

**CHRYSOPHYCEAN ALGAE (CHRYSOPHYCEAE) IN WATERBODIES  
OF THE SOUTH URALS AND TRANSURAL PLATEAU.  
GENUS *SYNURA* (SYNURACEAE) SECTION PETERSENIANAE**

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The article contains data on the distribution of members of the genus *Synura* Ehrenberg from the *Synura petersenii* species complex based on the results of morphometric analysis of siliceous scales performed using scanning and transmission electron microscopy (SEM, TEM). The *Synura petersenii* species complex comprises common, cosmopolitan and highly diverse taxa of autotrophic freshwater flagellates. In this paper, we describe and characterize 5 species first discovered in the region under study (*S. petersenii*, *S. americana*, *S. glabra*, *S. macropora*, and *S. truttiae*), and the scales similar to those of *S. cf. laticarina* and *S. cf. heteropora*. The species have been identified on the base of our extensive sampling in freshwater habitats of the montane-forest zone of the eastern foothills of the South Urals and the steppe Transuralia within the Chelyabinsk and Orenburg regions. The descriptions of the found species are supplemented with original information on their localities, distribution and ecology in the study region, illustrated with electron micrographs, including details of the structure of the siliceous cell covers. The obtained results supplement the information on the flora of chrysophycean algae in Russia and can be used in environmental monitoring of waterbodies.

*Keywords:* *Synura*, taxonomy, morphology, biogeography, ecology, South Urals

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