

## Impact of Atmospheric and River Inputs on the Transfer of Elements and Organic Matter to the Ocean

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Deadline for manuscript  
submissions:

**closed (31 January 2023)**

### Message from the Guest Editors

Dear Colleagues,

Coastal marine environments are key environments at the crossroads of continental, oceanic and atmospheric domains where natural or anthropogenic inputs can be stored in the sediment, redistributed, or exported further offshore by hydrodynamic processes (currents, waves, storms, “cascading”) and affect biogeochemical cycles at larger scale. If since many years, material export to the marine environments was supposed to be mainly supplied by rivers and ground waters, it has been recently recognized that a significant fraction of the exported material could also come from atmospheric inputs. Moreover, if a part of the riverine fluxes is subject to biogeochemical modifications and removal in estuarine and coastal systems, atmospheric deposition is widespread and affects marine surface layers over large areas. Atmospheric aerosol deposition has consequently recently been recognized as an significant source of elements that can enhance ocean productivity and carbon sequestration [...]

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