

Gravity data



The gravity data on land have been collected by the Norwegian Mapping Authority (Statens kartverk), the Geological Survey of Norway and foreign and Norwegian academic institutions.

Gravity data from the adjacent sea areas have been collected by the Norwegian Mapping Authority and US Defense Mapping Agency. The database consists of Bouguer gravity anomaly values based on a rock density of 2670 kg/m^3 . The location map shows the distribution of the gravity stations. Bouguer values on land are terrain corrected. The International Gravity Standardization Net (I.G.S.N. 71) and the Gravity Formula 1980 for normal gravity have been used.

The variable areal distribution of the primary observations has been homogenized by extracting stations with a minimum spacing of 1.5 km from the original data set consisting of 130,000 stations (approximately 68,000 on land). This reduced data-set has also been interpolated to a square grid of 2 km x 2 km using the minimum curvature method.

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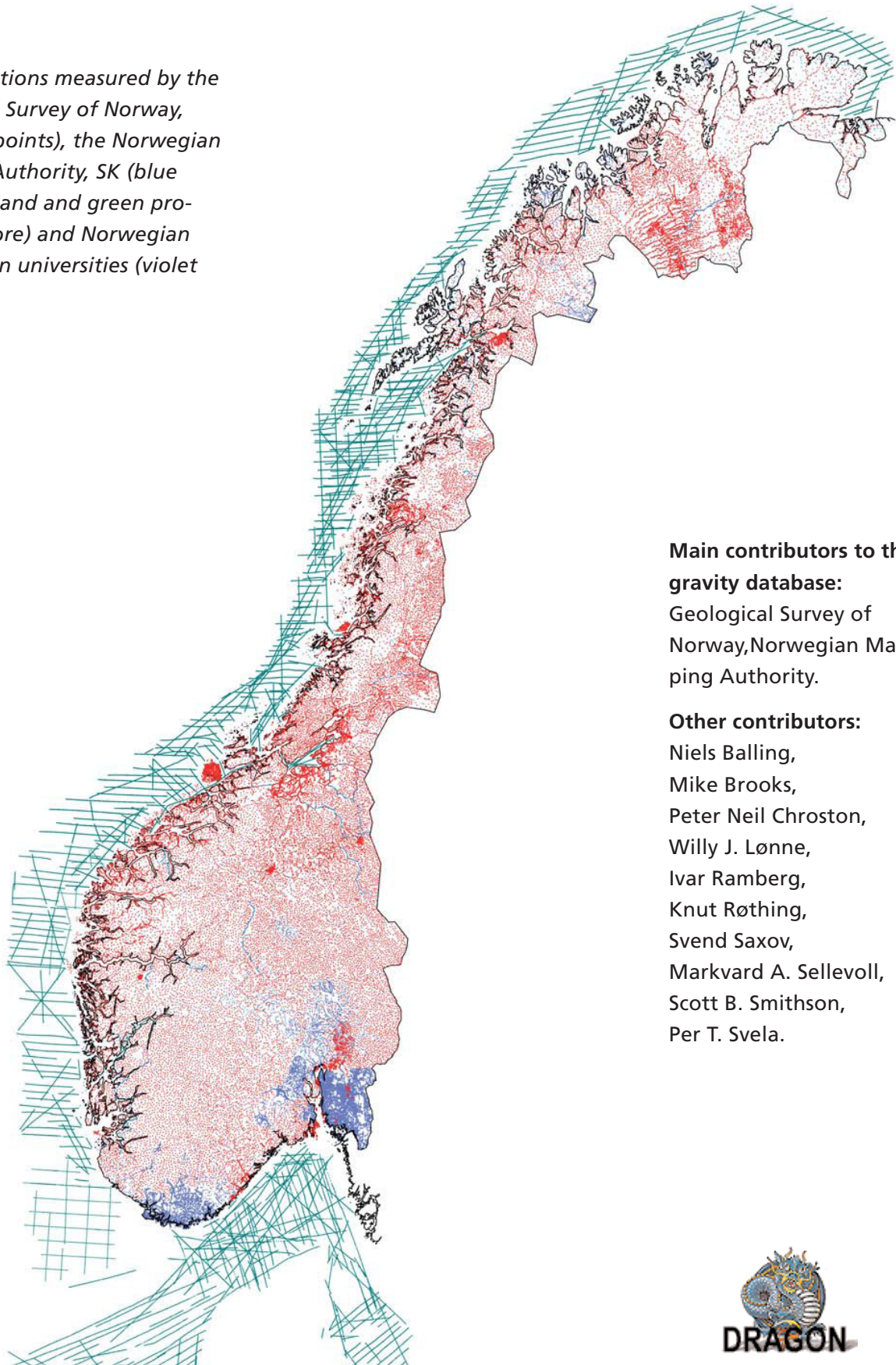
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Gravity stations measured by the Geological Survey of Norway, NGU (red points), the Norwegian Mapping Authority, SK (blue points on land and green profiles offshore) and Norwegian and foreign universities (violet points).



Main contributors to the gravity database:

Geological Survey of Norway, Norwegian Mapping Authority.

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The Geological Survey of Norway's DRAGON project provides direct access to geophysical data, interactive map databases, digital maps and other geophysics products at web address www.ngu.no/dragon

Digital geophysical data sets	Price (NOK)
Bouguer gravity data, mainland Norway (owned by the NGU and SK). 68,000 gravity stations.	90.000
Bouguer gravity data, land and marine areas (owned by the NGU and SK). 130,000 gravity stations. Bouguer gravity maps at a scale of 1:250,000, 1:500,000 and 1:1 mill. are also available.	210.000