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by satellites, particularly in relation to climate and climate change, basin-scale, air-sea interaction processes (e.g. El Nino) and the modelling, forecasting and prediction of the ocean.

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others show how satellite data can be used operationally for tasks such as pollution monitoring or oil-spill detection.

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ocean's "conveyor belt," and its crucial  
role in climate change

To all those sailors / Who dreamed before  
us / Of another way to sail the oceans. The  
dedication of this Volume is meant to  
recall, and honour, the bold pioneers of  
ocean exploration, ancient as well as

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modern. As a marine scientist, dealing with the oceans through the complex tools, filters and mechanisms of contemporary research, I have always wondered what it was like, in centuries past, to look at that vast horizon with the naked eye, not knowing what was ahead, and yet to sail on. I have tried to imagine what ancient

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sailors felt, when “the unknown swirls around and engulfs the mind”, as a forgotten author simply described the brave, perhaps reckless, act of facing such a hostile, menacing and yet fascinating adventure. Innovation has always been the key element, I think, for their success: another way, a better way, a more

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effective, safer and worthier way was the proper answer to the challenge. The map of our world has been changed time and again, from the geographical as well as the social, economic and scientific points of view, by the new discoveries of those sailors. One of the positive qualities of human beings is without doubt the inborn



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desire to expand their horizons, to see  
what lies beyond, to learn and understand.

This volume is based on the proceedings  
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COSPAR (The Committee for Space

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Research) suggested holding a joint symposium with SCOR (The Scientific Committee for Oceanic Research) as a major review of space oceanography.

Since this meeting fitted well with a series of colloquia organized by the IUCRM (The Inter-Union Commission on Radio Meteorology), these three bodies joined in

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sponsoring the meeting. The conference was held 16 years after the first discussions of possible spaceborne observations of the ocean at a meeting organized in 1964 in Woods Hole. Gifford'Ewing was then keen to see oceanography benefit from the new satellite technology being developed, and

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He begins this volume by noting that most of the suggestions put forward in 1964 have now, at last, been successfully demonstrated in practice. The papers that follow show the variety of measurement techniques available or possible, and many of the types of studies in which they can be used. Papers are arranged in a general

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section, and in 6 specialized sections each of which starts with a brief introduction summarizing important results.

The International Ocean Institute - Canada has compiled more than 80 insightful essays on the future of ocean governance and capacity development, based largely

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may have existed for as long as Earth, and together may contain more than fifty times its total volume of liquid water. Could there be organisms living in their depths?

Alien Oceans reveals the science behind the thrilling quest to find out. Kevin Peter Hand is one of today's leading NASA scientists, and his pioneering research has



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taken him on expeditions around the world. In this captivating account of scientific discovery, he brings together insights from planetary science, biology, and the adventures of scientists like himself to explain how we know that oceans exist within moons of the outer solar system, like Europa, Titan, and

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Enceladus. He shows how the exploration of Earth's oceans is informing our understanding of the potential habitability of these icy moons, and draws lessons from what we have learned about the origins of life on our own planet to consider how life could arise on these distant worlds. Alien Oceans describes

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From Space in the search for life in our solar system and beyond, setting the stage for the transformative discoveries that may await us.

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Invisible as the seas and oceans may be for so many of us, life as we know it is almost always connected to, and constituted by,

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activities and occurrences that take place in, on and under our oceans. The Routledge Handbook of Ocean Space provides a first port of call for scholars engaging in the 'oceanic turn' in the social sciences, offering a comprehensive summary of existing trends in making sense of our water worlds, alongside new,

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agenda-setting insights into the relationships between society and the 'seas around us'. Accordingly, this ambitious text not only attends to a growing interest in our oceans, past and present; it is also situated in a broader spatial turn across the social sciences that seeks to account for how space and place

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international security comes into question. With a foreword and introduction authored by some of the leading scholars researching and writing about ocean spaces, alongside 31 further, carefully crafted chapters from established as well as early career academics, this book provides both an accessible guide to the

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resource that reveals how our world is a water world.  
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environmental studies. This book provides a state-of-the-art overview of the satellite altimetry techniques and related missions, and reviews the most-up-to date applications to ocean dynamics and sea level. It also discusses related space-based observations of the ocean surface and of the marine geoid, as well as applications

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of satellite altimetry to the cryosphere and land surface waters; operational oceanography and its applications to navigation, fishing and defense.

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