Special Issue

Effects of Sea Surface Temperature Anomalies in Three Tropical Oceans on Extreme Weather and Climate Events

Message from the Guest Editors

The ocean plays an important role in shaping our climate and weather patterns. Sea surface temperature (SST) variations are important manifestations of ocean variability. SST anomalies in different tropical oceans can be closely related and interacted. In this Special Issue, we focus on the effects of SST anomalies in three tropical oceans on extreme weather and climate events. Topics of interest include, but are not limited to: Physical processes and mechanisms of how SST anomalies affect extreme weather and climate events;
Tropical air–sea interactions, pantropical climate interactions, tropical three-ocean interactions, inter-basin and intra-basin climate interactions;
Assessments of the impacts of tropical three-ocean SST anomalies on the numerical simulation of extreme weather and climate events;
The feasibility of using early SST precursor signals as predictors of extreme weather and climate events;
Possible improvements in the predictability and prediction of extreme weather and climate events by considering and incorporating SST anomalies in the three tropical oceans.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)

Atmosphere

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CiteScore 4.9

mdpi.com/si/149575

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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

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