



## Meteorological and Air Quality Modelling

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Deadline for manuscript submissions:

**closed (15 April 2021)**

### Message from the Guest Editors

Dear Colleagues,

Models are currently the primary components for analysis in most meteorological and air quality assessments and the only tools available for future projections, allowing alternative scenarios to be investigated. Moreover, in contrast to the limitations in the spatial coverage of field measurements, models allow assessments over large regions, even the globe. Despite their advantages, modelling outputs are subject to significant uncertainties due to deficiencies in our knowledge and limitations owed to the various spatial and temporal resolutions involved in the processes. These shortfalls can to some extent be offset by the validations of models with the help of measurements that can be used in a complementary manner, or the development of modelling ensembles that advance our knowledge on the impact of the various alternative parameterizations on the modelling outputs.

The Special Issue of *Atmosphere* is oriented towards numerical weather prediction and air quality modelling communities and aims to present a collection of studies that advance our knowledge on all aspects of this field.

Dr. Rafaella Sotiropoulou  
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*Guest Editors*





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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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