



Remote Sensing

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Oceans from Space V

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In the last half century, satellite observations have become a cornerstone of all planetary sciences and of our efforts to understand and sustainably manage the Earth. Major new developments have been achieved in ocean observations, to the point that many aspects of modern oceanography have been revolutionized by the unprecedented capabilities offered by orbital remote sensing. No other technology allows gathering information about marine variables and processes, at suitable space and time scales, like satellite observations do. Ocean exploration and environmental trend monitoring, coupled ocean and atmosphere forecasting, marine resources management, maritime spatial planning: the list of current or potential applications is virtually endless. This Reprint originates from the 5th “Oceans from Space” Symposium (held in Venice, Italy, at the Scuola Grande di San Marco on 24–28 October 2022), which focused on the most recent scientific and technological achievements, innovations, and challenges of satellite oceanography. The selected papers deal with all aspects of remote sensing of the oceans, including both passive and active techniques, in the visible, infrared, and microwave spectral regions. The general themes of the Reprint range from space missions to satellites and sensors, calibration and validation, and algorithms and models. The applications covered by the papers include sea parameters and processes, bio-geo-chemical cycles, and ecological status, from local to global scales.



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