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Forecasting the Transport of Volcanic Ash in the Atmosphere

Guest Editors:

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Deadline for manuscript submissions:
closed (15 August 2020)

Message from the Guest Editors

Dear Colleagues,

It has been nearly 10 years since the eruption of Eyjafjallajökull in Southern Iceland highlighted the significant impacts that airborne volcanic ash can have on aviation-based activities. For 6 days in April 2010, air traffic over Europe was paralysed, with much of the airspace restricted in response to the threat posed to jet engines by volcanic ash. The response to the crisis has been a strengthening of the research effort aimed at increasing the detection and forecasting of volcanic ash in the atmosphere. Topics of interest include, but are not limited to the following:

* Characterisation of the eruption source term. This is a requirement for accurate modelling output. What is the state of the art?
* Ensemble-based forecasting and uncertainty. What are the best approaches for performing and using ensembles? What are the best approaches for communicating uncertainty to end-users?
* Operational use of volcanic ash modelling. How can operational services and industry best use the information available? How have models advanced since 2010?

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Dr. Claire Witham
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Editor-in-Chief

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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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