

Representation of the geomorphological results

What & How

September, 2011



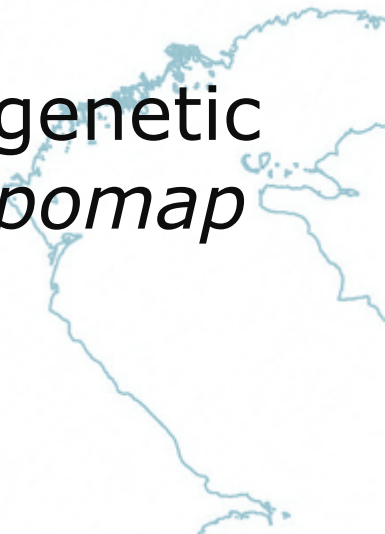
- Cartography - that was done: condition and difficulties
- Next future - large-scale maps and 3D-models for key-areas: capacity and challenges
- End product discussion



Present-day condition

Task: *Study of the coastline of the whole European part of Russia. Scale of mapping is 1 :1 000 000*

What is done:

1. In a **paper** type: morphogenetic map of the coastline, morphodynamic map of the coastline (*in process*) [*base maps: 1 000 000 scale topomaps*]
 2. As a **GIS-layers** (shp-files): morphogenetic map [*base map: 1 000 000 vector topomap from DATA+*]
- 

Present-day difficulties

Data sources are more than 20-years



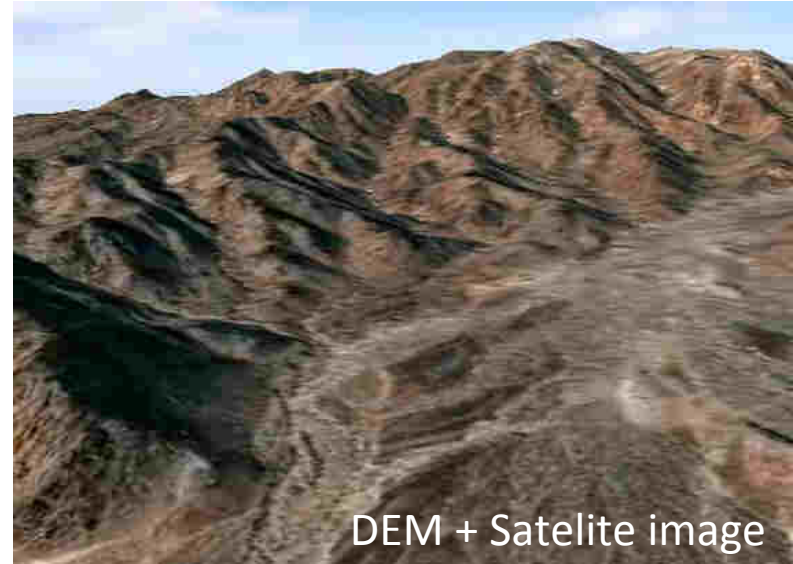
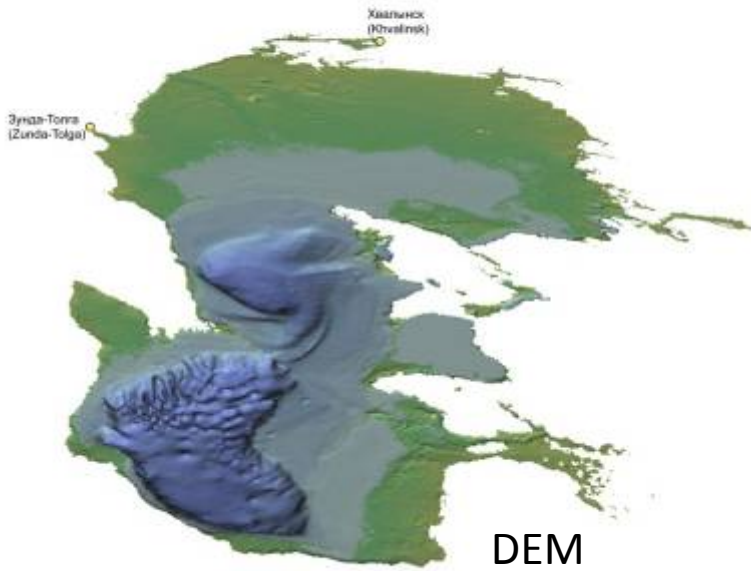
Solutions:

- Verify coastline via satellite images
- Do nothing

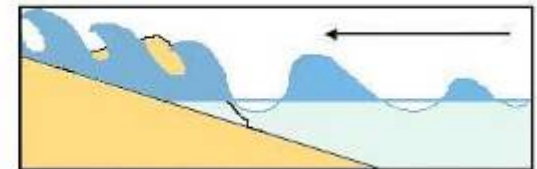
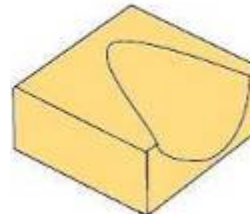
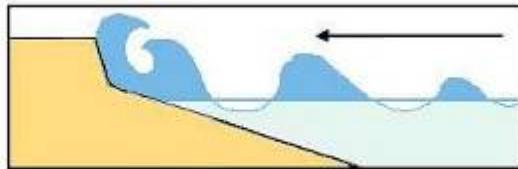
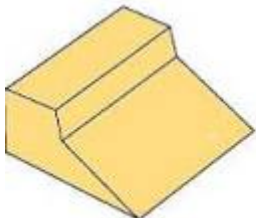
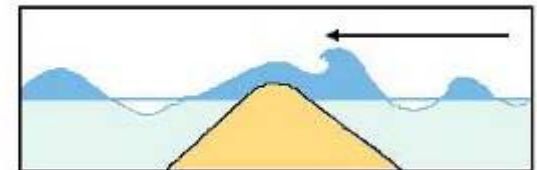
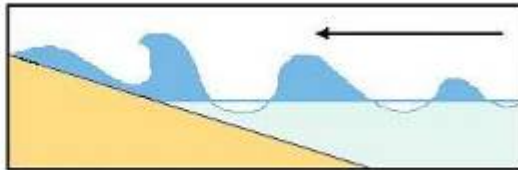
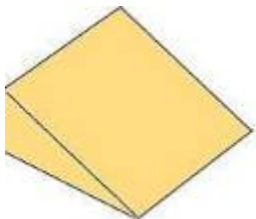
STEPS	CHALLENGES
Large-scale maps for key-areas	<ul style="list-style-type: none">• Find appropriate data sources• Representation of the results <p><i>(What scale (-s), size (-s) and places (land/underwater) for this areas?)</i></p>
3D-Models for key-areas (DEMs)	<ul style="list-style-type: none">• Find appropriate data sources;• Choosing a simulation algorithm;• Model verification;• Representation of the results <p><i>(What the purpose of models: just visualization or next computation based on them?)</i></p>

DEMs capacity

1. Visualization – graphic demonstration



2. Calculation of risk



Summary

- Actual coastline is partially changed in comparison to mapped
- Sizes and scales of key-areas are still unknown
- The ultimate goal of using 3D-models is not clear

Thank you for attention!

...ideas are welcome!

