Special Issue

Hydrometeorological Extremes and Its Local Impacts on Human-Environmental Systems

Message from the Guest Editors

Extreme events of tropical typhoons in summer cause a number of casualties as well as a tremendous amount of social and financial loss. Such climate changes are expected to continue in the 21st century, and the intensity and frequency of typhoons over the Pacific Northwest region will increase. As a result, serious damage over East Asia is expected, and thus, quantitative evaluation of the possible influence and establishment of a disaster-preventive system is urgent. Extreme hydrometeorological events are critically important not only for their episodic impacts, such as floods or droughts, but also for their significant contribution to seasonal freshwater supplies that maintain the integrity of the human and natural system. This Special Issue of Atmosphere focuses on hydrometeorological extremes and their local impacts on human-environment systems. Particularly, we welcome the topics of observational and model-based studies that could provide useful information for infrastructure design, decision making, and policy to achieve our goals of enhancing the resilience of humanenvironment systems to climate change and increased variability.

Guest Editors

Prof. Dr. Jong-Suk Kim

Dr. Nirajan Dhakal

Dr. Changhyun Jun

Prof. Dr. Taesam Lee

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

mdpi.com/journal/ atmosphere





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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

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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