



BalMarGrav

"Homogenized marine gravity maps of southern and eastern Baltic Sea for modern 3D applications in marine geodesy, geology and navigation (BalMarGrav)"

Small project of the Interreg Baltic Sea Region Programme Programme priority: 2. Water-smart society Programme objective: 2.2 Blue economy

Period of realization: 2022-2024

Project value: 500 K€

Project objectives:

1. Increase the potential of national sectoral agencies and the Baltic Sea Hydrographic Commission (BSHC) to realize their tasks;

- 2. Building trust that could lead to further cooperation initiatives;
- 3. Initiating and keeping networks that are important for the BSR.



Project Manager: Monika Wilde-Piórko (IGiK, Poland)





BLUE ECONOMY BalMarGrav

Project activities (A), deliverables (D) and output (O)

WP.1: Homogenization of the marine gravity maps of the southern and eastern Baltic Sea

A.1.1: Revitalization and QC of the historical marine gravity data sources

D.1.1: Report on availability and re-processing procedure of the historical marine gravity data

A.1.2: Modern shipborne gravity surveys

D.1.2: Modern marine gravity data for selected areas of southern and eastern Baltic Sea to assess and improve the quality of the existing historical data sources

A.1.3: Homogenization and inclusion of the processed marine gravity data into the national and NKG databases

O.1.3: Homogenized marine gravity data of the southern and eastern Baltic Sea to be used for compiling gravity grids and maps of gravity anomalies

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Challenges:

 improve the problem of insufficient and outdated mapping of the marine gravity field in the south-eastern Baltic Sea region;

Very important task because of the transition to a common chart datum called BSCD2000, which will be based on a geoid model determined through measurements of the Earth's gravity.

Target groups:

- Sectoral agency and related to them institutions responsible for providing geodetic reference systems, national gravity databases and geoid models;
- Baltic Sea Hydrographic Commission (BSHC) Chart Datum Working Group (CDWG), which works to implement the common reference level BSCD2000 in the Baltic Sea;
- Nordic Geodetic Commission (NKG), association of geodesists coordinating many tasks related to improved and joint geodetic infrastructure in the Nordic and Baltic area.

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