



Regional Climate Patterns and Extremes in the Mediterranean

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Message from the Guest Editors

Dear Colleagues,

The Mediterranean Basin's regional climatic characteristics and potential extremes affect various sectors such as civil protection, constructions, tourism, offshore energy applications and more. These Mediterranean climate patterns are mainly driven by mid-latitude and sub-tropical circulation regimes, while their local nature is often influenced by the basin's warm waters and geomorphological features including complex topography and many islands. It is also well known that the Mediterranean Sea is often characterized by adverse weather with intense cyclonic activity and strong convection. The multidimensional impact of all these on human life enhances the need and highlights the importance for further research.

In this framework, the Special Issue on “Regional Climate Patterns and Extremes in the Mediterranean” will include (but will not be limited to):

- Spatial and temporal climatic characteristics, variability and changes;
- Links with global teleconnections;
- Extreme value analysis and applications;
- Dynamics of extreme weather events (fronts, cyclones, strong convection);
- Impacts of extremes;





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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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