



Extreme Climate Events and Air Quality

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closed (15 July 2021)

Message from the Guest Editors

Extreme climate events have been reported in several studies to have consistently shown a synergistic effect on air pollution. Nonetheless, the potential weather–air pollution interaction during wildfires and dust storms is still poorly explored. Understanding the impact of extreme climate events on air quality in a changing climate becomes crucial.

Original results and review papers related to the analysis of the synergistic effect between air pollution and extreme weather events are therefore welcome. Authors are encouraged to analyze the underlying mechanisms associated with the occurrence of the weather extremes' interactions with air quality with the purpose of establishing linkages between local- to synoptic-scale patterns and air pollution, from both anthropogenic (traffic, industry, etc.) and natural (fires, dust storms) sources. Considering climate change, studies showing the health co-benefits of reducing greenhouse gas emissions and urban air pollution are of particular interest for this Special Issue. This Special Issue is also an appropriate venue for papers that deal with the emerging field of compound events.





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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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