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Application of Azov3D software system in the educational process in the study of biogeochemical cycles on the example of the Sea of Azov

Abstract: The article explores the application of the Azov3D software suite in the educational process for studying biogeochemical cycles, using the Sea of Azov as an example. Azov3D is a powerful modeling tool that enables the visualization and analysis of complex ecological processes occurring in marine ecosystems. The paper discusses the main functions and capabilities of the software suite. Special attention is given to the practical aspects of using Azov3D for students and educators, including modeling biogeochemical cycles, assessing anthropogenic impacts, and predicting ecological changes.