



Extreme Weather Events and Atmospheric Circulation

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Message from the Guest Editor

The currently observed climate warming raises no doubts. It is manifested by the increasingly frequent occurrence of extreme weather events. Not only their frequency, but also their duration and intensity have increased over recent decades. A similar direction of changes is forecasted for the next decades of the 21st century. The aforementioned changes are simultaneously accompanied by a decrease in the frequency of negative extremes, including cold spells. The occurrence of extreme air temperature values should be considered in the context of circulation conditions because atmospheric circulation is recognized as one of the most important factors determining weather conditions at moderate latitudes.

Due to the serious threat to human health and life, as well as the great economic losses related to the occurrence of extreme weather events, the articles presented in this Issue could be useful for a broad and diverse group of recipients. This Issue will prefer studies regarding the occurrence of extreme air-temperature values and their circulation conditions. Studies in the scope of forecasting of the occurrence of such events in the 21st century will also be welcome.





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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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