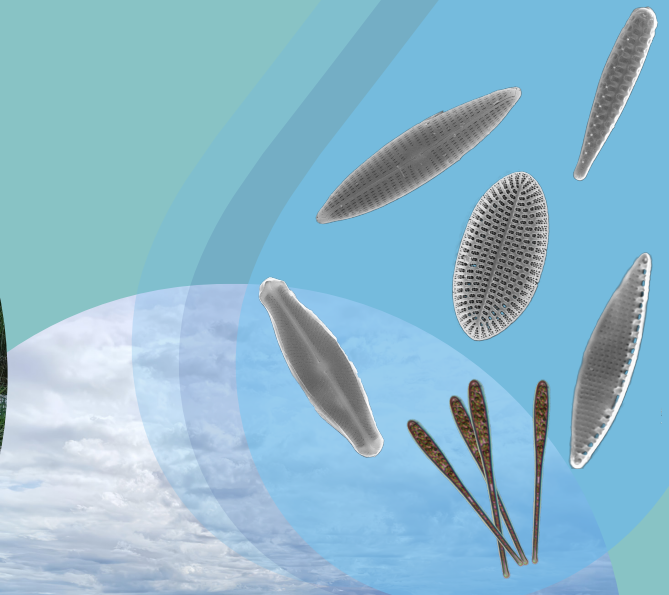


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WWW. DIATOMATLAS.MK – A NEW INTERNET SOURCE FOR DIATOM TAXONOMY AND ECOLOGY

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The Internet is becoming an important source for the taxonomy and nomenclature of diatoms. Several databases contain information on the nomenclature history of taxa, original publications, and some additional data on general ecology and distribution. Only a few databases contain data on species recorded in a specific country/region, including descriptions and illustrations of multiple specimens. Over the past decade, diatom research in N. Macedonia has intensified, resulting in 2,300 species being recorded so far. All observed species are illustrated and described using a light microscope and more than 1000 species with a scanning electron microscope. Additionally, information for morphology, differential characters, comparison with similar taxa, ecology, distribution and threat status of the species in N. Macedonia is provided for each species. The database is searchable by genus, species, author, ecology, locality and conservation status.

www.diatomatlas.mk is a web-based information system that adopts a serverless architecture in which the application programming interface (API) is deployed on a managed container execution environment using Google Cloud Run that provides automatic scaling and stateless service orchestration, while the persistent data storage is handled by Google Cloud SQL, a fully managed relational database service.

This database can be helpful to diatom taxonomists and ecologists, freshwater monitoring experts, conservation institutions, and for those interested in diatom morphology and ecology.

Freshwater Taxonomy

- P24** “Noteworthy and potentially new *Adlafia* species from Croatia and North Macedonia” **Antonija Kulaš, Marija Gligora Udovič, Dunja Jurina, Lina Kovačević, Manuela Spevec, Petar Žutić & Zlatko Levkov**
- P25** “The *Staurosira venter* enigma finally revealed? Evidence from historic material” **Bart Van de Vijver, Agata Wojtal & David M. Williams**
- P26** “Diatom flora in a channel fed by Lake Biwa on the campus of the University of Shiga Prefecture, Japan” **Akira Hatanaka**
- P27** “Extremophilic *Nitzschia* species in a Man-Made Environment: Phylogenetic Link to Crimean Volcanic Isolate” **Rybak Mateusz, Peszek Łukasz & Górecka Ewa**
- P28** “*Odontidium* or *Diatoma* – that is the basic question, an integrative approach to morphological and molecular data” **Julia Sulkowska, Joanna Żelazna-Wieczorek & Rafał M. Olszyński**
- P29** “A study of *Amphora bigibba* Grunow - species complex: the identity of *Amphora binodis* Gregory” **Margaux Pottiez & Ralitza Zidarova**
- P30** “A new taxon from El Macta marhs in Algeria” **Ali Hamadai, Paul Hamilton, Mansour Bouhameur, Semiha Şahan & Cüneyt Nadir Solak**
- P31** “Morphological characterisation of an *Aulacoseira* species (*Aulacoseiraceae*) from a soft-water lake in northwestern Spain” **Ana I. Negro & Manel Leira**
- P32** “First record of a centric diatom *Pantoscekiella* in the Holocene lacustrine deposits of the Great Western Erg (Sahara, Algeria)” **Mansour Bouhameur**

Miscelanea

- P33** “www.diatomatlas.mk – A new internet source for diatom taxonomy and ecology” **Andrej Levkov, Danijela Mitlić Kopanja & Zlatko Levkov**
- P34** “Soil Diatoms – New insights into their diversity and their application as bioindicators for the soil ecological status” **Katherina Schimani, Konrad Schultz, Nélida Abarca, Wolf-Henning Kusber, Oliver Skibbe, Lara R. Prella, Valentina Savaglia, Ulf Karsten & Jonas Zimmermann**
- P35** “Towards a standardized sample size for morphometric descriptions” **Saúl Blanco**
- P36** “Progress with the Diatom Flora of Britain and Ireland” **Ingrid Jüttner, David M. Williams, Edgley Cesar, Eileen J. Cox, Gianfranco Novarino & Martyn Kelly**