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Key Features:

- True 3D visualization
- Interactive exploration time-series data
- Cross-visualization of data from different sources
- Supports high level of detail
- Displays large number of features ($> 10^6$ points)
- Animated display of vector fields (wind, currents)
- Access online data sources (WMS, OpenStreetMap)
- Change colormap without reexporting data
- Scene setups can be saved as files or shared as links

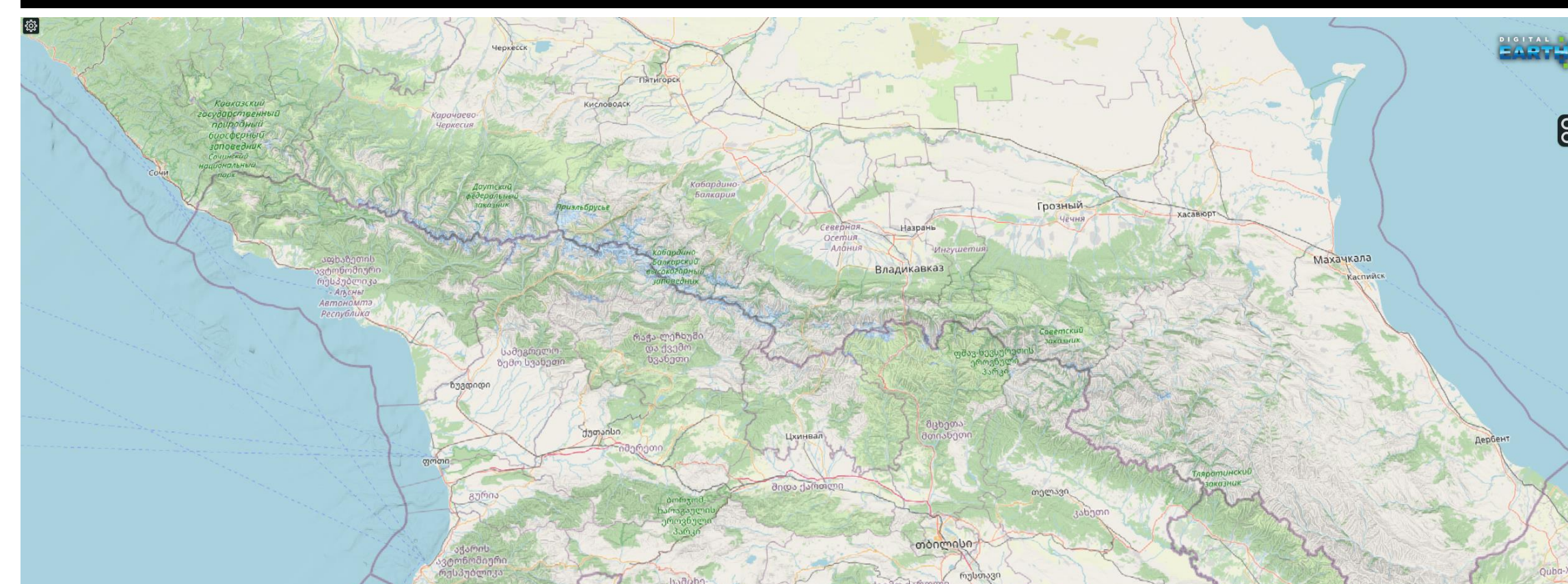
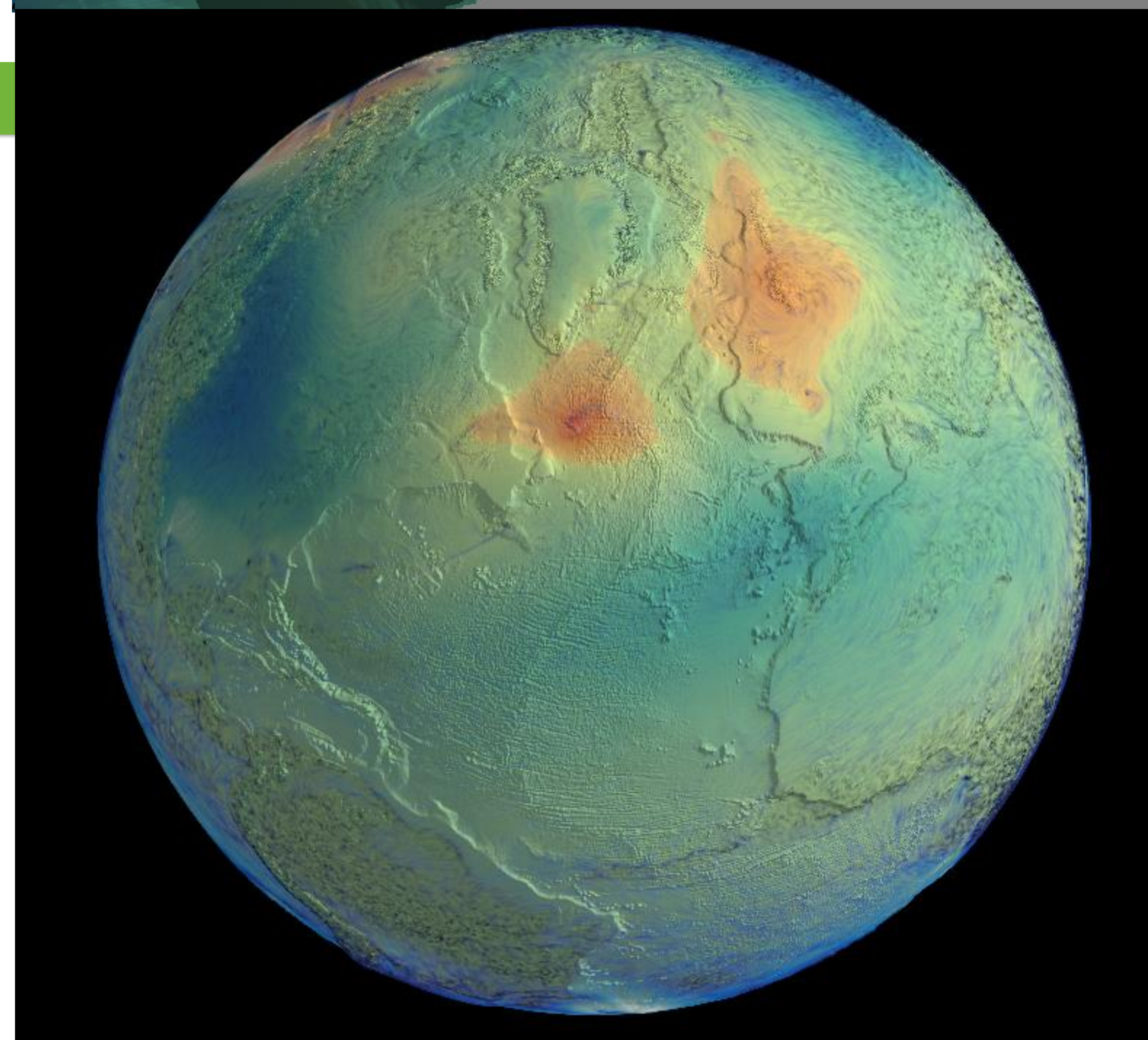
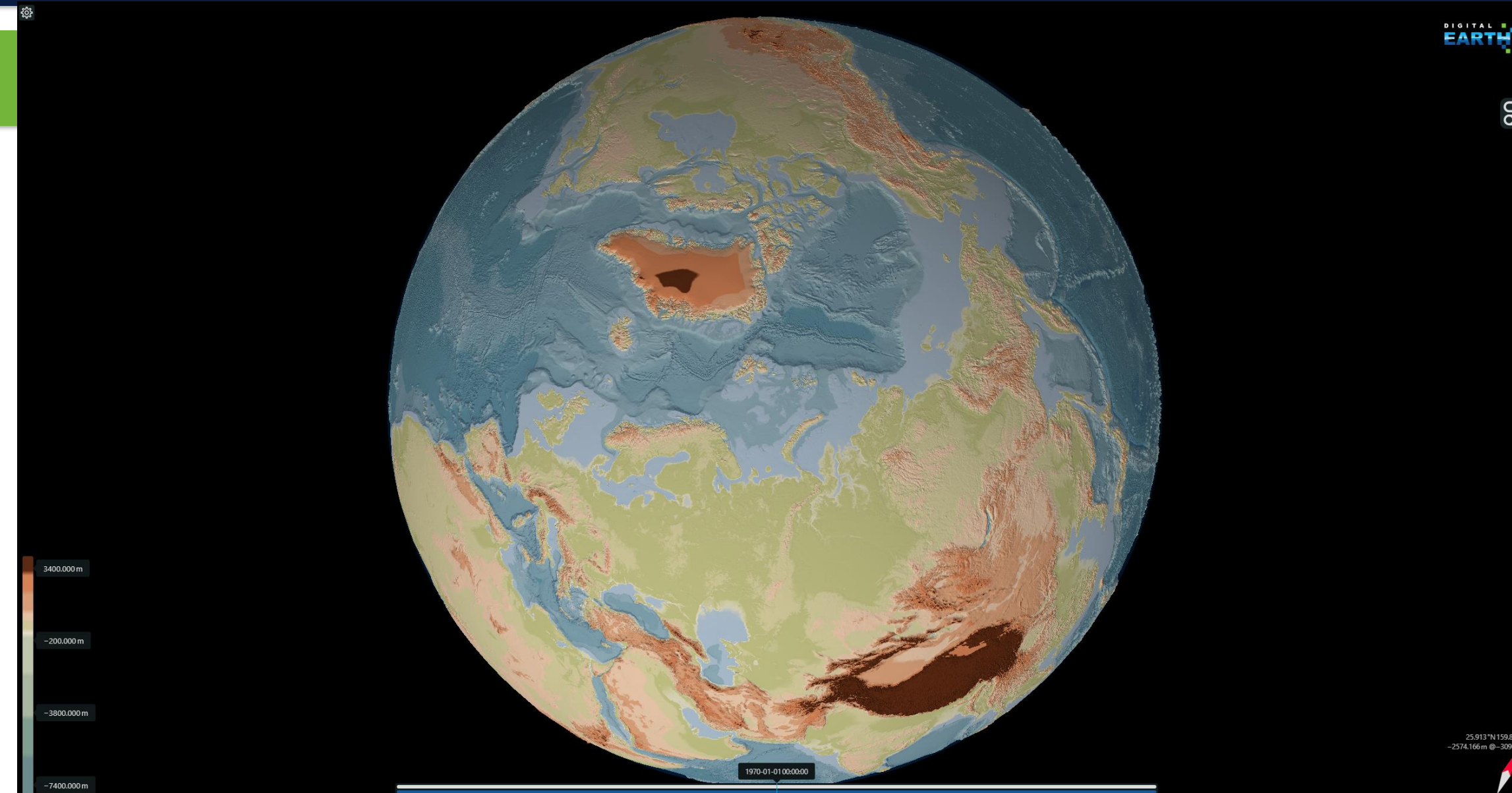
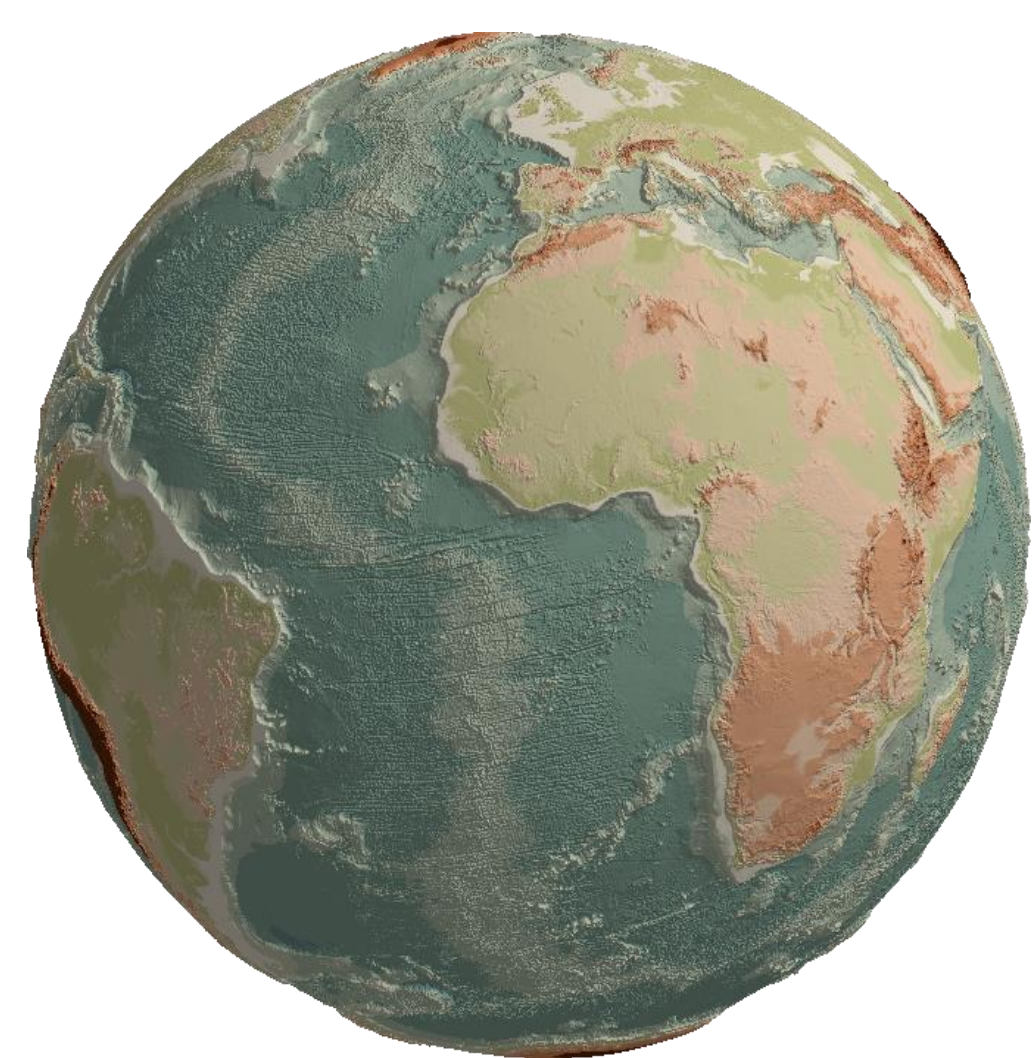
Easy & Accessible

- Whole application is one file (< 20 MB)
- Only needs web browser, no further dependencies
- Visualize local files / share on local network
- Can also be hosted for public access
- Live demo:

<https://digitalearthviewer.geomar.de/>

- Contact us:

digitalearthviewer@geomar.de



Software Architecture

- Self-contained executable
- Can be run as a single-user, multi-user or public web application
- Accesses local files:
 - NetCDF
 - ESRI ASCII Grid
 - Georeferenced Image Files
 - CSV & related structured text formats
 - GPX
- Accesses network data sources:
 - WMS
 - MapTiles
- Modular code structure for easy expandability
- Cross-platform compatibility
- Built-in caching, re-gridding and tiling functionality
- 3D graphics using WebGL
- Rendering resolution automatically matched to device performance

Ongoing Developments

- Further File Formats
- Other Network data sources:
 - THREDDS
 - Copernicus Climate Data Store
 - Landsat / Sentinel
- Visualization styles:
 - Isosurfaces
 - Triangle Geometry
- User-Defined-Filters
- Scripting Interface
- Performance improvements

