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10th Anniversary of Atmosphere: Air Quality

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Deadline for manuscript submissions:

closed (31 December 2019)

Message from the Guest Editors

Air quality (AQ) has recently received a lot of public interest. Various pollutants have namely been found to be health-adverse. Elderly, sensitive people, people with lung- or cardio-related preconditions, and pregnant women are especially at risk for poor AQ related issues. An important aspect of air quality is also the interaction of trace gases and particles with the water and energy cycle via the aerosol impacts on cloud and precipitation formation and reflectivity, as well as water quality in rivers and contaminant input into terrestrial and aqueous ecosystems including the soil and oceans.

This Special Issue will call for submissions that can overcome current gaps in understanding the interactions between AQ and the Earth system. The topics will include but are not limited to examining the: (1) Relations of AQ and health; (2) impacts of AQ and (Arctic) haze; (3) aerosol–cloud interaction; (4) AQ hazards; (5) AQ climatology and field campaigns; and (6) improvements in AQ modeling including emission modeling and inventories.

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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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