



water



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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

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