Special Issue

Hydrological Responses under Climate Changes

Message from the Guest Editors

In the last half century, climate change has been increasingly impacting the hydrological cycle. It therefore raised several questions: (1) what hydrological responses are, (2) what their causes are, and (3) how to predict them. Focusing on these questions, this Special Issue prepares to publish state-of-the-art research articles or review papers that detect changes in hydrological elements on different spatial and temporal scales, revealing the causes for the changes using different methods, and proposing prediction methods for hydrological elements under climate changes. The Special Issue covers the following topics:

- Observed changes and variations in hydrological elements;
- Hydrological extremes, such as flood and drought, under climate changes;
- Climate change impacts on runoff, evaporation, surface/ground water systems, etc.;
- New methods and technologies for investigating hydrological and eco-hydrological responses to climate changes;
- Hydrological prediction under climate changes.

Guest Editors

Dr. Hanbo Yang

Dr. Songjun Han

Dr. Bing Gao

Deadline for manuscript submissions

closed (15 August 2022)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/82288

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

mdpi.com/journal/atmosphere

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/journal/atmosphere

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))

MDPI