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Unusual Aerosol Conditions in the Arctic

Guest Editors:

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Deadline for manuscript submissions:
closed (15 October 2021)

Message from the Guest Editors

We have recently observed that beside the persistent and accelerated natural and anthropogenic processes which modify the Arctic atmosphere, the extreme aerosol events are becoming a very serious large-scale source of adverse impact on the Arctic atmosphere. These aerosols and other pollutants are commonly transported from lower latitudes into the Arctic where they remain in the atmosphere, change their properties, and are deposited to the surface.

The physical, optical, and chemical properties of atmospheric aerosols are difficult to describe since they are of different origins (sources outside the Arctic or local) and also relate to meteorological conditions, which facilitate or prevent aerosol transport from distant sources or inhibit particle formation from local sources. Therefore, an increasing number of various aerosol events both local and regional (also extreme events) is an emerging issue, which we must now thoroughly study.

We invite research papers, inter- and transdisciplinary as well as review papers, contributing to the description of the Arctic climate issues related to aerosol studies (including extreme aerosol events), and which refer to the themes of the call.

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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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