



Global Navigation Satellite Systems for Earth Observing System

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Message from the Guest Editors

We have seen the progress of GNSS, which is originally not designed for earth observation, but now provides opportunities in a broad scope of earth science processes. For one thing, the advancements in multi-GNSS, including GPS, GLONASS, BeiDou, Galileo and QZSS continually improve the precision and accuracy of GNSS positioning; for another, high-quality positioning solutions makes GNSS ideal for studying geohazards and many types of geophysical phenomena, such as the movement of tectonic plates, volcano inflation and deflation, and smaller-scale phenomena such as landslides. Many countries have funded projects to establish GNSS stations and networks, such as the American Plate Boundary Observatory, the Japanese GNSS Earth Observation Network System, and the Crustal Movement Observation Network of China. These projects have produced very abundant GNSS data for earth observation. As a result, new problems and challenges in GNSS algorithms, data processing, geophysical applications, and scientific interpretations will arise.

We kindly invite original research and case studies focusing on recent developments in GNSS theories and algorithms and GNSS earth science applications.





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Message from the Editor-in-Chief

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