



climate



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Ocean's Role in Continental and Coastal Climate Variability and Change

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Message from the Guest Editors

Dear Colleagues,

The ocean exchanges heat by absorbing solar radiation and releasing it into the atmosphere, moisture through evaporation and condensation of water vapor, and carbon dioxide through air-sea interactions with the atmosphere, causing a significant influence on continental and coastal climates, for both short-term and long-term periods.

This SI will be focused on both short-term and long-term climate changes, involving heat transport and ocean circulation impacts on continental and coastal climates, variability of temperature ranges in continental, coastal, and ocean processes on intra- and inter-annual time scales, sea level rise and coastal erosion, biological pumps in the ocean impacting carbon dioxide concentrations in the atmosphere, severe flood and draught, El Nino, the unusual paths of tropical cyclones, as well as their development and decay in coastal and open seas. However, there are also no limitations in regards to processes applied in the above-mentioned subject areas.

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Special Issue