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ocean remote sensing zCan observe only some of the ocean ' s properties and variables zMeasures the ocean only at or near the surface Although the surface is the most critical place to measure zOcean measurements may be corrupted by the atmosphere zSome methods cannot see through clouds at all zMeasurements can be made only when the satellite is in

Measuring the Ocean from Space, 1

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Measuring the Oceans from Space Measuring the Oceans from Space Merchant, C. 2005-06-01 00:00:00 By I. S. Robinson . Springer Verlag , Heidelberg, Germany , 2004 . ISBN 3 540 42647 7 . 178 x 248 mm . xlv + 669 pages , plus 23 pages of colour plates, 262 figures and 46 tables. Price £ 115 · 50 hardback .

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Measuring The Oceans From Space

Scientists can use this measurement to calculate the distance between the satellite and the ocean surface in that particular location. Jason-3 orbits about 800 miles (1,300 kilometers) above Earth. Even from that far away, Jason-3 can measure the distance from itself to the ocean surface to within about one inch (about three centimeters).

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This book covers the fundamental principles of measuring oceans from space, and also contains state-of-the-art developments in data analysis and interpretation and in sensors. Completely new will be material covering advances in oceanography that have grown out of remote sensing, including some of the global applications of the data. The variety of applications of remotely sensed data to ocean science has grown significantly and new areas of science are emerging to exploit the global datasets being recovered 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.

This book offers a survey of the contribution of satellite data to the study of the ocean, focusing on the special insights that only satellite data can bring to oceanography. Topics range from ocean waves to ocean biology, spanning scales from basins to estuaries. Some chapters cover applications to pure research while others show how satellite data can be used operationally for tasks such as pollution monitoring or oil-spill detection.

Measuring Ocean Currents: Tools, Technologies, and Data covers all major aspects of ocean current measurements in view of the implications of ocean currents on changing climate, increasing pollution levels, and offshore engineering activities. Although more than 70% of the Earth is covered by ocean, there is limited information on the countless fine- to large-scale water

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motions taking place within them. This book fills that information gap as the first work that summarizes the state-of-the-art methods and instruments used for surface, subsurface, and abyssal ocean current measurements. Readers of this book will find a wealth of information on Lagrangian measurements, horizontal mapping, imaging, Eulerian measurements, and vertical profiling techniques. In addition, the book describes modern technologies for remote measurement of ocean currents and their signatures, including HF Doppler radar systems, satellite-borne sensors, ocean acoustic tomography, and more. Crucial aspects of ocean currents are described in detail as well, including dispersion of effluents discharged into the sea and transport of beneficial materials—as well as environmentally hazardous materials—from one region to another. The book highlights several important practical applications, showing how measurements relate to climate change and pollution levels, how they affect coastal and offshore engineering activities, and how they can aid in tsunami detection. Coverage of measurement, mapping and profiling techniques

Descriptions of technologies for remote measurement of ocean currents and their signatures

Reviews crucial aspects of ocean currents, including special emphasis on the planet-spanning thermohaline circulation, known as the 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 modern. As a marine scientist, dealing with the oceans through the complex tools, ?lters and mechanisms of contemporary research, I have always wondered what it was like, in centuries past, to look at that vast ho- zon with the naked eye, not knowing what was ahead, and yet to sail on. I have tried to imagine what ancient 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 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 scienti?c points of view, by the new discoveries of those sailors. One of the positive qualities of human beings is without doubt the inborn desire to expand their horizons, to see what lies beyond, to learn and understand.

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, 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, 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 are imbricated in socio-cultural and political life. Through six clearly structured and wide-ranging sections, The Routledge Handbook of Ocean Space examines and interrogates how the oceans are environmental, historical, social, cultural,

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political, legal and economic spaces, and also zones where national and 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 subject and a cutting-edge collection of critical ideas and questions shaping the social sciences today. This handbook brings together the key debates defining the ' field ' in one volume, appealing to a wide, cross-disciplinary social science and humanities audience. Moreover, drawing on a range of international examples, from a global collective of authors, this book promises to be the benchmark publication for those interested in ocean spaces, past and present. Indeed, as the seas and oceans continue to capture world-wide attention, and the social sciences continue their seaward ' turn ' , The Routledge Handbook of Ocean Space will provide an invaluable resource that reveals how our world is a water world.

Satellite remote sensing, in particular by radar altimetry, is a crucial technique for observations of the ocean surface and of many aspects of land surfaces, and of paramount importance for climate and 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 of satellite altimetry to the cryosphere and land surface waters; operational oceanography and its applications to navigation, fishing and defense.

The International Ocean Institute - Canada has compiled more than 80 insightful essays on the future of ocean governance and capacity development, based largely on themes of its Training Program at Dalhousie University in Canada, to honor the work of Elisabeth Mann Borgese (1918-2002).

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