



## Impacts of Hot and Cold Spells for Non-communicable Diseases

Guest Editors:

**Dr. Vidmantas Vaičiulis**

Department of Environmental and Occupational Medicine, Faculty of Public Health, Lithuanian University of Health Sciences, LT 44307 Kaunas, Lithuania

**Prof. Dr. Jonė Vencloviėnė**

Faculty of Natural Sciences, Department of Environmental Sciences, Vytautas Magnus University, LT-44191 Kaunas, Lithuania

**Prof. Dr. Ričardas Radišauskas**

Department of Environmental and Occupational Medicine, Faculty of Public Health, Lithuanian University of Health Sciences, LT-47181 Kaunas, Lithuania

Deadline for manuscript submissions:

**closed (10 June 2022)**

### Message from the Guest Editors

Non-communicable diseases (NCDs) such as respiratory and cardiovascular diseases are very sensitive to environmental conditions. Natural and anthropogenic disasters can cause the collapse of health infrastructure through a combination of a marked increase in demand due to injuries, diseases, and increased stress levels. Extreme weather events and disasters are predicted to increase in the course of the ongoing climate change. Therefore, impacts on NCDs are very likely to increase, which raises the importance of the hitherto paucity of knowledge about this research area.

The aim of this Special Issue is to showcase the new results of associations between weather and various aspects of human health in direct and indirect ways. The main topics of this Issue are: (1) the impact of cold spells on humans, (2) the impact of hot spells on humans, (3) the complex effect of hot or cold spells and other environmental phenomena (e.g., atmospheric pressure, seasonality, air pollution, and teleconnection patterns) on the risk of adverse health events or fluctuations in the physiological variables in humans in different climate zones, and (4) the prognosis of hot and cold spells for the future.





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## Editor-in-Chief

### **Prof. Dr. Ilias Kavouras**

Environmental, Occupational,  
and Geospatial Health Sciences,  
CUNY School of Public Health,  
New York, NY 10027, USA

## 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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Atmosphere Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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