Special Issue

Geo-Hydrological Extreme Events in the Mediterranean and Black Sea Areas

Message from the Guest Editors

This Special Issue is dedicated to the geo-hydrological severe events that frequently hit the central Mediterranean area, particularly the coastlines and hinterland of western Italy and southern France, including Sardinia and Corse. From the year 2000, many intense rain events have hit the area, causing large damages and casualties: precipitation peak intensity reached the maximum of about 180 mm/h in the Genoa Metropolitan area (I) in 2011, but very high intensities have been recorded during several other events both in Italy and in France. The purpose of this Special Issue is to focus on both the geo-hydrological hazard associated to extreme events and on the meteorological configuration that originates them, including the monitoring techniques. Both flood/flash flood and diffuse shallow landslides are triggered by heavy rains and cause devastating effects, often involving urban/peri-urban areas and infrastructures: any contribution in these areas of research is welcome, together with studies concerning the atmospheric processes responsible for the triggering mechanisms and other extreme events such as supercell thunderstorms, windstorms, and downbursts.

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Deadline for manuscript submissions

closed (15 October 2021)

Atmosphere

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Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/52082

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About the Journal

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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