# Special Issue

## 'Climate and Weather Risks in South-Western Europe'

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**TOPICS**

**Climate models and scenarios:** To define adaptation policies in the context of climate change, it is necessary a detailed study of the climate, both at global and regional scales, since global warming affects different territories in different ways. It is necessary to advance in the understanding and modeling of the climate system using Models of General Circulation of Atmosphere and Ocean and of Regional Climate Model.

**Variability, extremes, and climate-weather risks:** In the current context of climate change, an increase in climatic variability has been observed with greater frequency and intensity in the occurrence of extreme events such as heat waves, droughts, and floods.

**Climate, oceans, and natural systems:** Ocean is not immune to the effects of climate change. Some of the most obvious consequences of climate change are the sea level rise, ocean temperatures rise and changes in ocean currents, the loss of biodiversity, and the associated change in coastal erosion.

**Climate-Weather, health, economy, and society:** Climate change and weather affect different areas of society: human health, agriculture, livestock, fisheries, and tourism. Interdisciplinary research in these complex relationships is crucial in adapting to climate change and how climate change affects the socio-economic system.

**Climate-meteorological applications:** Climatic and meteorological applications and their risks are subjects of great interest in the current study of the atmosphere, such as forest fires, air quality, aeronautical, agricultural or forest meteorology, as well as aspects related to solar and wind energy applications.

**Weather analysis and forecasting:** Analyzing and forecasting different meteorological phenomena is a key issue in studying adverse meteorological phenomena and the potential associated risks. Using different research or operational models, sensitivity to different parameterizations, or ensemble prediction techniques.

Please note that this **special issue is invitation only**, if you are invited by guest editors to contribute, please submit the manuscript via journal online submission system or contact the guest editors.