Special Issue

Improving Air Quality Predictions and Assessment across Scales

Message from the Guest Editors

The presence of air pollutants has prominent impacts on human, ecosystem, and crop health, and thus it is critical to improve air quality assessments and predictions across scales. In response to this concern about air pollution, there have been significant reductions in anthropogenic emissions over the last decades in many parts of the world, thus leading to relatively "cleaner" atmospheric conditions in some regions. Consequently, more emphasis has been placed on understanding the roles of natural emissions. Numerous world regions have experienced events leading to significantly worsened air quality conditions. To highlight such efforts in the scientific community, we are inviting the submission of research papers that investigate improved methods, applications, and evaluations of air quality assessments and predictions across scales. Papers that delve into the interplay between anthropogenic and natural source emissions and how they affect atmospheric composition and air quality are also encouraged. Finally, papers using novel measurement techniques, observations, and analysis/statistical methods to evaluate air quality model predictions across scales are welcome.

Guest Editors

Dr. Patrick C. Campbell

Dr. Barry D. Baker

Dr. Daiwen Kang

Deadline for manuscript submissions

closed (20 May 2023)

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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!

Editor-in-Chief

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