

Measuring The Oceans From Space

Discovering the Ocean from Space Measuring the Oceans from Space Measuring the Oceans from Space Polar Oceans from Space Oceans from Space: Proceedings of a Symposium... Discovering the Ocean from Space TOPEX Alien Seas Oceans from Space Ocean Governance (Beyond) Borders The Routledge Handbook of Ocean Space The International Law of the Ocean Development Oceanography from Space The Geography of the Ocean Space Remote Sensing of Subtropical Oceans (SRSSO) Monitoring Earth's Ocean, Land, and Atmosphere from Space-- Sensors, Systems, and Applications The Wave of Translation in the Oceans of Water, Air, and Ether Oceans from Space "Venice 2000" Polar Oceans from Space Hearings, Reports and Prints of the Senate Committee on Foreign Relations Ian S. Robinson I. S. Robinson Ian S. Robinson Josefino Comiso critical research needs Symposium on the status of knowledge (and potential research facilities relating to the study of the oceans from space, houston, 1969?) Ian Stuart Robinson United States. National Aeronautics and Space Administration Michael Carroll Frank Edward Bunn Kimberley Peters Kimberley Peters Shigeru Oda Vittorio Barale Anne-Flore Laloë Cho-Teng Liu Abraham Schnapf John Scott Russell Vittorio Barale Josefino Comiso United States. Congress. Senate. Committee on Foreign Relations

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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

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

only a few centuries ago we knew very little about our planet earth the earth was considered flat by many although it was postulated by a few like aristotle that it is spherical based on observations that included the study of lunar eclipses much later christopher columbus successfully sailed to the west to discover the new world and ferdinand magellan's ship circumnavigated the globe to prove once and for all that the earth is indeed a sphere worldwide navigation and explorations that followed made it clear that the earth is huge and rather impossible to study solely by foot or by water the advent of air travel made it a lot easier to do exploratory studies and enabled the mapping of the boundaries of continents and the oceans but aircraft coverage was limited and it was not until the satellite era that full coverage of the earth's surface became available many of the early satellites were research satellites and that meant in part the development of engineering measurement systems with no definite applications in mind the nimbus 5 electrically scanning microwave radiometer esmr was a classic case in point the sensor was built with the idea that it may be useful for meteorological research and especially rainfall studies over the oceans but success in this area of study was very limited

oceans were long thought to exist in all corners of the solar system from carbonated seas percolating beneath the clouds of venus to features on the moon's surface given names such as the bay of rainbows and the ocean of storms with the advent of modern telescopes and spacecraft exploration these ancient concepts of planetary seas have for the most part evaporated but they have been replaced by the reality of something even more exotic for example although it is still uncertain whether mars ever had actual oceans it now seems that a web of waterways did indeed at one time spread across its surface the water in many places in our solar system is a poisoned brew mixed with ammonia or methane even that found on jupiter's watery satellite europa is believed similar to battery acid beyond the galilean satellites may lie even more alien oceans saturn's planet sized moon titan seems to be subject to methane or ethane rainfall this creates methane pools that in turn become vast lakes and perhaps seasonal oceans titan has other seas in a sense as large shifting areas of sand covering vast plains have been discovered mars also has these sand seas and venus may as well along with oceans of frozen lava do super chilled concoctions of ammonia liquid nitrogen and water percolate beneath the surfaces of enceladus and triton for now we can only guess at the possibilities alien seas serves up part history part current research and part theory as it offers a rich buffet of seas on other worlds it is organized by location and by the material of which various oceans consist with guest authors penning specific chapters each chapter features new original art depicting alien seas as well as the latest ground based and spacecraft images original diagrams presents details of planetary oceans and related processes

this open access book ocean governance beyond borders is concerned with the persistence of bordering in ocean space and the possibilities that might arise if we think beyond borders for modes of oceanic management engaging the ocean's fluid

physicality and the mobile human and more than human life entangled with it at a moment where ocean governance is a pressing topic amongst academics policy makers governments and non governmental agencies alike this book takes on one of the most overlooked but central devices underscoring many modes of oceanic management the border uniquely combining contemporary border scholarship with cutting edge ocean governance research this book tackles themes ranging from biodiversity conservation and asylum regulations to shipping management measures tourism and the growing blue economy this edited volume hence explores varied bordering practices whilst also addressing the common sense with which bordering is deployed at sea questioning and problematising its function and efficacy throughout 12 carefully curated chapters authors ask what borders are present in the seas and oceans where and why in doing this the book offers readers a simple provocation do we need borders and can we govern differently

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 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

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 scientific 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

despite the fact that the vast majority of the earth's surface is made up of oceans there has been surprisingly little work by geographers which critically examines the ocean space and our knowledge and perceptions of it this book employs a broad conceptual and methodological framework to analyse specific events that have contributed to the production of geographical knowledge about the ocean these include but are not limited to christopher columbus first transatlantic journey the mapping of nonexistent islands the establishment of transoceanic trade routes the discovery of largescale water movements the hms challenger expedition the search for the elusive terra australis incognita the formulation of the theory of continental drift and the mapping of the seabed using a combination of original empirical archival material and cartographic and theoretical sources this book uniquely brings together fascinating narratives throughout history to produce a representation and mapping of geographical oceanic knowledge it questions how we know what we know about the oceans and how this knowledge is represented and mapped the book then uses this representation and mapping as a way to coherently trace the evolution of oceanic spatial awareness in recent years particularly in historical geography discovering and knowing the ocean space has been a completely separate enterprise from discovering and colonising the lands beyond it there has been such focus on studying colonised lands yet the oceans between them have been neglected this book gives the geographical ocean a voice to be acknowledged as a space where history geography and indeed historical geography took place

this volume contains the proceedings from the cospar colloquium on space remote sensing of subtropical oceans which took place between 12 and 16 september 1996 at the institute of oceanography of the national taiwan university included are contributions addressing the issue from scientific points of views of why the first scientific satellite of taiwan rocsat 1 should be equipped with the ocean colour imager oci for oceanographic investigations

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