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Understanding the Complexity of Coastal and Inland Waters using Remote Sensing

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Message from the Guest Editors

Dear Colleagues,

The Copernicus missions, commissioned by ESA up until 2030, and several of the instruments relevant for aquatic remote sensing are already in space. Amongst this suite of instruments are those with the spatial resolution and dynamic range necessary for imaging coastal and inland waters. These waters are particularly vulnerable to anthropogenic influence, play host to numerous, dynamic biogeochemical processes, and support economically vital activities such as the fisheries, tourism and recreation. However, these waters tend to be optically complex, meaning that, for a variety of reasons, retrieval of quantitative metrics of water quality and productivity from remote sensing is often challenging. In this Special Issue, we consider the optical properties of a variety of different types of coastal and inland waters—some dominated by CDOM absorption and others dominated by scatter from inorganic particles.

Keywords:

- Inherent optical properties
- Copernicus missions (S1, S2 & S3)
- Management of coastal and inland waters
- Time series analysis
- Phytoplankton phenology and ecology
- Climate change

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Message from the Editor-in-Chief

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