

Special Issue on Extreme Weather and Climate Change

Call for Papers

Human-induced global warming is accelerating global hydrological cycles, and altering spatiotemporal patterns of precipitation. This results in increased occurrence of floods and droughts in many regions of the world. Climate change has become a major concern for academic communities and policy-makers, owing to the tremendous impacts on human societies. For example, higher frequencies of weather extremes pose a potential threat to at-risk populations. Tropical storms, floods, and droughts affect human welfare directly through catastrophic damage or indirectly through adverse effects on crop productivity. In recent years, climate change and related impacts on human societies, particularly on ecological environments, biodiversity, water resources, agriculture and food security, have become of unprecedented importance because of the significant role of the availability, accessibility and security of food and water in the stability and sustainability of human communities.

There are various causes underlying climate change, weather and hydrological extremes at regional or global scales, including human-emission of green house gases, alterations of hydrological cycles, EN-SO activities and so on. Moreover, some scientific problems are still open for debate, e.g.

What are the changing features of global warming processes at regional scales?

Are hydrological responses to climate changes similar or different at local, river-basin, regional and even global scales, and what are the differences between them, if any?

How do global-warming-induced weather and hydrological extremes impact on human society, ecological environments, biodiversity and water resource systems?

What are the risks or threats that human settlements are facing along coastal regions under the influences of climate change?

All these relevant problems need urgent answers for the sake of sustainable development of human societies. This is the major motivation of the current special issue.

In this special issue, we intend to invite research results focusing on, but not limited to, the above-mentioned problems, with an aim to arouse wide scientific discussions on the above-mentioned topics. Any papers pertaining to **Extreme Weather and Climate Change** are warmly welcomed.

Authors should read over the journal's [Authors' Guidelines](#) carefully before submission, Prospective authors should submit an electronic copy of their complete manuscript through the journal [Paper Submission System](#).

According to the following timetable:

Manuscript Due	June 20th, 2013
Publication Date	August 2013

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue — Extreme Weather and Climate Change**” should be chosen during your submission.

Special Issue Editor

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