

Ontologies, Meta2 and Interdisciplinary Knowledge About Lake Baikal.

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The presentation is focused on the project of an interdisciplinary semantic information system “Baikal” (briefly, BIS). This system provides a unified and coherent basis for the scientific interdisciplinary knowledge representation and integration based on the conception of ontologies. The BIS will include the wide-range collection of interrelated data and knowledge about the unique lake. BIS will provide the basis for considering Lake Baikal as a whole system, and bring about much better opportunities for the investigation of the global environmental problems such as climate change.

The BIS will be based on the ontology management system Meta2, which is being developed by our research group. Meta2 is intended to support the investigation and systematization activities of a wide range of scientists.

In this presentation the basic features of Meta2 are considered and the BIS project is outlined.