

Special Issue

Convection and Its Impact on Weather

Message from the Guest Editor

We invite you to contribute articles to this Special Issue by reporting on observational, numerical, and analytical studies of convection in weather and weather forecasting including phenomena such as mesoscale convective systems, middle latitude convection in frontal systems and polar lows, as well as tropical cyclones and large-scale tropical modes and their teleconnections. Articles discussing and quantifying processes such as the atmospheric heat engine, the diurnal cycle of convection, convective momentum transport, tracer transport in the troposphere and into the stratosphere, as well as microphysical processes in convective clouds are also encouraged. Finally, we encourage articles that quantify the growth of convective disturbances and/or improve their predictability.

Guest Editor

Dr. Peter Bechtold

European Centre for Medium-Range Weather Forecasts, Reading, UK

Deadline for manuscript submissions

closed (31 July 2019)



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About the Journal

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!

Editor-in-Chief

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