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Multi-Source Data Observations of Shallow Water Area Methods, Ecosystem, Geomorphology and Environment

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Deadline for manuscript submissions: 31 May 2023

Special Issue Information

Improved understanding of physical changes in the Earth's shallow to intermediate water regions is crucial to understanding the impacts of sea-level rise, extreme storm events, submarine environments, sediment transport, and growing human population pressure on coastal, lacustrine, and polar ecosystems. Bathymetric variations across a range of scales occur due to both natural sediment transport and deposition processes and coastal storm protective infrastructure. Recent advances in sensor and platform technologies have led to the development and deployment of sensors with fine spatial and spectral resolutions and low sensor noise on a variety of platforms, including autonomous underwater vehicles (AUVs), moorings, autonomous surface vehicles, uncrewed aerial vehicles (UAVs), and CubeSats, in addition to conventional airborne and spaceborne systems.

These advances allow access to datasets with increasingly high resolution, both in time (seconds to days) and space (sub-meter), allowing for detailed observations of changes in coastal landscapes and the related nearshore and beach processes driving those changes.

We welcome scientific papers that cover technique development, applications, and science advances on:

- Near-shore bathymetry mapping;
- Optimal fusion of direct and remote observations;
- Artificial intelligence and machine learning techniques to derive key ecosystem variables;
- Near-shore and submerged geomorphic change analysis;
- Impact of near-shore bathymetry on coastal hazards and sediment transport; and
- Innovative sensors, platforms, and algorithms to quantify coastal protection.

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