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ABSTRACTS

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**THE DIATOMS OF KOBYLANKA STREAM NEAR KRAKÓW
(WYŻYNA KRAKOWSKO-CZĘSTOCHOWSKA UPLAND, S POLAND)**

Agata Z. Wojtal

Abstract. The diatoms of Kobylanka stream, a small watercourse near Kraków (Wyżyna Krakowsko-Częstochowska upland, S Poland), are described, illustrated with more than 1300 SEM and LM micrographs, and briefly discussed. Information on their ecology and their distribution generally, in Poland and on the Wyżyna Krakowsko-Częstochowska is provided for every taxon from Kobylanka stream. The 307 diatom taxa identified in the stream include 289 species of 64 genera, 16 varieties and two forms; 26 diatoms are identified only to genus level. The first Polish records of 27 species are reported: *Achnantheidium jackii* Rabhenhorst, *Chamaepinnularia submuscicola* (Krasske) Lange-Bertalot, *Cymbella affiniformis* Krammer, *C. langebertalotii* Krammer, *Cymbopleura hercynica* (A. Schmidt) Krammer, *C. inaequaliformis* Krammer, *Diatoma moniliformis* Kützing, *Diploneis fontanella* Lange-Bertalot, *Encyonema langebertalotii* Krammer, *Gomphonema parvulum* (Kützing) Rabenhorst var. *parvulus* Lange-Bertalot & Reichardt, *G. parvulum* var. *parvulum* f. *saprophilum* Lange-Bertalot & Reichardt, *Luticola paramutica* (Bock) D.G. Mann var. *binodis* (Bock) Van de Vijver, *L. ventricifusa* Lange-Bertalot, *Navicula vilaplani* (Lange-Bertalot & Sabater) Lange-Bertalot & Sabater, *Nitzschia frequens* Hustedt, *N. tubicola* Grunow, *Pinnularia frequentis* Krammer, *P. isselana* Krammer, *P. kuetzingii* Krammer, *P. subcomutata* Krammer, *Planothidium minutissimum* (Krasske) Morales, *Sellaphora nana* (Hustedt) Lange-Bertalot, *Simonsenia delognei* (Grunow) Lange-Bertalot, *Stauroneis leguminopsis* Lange-Bertalot & Krammer, *S. prominula* (Grunow) Hustedt, *S. separanda* Lange-Bertalot & Werum, *Surirella terricola* Lange-Bertalot & Alles. 47 diatoms are new to the Wyżyna Krakowsko-Częstochowska upland: *Achnantheidium eutrophilum* (Lange-Bertalot) Lange-Bertalot, *A. minutissimum* (Kützing) Czarnecki var. *inconspicua* Østrup, *Amphora inariensis* Krammer, *A. montana* Krasske, *A. veneta* Kützing, *Caloneis aerophila* Bock, *Chamaepinnularia krookiformis* (Krammer) Lange-Bertalot & Krammer, *Cocconeis pseudolineata* (Geitler) Lange-Bertalot, *Craticula accomoda* (Hustedt) D.G. Mann, *C. molestiformis* (Hustedt) D.G. Mann, *Cylindrotheca gracilis* (Brébisson) Grunow, *Cymbella proxima* Reimer, *Cymbopleura subaequalis* (Grunow) Krammer, *Encyonema caespitosum* Kützing, *Eolimna subminuscula* (Manguin) Moser, Lange-Bertalot & Metzeltin, *Eunotia incisa* Gregory, *Fragilaria austriaca* (Grunow) Lange-Bertalot, *F. bidens* Heiberg, *Gomphocymbellopsis ancylis* (Cleve) Krammer, *Gomphonema sarcophagus* Gregory, *Grunowia sinuata* Thwaites, *Luticola acidoclinata* Lange-Bertalot, *L. goeppertiana* (Bleisch) D.G. Mann, *Mayamaea*

atomus var. *permitis* (Hustedt) Lange-Bertalot, *Navicula cryptotenella* Lange-Bertalot, *N. cryptotenelloides* Lange-Bertalot, *N. moskali* Metzeltin, Witkowski & Lange-Bertalot, *N. tenelloides* Hustedt, *N. upsaliensis* (Grunow) Peragallo, *Naviculadicta brockmannii* (Hustedt) Lange-Bertalot, *Nitzschia archibaldii* Lange-Bertalot, *N. constricta* (Kützing) Ralfs, *N. inconspicua* Grunow, *N. media* Hantzsch, *N. pura* Hustedt, *N. pusilla* Grunow, *N. sociabilis* Hustedt, *N. supralitorea* Lange-Bertalot, *Pinnularia obscura* Krasske, *P. septentrionalis* Krammer, *Placoneis clementis* (Grunow) Cox, *P. paraelginensis* Lange-Bertalot, *P. porifera* (Hustedt) Cox, *Stauroneis tackei* (Hustedt) Krammer, Lange-Bertalot, Kuesber & Metzeltin, *Surirella crumena* (Brébisson) Van Heurck, *Tryblionella debilis* Arnott, and *T. levidensis* W. Smith.

Key words: Bacillariophyta, small watercourses, long-term study, species richness, taxonomy, ecology, distribution

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