Special Issue

Forecasting Heavy Weather in Mediterranean Region

Message from the Guest Editor

The Mediterranean Sea basin is characterized by the presence of a complex orography, with mountain ranges close to a highly urbanized coast. In addition, the sea is a source of water vapor and heat, which makes this region particularly exposed to severe weather events such as flash floods, heavy rainfall, tornadoes, and tropical-like cyclones. During the warm season, heat waves and droughts represent a major threat for this region. The understanding of the physical and dynamical processes of heavy weather events as well as the impact of high-resolution data assimilation approaches are essential for improving their forecasting. These is a key point to improve in short- and long-term society resilience against the exspected increase of extremes in the Mediterranean region. This Special Issue offers the opportunity to publish quality articles on the nowcasting, deterministic and probabilistic ensemble based approaches, impact of high-resolution data assimilation, and characterization and physical description of the severe weather events.

Guest Editor

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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!

Editor-in-Chief

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