

BGI Gravity Databases - Terms of Use

Data, products or software made available from the BGI website are mostly dedicated to support public, research and academic activities. You may not distribute or publish material you obtained from this site if you do not accept the terms of use.

General terms

(i) Digital gravity data are provided free of charge for non-commercial use to public research or academic institutions, or to data contributors according to the conditions given here (see general and specific terms). In all other cases, including distribution to individual or private/commercial companies, charges will be applied. All users are invited to specify in their request the expected use of the data and products.

(ii) Data retrieval of large datasets is facilitated for institutions or companies who have contributed to the BGI global databases. Any public research/academic or private organization interested to contribute with any kind of gravity data (from land, marine or airborne surveys) is invited to contact BGI (bgi@cnes.fr).

(iii) Appropriate acknowledgment with a byline/credit/link **must** be given to both the “Bureau Gravimétrique International (BGI), <http://bgi.obs-mip.fr>” and the original scientists/data contributors by referencing their relevant publications. Where citation information has been provided to us by scientists it is included with the relevant database entries, and should be acknowledged when data are used.

(iv) Users are strongly encouraged to contact the original investigators responsible for data made available on the BGI site. Where appropriate, researchers are also encouraged to consider collaboration and/or co-authorship with original investigators.

(v) Data are provided with the express understanding that they will not be sold to third parties or included in any commercial databases.

(vi) Data should not be used for navigation purposes.

Specific terms

Relative land & marine gravity data

(i) Non-confidential or non-proprietary digital gravity data are provided free of charge to public, research or academic institutions or to data contributors over geographic areas limited to 20°x20° or on the basis of a maximum number of 10000 data points (land data) and/or 100000 data points (marine data). Retrieval of full data coverage for a whole country is not included in that case. Individual or private companies will be charged for a fixed rate unless they will contribute data to the BGI gravity database.

(ii) All other requests (for larger datasets, for extended geographic area or for a whole country) as well as massive data retrieval will be subject to an evaluation by BGI who may require a specific protocol of use of the data and/or ask authorization of the proprietary institutions. Signature of any protocol of use of BGI data should be done by an authorized representative of the inquiring institution (public, research, academic or private). Charges may be applied.

(iii) Confidential or proprietary digital gravity data also archived at BGI cannot be distributed without permission of the owner company. BGI will transfer all requests of confidential or proprietary data to owner agencies who will determine their own diffusion policies. Charges will be applied according to the data owner policies.

(iv) Users requiring gravity information at global or wide regional scales are invited to use high resolution global grids of gravity anomalies (free air, Bouguer, Isostatic) specifically developed and maintained by BGI and distributed free of charge. They are also invited to consider direct collaboration with BGI for any study including the realization of gravity, geoid models or gravity synthesis at regional scales or CAL/VAL activities using satellite and ground gravity data.

Link to the land gravity database

<http://bgi.obs-mip.fr/index.php/eng/Data-Products/Gravity-Databases/Land-Gravity-data>

Link to the marine gravity database

<http://bgi.obs-mip.fr/index.php/eng/Data-Products/Gravity-Databases/Marine-Gravity-data>

Absolute gravity data

Access to the Absolute gravity database is provided free of charge without any restriction. Data can be retrieved through the Web interface using the link below. Confidential data or proprietary data may appear with restricted information (metadata only).

Link to the Absolute gravity database

<http://bgi.obs-mip.fr/index.php/eng/Data-Products/Gravity-Databases/Absolute-Gravity-data>

Reference gravity stations

Access to the Reference gravity stations database is provided free of charge without any restriction. Please note that reference gravity stations (especially those determined and described decades ago) may have been destroyed or modified. Feedback from users about site status or description is welcome to maintain up-to-date information.

Back to the Reference gravity stations database

<http://bgi.omp.obs-mip.fr/index.php/eng/Data-Products/Gravity-Databases/Reference-Gravity-Stations>

World Gravity Map (WGM)

The World Gravity Map (WGM) denotes a set of high-resolution gravity anomaly maps and digital grids computed at global scale from available reference Earth gravity and elevation models. Release 1.0 (2012) includes a set of three anomaly maps (surface free-air, complete Bouguer and isostatic anomalies) derived from the EGM2008 geopotential model and the ETOPO1 Global Relief Model.

The maps are available at the following address:

Commission for the Geological Map of the World (CGMW)

77 rue Claude Bernard, 75005 Paris, France

Contact : cgm@club-internet.fr

Website: www.cgm.org

- *Global spherical complete Bouguer anomaly map (1:50 000 000 printed maps): 10€*
- *Global spherical complete Isostatic anomaly map (1:50 000 000 printed maps): 10€*
- *Global spherical surface free-air anomaly map (1:50 000 000 printed maps): 10€*
- *Full set of 3 global maps (Bouguer, Isostatic, Free-air) : 25 €*

Référence : Bonvalot, S., Balmino, G., Briais, A., Kuhn, M., Peyrefitte, A., Vales, N., Biancale, R., Gabalda, G., Moreaux, G., Reinquin, F., Sarrailh, M. World Gravity Map, 1:50000000 map, Eds. : BGI-CGMW-CNES-IRD, Paris, 2012. © CGMW-BGI-CNES-IRD