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Past, Present and Future Trends in Sea Level Change

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Message from the Guest Editors

Dear Colleagues,

Global mean sea level rise is one of the most direct consequences of global warming. High-precision satellite altimetry, available since 1993, indicates that the global mean sea level is not only rising at a mean rate of 3.1 mm.yr⁻¹, but has also accelerated over this 25-year period. Satellite altimetry also reveals strong regional variability in sea level trends that significantly differ from the global mean estimates. Ocean warming and continental ice mass loss are the two processes responsible for the global mean sea level rise. At regional scales additional processes are at play such as ocean dynamics, ocean circulation, atmospheric forcing (wind stress, heat flux and freshwater flux), the response of the solid Earth to past deglaciation (glacial isostatic adjustment/GIA) and present-day land ice melt, and associated gravitational changes. [...]

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Special Issue



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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.

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