

## Special Issue

# Remote Sensing of Mesosphere and Lower Thermosphere Dynamical Tracers from Space

### Message from the Guest Editor

Remote observations of long-lived trace gases in the mesosphere and lower thermosphere (MLT), depicting the dynamics of this atmospheric region, are often used to quantify dynamical phenomena that are otherwise difficult to measure (i.e., winds, waves, diffusion, etc.). Over the past few decades, satellite technology has provided a wealth of global measurements of tracers' distributions in the MLT, which have already reached a continuous coverage over close to two solar cycles from single instruments in some cases. In this Special Issue, we welcome manuscripts describing tracer measurements from space and evaluating their quality, more specifically related to the following aspects: - Retrievals, uncertainties, and error assessment; - Comparisons between datasets (including ground-based observations) and evaluation of biases or instrumental drifts; - Climatologies and variations at any time-scale; - Recommendations for future satellite instrumentation (and also ground-based instrumentation in support to satellite technology). Dr. Maya Garcia Comas

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 October 2020)



## Atmosphere

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## About the Journal

### Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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### Editor-in-Chief

Dr. Daniele Contini

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