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New Frontiers Research on Ocean Observation

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Message from the Guest Editors

Dear Colleagues,

We cannot manage what we do not observe and measure. With mounting demand for improved scientific knowledge needed for the sustainable development of the oceans, marine observations provide the raw material (data and information) and support a range of ocean applications covering operational (monitoring, surveillance, response), policy (planning, strategies, decision-making) and economic (industry, innovation) endeavors. This Special Issue targets the whole chain of data acquisition, harnessing, analysis and enhancement, supply to downstream and specialized services, and the overall exploitation of data as a common good. Contributions cover in situ and remote observations, their active link to numerical modeling, new technologies to innovate observing systems, improve their performance and enable low-cost solutions, multi-scale, multiple-purpose and multi-functional systems to resolve the physical and biochemical complexity and variability of the marine environment. Furthermore, it tackles the quality, inter-operability and free access to operational data. Other aspects concern the effective trans-national coordination and the creation of functional multi-governance frameworks to connect and synergize the numerous and diverse actors conducting observations within and across countries, operating at different institutional, geographic and sectoral levels.



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Special Issue