



Radio Occultation Climate Data Records and Application

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Message from the Guest Editors

Radio occultation (RO) is a method for exploring planetary atmospheres.

RO data have a large potential for climate related assessments, as the core measurement is based on the measurements of precise time information provided by atomic clocks. Different instruments can be combined to generate long-term datasets. With more than two decades of continuous RO observations being available now, neutral atmospheric data has also been included in the latest Assessment Report 6 of the Intergovernmental Panel on Climate Change (IPCC). Several RO groups provided climate data records to this report, to cover information on long-term temperature trends in the middle to upper atmosphere.

This Special Issue is inviting contributions covering radio occultation climate data records, as well as use of such records in, e.g., re-analysis, or applications of such records for climate related studies. These contributions can make use of neutral atmospheric observations, and/or ionospheric ones.





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