



Ocean Dynamic Processes and Climate Variability: Insights from Hydrographic Observations and Modeling

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Message from the Guest Editors

Ocean dynamic processes, including ocean circulation, heat transport, and mixing, play a crucial role in regulating the Earth's climate system. They influence climate variability by redistributing energy globally, subsequently impacting circulation patterns and climate variability across various spatial and temporal scales. Such variability can influence regional patterns of temperature, precipitation, and other climate variables, which, in turn, affect weather patterns and climate events, potentially leading to significant local, economic, and social impacts.

Studying the complex connections between ocean dynamic processes and climate variability is essential for advancing our understanding of the Earth's climate system and its future changes, predicting extreme events, and contributing to the improvement of global climate models. This Special Issue aims to address topics that focus on the connection between ocean dynamic processes and climate variability across different scales, utilizing hydrographic observations and models.





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Message from the Editor-in-Chief

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