REG-6 GIS and bioinformatics technologies and mathematical methods in study of Baikal

Ontology Driven Geospatial Representation and Visualization

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Aims

- Development of lake Baikal knowledge base

- Development of interface for knowledge base enlargement

- Development of services based on knowledge base

Ontology

- ☐ Tree like data structure
- ☐ Complex queries
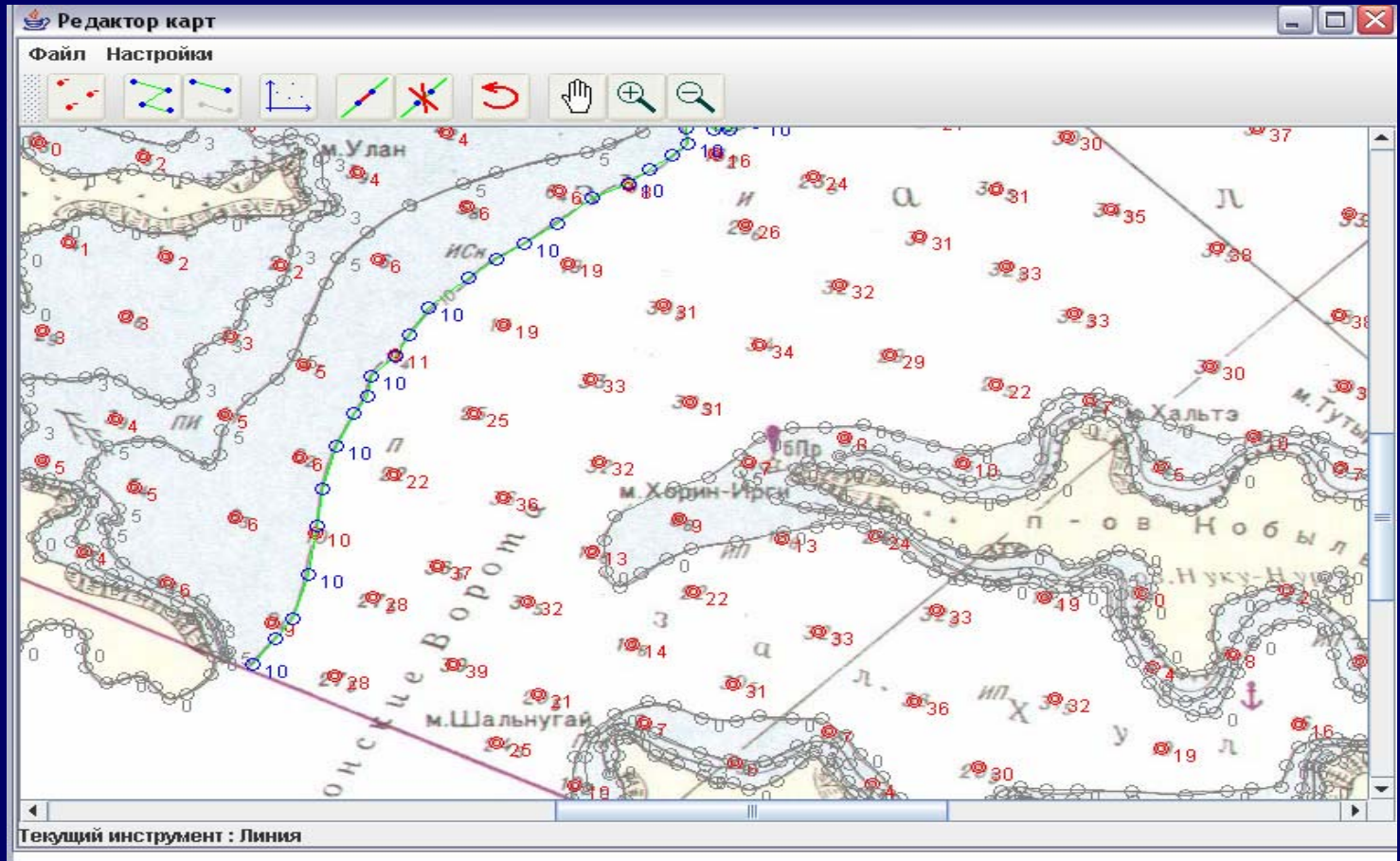- ☐ Easy to combine different ontology

Interface

- ☐ Enlargement of knowledge base by paper maps
- ☐ 4 vectirization tools:
  - ■ Point
  - ■ Line
  - ■ Closed line
  - ■ Spline
- ☐ Extending tools by metadata

Interface

Services

- 3D model of lake
- Depth finding service

Future of the project

- Development of large amount ofontologies
- Development of different web services
- Interface improving