



climate



an Open Access Journal by MDPI

Impacts of Extreme Weather on Hydrological Process, Water Quality and Ecosystem in Agricultural and Forested Watersheds under the Changing Climate

Guest Editors:

Dr. Ying Ouyang

USDA, Forest Service, Southern Research Station, Center for Bottomland Hardwoods Research, Mississippi State, MS 39762, USA

Dr. Johnny M. Grace

USDA Forest Service, Southern Research Station, Center for Forest Watershed Research, Tallahassee, FL 32307, USA

Prof. Dr. Sudhanshu Sekhar Panda

Institute for Environmental Spatial Analysis, University of North Georgia, Oakwood, GA 30566, USA

Deadline for manuscript submissions:

30 September 2024

Message from the Guest Editors

Dear Colleagues,

This Special Issue was inspired by the Hydrology-H030 Session of the 2021 AGU (America Geophysical Union) Fall Meeting. Extreme weather such as hurricanes and heavy storms are not frequent but disrupt events such as social activities and natural processes. Recent evidence confirms that the unnatural effects of climate change are making extreme weather more frequent and destructive. Currently, insufficient efforts have been devoted to characterizing the severe impacts of extreme weather on hydrology, water quality, and the ecosystem in agricultural and forested watersheds under the changing climate. Here, we invite papers to tackle these challenges. All aspects of extreme weather-induced issues such as hydrological processes (e.g., stream channel alteration, flood, drought, evapotranspiration, and water yield), water quality constituents (e.g., nutrients, sediment, biomass, and organic carbon), and ecological services (e.g., wetlands and habitats) along with proactive management practices are welcome.

Dr. Ying Ouyang

Dr. Johnny M. Grace

Prof. Dr. Sudhanshu Sekhar Panda



mdpi.com/si/97598

Special Issue