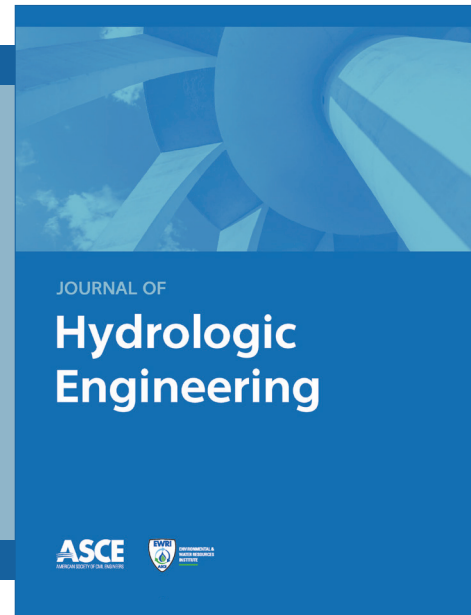


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## Call for Papers

### Special Collection on Compound Hydroclimatic Extremes in a Changing Climate



#### Theme

Hydroclimatic extremes, such as droughts, floods, heatwaves, and extreme precipitation, often result in dire losses to different sectors of the society, including water resources, food systems, energy production, human health, and infrastructure. The concurrent or consecutive occurrence of extremes, also referred to as compound extremes, have posed severe impacts on the ecosystem and human society, which can be even higher than that caused by their counterparts. Recent decades have witnessed an increase in the study of compound extremes in climatology and hydrology, such as compound droughts and heatwaves, compound flooding, compound hot extremes, compound droughts, weather whiplash between drought and flood, to name a few. The continued global warming may intensify the global water cycle with increased frequency and/or intensity of compound extremes, posing an unprecedented threat that may jeopardize the efforts to secure sustainable development. Though great strides have been made around the world, yet a wide research gap prevails in the understanding, modeling, and risk/impact assessments of compound hydroclimatic extremes. Characterization, observed changes, attribution, projection, and impact quantification of compound extremes are among the important topics that need further analysis. This Special Collection of JHE aims to present the studies related to these topics of compound hydroclimatic extremes in the context of global warming.

#### Specific Topics

Topics of interest include but are not limited to:

- Characterizing the compound hydroclimatic extremes or events in a statistical or physical-based perspective
- Changes in the properties (e.g., frequency, intensity) of compound extremes or events
- Attribution of compound hydroclimatic extremes and their changes

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# Journal of Hydrologic Engineering



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ENVIRONMENTAL &  
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## Call for Papers

### Special Collection on Compound Hydroclimatic Extremes in a Changing Climate



- Statistical and dynamical bias-correction of compound hydroclimatic extremes
- Future projection of compound hydroclimatic extremes at different warming levels
- Risk or impact assessments of compound hydroclimatic extremes
- Statistical and dynamical prediction of compound hydroclimatic extremes

## Timeline Proposed

April 15, 2023 to April 15, 2024

## Submission Guidelines

1. Please submit your manuscript via the ASCE *Journal of Hydrologic Engineering* website: <https://www.editorialmanager.com/jrnheeng>
2. Once on the Editorial Manager website, please indicate that your paper is for the special collection “Special Collection on Compound Hydroclimatic Extremes in a Changing Climate”.
3. Detailed information on the submission process is provided in the document “Publishing in ASCE Journals: A Guide for Authors” available at <https://doi.org/10.1061/9780784479018>

Please note that all accepted papers submitted in response to this Call for Papers will be published in regular issues of the *Journal of Hydrologic Engineering* and assembled online on a page dedicated to this Special Collection. See <https://ascelibrary.org/jhyeff/specialcollections> for the list of Special Collections already published.