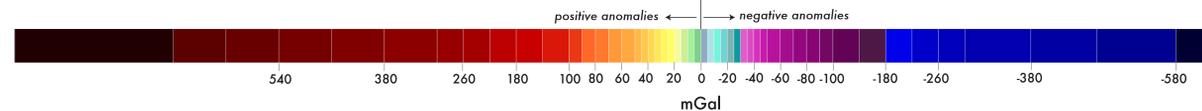


Free-Air Gravity Anomalies

Mercator Projection

compilation and layout by Anne E. Egger, 2006



Gravity anomalies are produced by density variations within the rocks of the Earth's crust and upper mantle and are measured in milligals. Free-air anomalies are corrected for elevation. Positive anomalies indicate the presence of more mass than expected, negative anomalies indicate the presence of less mass than expected.

The On-Line Gravity Map Construction Tool allows to produce gravity anomaly maps of a user-defined region in spherical Mercator map projection. All gravity data come from version 9.1 of the gravity anomaly grid of Sandwell and Smith [1997]. This grid has a resolution of 1-minute (1/60 degree) in longitude and a latitude range from 72.000N to 72.006S. The whole grid is formed by a matrix of 12672 rows by 21600 columns. Coastlines are displayed as black lines and have been generated by interpolation of points listed in the high-resolution version of the Global Self-consistent Hierarchical High-resolution Shorelines (GSHHS) dataset of Wesel and Smith [1996]. Images were obtained from the Online Gravity Map Construction Tool available at <http://www.its-molinaro.mi.it/Gravity.htm>