The Serbian reference gravity network

Metadata Export - GEO-WB6 GIS Portal

BASIC INFORMATION

Core identification information for the metadata record

Title: The Serbian reference gravity network

Country: Serbia (srb)

Abstract: The fundamental gravimetric network represents the gravimetric reference frame of the Republic of Serbia, which is materialized by a set of permanently stabilized points with determined Earth's gravity absolute acceleration values referring to the realization epoch 1971.0 of the IGSN71 system (International gravimetric standard network).
The gravimetric network is a closed polygons system containing 75 reference points that cover the Serbian territory at average distances from 50 to 70 km. The gravity network structure includes fundamental benchmarks of the Second-order High Accuracy Levelling network (NVT2 project), points of the spatial reference network (SREF project), and also the 3 fiducial points with measured absolute gravity.

Resource Type: Dataset

Language: English

Resource Locator: https://a3.geosrbija.rs/share/78aee5378cfc

INSPIRE Themes: GE: Geology; GN: Geographical Names

GRAPHIC OVERVIEW

■ **Open Graphic Overview in New Tab**

URL: GraphicOverviews/srb/7238299f-cfce-4977-b722-22de74907dde.png

CLASSIFICATION AND KEYWORDS

Categorization and keyword information

Topic Categories: geoscientificInformation, location

Keywords: Gravimetry National

GEOGRAPHIC INFORMATION

Geographic extent and bounding box

Bounding Box: Not specified

Coordinate Reference System: http://www.opengis.net/def/crs/EPSG/0/3046; http://www.opengis.net/def/crs/EPSG/0/4936; http://www.opengis.net/def/crs/EPSG/0/4258

TEMPORAL INFORMATION

Temporal coverage and dates

Temporal Extent: 2004-12-08 - 2009-05-15

Publication Date: 2009-05-15

Creation Date: 2004-12-08

Last Revision Date: 2024-11-29

QUALITY AND CONFORMANCE

Data quality and standards conformance

Lineage / Provenance: 1. First order Gravity Network 1952/53 (SFRY), Potsdam, distance 200-300km, number of points 13.
2. Second order Gravity Network 1952-1958 (SFRY), Potsdam, the distance between points 15-50km, number of points 1900
3. Reference Gravity Network 1964-1967 (SFRY), Potsdam, the distance between points 10km, number of points 1520
4. Reference Gravity Network 2004-2009, IGSN71 system, distance 50-70km, number of points 75.
The RMS error of the estimated gravity accelerations at the points of the reference gravimetric network obtained as a global quality measure of the least squares adjustment is approximately 10 μGal.

Spatial Resolution: 10000

Specification: ISO 19139

Degree of Conformance: Conformant

ACCESS AND DISTRIBUTION

Access constraints and distribution information

Access Constraints: otherRestrictions

Limitations on Public Access: Not specified

Available Formats: ASCII XYZ data format; ESRI Shapefile; KML

Publication URL: https://a3.geosrbija.rs/share/78aee5378cfc

Service Endpoint: https://a3.geosrbija.rs/share/78aee5378cfc

CONTACT INFORMATION

Responsible parties and contact details

Responsible Party - Name: Republic Geodetic Authority

Responsible Party - Role: Publisher

Responsible Party - Contact Name: geoportal@rgz.gov.rs

Responsible Party - Email: geoportal@rgz.gov.rs

Responsible Party - Website: https://www.rgz.gov.rs/

Contact Email: office@rgz.gov.rs

Metadata Contact - Name: Republic Geodetic Authority

Metadata Contact - Role: Metadata Contact

Metadata Contact - Contact Name: Metadata Contact

Metadata Contact - Email: office@rgz.gov.rs

Metadata Contact - Website: Not specified

METADATA DETAILS

Information about this metadata record

Metadata Language: English

Metadata Date: 2025-10-30

Unique Identifier: 88868bc5-a5db-4f8c-adc9-928b9ccc0eae

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