LAYERED PEAT MACROFOSSIL IN THE STRATIGRAPHIC CORES OF THE PEATLANDS

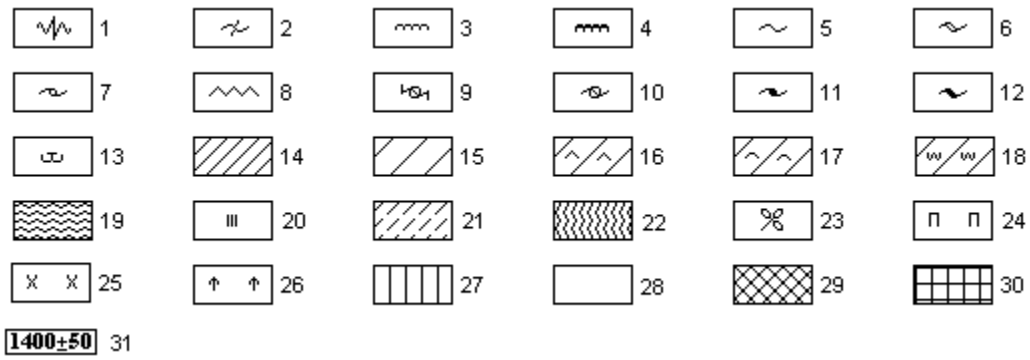


Figure 1. Legend of the plant remains in the peat:

Sphagnum mosses: 1 – *Sphagnum fuscum*, 2 – *S. angustifolium*, 3 – *S. magellanicum*, 4 – *S. papillosum*, 5 – *S. balticum* , 6 – *S. majus*, 7 – *S. jensenii*, 8 – *S. lindbergii*, 9 – *S. flexuosum*, 10 – *S. fallax*, 11 – *S. obtusum*, 12 – mesotrophic *sphagnum* mosses (*S. centrale, S. warnstorfii*), 13 – *S. teres*.

Sedges: 14 – low sedges (*Carex limosa*), 15 – high sedges (*Carex lasiocarpa*, *S. rostrata*), 16 – *Carex omskiana*, 17 – tussock sedges (*C. cespitosa*); 18 – *Carex juncella*; 19 – cotton-grass (*Eriophorum vaginatum*), 20 – *Scheuchzeria palustris*; 21 – brown mosses (*Drepanocladus*, *Homatocaulis*, *Warnstorfia*, *Calliergon*, *Meesia*).

Grasses: 22 – reed (*Phragmites australis*), 23 – bog bean (*Menyanthes trifoliata*), 24 – fern (*Thelypteris palustris*), 25 – horsetail (*Equisetum fluviatile*); 26 – shrubs (*Betula nana*, *Ledum*, *Chamaedaphne*), 27 – wood, 28 – undefined remains, 29 – gyttja (*Typha*), 30 – lake sediments, 31 – calibrated carbon dates.

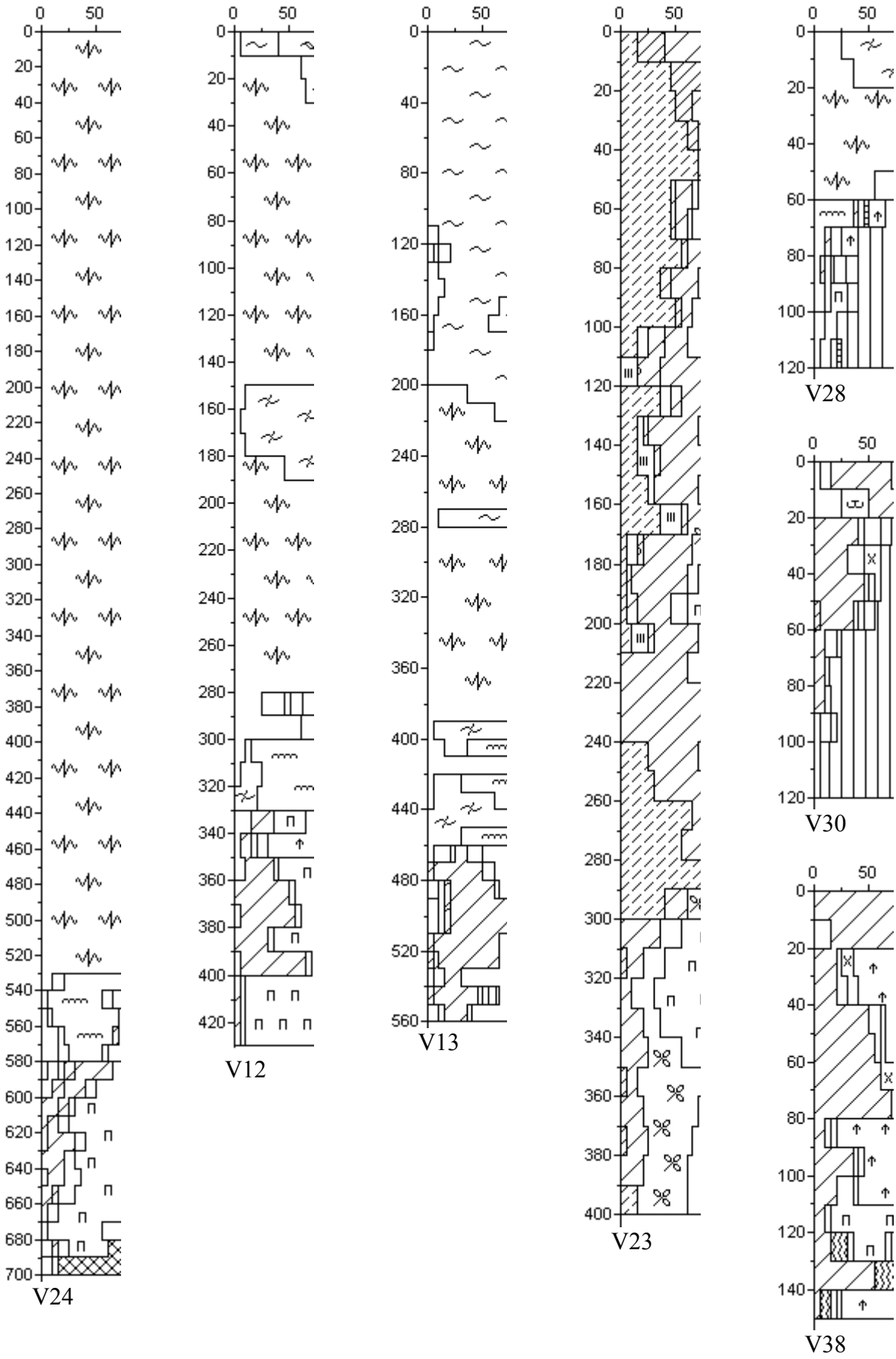


Figure 2. Peat core of the Great Vasyugan Mire (‘Uzas’, ‘Malaya Icha’, Subtaiga zone)

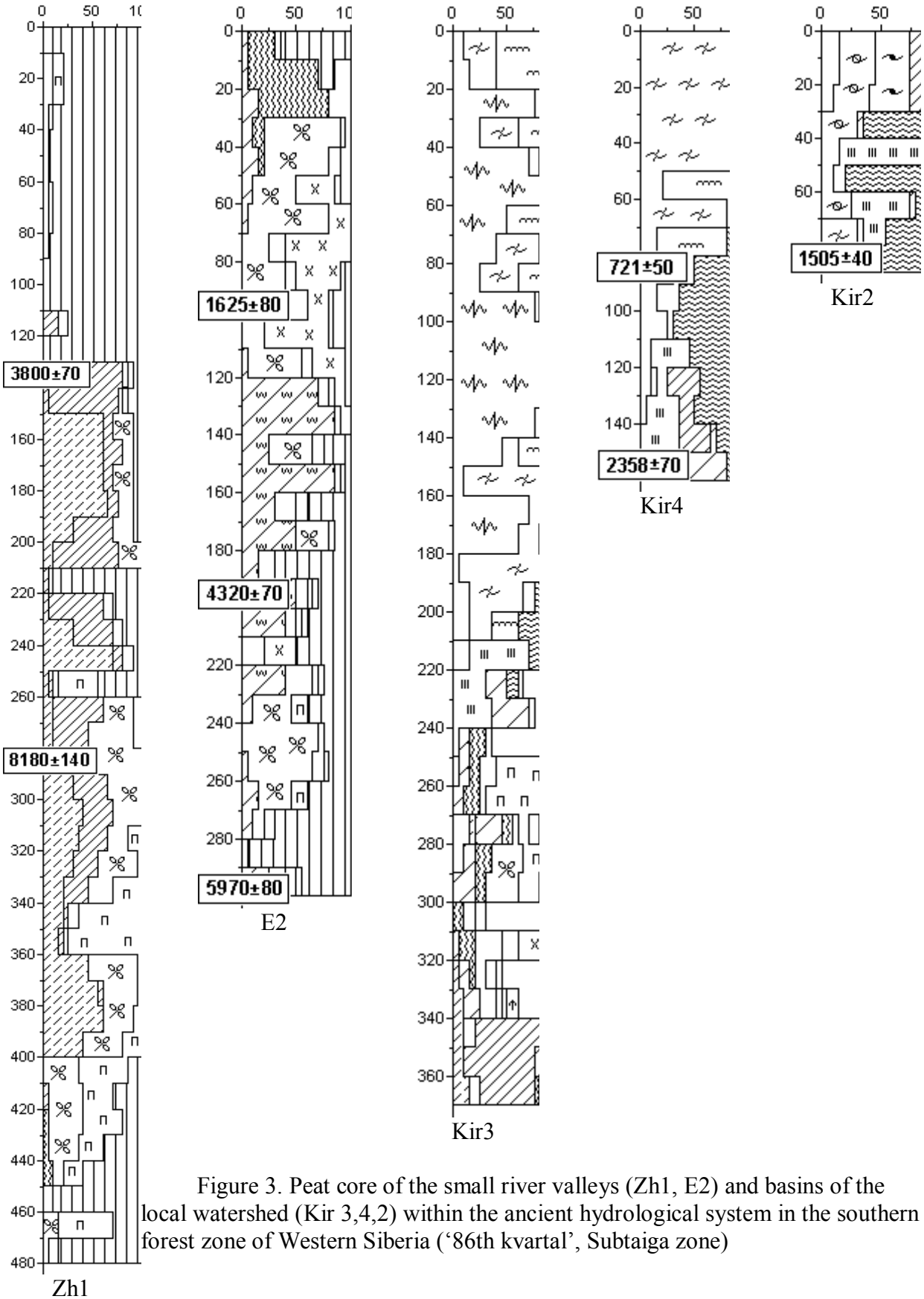


Figure 3. Peat core of the small river valleys (Zh1, E2) and basins of the local watershed (Kir 3,4,2) within the ancient hydrological system in the southern forest zone of Western Siberia ('86th kvartal', Subtaiga zone)

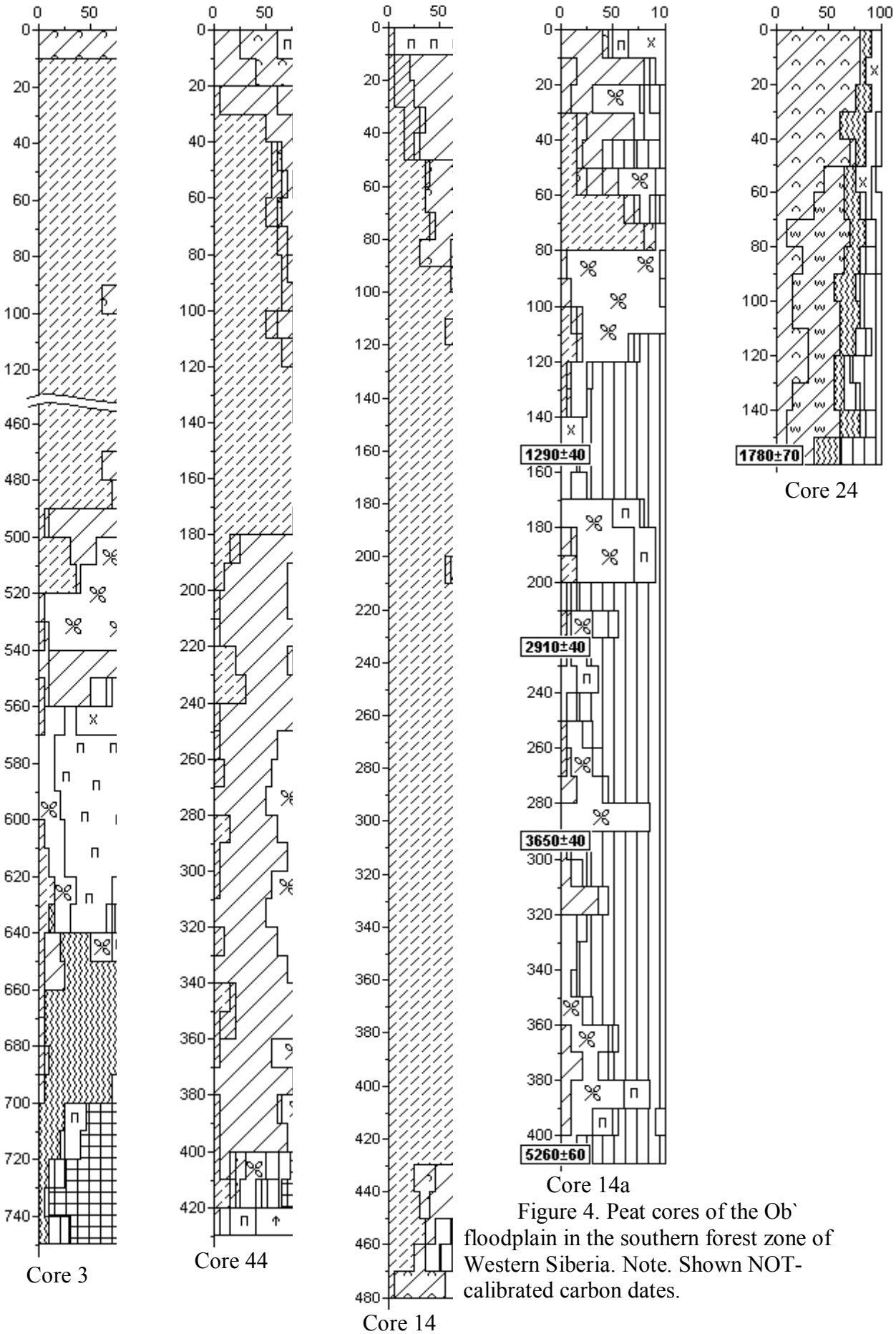


Figure 4. Peat cores of the Ob` floodplain in the southern forest zone of Western Siberia. Note. Shown NOT-calibrated carbon dates.

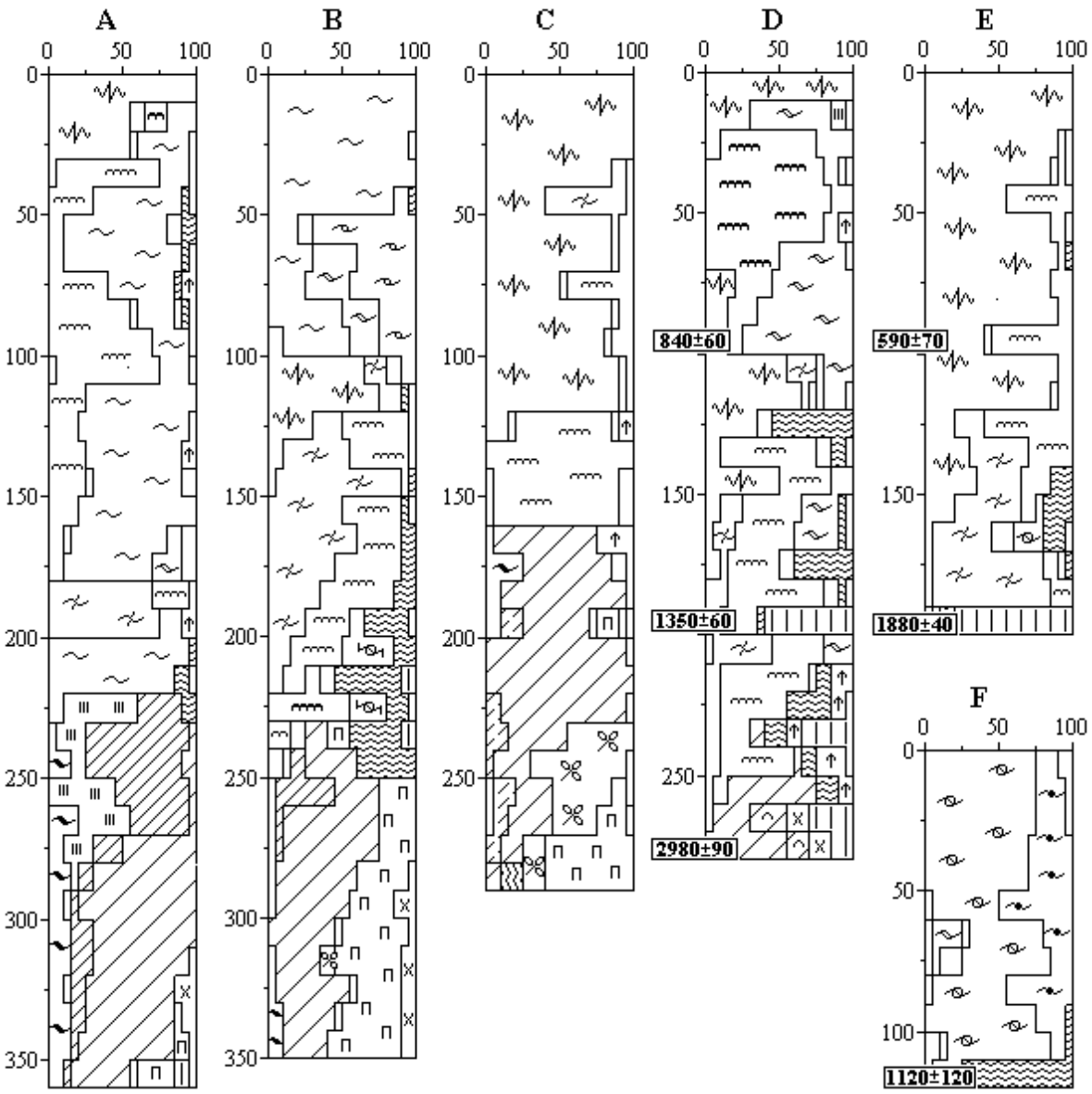


Figure 5. Peat cores of the watershed bog “Bakcharskoe” (Plotnikovo, Borodinsk, South taiga zone)

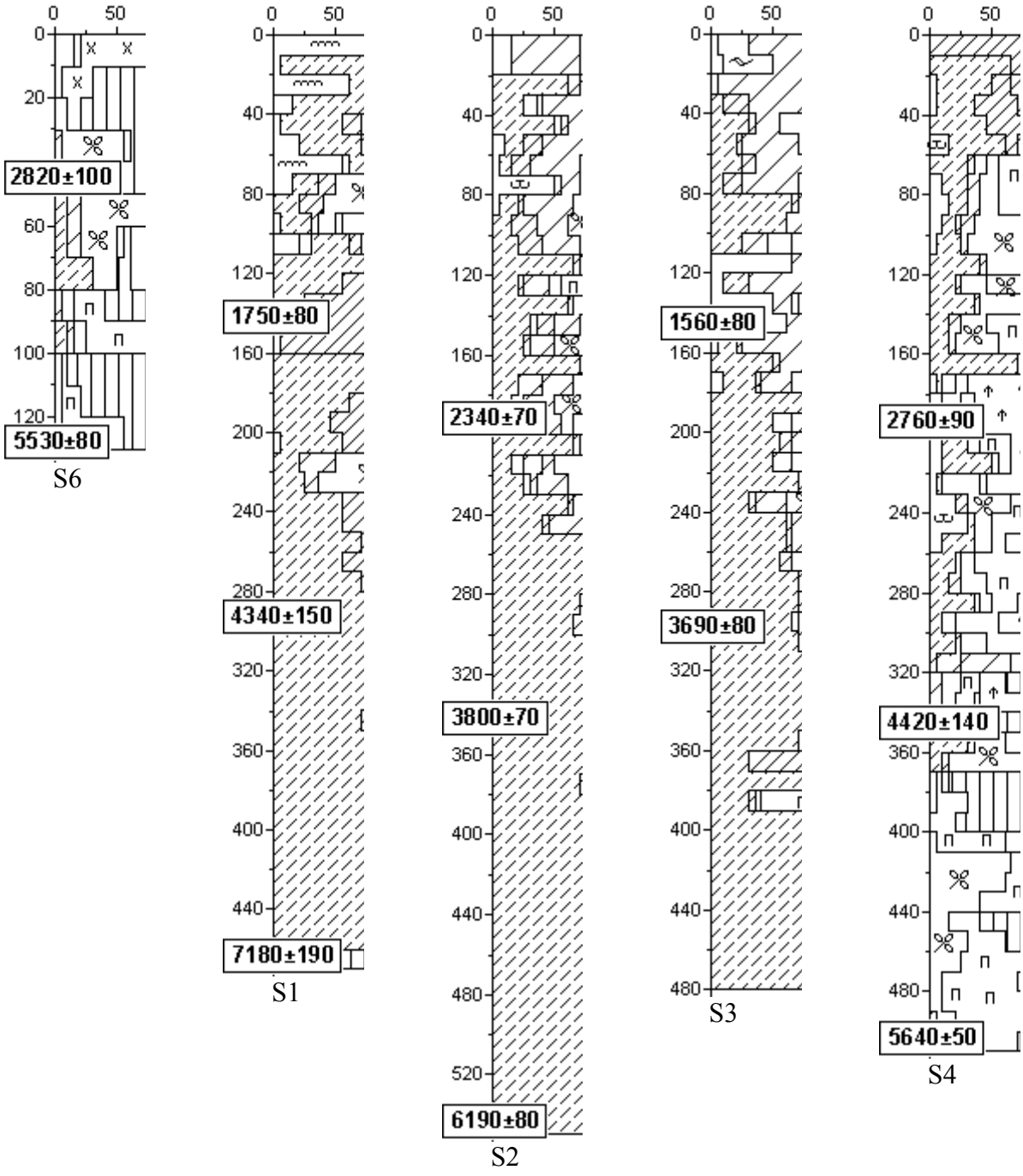


Figure 6. Peat cores of the “Semenovskoe” bog in the left-bank valley Iksa river (Borodinsk, South taiga zone)

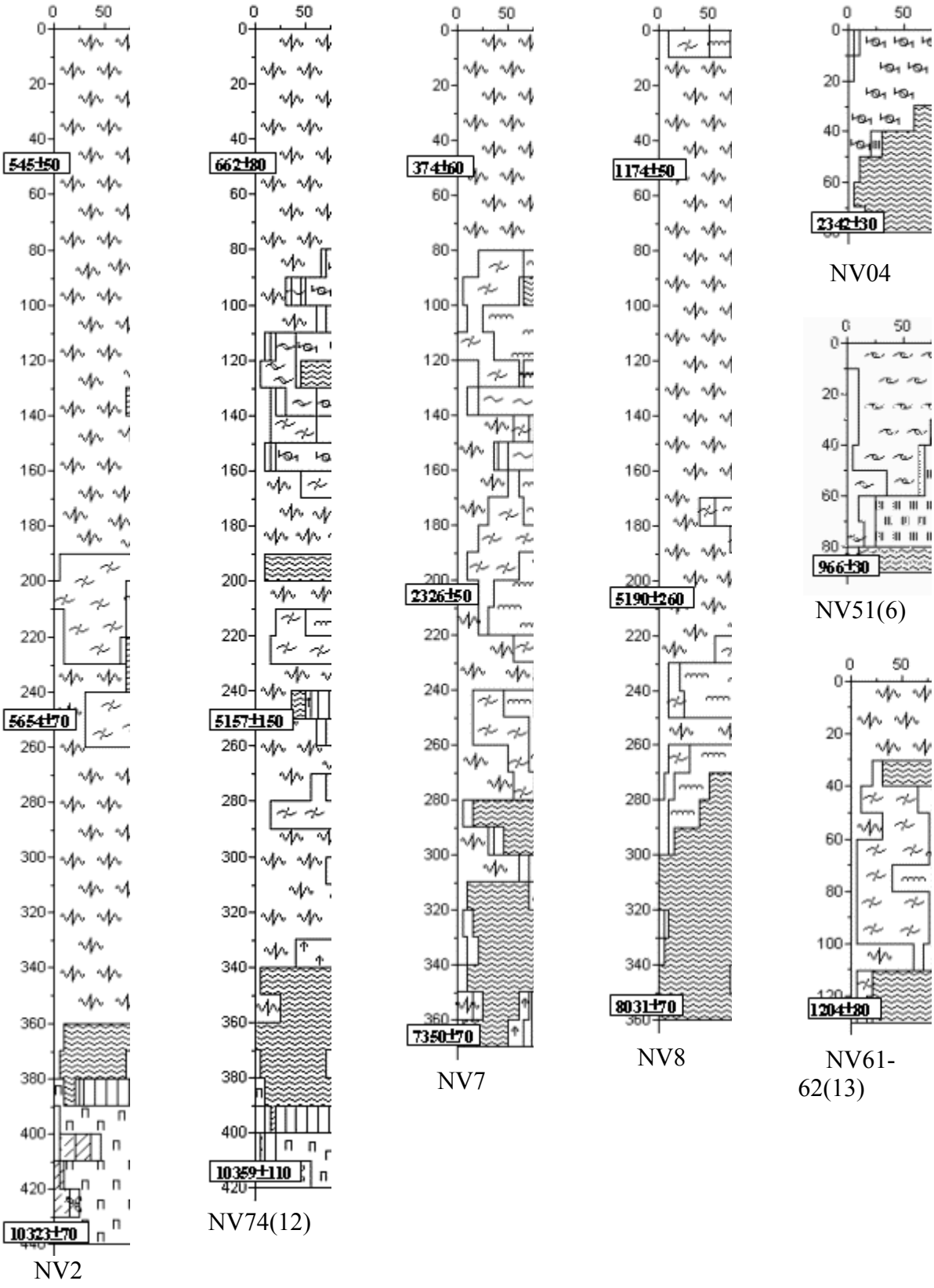


Figure 7. Peat core of the “Savkino” bog (Nizhnevartovsk, Middle taiga zone)

PEAT CORES CARBON DISTRIBUTION

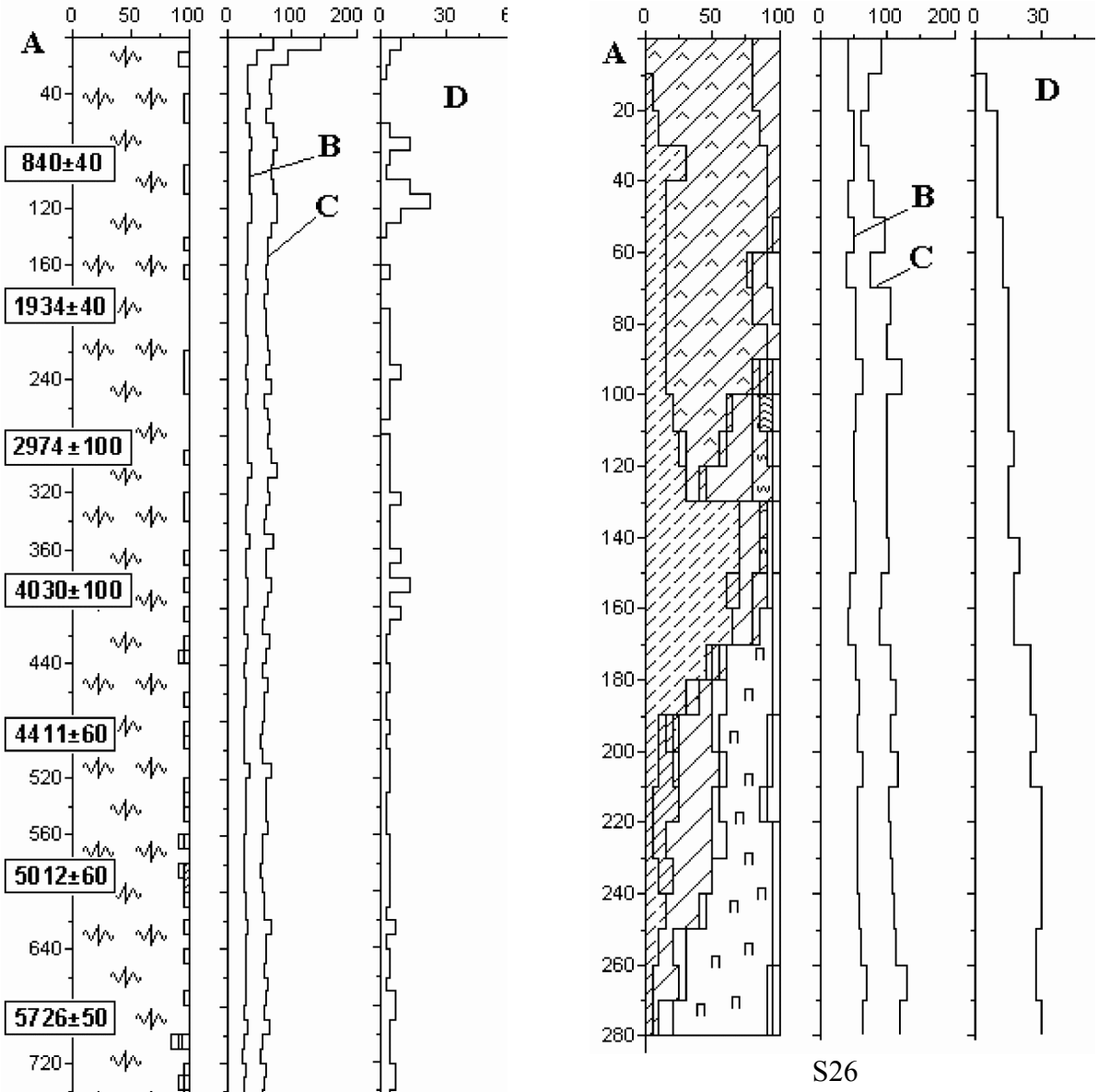
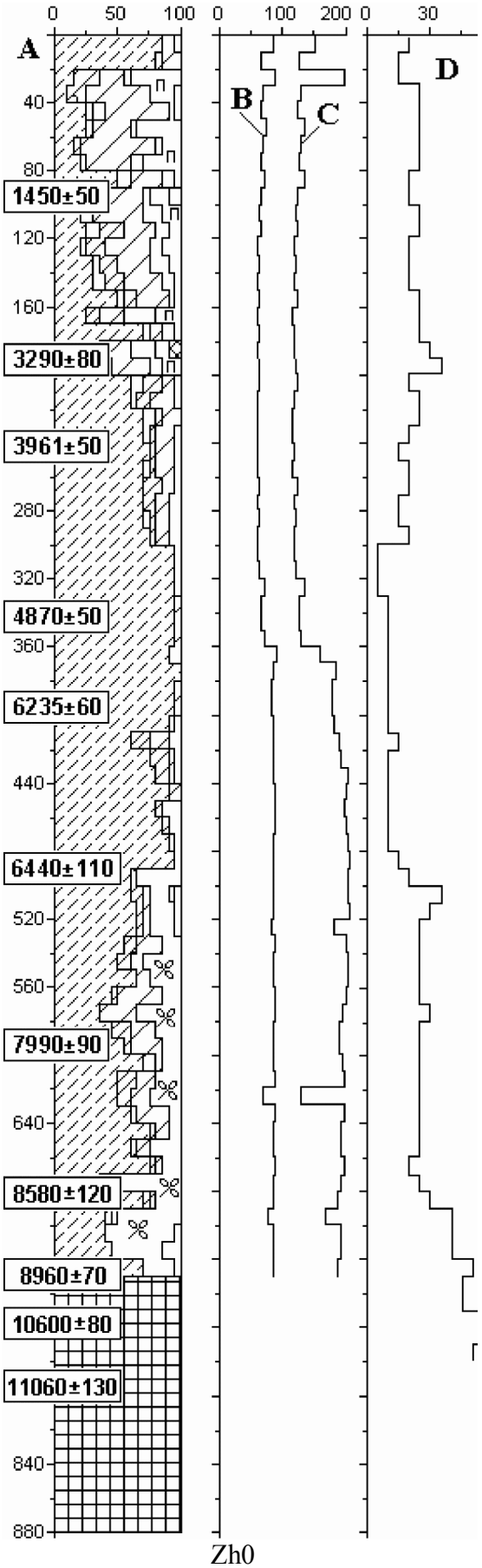


Figure 1. Peat macrofossil (A, %), carbon (B, g C dm^{-3}), organic matter (C, g dm^3) and peat decomposition rate (D, %) in the oligotrophic (V21) and eutrophic (V26) watershed peatlands within Great Vasyugan Mire ('Malaya Icha', Subtaiga zone)

Legend is presented in Appendix 1, Fig. 1



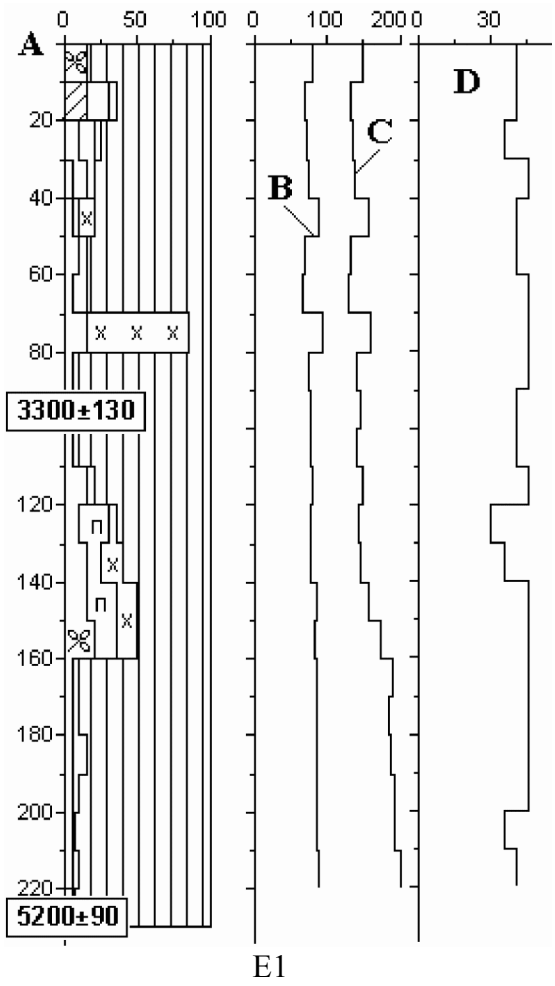


Figure 2. Peat macrofossil (A, %), carbon (B, g C dm^{-3}), organic matter (C, g dm^3) and peat decomposition rate (D, %) in the eutrophic peatlands: grass-hypnum (Zh0) and forest (E1) in the small river`s vallyes ('86th Kvartal', Subtaiga zone)

Legend is presented in Appendix 1, Fig. 1

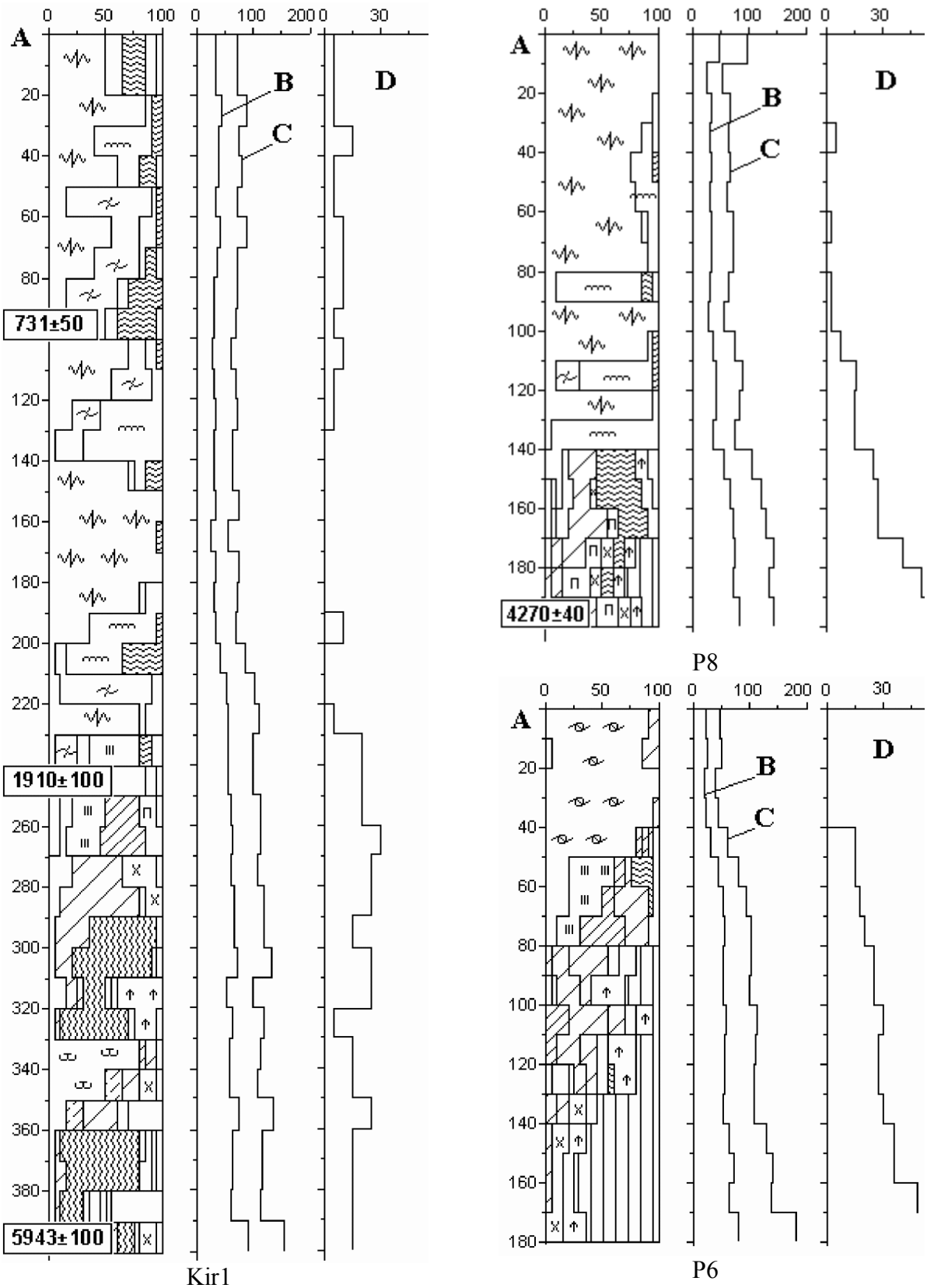


Figure 3. Peat macrofossil (A, %), carbon (B, g C dm^{-3}), organic matter (C, g dm^3) and peat decomposition rate (D, %) in the peatlands of the mixed composition ('86th Kvartal', Plotnikovo, Subtaiga zone)

Legend is presented in Appendix 1, Fig. 1