



## GRACE Facing the Challenge of Extreme Spatial and Temporal Scales

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### Message from the Guest Editors

Dear Colleagues,

Launched in 2002, the GRACE gravity satellite mission has revolutionized the way large mass changes can be detected on Earth. In this special issue, we invite geodesists and researchers in Earth Sciences to think together how such extreme—small and large—spatial and temporal scales could be further understood and captured, either by evolving GRACE data analysis techniques or by combining GRACE with other observation tools (whether geodetic: GNSS, InSAR, ground gravity—or alternate information, such as remote sensing or surface observations), models (land surface models, hydrological models) and/or mathematical methods (down and up-scaling, etc.). The objective is a better understanding of the potential and current limitations of gravity-based mission, such as GRACE, and how the design of future satellite missions could bring critical new insights into fluid and solid mass transport at the surface of the Earth.

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*Guest Editors*





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## Message from the Editor-in-Chief

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