

Special Issue

The Ocean and Cryosphere in a Changing Climate

Message from the Guest Editor

The vast majority of people on Earth rely in some way on the ocean and cryosphere for food, freshwater, renewable energy, trade, transport, and other services. However, both the ocean and the cryosphere are currently undergoing, and are projected to further undergo, large-scale changes. Some examples of such large-scale changes are: most glaciers are shrinking, the Arctic sea ice extent is decreasing, ice sheets are losing mass, the oceans are warming, their pH is decreasing, and the sea level is rising. The aim of this Special Issue is to provide recent advances in the field. The focus is broad; we encourage the submission of papers that utilize numerical modelling, theory, and observations to investigate and gain understanding of physical and/or biogeochemical changes in the ocean and cryosphere. All temporal scales are of interest, from steady state effects to historical changes and projected changes for the coming centuries. We especially encourage papers that go beyond purely descriptive work and further our understanding of the climate dynamics behind changes in the ocean and cryosphere.

Guest Editor

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closed (1 March 2021)



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Message from the Editor-in-Chief

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

Dr. Jean-Luc PROBST

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