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Atmospheric Measurements Using Unmanned Systems

Guest Editors:

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Deadline for manuscript submissions:
closed (12 February 2022)

Message from the Guest Editors

Dear Colleagues,

The opportunities that unmanned systems provide to collect real-time observations of the atmosphere are growing. Both small and large unmanned systems have been developed to support atmospheric scientific research as well as operational monitoring for decision support systems. Large-scale systems can provide critical timely observations of the atmosphere during significant events such as hurricanes and severe storms, while small innovative unmanned aircraft systems (UAS) can be adapted to include high-precision sensors to collect high-frequency measurements of the atmosphere, which was not possible with previous sensor systems.

This Special Issue is addressed to the two communities of *Atmosphere* and *Drones*. We are interested in papers that focus on all aspects of the application of unmanned systems for atmospheric measurements. These include, but are not limited to, experimental campaigns highlighting the testing and evaluation of new sensors.

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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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