

International conference

Climate change and water

Extreme events, water and environments

RÉSEAU
MiDi

May 25-27th
2021

Auditorium Theleme
Tours, France



ccw2021.sciencesconf.org

Call for papers

- Climate change is disrupting the water cycle. Impacts are observed in all environments and socio-ecosystems: forests, soils, lakes, cities, and so on. The MiDi (Environments & Diversity) network and its partners propose to focus on the different forms of impacts of climate change via its effect on water. Indeed, if the general trend of global warming is observed in all regions of the world, where are the findings and responses to climate extremes such as droughts, floods, heat waves and sudden and intense rainfall?

The international symposium Climate change & Water 2021 under the theme of extremes will be held from 25 to 27 May 2021 in Tours in the Centre-Val de Loire region. This international conference is open to the academic world and socio-economic partners concerned by the variability of the water cycle and adaptation to extreme events.

This call for papers aims to focus reflection and exchange not only on the observation of the accelerating physical, chemical, biological and ecological effects of climate change but also on the adaptation strategies proposed at local level. Adaptations in response to the changes observed or to be anticipated may fall within specific disciplinary fields (ecology, biology, technological innovation, hydrology and social sciences) or be cross-cutting (environmental management, resource management). Feedback on concrete case studies will be particularly welcome at this conference.

By illustrating the diversity of the impacts of climatic extremes on the water cycle, the objective is to understand how water issues are understood, from the ecosystem to the large region, via the different functional and institutional or socio-political scales (Region, Department, Communities of Communes, Water Agency, but also city, district, consumer associations, etc.). The aim will be to share the state of knowledge, the obstacles and drivers of adaptation between the different actors.

Climate change will be tackled along 4 thematic axes. Communication proposals should address at least one of these themes, or deal with case studies that can address the themes in a cross-cutting manner. Papers may thus address climate projections, hydrological modelling, the impact of changes on the environment, and the response and adaptation of both the environment and society.

Thematic axes

- ▶ **Evolution and acceleration of the effects of climate change on the water cycle** • What are the observed effects of climate change? What are the signs of a possible acceleration? How is the impact of climate change on water resources assessed? Are extremes more to be feared than the effects of the average warming trend?
- ▶ **Understanding extreme weather events and forecasting** • What about the detection and attribution of Extreme Events (session co-host by ECRA). What are the effects on the environment of climate extremes such as droughts, floods, sudden rains and heat waves? Based on our understanding of the mechanisms, what forecasts can we make to help manage water in environments during climate extremes? At what scales of space and time?
- ▶ **Adaptation to climate change** • What forms of adaptation of living beings and societies are being put in place in the face of climate extremes? Do societies need to adapt faster than living organisms?
- ▶ **Management, governance and strategy** • In the face of climate extremes, what strategies are being developed or implemented? What are the modalities, the levels of actors involved, the spatial scales of decision-making and implementation, the tools and regulations? Are there case studies that would show what works and what doesn't? What strategies would still need to be developed?

For this second edition of Climate Change & Water (CCW2021), special attention will be paid to the **vine** and the **forest** as an object as well as to the particular hydrometeorological extreme that are droughts. This choice does not exclude papers on any other subject of study as well as on other climatic extremes.

Communications can be from disciplines such as: life and earth sciences, human and social sciences and action and decision sciences, or from case studies (cross-cutting approaches). « Two-voice » communications involving researchers and managers will be particularly welcome. All speakers will be invited to publish their paper in a special issue of an international peer-reviewed journal with an impact factor.

Training program on May 24th

- ▶ **Introduction to Hydrological Modelling in the Context of Climate Change**

As part of the symposium, a one-day training session is offered to masters and doctoral students. It includes an introduction to the principles of hydrological modelling and its importance in the context of climate change.



Guidelines

For submission of proposals :

ccw2021.sciencesconf.org

deadline 10 September 2020

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