



Retrieval and Validation of Trace Gases Using Remote Sensing Measurements

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Message from the Guest Editor

Dear Colleagues,

Remote sensing trace gas observations from satellites are increasingly used in a wide range of applications. Development of new instruments and advances in remote sensing techniques and retrieval methods have enabled improvements in spatial, temporal, and vertical characterization of trace gases. Different observation platforms, measurement techniques, and retrieval methods yield different sampling of the atmosphere in both space and time as well as different sensitivity to atmospheric and observational parameters. To maximize science, applications, and societal benefits from these capabilities, it is crucial to carry out well-established evaluation strategies, including a thorough analysis when comparing measurement-derived geophysical parameters with correlative observations acquired by independent instrumentations from various platforms. This Special Issue focuses on compiling various scientific works related to retrieval and validation of trace gases from orbital, suborbital, and ground-based remote sensing instruments.

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Guest Editor





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