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Long-Range Transport of Dust over the High-Latitude Regions

Guest Editor:

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Deadline for manuscript submissions:
closed (20 November 2020)

Message from the Guest Editor

Dear Colleagues,

High-latitude regions (HLRs) are the most remote but also the most vulnerable sites on Earth to current climate change. It has been suggested that mineral dust contributes to the amplification of climatic effects over there (the so-called 'Polar amplification effect') through the deposition of light-absorbing particulate on snow and ice. Mineral dust can also affect the radiative forcing in HLRs by direct and indirect effects.

This Special Issue aims to integrate and summarize contemporary insights and findings on the soil sources, the emission rates, the particle characteristics, the trasport routes and the atmospheric processing of long-range transported dust reaching the HLRs. Both research articles and reviews that provide a cross-cutting view of the progress of research on these topics are welcome. We are particularly interested in original research papers dealing with the relationships between long-range soil sources and dust properties at receptor sites by field measurements, observational studies, laboratory experiments, and numerical models.

Dr. Beatrice Moroni
Guest Editor

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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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