



## Geophysical Applications of GOCE and GRACE Measurements

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**closed (30 July 2024)**

### Message from the Guest Editors

Dear Colleagues,

The Gravity field and steady-state Ocean Circulation Explorer (GOCE) was the first satellite gravity gradiometry mission for precise and high-resolution gravity field modelling. GOCE was planned for a lifetime of two years but lived longer and provided valuable information about the Earth's gravity field. Its data have been successfully used for different purposes in Oceanography, solid Earth Geophysics and Geodesy. New theories and applications can still be further developed to extract more information about our planet from this valuable source of data. This Special Issue is organised with the main purpose of promoting geophysical applications of the GOCE data, being published to celebrate 10 years of the end of the GOCE mission (2009–2013). Papers focusing on applications in Oceanography, Geology, and Geodesy are also welcome to this Special Issue.

- Global and local gravity field modelling
- Determination of crustal structure, Moho depth and density contrast
- Elastic thickness modelling
- Ice and sediment thickness
- Lithospheric stress and thermal state
- Oceanographic applications
- Geodetic applications





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