



Abnormal Weather, Climate Events and Their Effects on Ecosystems

Guest Editors:

Dr. Yuntao Wang

Second Institute of
Oceanography, Ministry of
Natural Resources, Hangzhou
310012, China

Dr. Xuehua Fan

Institute of Atmospheric Physics,
Chinese Academy of Science,
Beijing 10017, China

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Message from the Guest Editors

Under the impact of climate change, more abnormal events with large intensity and great impact are taking place over the globe. A variety of events, such as tropical cyclones, heat waves, forest fires, volcano eruption, drought, extreme precipitation, and dust, among others, are posing great threats to the wellbeing of terrestrial and aquatic ecosystems. However, the identification and forecasting of abnormal events and understanding their impact on ecosystems remains a challenging scientific question.

During the past few decades, there have been numerous abnormal events in different regions around the world. The goal of this Special Issue is to encourage new studies seeking to identify abnormal events, investigating their ecological effects and increasing the credibility to make prediction for the future Earth system. We warmly welcome papers on relevant topics using various techniques with observations and simulations.

Dr. Yuntao Wang

Dr. Xuehua Fan

Guest Editors





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Editor-in-Chief

Prof. Dr. Ilias Kavouras

Environmental, Occupational,
and Geospatial Health Sciences,
CUNY School of Public Health,
New York, NY 10027, USA

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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Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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