



## **Editorial Board Members' Collection Series: "Recent Progress of GNSS/GPS Radio Occultation Techniques"**

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### **Message from the Guest Editors**

In recent decades, global navigation satellite systems (GNSS), including the global positioning system (GPS), have provided unique opportunities to sense the Earth's environments from a variety of observing geometries with relatively low-cost sensors. The application of radio occultations (RO) for numerical weather prediction, ionosphere, and space weather has been growing. This is explained by the fact that RO observations, which are unique in some respects, allow achieving high accuracy and vertical resolution in sounding the Earth's atmosphere and ionosphere.

GNSS-RO measurements are fundamentally self-calibrating and do not require any external calibration source. As a result, they can be assimilated into numerical weather prediction models without any bias correction and are ideally suited for long-term climate monitoring. In recent years, the potential values of GNSS reflections in a wide array of Earth science and applications, including coastal altimetry, ocean winds, and soil moisture, have garnered increasing attention.





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