



Interannual Rainfall Variability and Anthropogenic Warming: Extreme Flood Events

Guest Editor:

Dr. Jean-Louis Pinault

Independent Scholar, 96, Rue du
Port David, 45370 Dry, France

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Message from the Guest Editor

This Special Issue has been initiated by a pressing demand following the increasingly frequent observation of extreme hydroclimatic phenomena occurring at mid-latitudes in regions subject to the oscillation of rainfall. These regions, which are under the influence of sea surface temperature anomalies at the high latitudes of the five subtropical gyres are (1) Southwestern North America, (2) Texas, (3) Southeastern North America, Northeastern North America, southern tip of Greenland, Europe, and Western–Central Asia, (4) Region of the Rio de la Plata, (5) Southwestern and Southeastern Australia, (6) Southeast Asia. These regions are characterized jointly by high interannual and low seasonal variabilities of precipitation. They are therefore naturally subjected to the alternation of interannual wet or dry periods. Over the last few decades, there has been an increase in the frequency of extreme events, either flooding caused by convective rains or episodes of drought and heat waves.

We will focus more particularly (but not exclusively) on the study of mechanisms and their modeling to (1) improve forecasting techniques and (2) quantify the anthropogenic impact.





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Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
Oceans Graduate School and The
UWA Oceans Institute, The
University of Western Australia,
Perth, WA 6009, Australia

Message from the Editor-in-Chief

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*Journal of Marine Science and
Engineering* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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