Special Issue

Ocean Exchange and Circulation

Message from the Guest Editors

Ocean circulation generated by the wind and/or by density gradients contributes to water property exchange between different parts of the ocean or between semi-enclosed seas and adjacent oceanic areas. In addition to the mean circulation, basin-scale, and sub-basin flows, mesoscale eddies and internal processes contribute to re-distribution of ocean properties and energy. Thermohaline oceanic circulation is driven by the winter convection and dense-water formation processes that are thus directly influenced by winter climatic conditions. Long-term and climatic changes in circulation and in the vertical mixing processes directly influence the variability of the biogeochemical properties of the ocean. A special role in trapping and/or transporting the biogeochemical properties of sea water is played by travelling eddies; however, this is yet to be quantified. This issue is open to all papers addressing the processes, which are associated with ocean circulation and mixing in both oceanic areas and semi-enclosed seas. It will also deal with the implications of circulation on biogeochemical properties and marine pollution.

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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