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Climate Variability and Human Impacts in Central Europe Based on Documentary and Instrumental Data

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editors

The focus of this Special Issue concentrates on characterizing long-term climate variability on the scale of past 500-year climate reconstructions based on documentary data (temperature, precipitation, droughts) as well as on the analysis of recent climate change based on instrumental meteorological observations (temperature, precipitation, snow cover, etc.) with respect to circulation patterns in Central Europe. Particular attention is devoted to the analysis of climate anomalies, climate and weather extremes with the most serious impacts on human society. These types of studies focus particularly on the most endangered sectors of human society represented, among others, by loss of human lives and material damage caused by hydrometeorological extremes. The knowledge obtained from proposed studies seems to be crucial for understanding recent and future climate change and for the management of adaptation measures for ensuring future sustainable environmental development in this part of Europe.

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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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