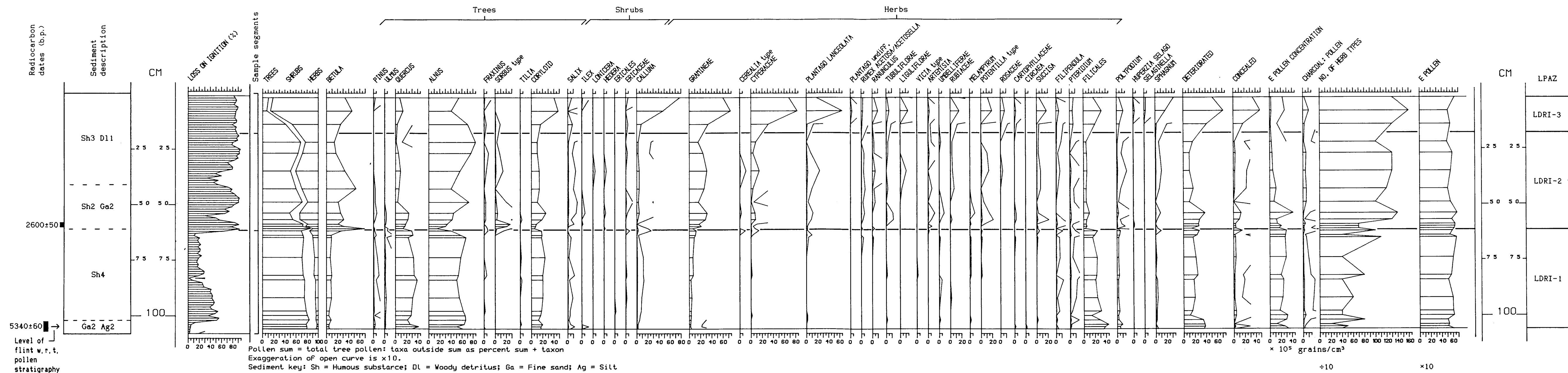


Diag. 5.3.2

STARR 1 TRENCH 4

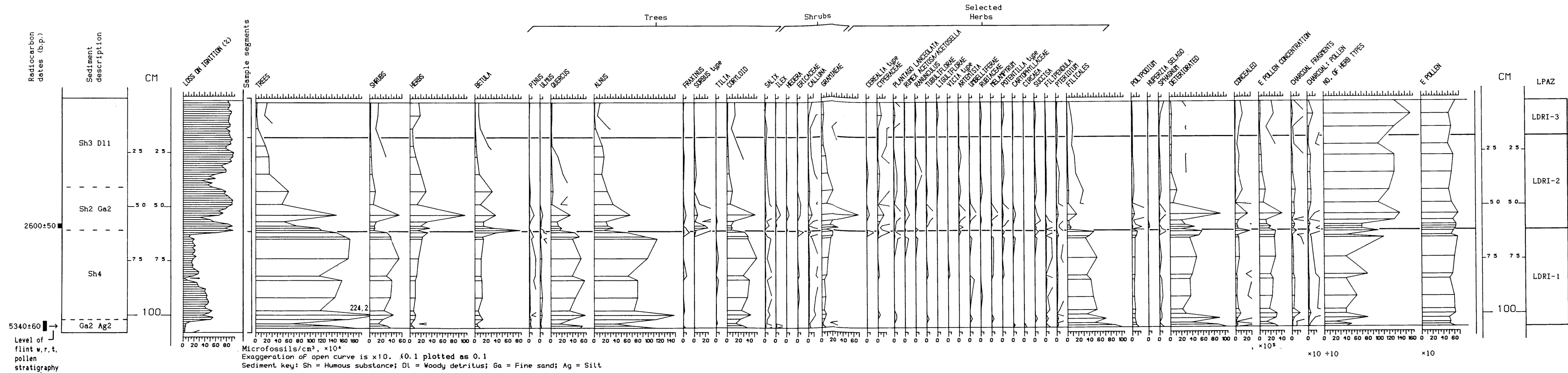


LOCH DEE ROAD I



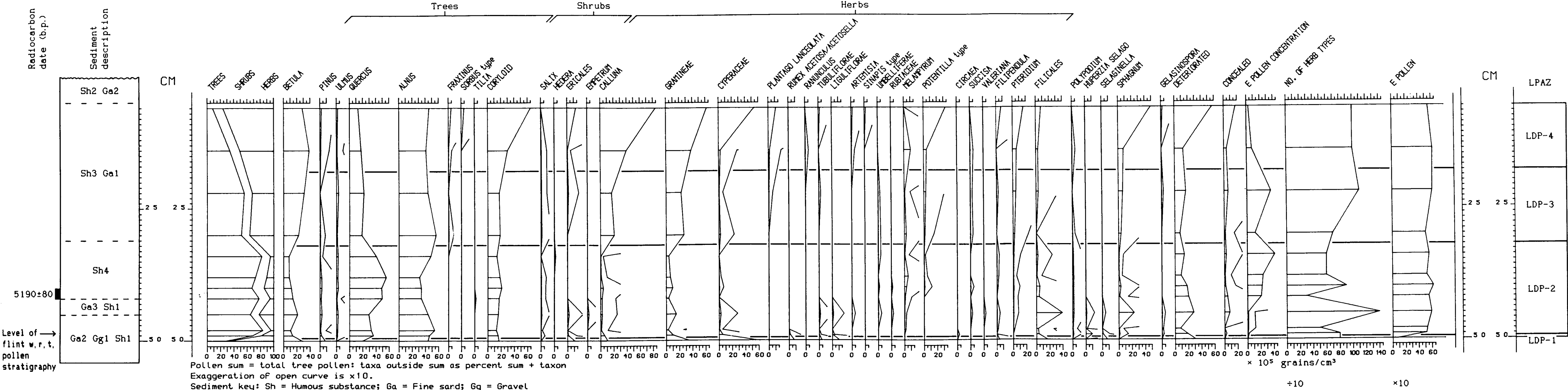
Diag. 5.5.1

LOCH DEE ROAD I



Diag. 5.5.2

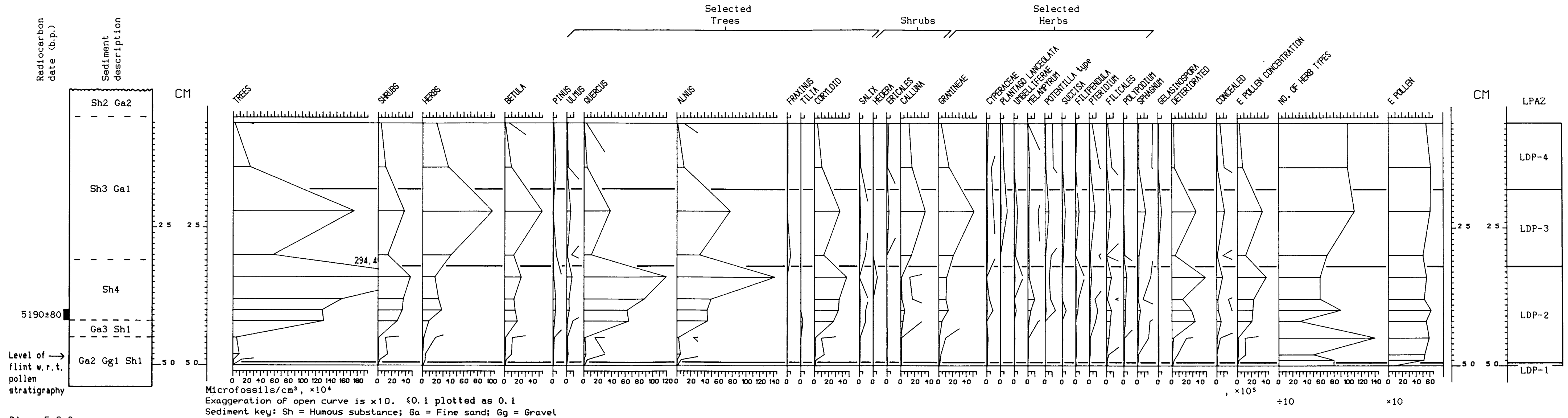
LOCH DEE PENINSULA FLINT SITE



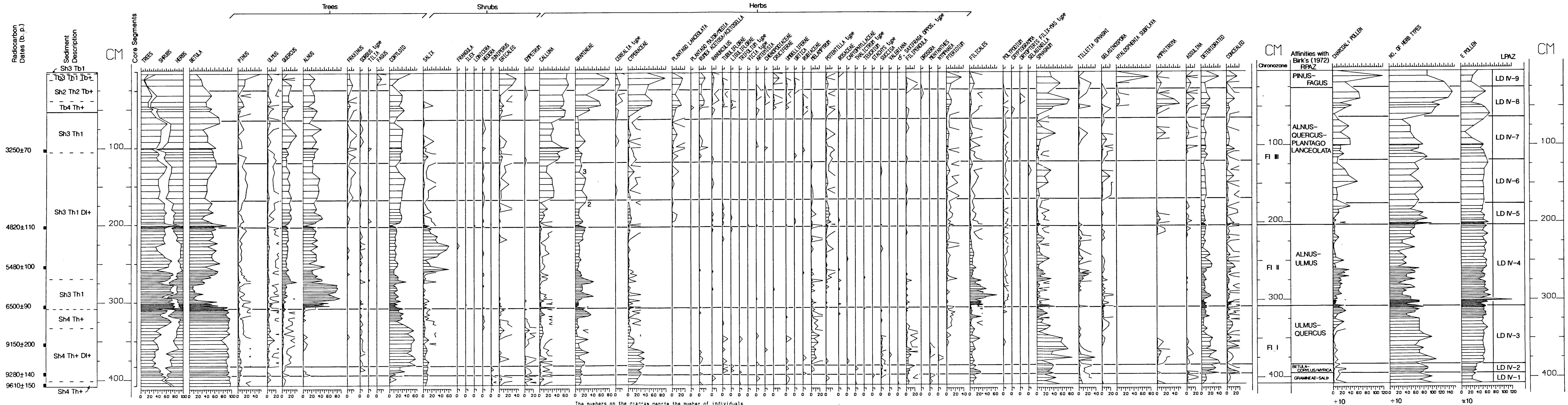
Diag. 5.6.1



LOCH DEE PENINSULA FLINT SITE



LOCH DOON IV



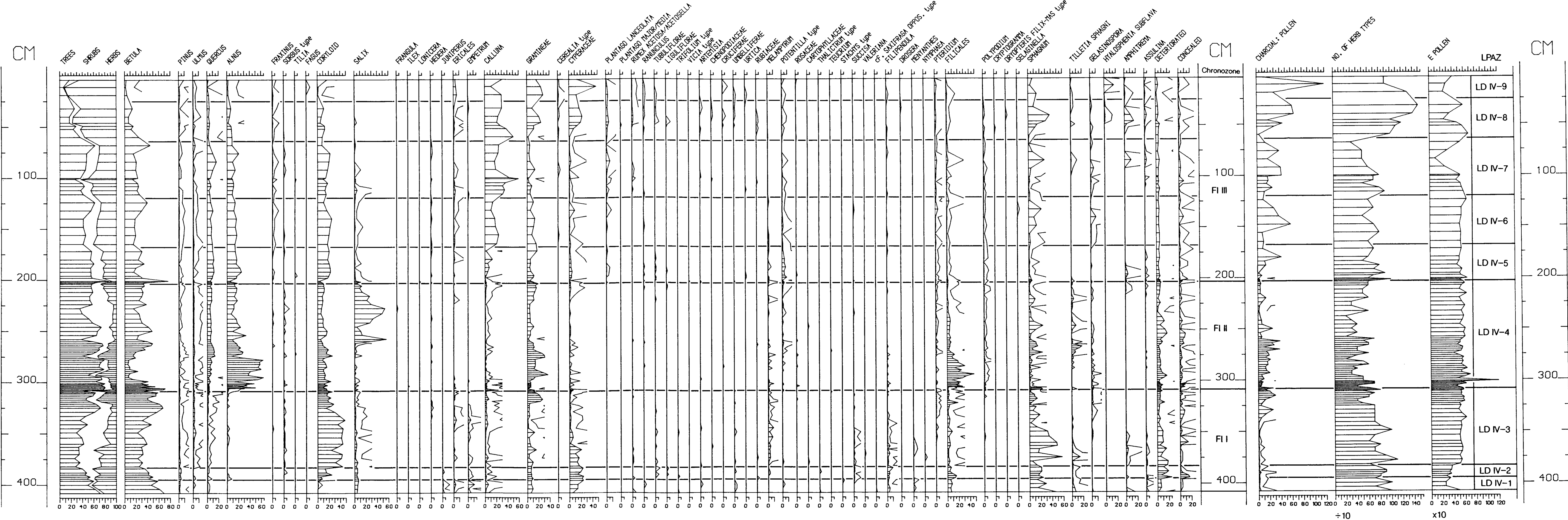
Pollen sum = total tree pollen: taxa outside sum as percent sum + taxon

Exaggeration of open curve is $\times 10$.

The numbers on the diagram denote the number of individuals within a clump of grains (for depths below 180cm, see Diag. 6, 3, 4).

Sediment key: Sh = Humous substance; Tb = Moss peat; Th = Herbaceous peat; Tl = Wood peat; Dl = Woody detritus

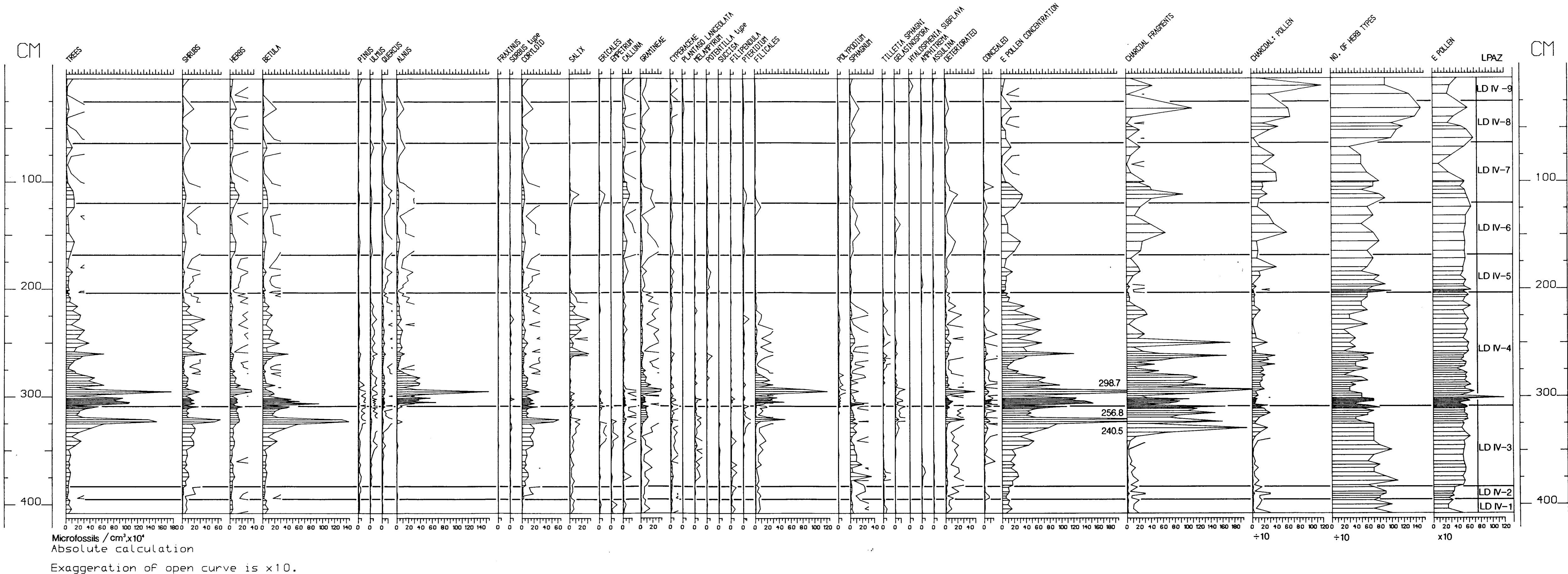
LOCH DOON IV



Pollen sum = total land plant pollen: taxa outside sum as percent sum + taxon
Exaggeration of open curve is x10.

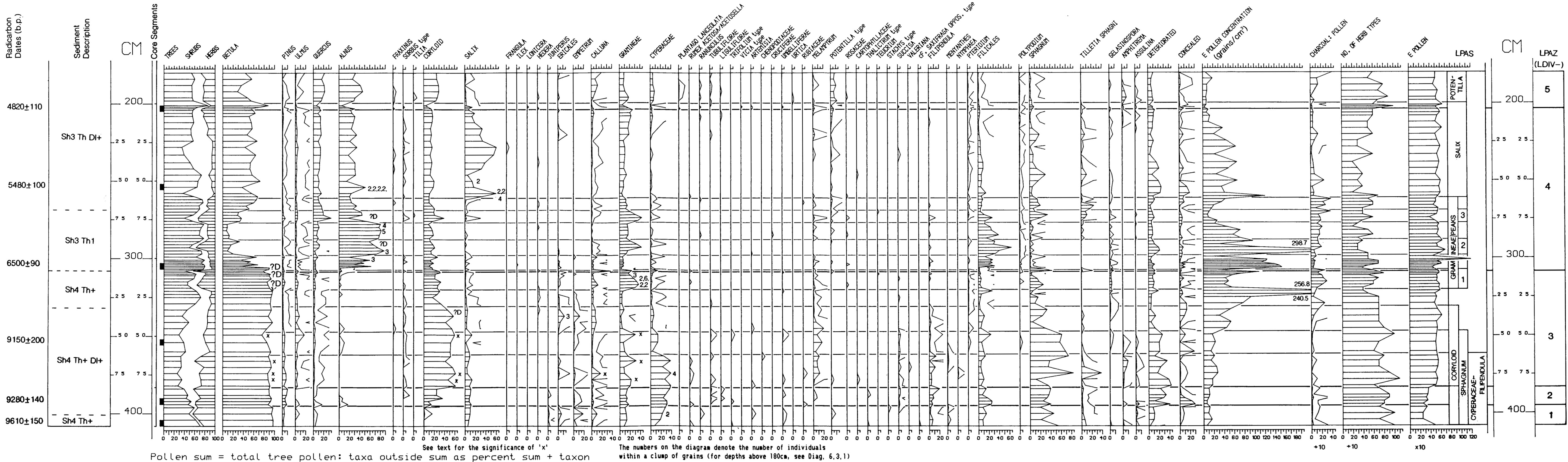
Diag. 5.3.2. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 5.3.1.

LOCH DOON IV



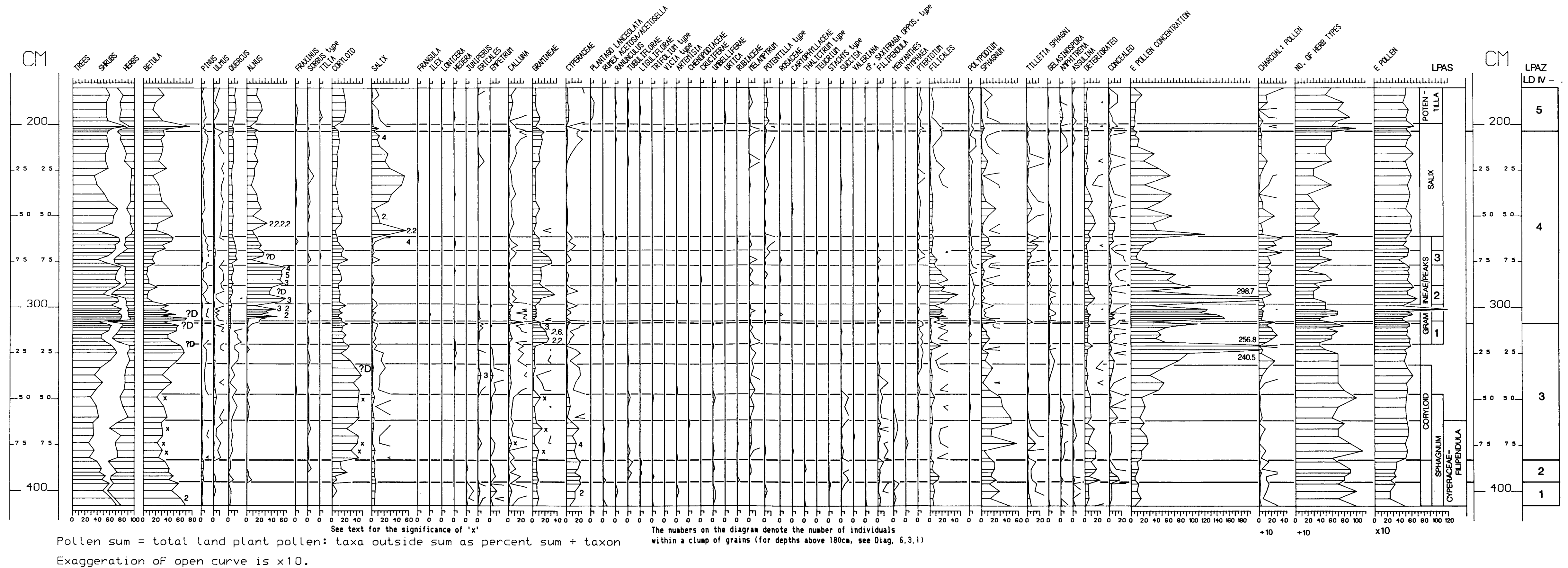
Diag. 6.3.3. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 5.3.1.

LOCH DOON IV



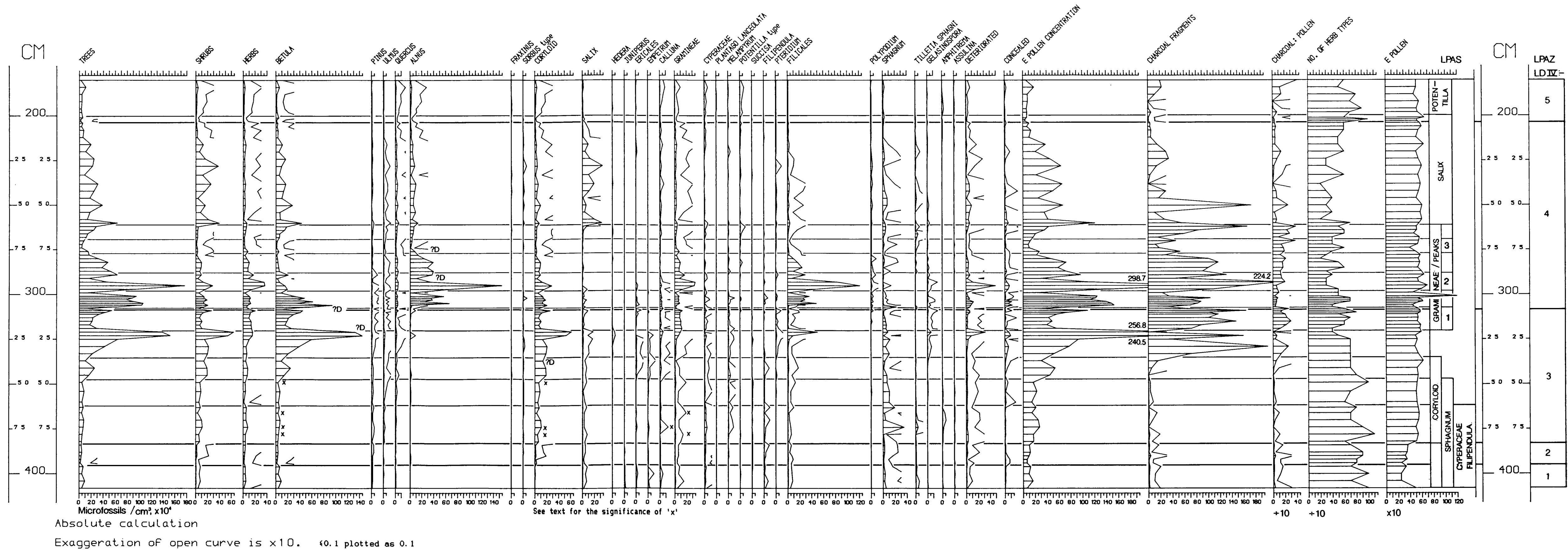
Diag. 6.3.4. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for Diag. 6.3.1.

LOCH DOON IV

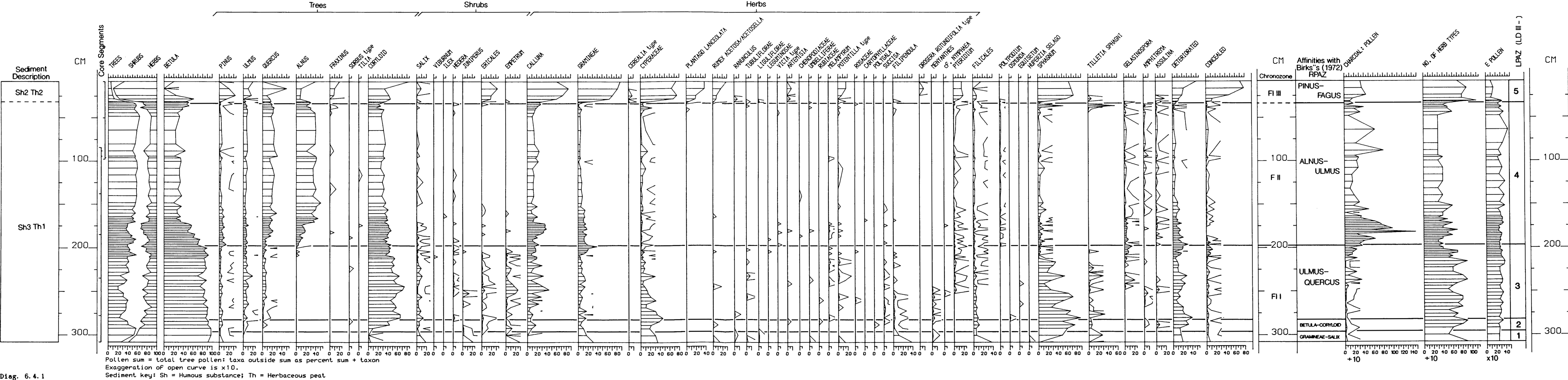


Diag. 6.3.5. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 6.3.1.

Diag. 6.3.6.

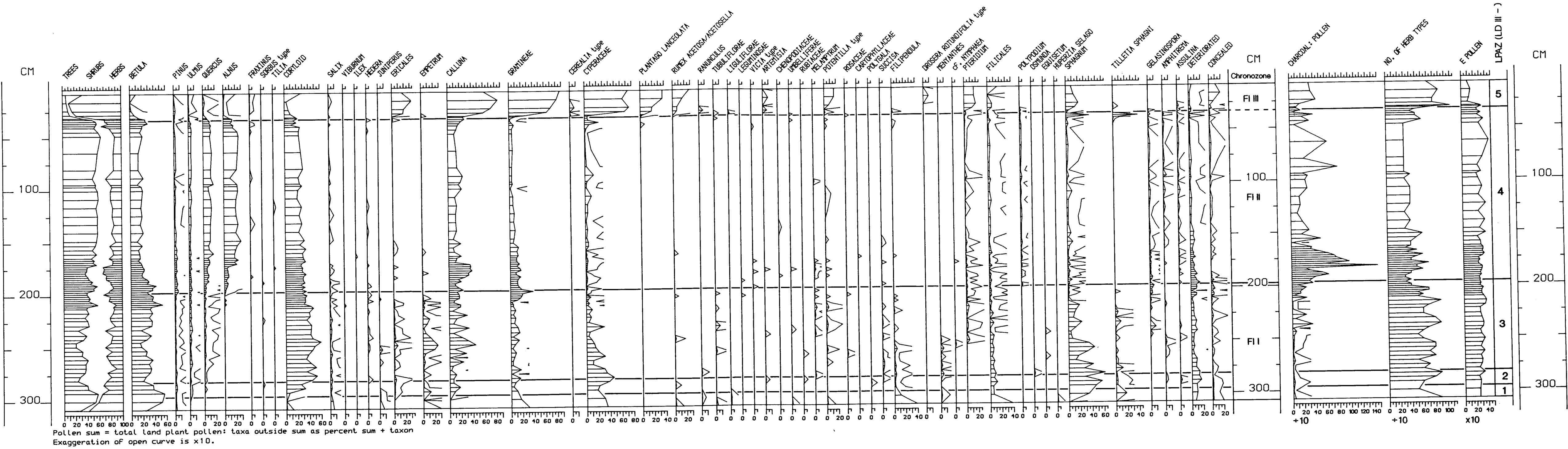


LOCH DOON III



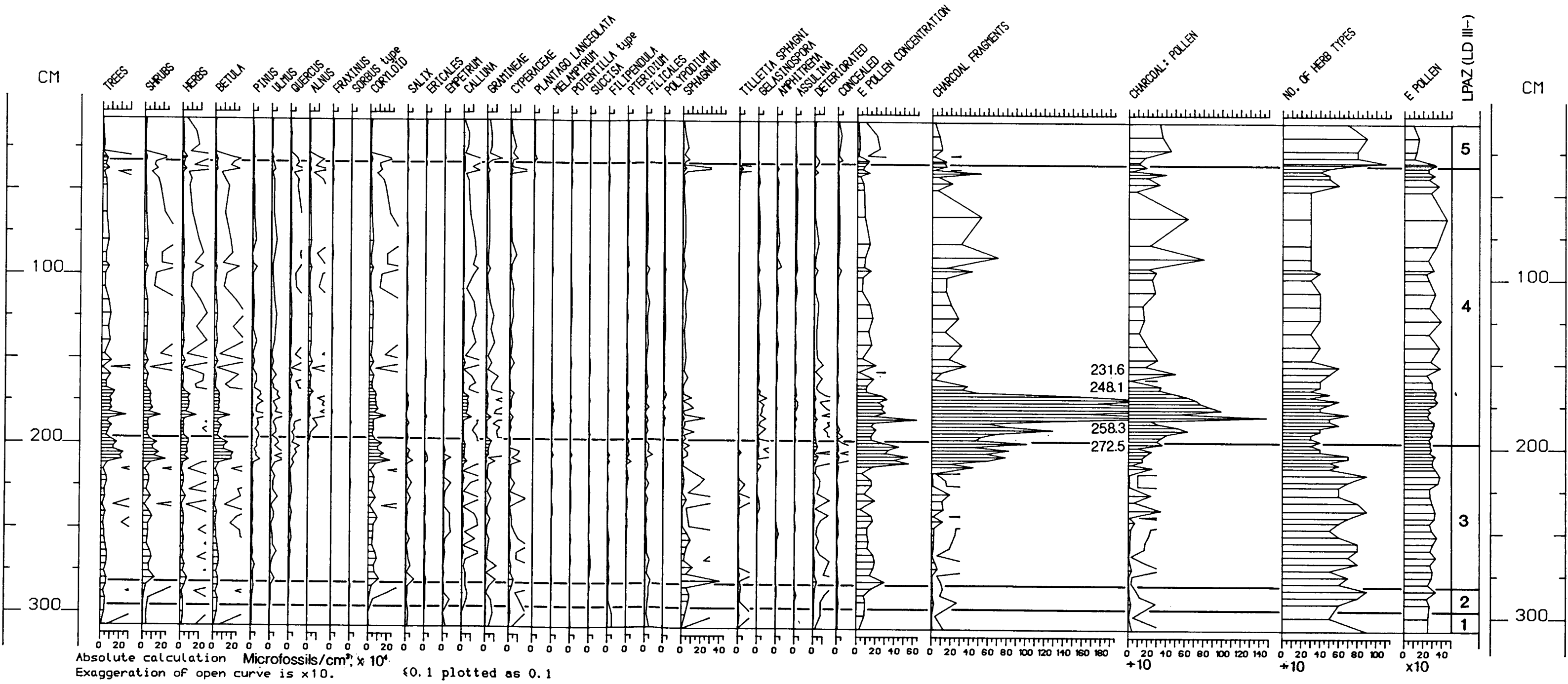
Diag. 6.4.1

LOCH DOON III



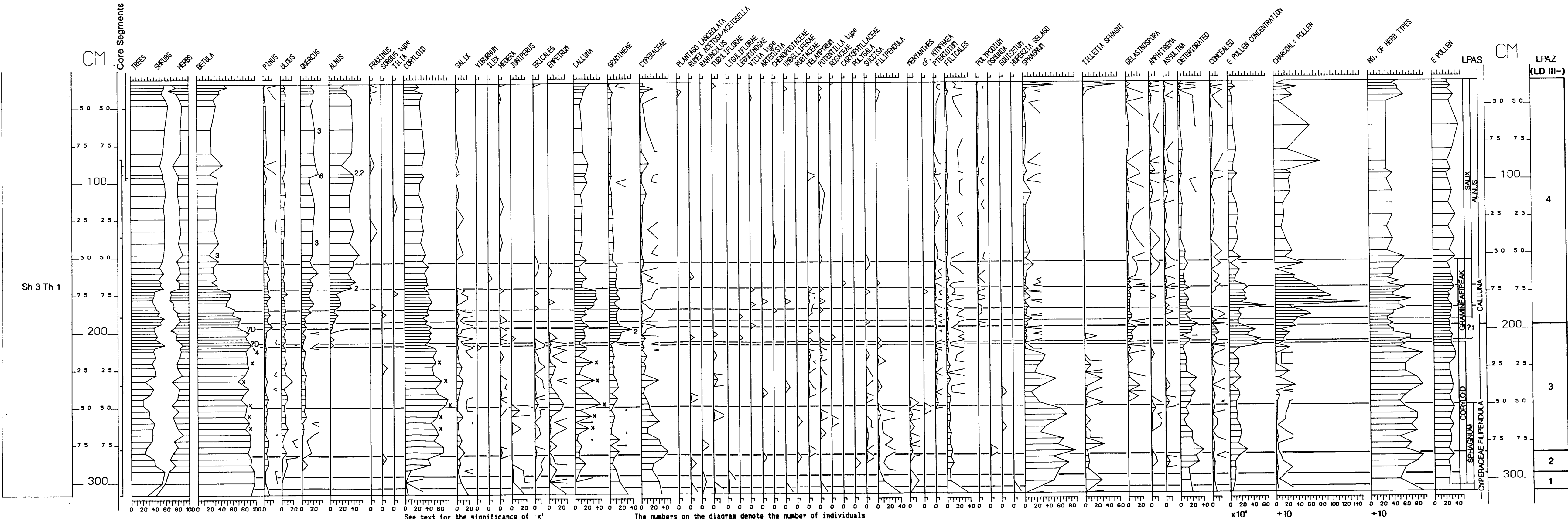
Diag. 6.4.2. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 6.4.1.

LOCH DOON III



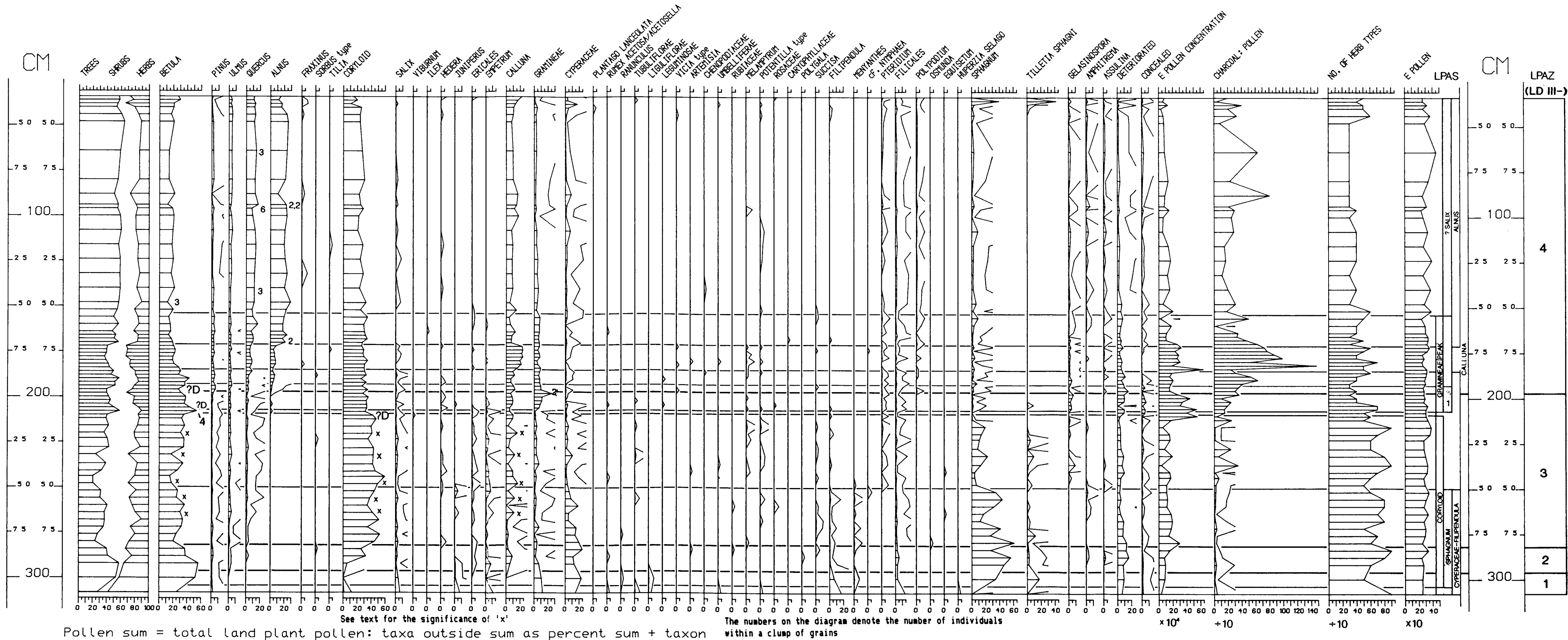
Diag. 6.4.3.

LOCH DOON III



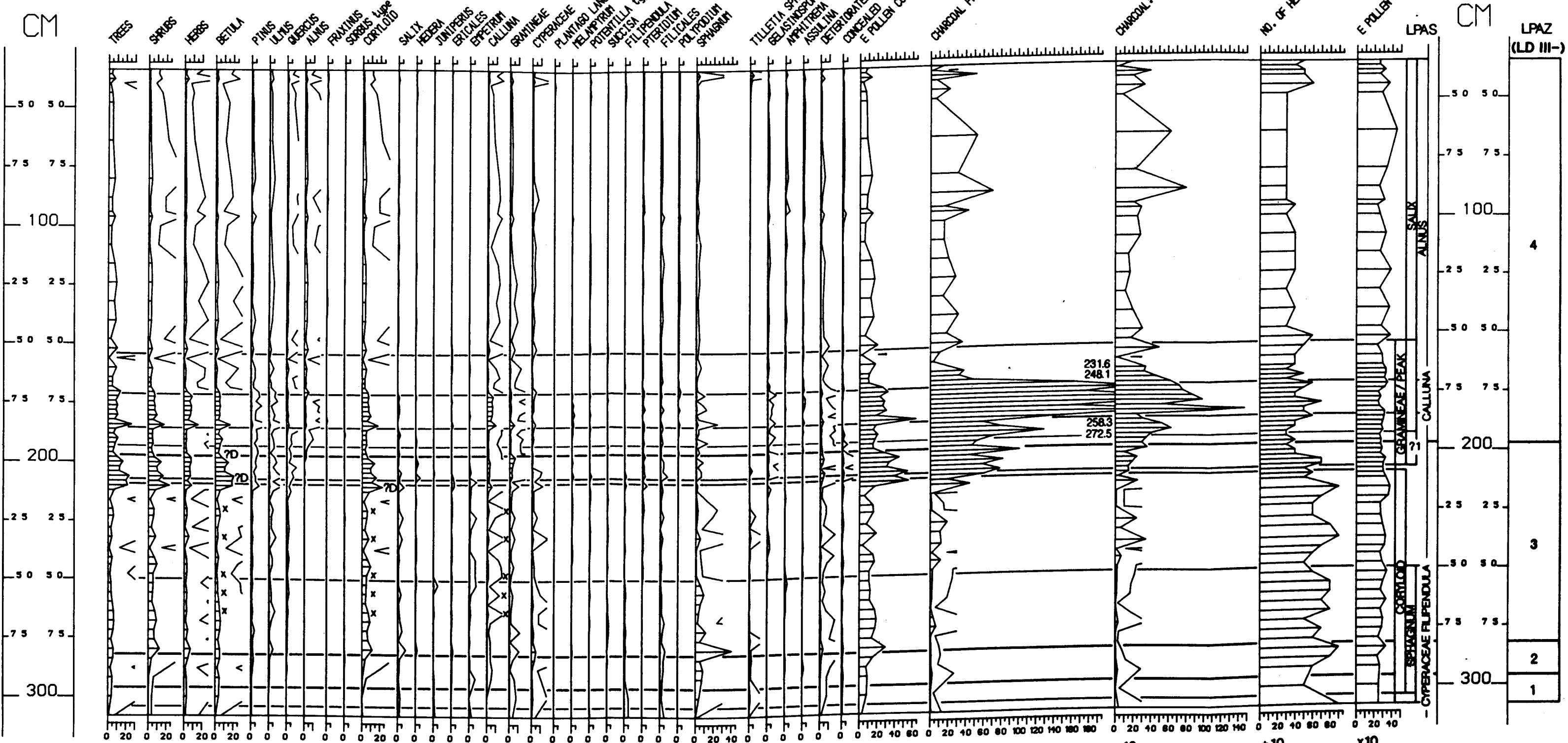
Diag. 6.4.4. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 6.4.1.

LOCH DOON III



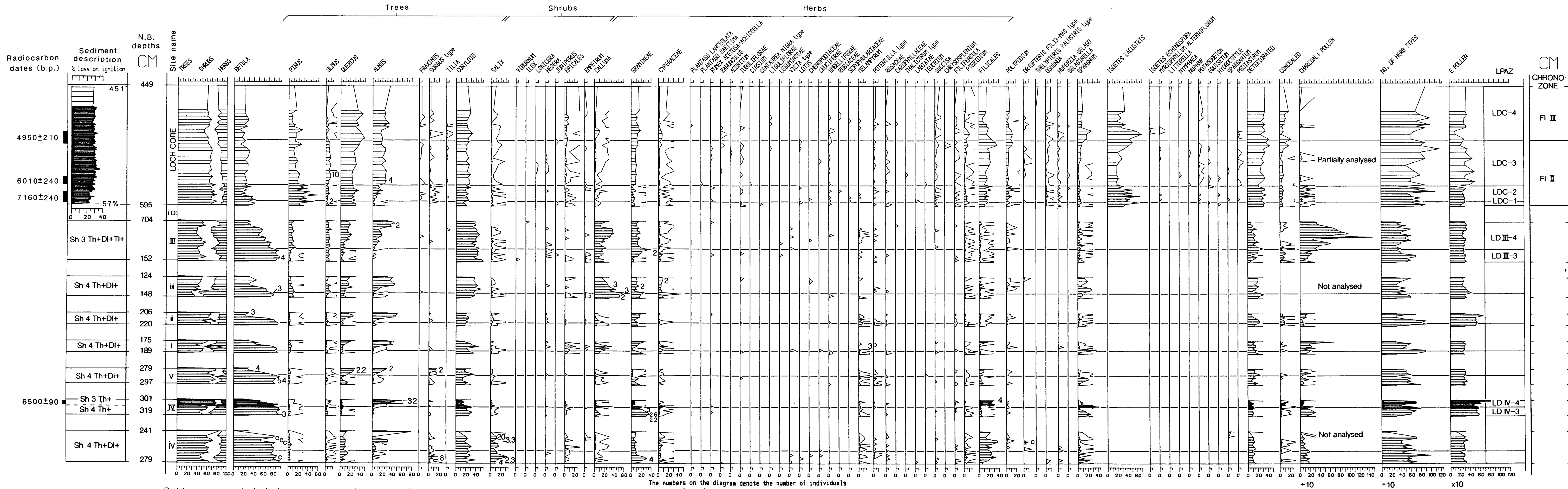
Diag. 6.4.5. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for Diag. 6.4.1.

LOCH DOON III



Diag. 6.4.6.

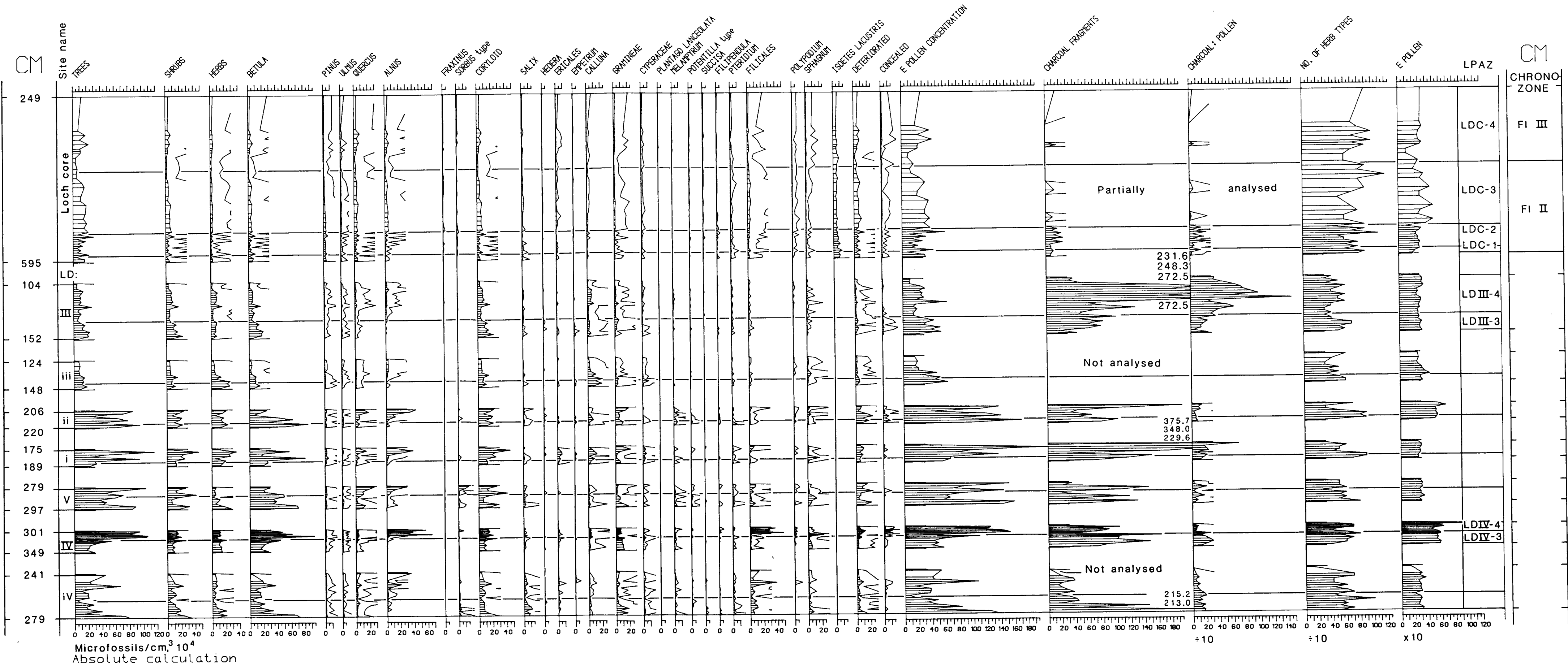
LOCH DOON, ALNUS RISE



CM

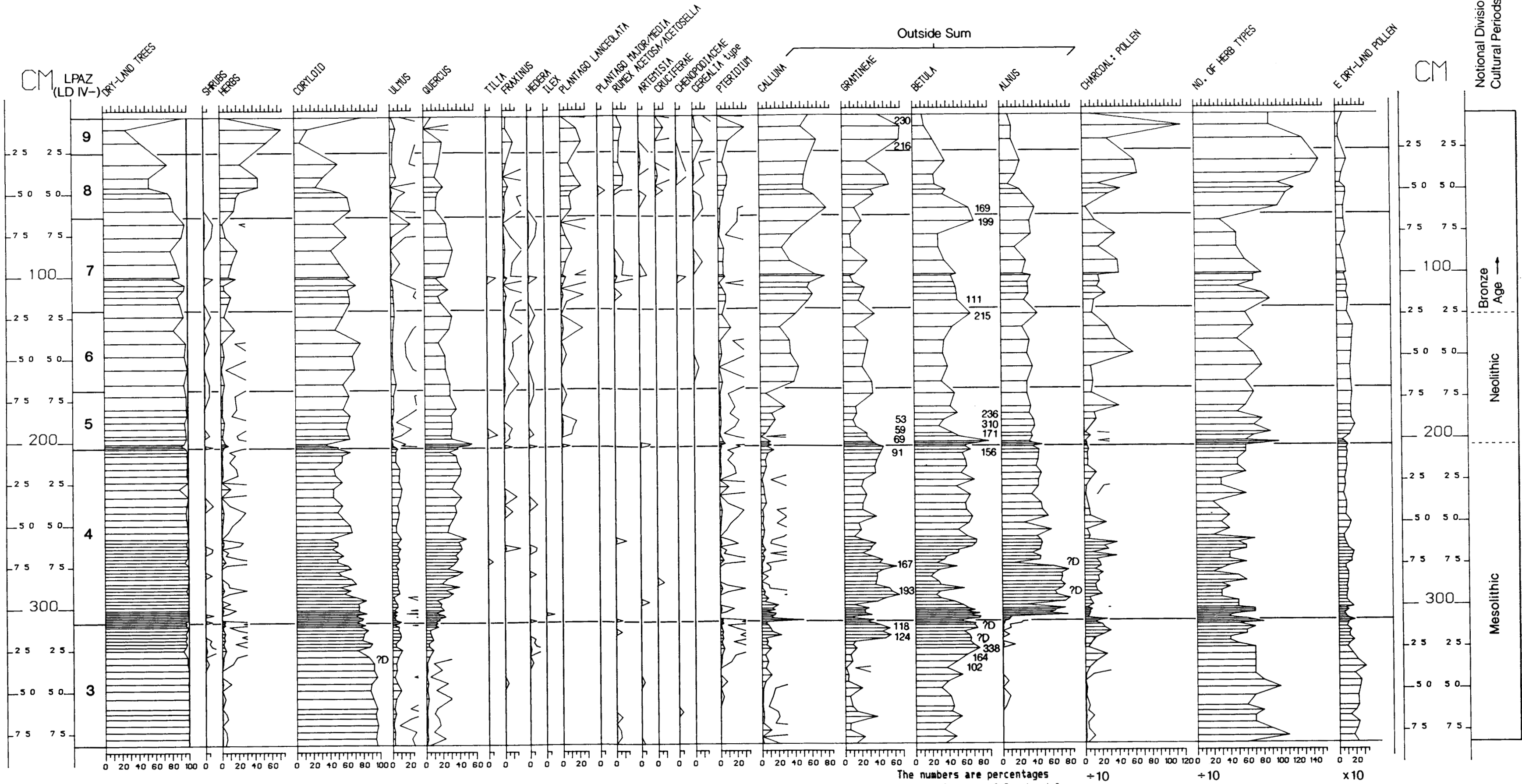


LOCH DOON *ALNUS* RISE



Diag. 5.5.3. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for Diag. 5.5.1

LOCH DOON IV

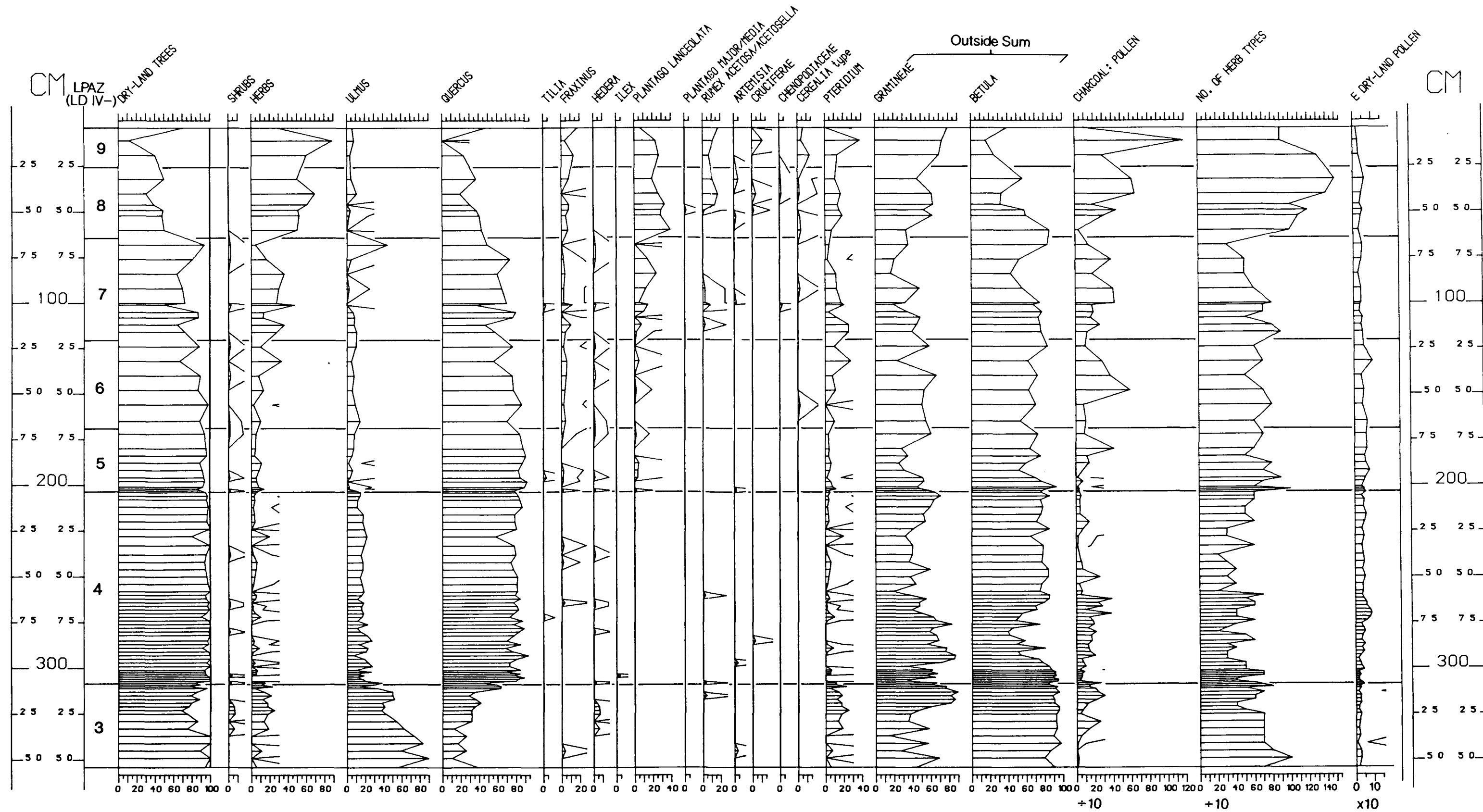


Pollen sum = total land plant pollen: taxa outside sum as percent sum + taxon of taxon of Dry-Land Sum

Exaggeration of open curve is x10.

Diag. 6.7.1. Dry-Land Trees includes Coryloid. Pteridium is a Herb here, otherwise the categorisation is as previously

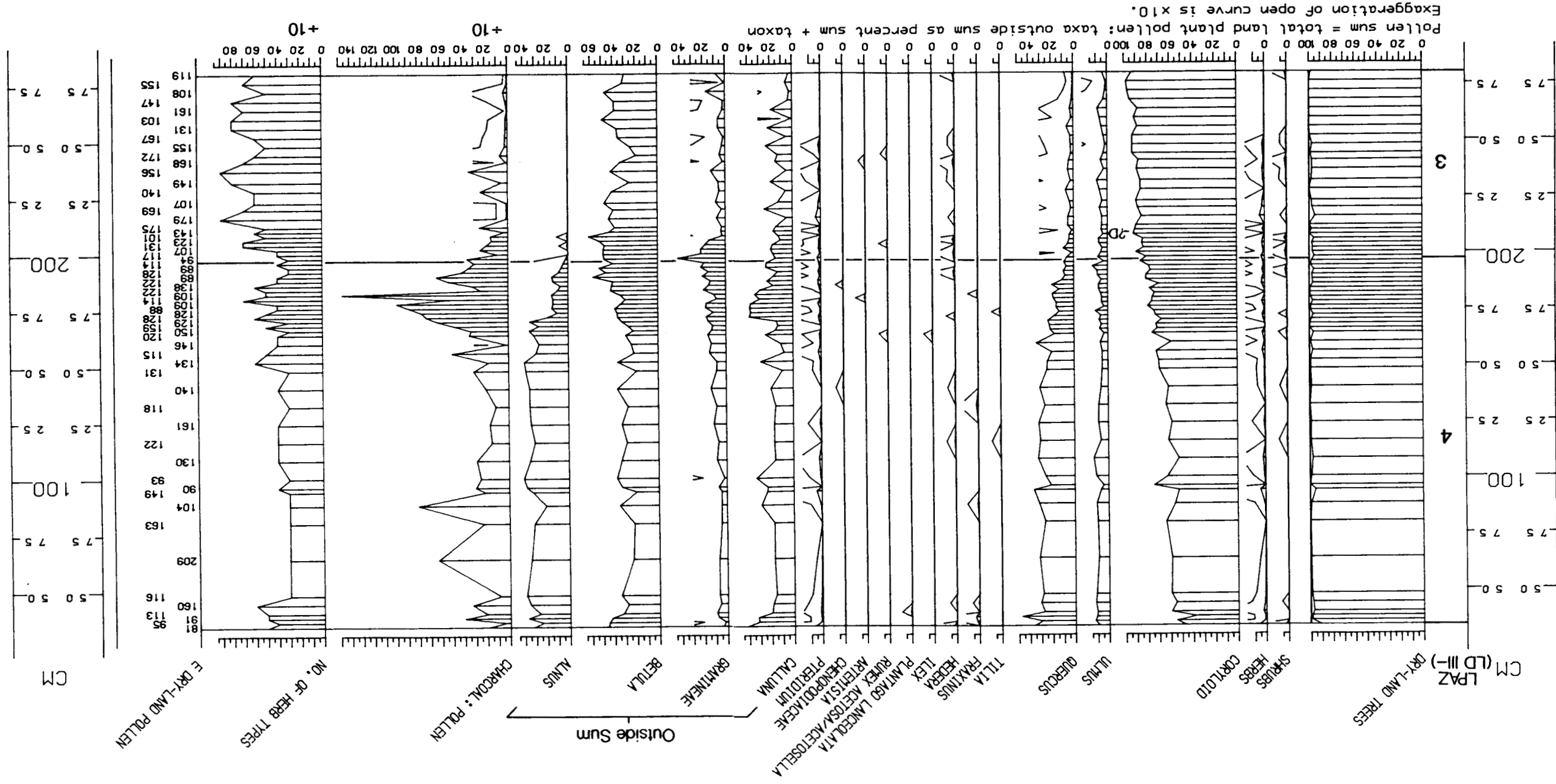
LOCH DOON IV


$$\text{Pollen sum} = \frac{\text{total land plant pollen: taxa outside sum}}{\text{as percent sum} + \text{taxon}}$$

Exaggeration of open curve is $\times 10$.

Diag. 6.7.2. Pteridium is a Herb here, otherwise the categorisation is as previously
N.B. low suns.

LOCH DOON III



Diag. 6.7.3. Dry-land trees includes Coryloid, Pteridium is a Herb here, otherwise the categorisation is as previously

CM LPAZ (LD III-)

DRY-LAND TREES

SHRUBS

HERBS

ULMUS

QUERCUS

TILIA HEDERA

ILEX

PLANTAGO LANCEOLATA

RUMEX ACETOSA/ACETOSELLA

ARTEMISIA

CHENOPODIACEAE

PTERIDIUM

GRAMINEAE

BETULA

Outside Sum

CHARCOAL: POLLEN

NO. OF HERB TYPES

E DRY-LAND POLLEN

CM

4

3

Pollen sum = total land plant pollen: taxa outside sum as percent sum + taxon

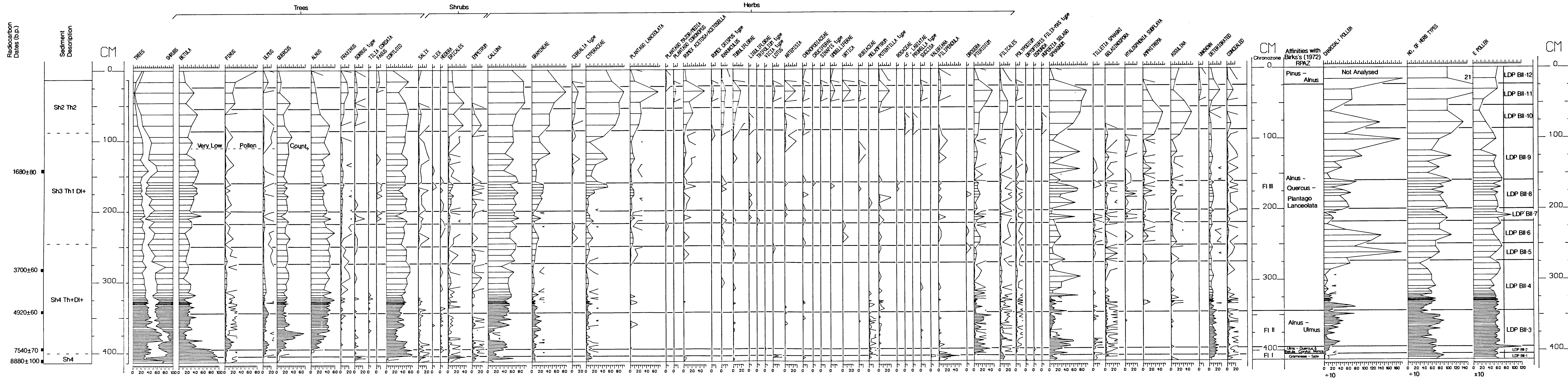
Exaggeration of open curve is x10.

+10

+10

Diag. 6.7.4. Pteridium is a Herb here, otherwise the categorisation is as previously
N.B. low suns.

LOCH DEE PENINSULA BOG II

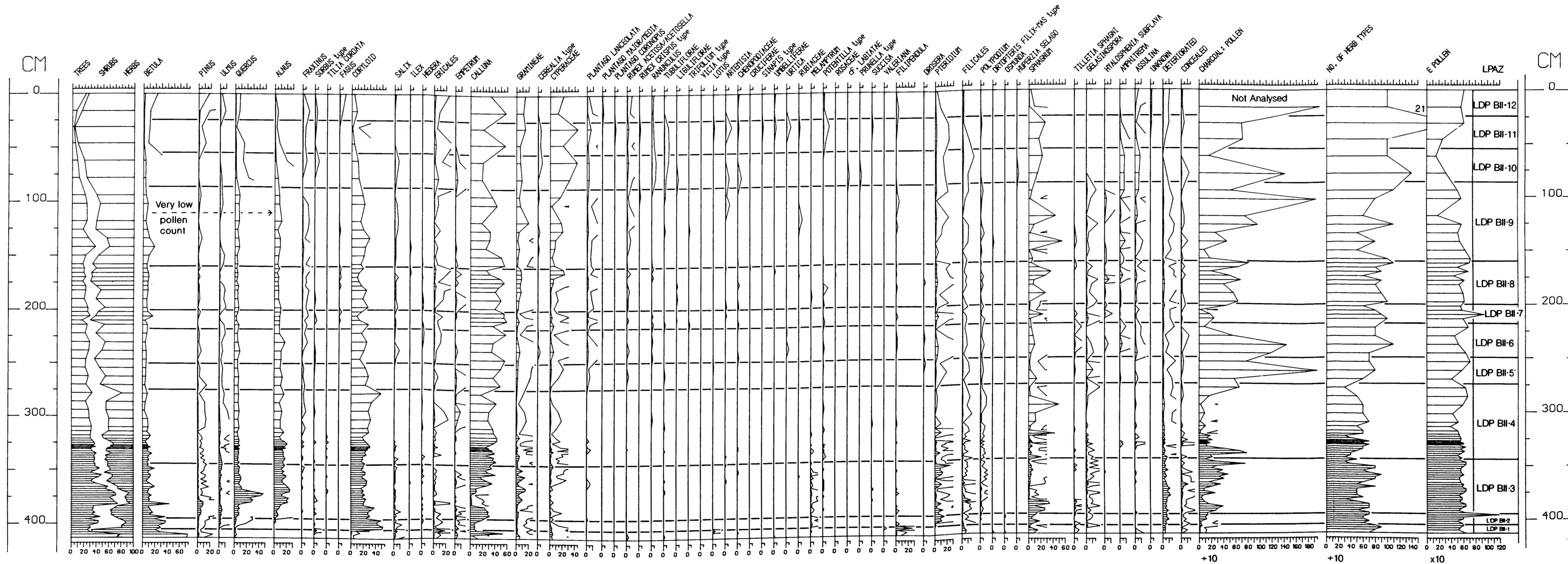


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Pollen sum = total tree pollen: taxa outside sum as percent sum + taxon
```

Exaggeration of open curve is $\times 10$.

Sediment key: Sh = Humous substance; Th = Herbaceous peat; Tl = Wood peat; Dl = Woody detritus

LOCH DEE PENINSULA BOG II

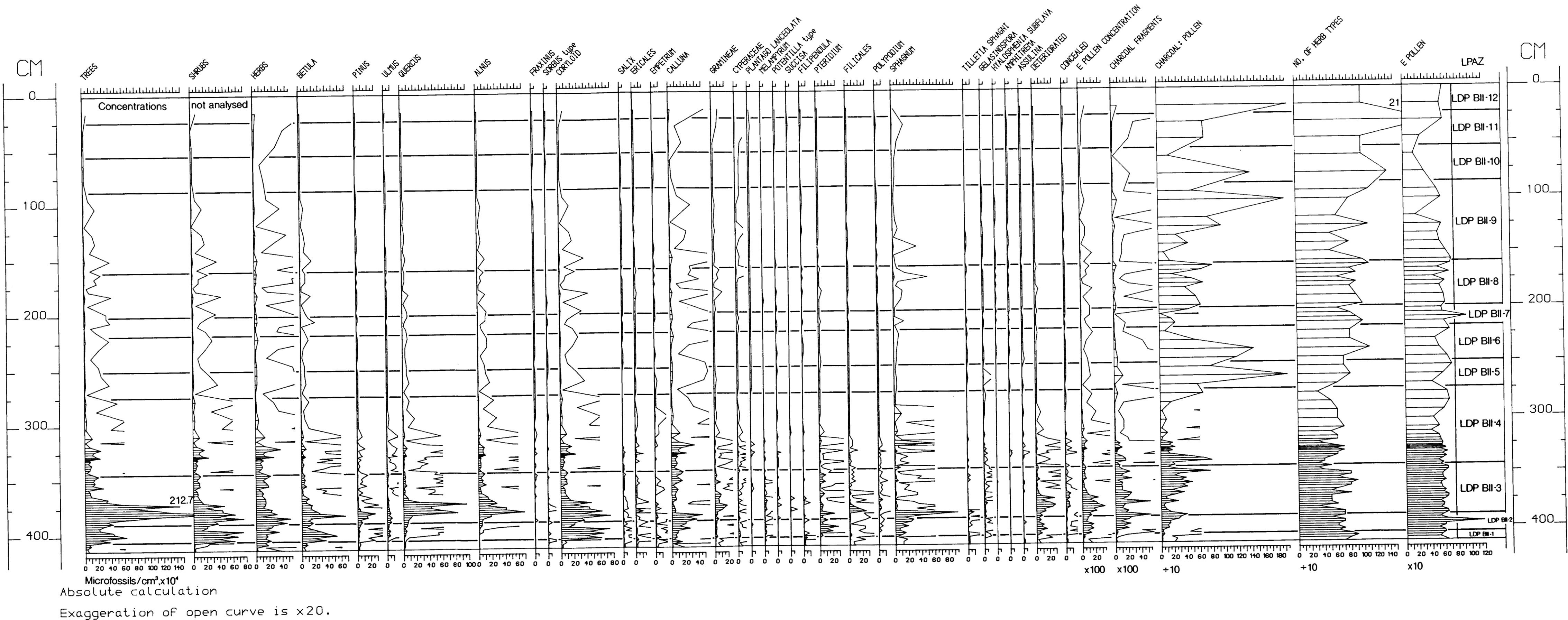


Pollen sum = total land plant pollen: taxa outside sum as percent sum + taxon

Exaggeration of open curve is x10.

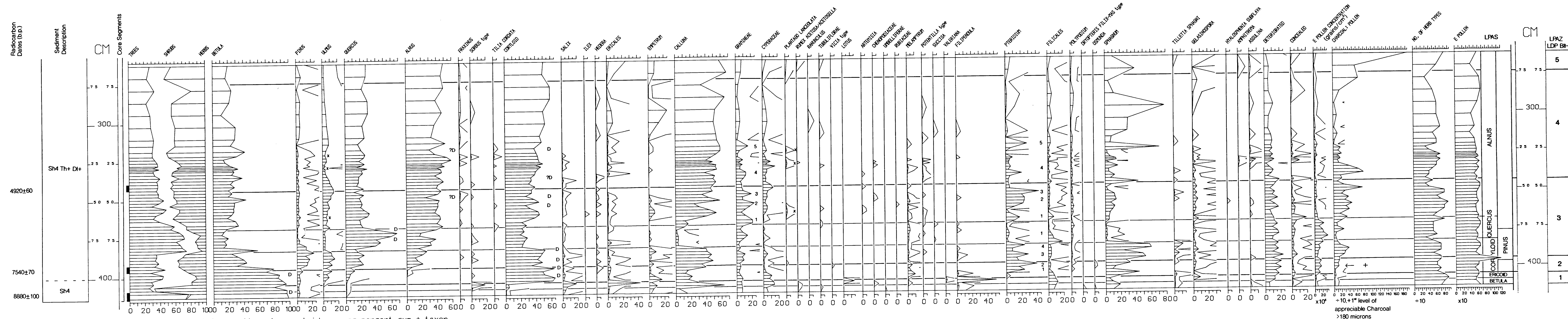
Diag. 7.3.2. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 7.3.1.

LOCH DEE PENINSULA BOG II



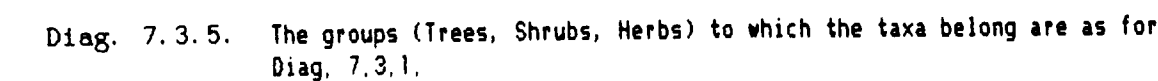
Diag. 7.3.3. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 7.3.1.

LOCH DEE PENINSULA BOG II



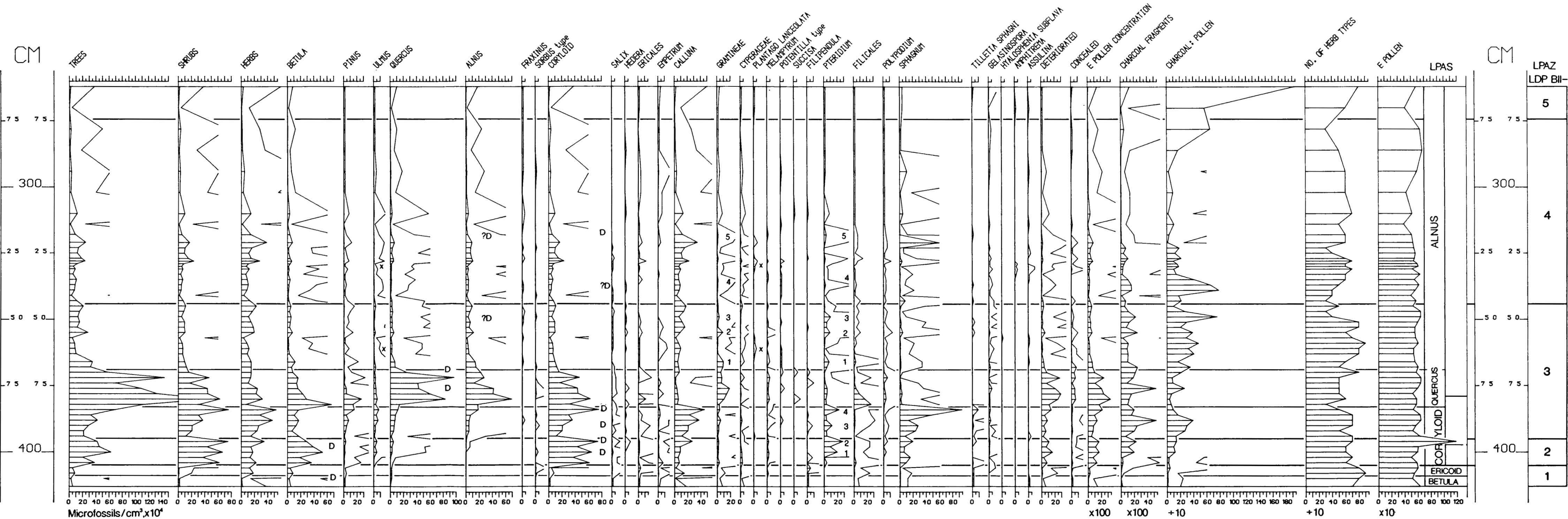
Diag. 7.3.4. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 7.3.1.

LOCH DEE PENINSULA BOG II



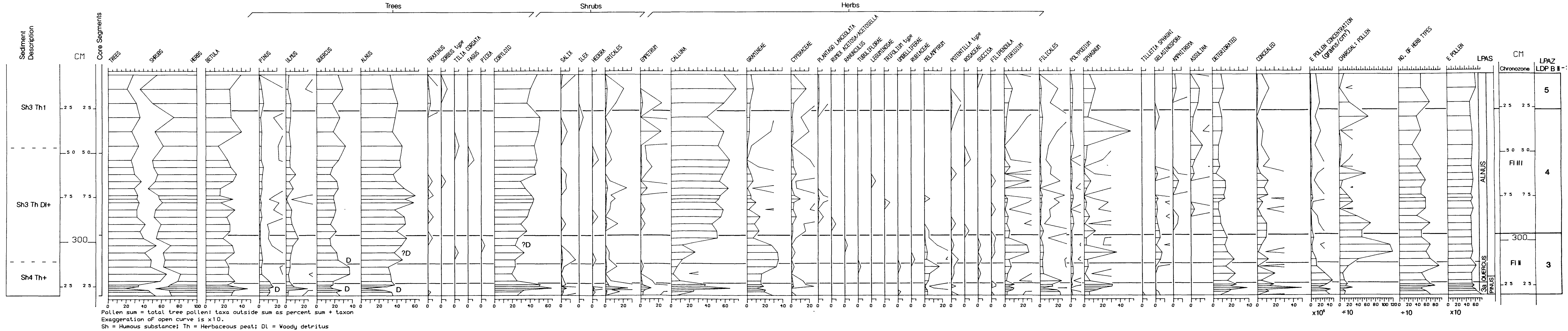
Diag. 7.3.5. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 7.3.1.

LOCH DEE PENINSULA BOG II



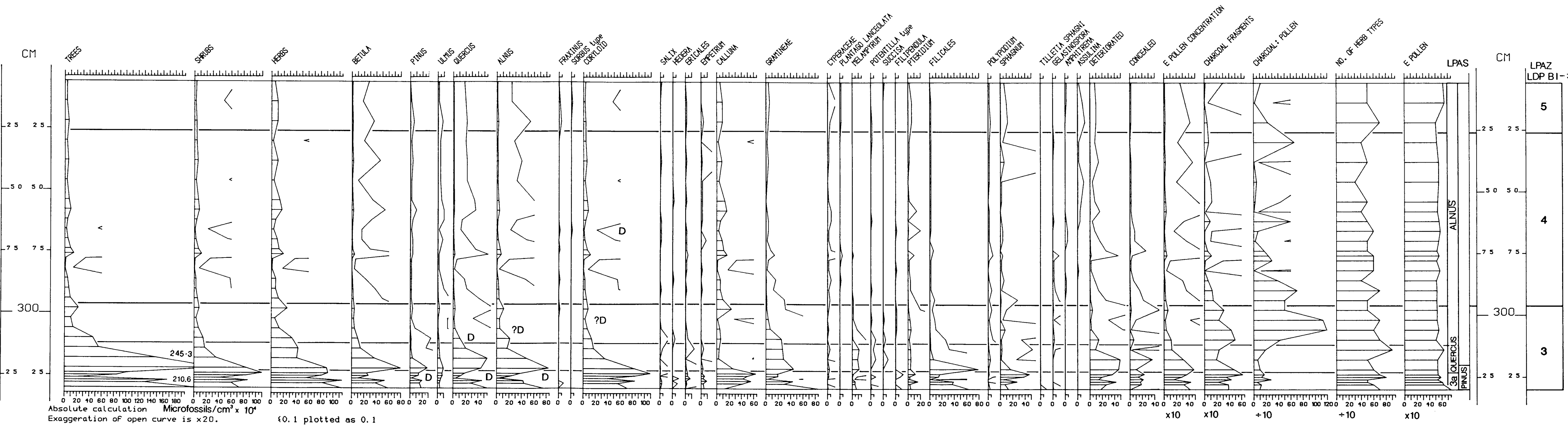
Diag. 7.3.6. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 7.3.1.

LOCH DEE PENINSULA BOG I



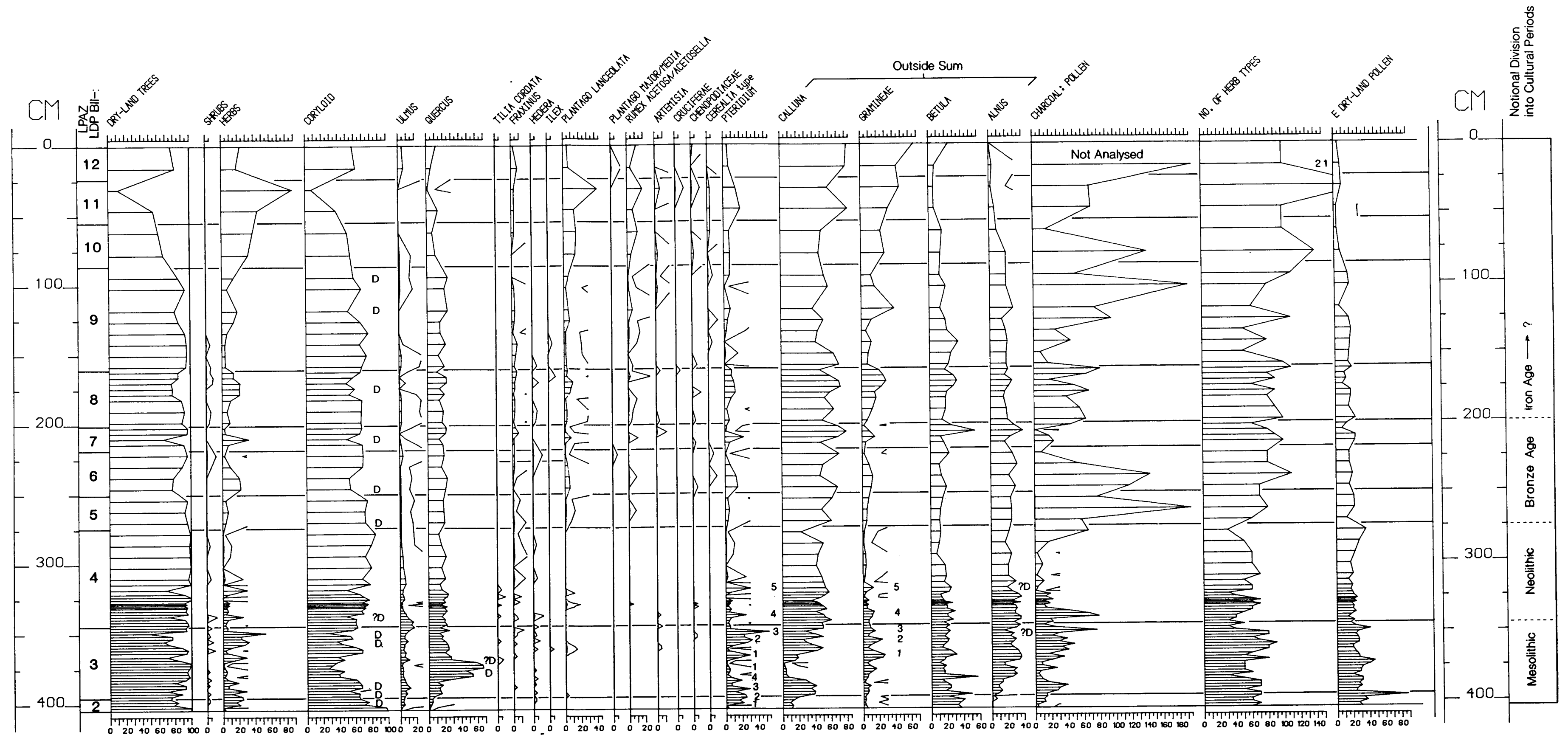
Diag. 7.4.1.

LOCH DEE PENINSULA BOG I



Diag. 7.4.3.

LOCH DEE PENINSULA BOG II

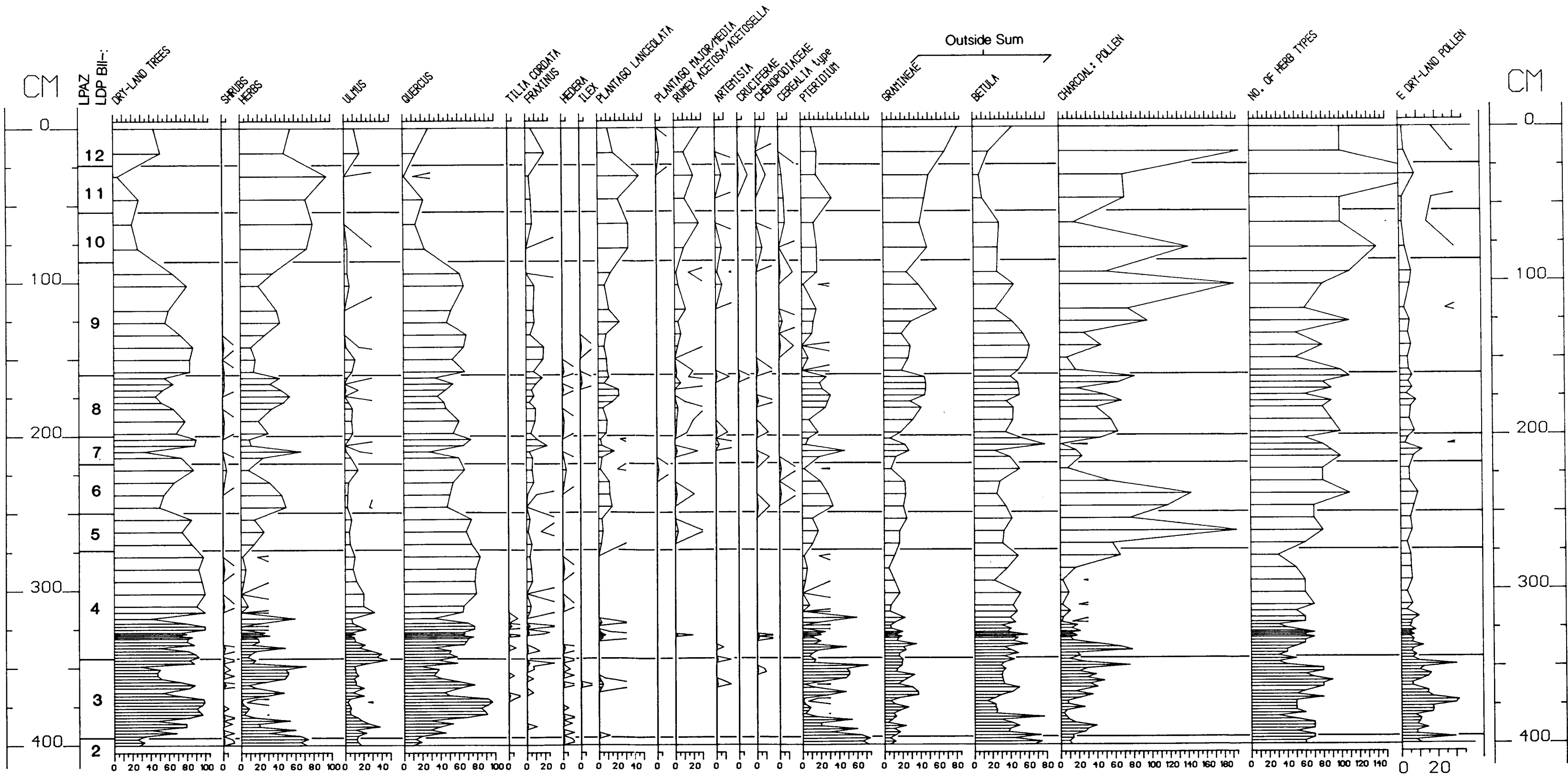


Pollen sum = total land plant pollen: taxa outside sum as percent sum + taxon

Exaggeration of open curve is x10.

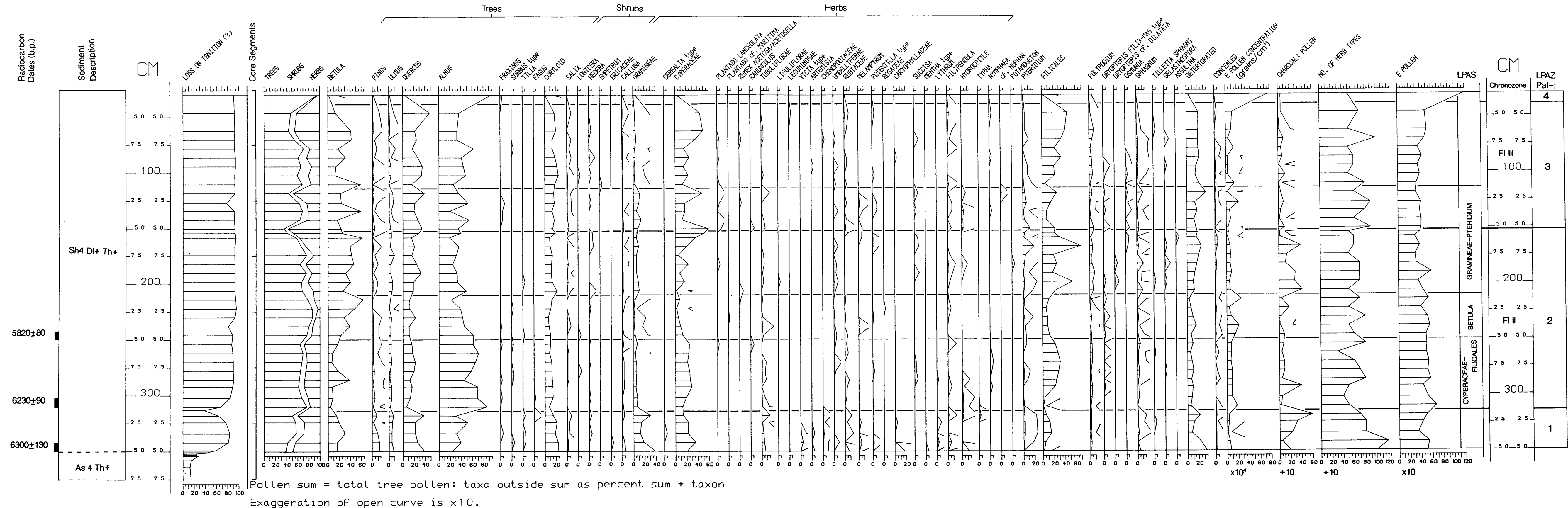
Diag. 7.5.1. Dry-Land Trees includes Coryloid, Pteridium is a Herb here, otherwise the categorisation is as previously

LOCH DEE PENINSULA BOG II



Diag. 7.5.2. Pteridium is a Herb here, otherwise the categorisation is as previously

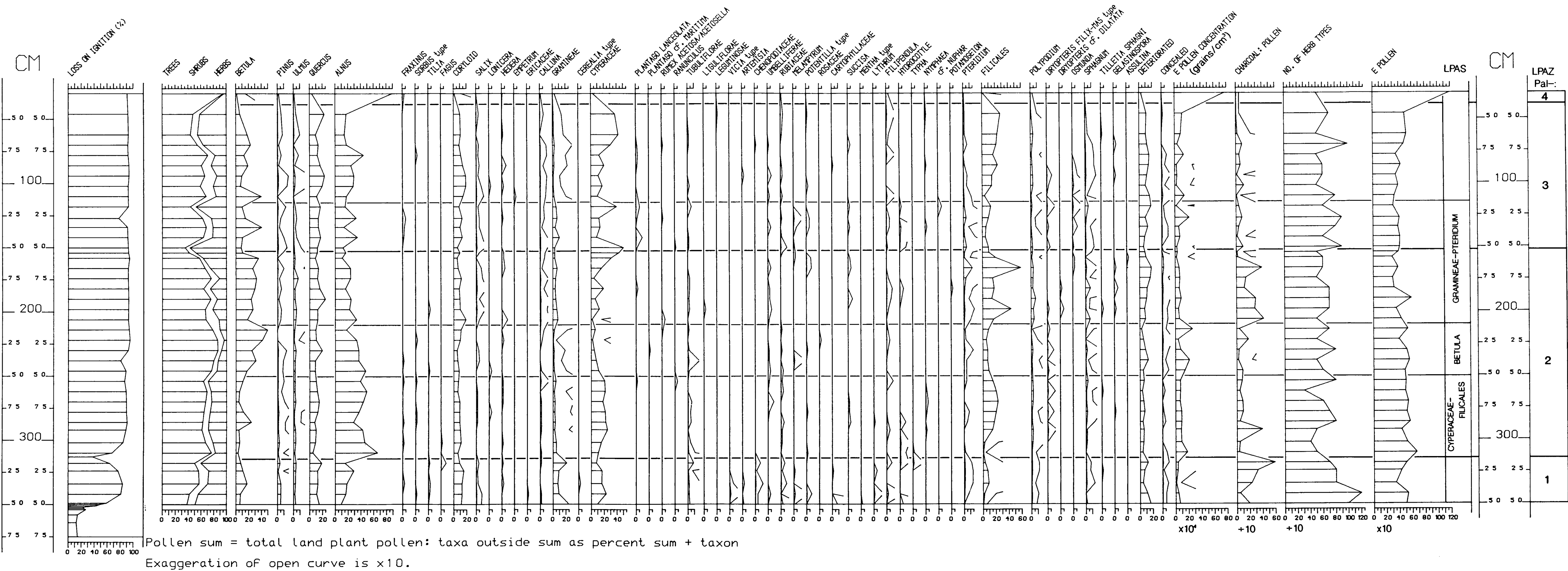
PALNURE



Diag. 8.3.1.

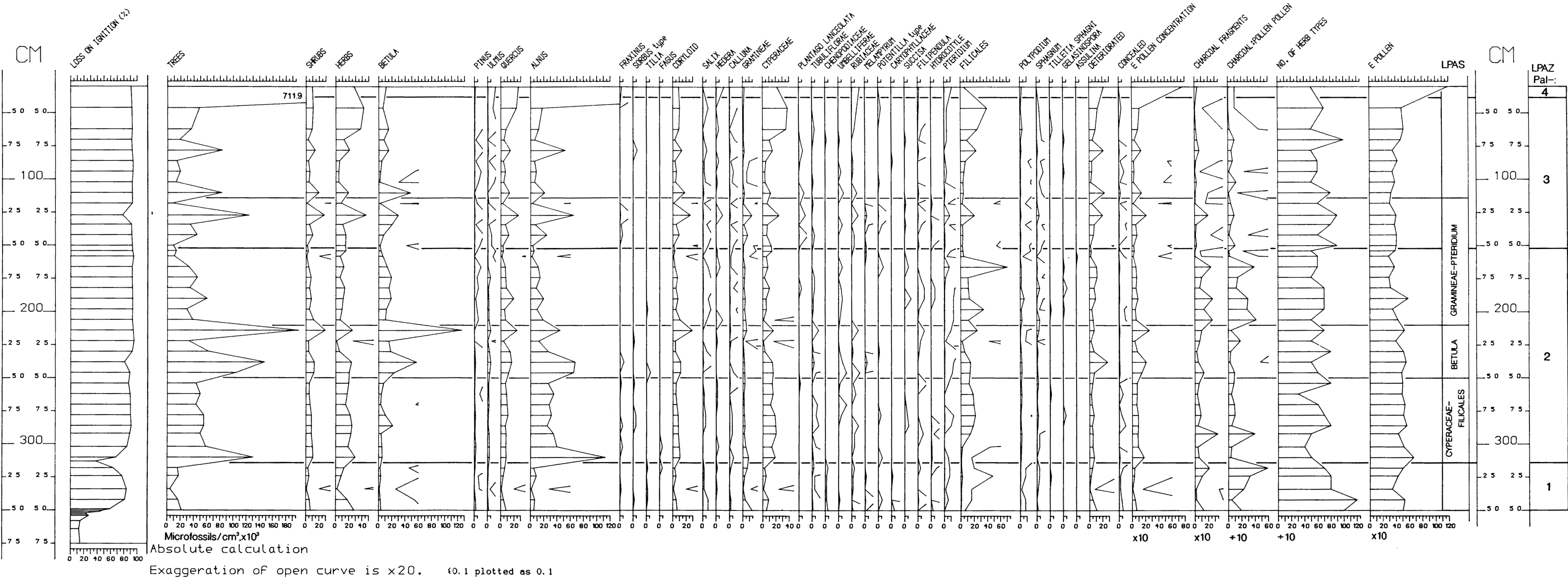
Sediment key: Sh = Humous substance; Th = Herbaceous peat; Dl = Woody detritus; As = Clay

PALNURE



Diag. 8.3.2. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 8.3.1.

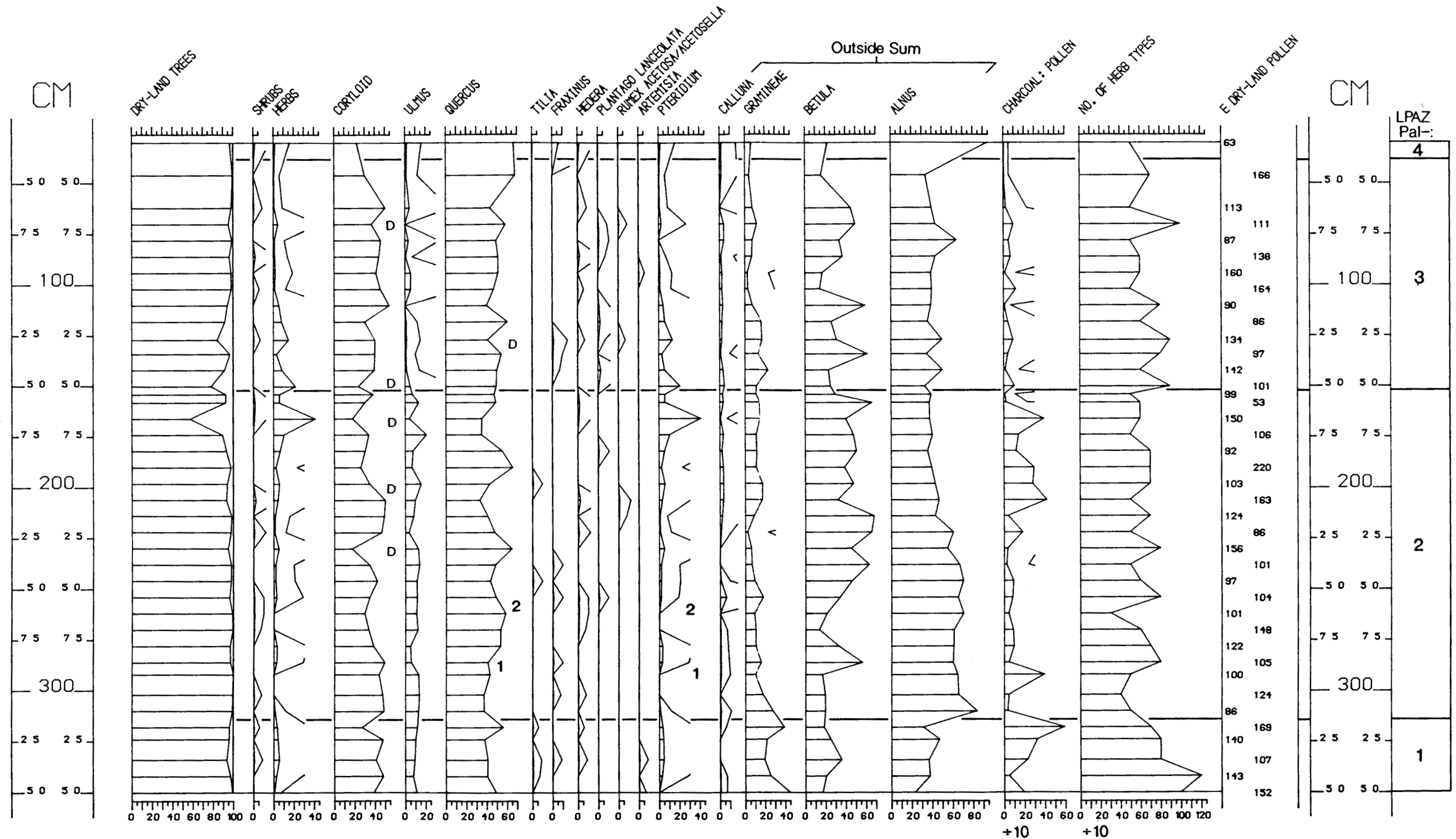
PALNURE



Diag. 8.3.3. The groups (Trees, Shrubs, Herbs) to which the taxa belong are as for
Diag. 8.3.1.

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PALNURE

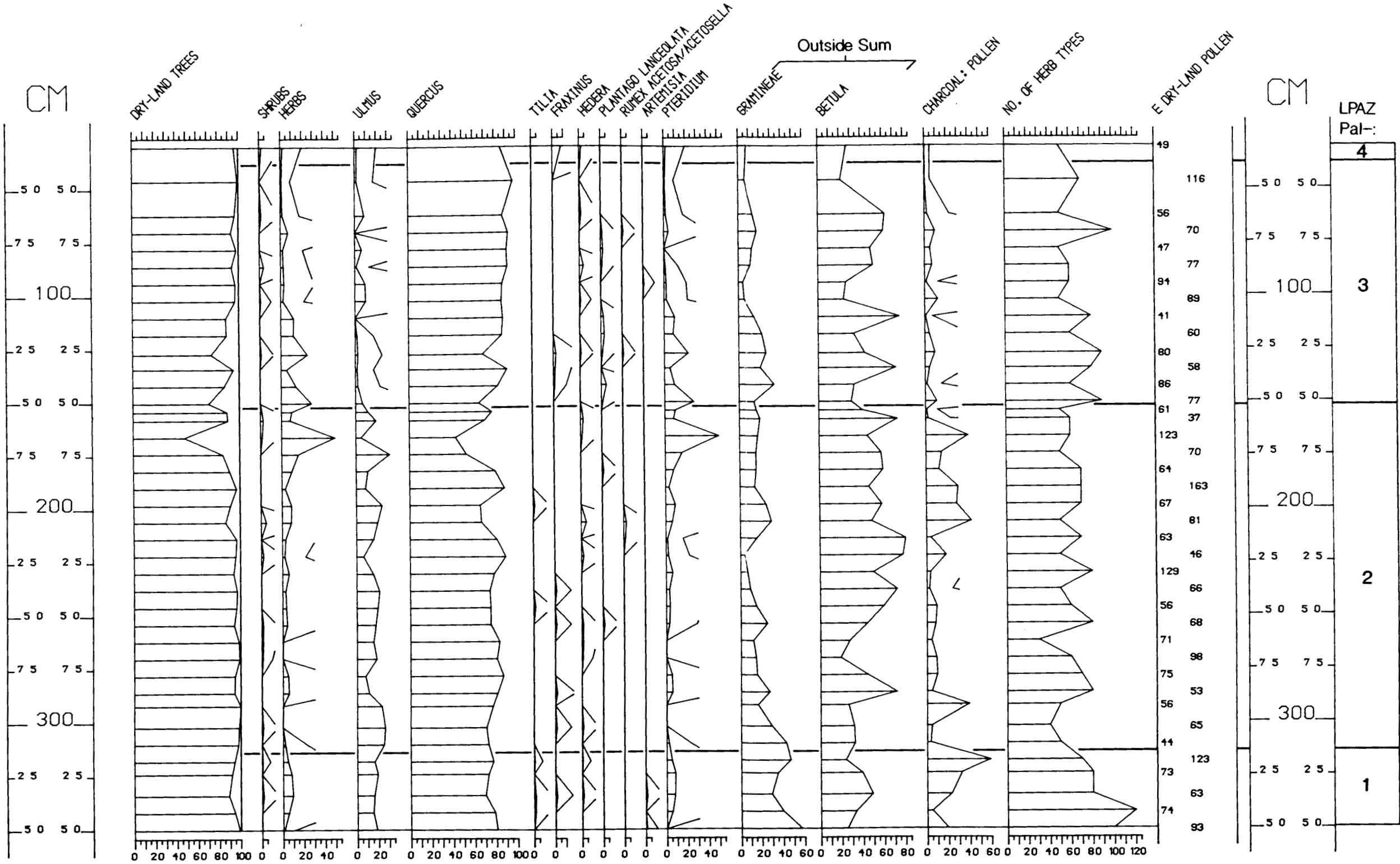


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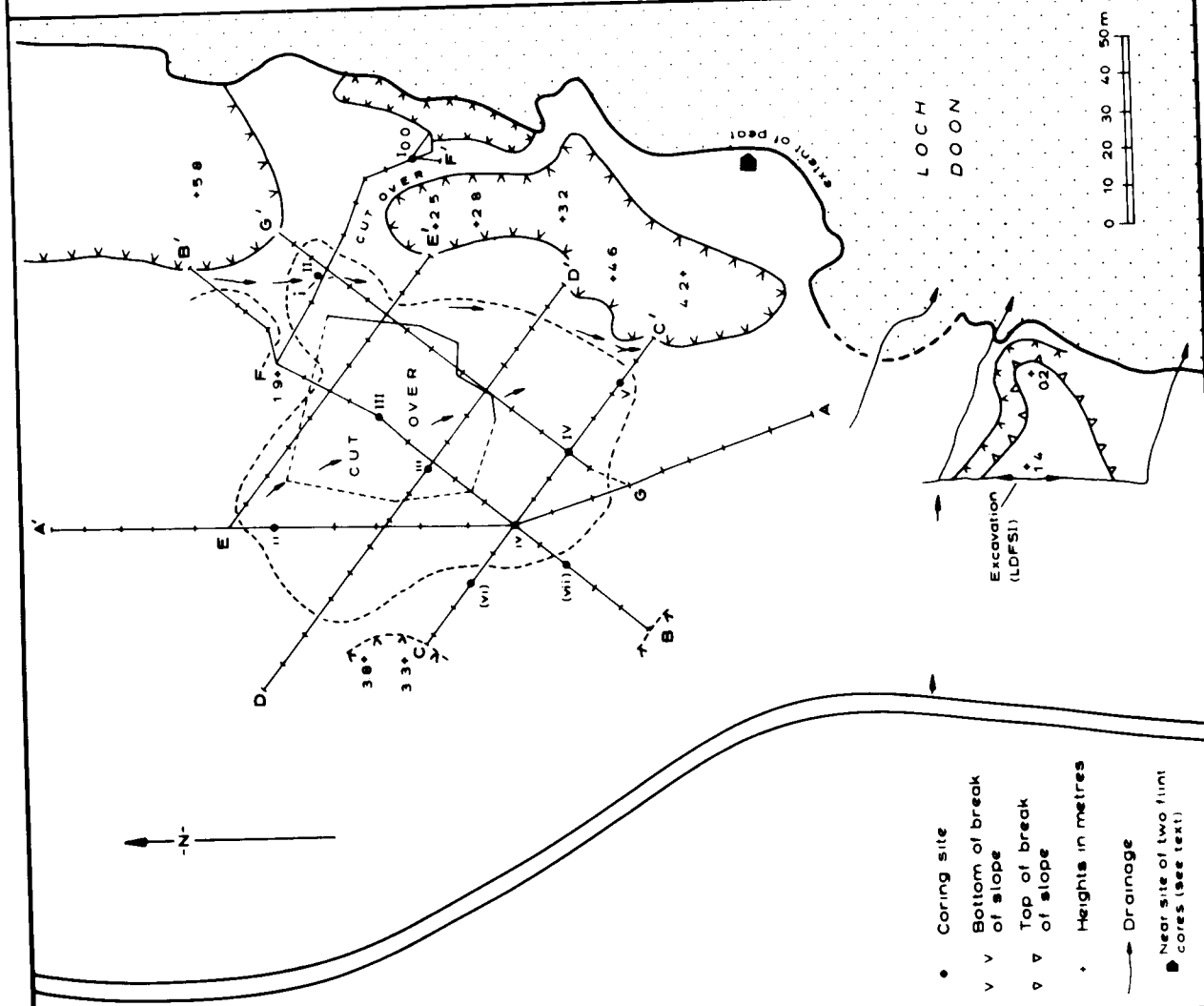
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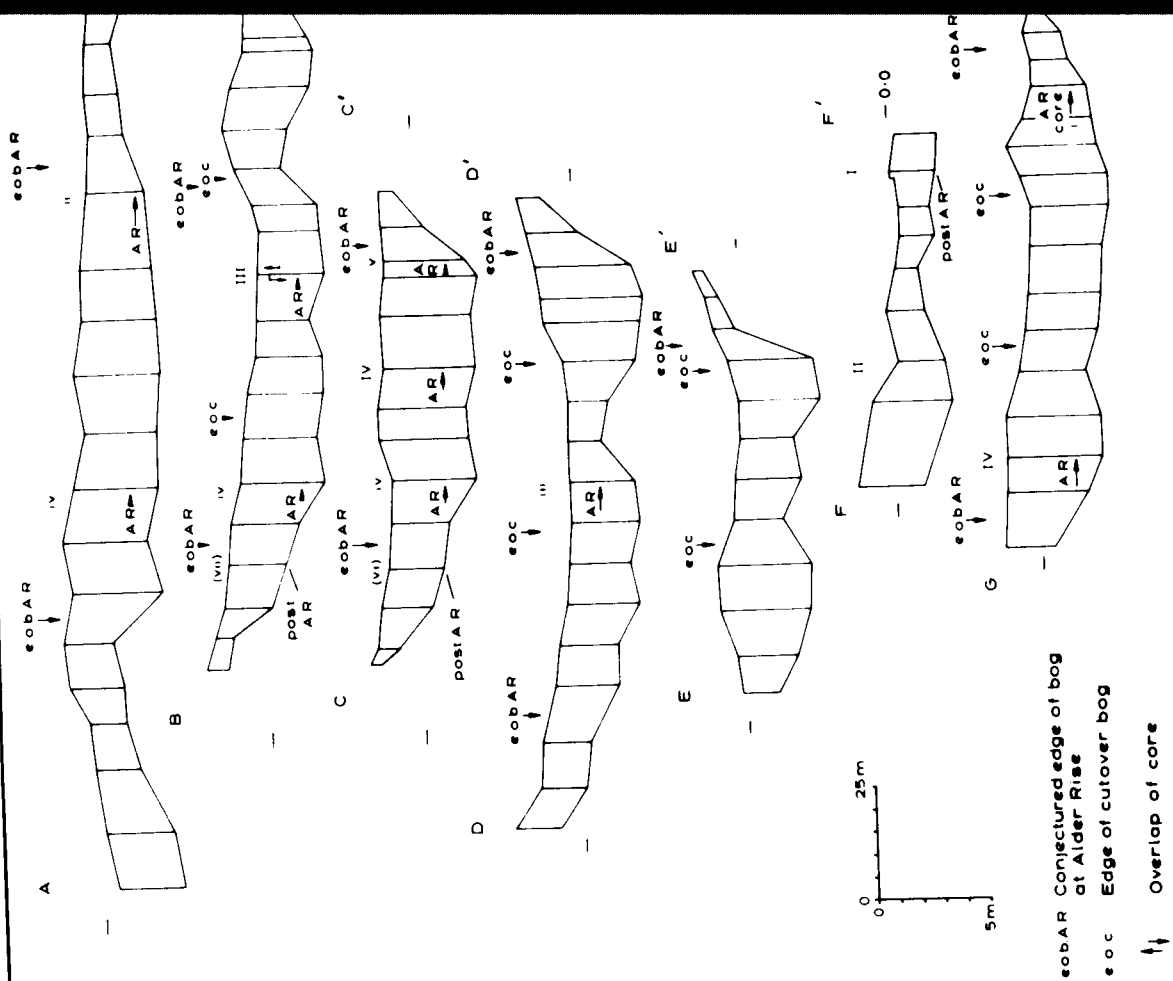
Pollen sum = total land plant pollen: taxa outside sum as percent sum + taxon

Exaggeration of open curve is x10.

Diag. 8.5.2. Pteridium is a Herb here, otherwise the categorisation is as previously



- Coring site
- v Bottom of break of slope
- v Top of break of slope
- Heights in metres
- Drainage
- Near site of two flint cores (see text)



- eobar Conjectured edge of bog at Alder Rise
- eoc Edge of cutover bog
- ↑ Overlap of core

Fig. 6.2. Map of the area of detailed palaeoecological investigations showing the locations of the coring sites and transects, the situation of the LDPSI excavation. The transect profiles are drawn within the common datum of site LDI (0.0).

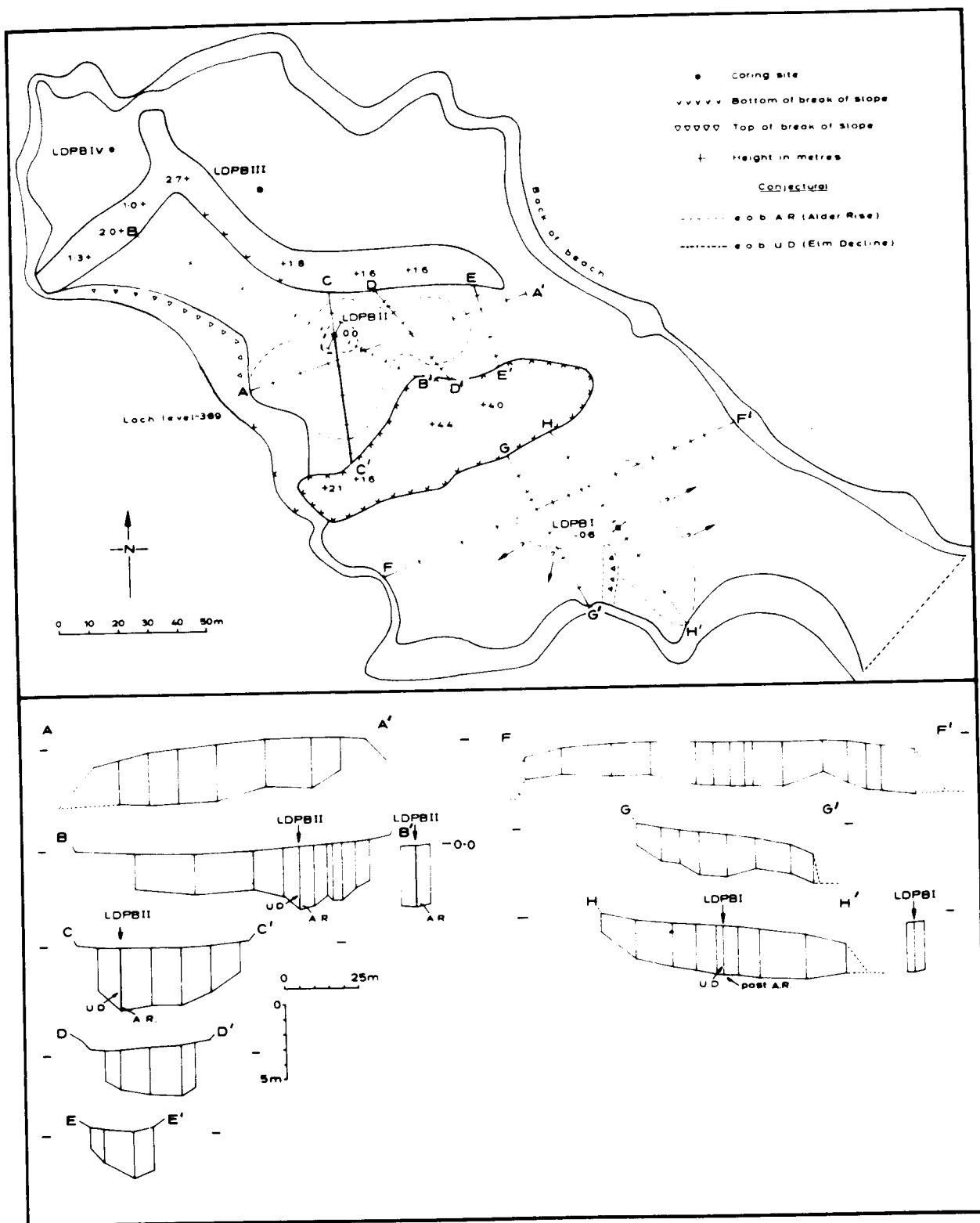


Fig. 7.2. Map of Loch Dee peninsula showing the locations of the coring sites and transects. The transect profiles are also drawn, between the common datum of site LDPBII (0.0).