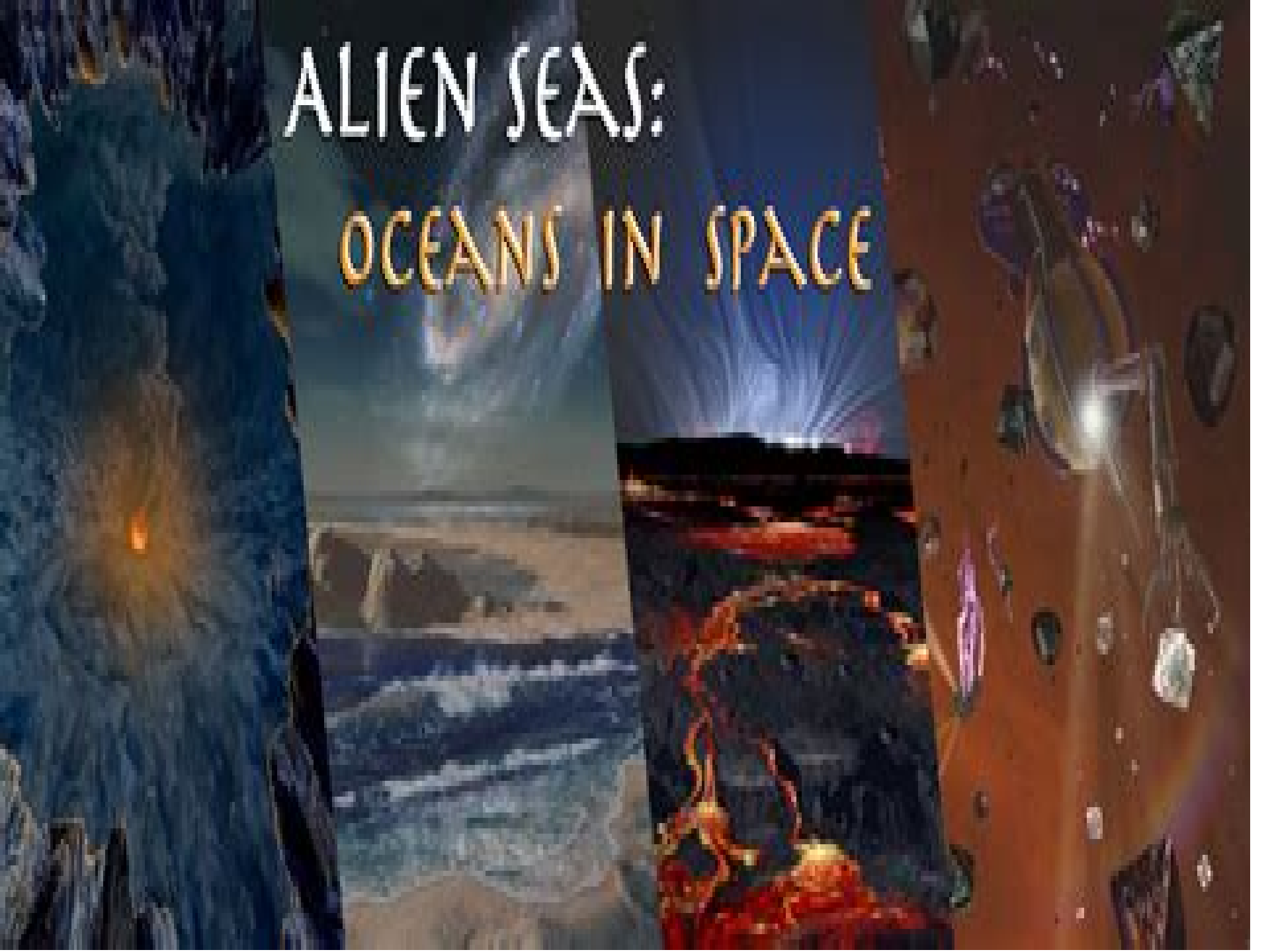


ALIEN SEAS:

OCEANS IN SPACE



Alien Seas Oceans In Space

Sidney I. Dobrin



Alien Seas Oceans In Space:

Alien Seas Michael Carroll, Rosaly Lopes, 2013-07-19 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 But they have been replaced by the reality of something even more exotic.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 present details of planetary oceans and related processes.

Exploring the Ocean Worlds of Our Solar System Bernard

Henin, 2024-08-22 In the past 25 years planetary science has undergone a revolution with the discovery of vast oceans of liquid water within the icy moons of our Solar System. These subsurface oceans are concealed beneath thick ice layers. We refer to these moons and similar ocean-bearing planetary objects as ocean worlds. In this 2nd edition we delve into and compare the latest scientific discoveries on 22 confirmed or potential ocean worlds ranging from the giant asteroid Ceres and the icy moons Europa and Enceladus to the distant dwarf planets of the outer Solar System such as Pluto, Sedna and Eris. Along the way we explore the contributions of multiple spacecraft such as the Pioneers, the Voyagers, Galileo, Cassini, Huygens and many others which have provided much of our current knowledge about these worlds as well as the latest scientific research on this subject. This book also explores the potential for life on each of the confirmed ocean worlds, evaluating their habitability. Ultimately, these might hold the key to answering fundamental questions about life: How did life begin? Is there life beyond Earth? Where do we come from? With contributions from leading planetary scientists at NASA, ESA and other institutions, this book aims to be the definitive reference for anyone interested in this captivating subject.

Alien Ocean

Stefan Helmreich, 2023-09-01 *Alien Ocean* immerses readers in worlds being newly explored by marine biologists: worlds usually out of sight and reach, the deep sea, the microscopic realm and oceans beyond national boundaries. Working alongside

scientists at sea and in labs in Monterey Bay Hawai i the Woods Hole Oceanographic Institution and the Sargasso Sea and at undersea volcanoes in the eastern Pacific Stefan Helmreich charts how revolutions in genomics bioinformatics and remote sensing have pressed marine biologists to see the sea as animated by its smallest inhabitants marine microbes Thriving in astonishingly extreme conditions such microbes have become key figures in scientific and public debates about the origin of life climate change biotechnology and even the possibility of life on other worlds Alien Ocean immerses readers in worlds being newly explored by marine biologists worlds usually out of sight and reach the deep sea the microscopic realm and oceans beyond national boundaries Working alongside scientists at sea and in labs in

Lords of the Ice Moons Michael Carroll, 2018-10-08 What happens with something becomes someone In the aftermath of an asteroid impact Earth s power grid is damaged nearly beyond recovery The survival of our world may well depend on energy sources collected from an abandoned undersea settlement beneath the icy surface of Enceladus Earth raised Colonel Carter Rhodes in charge of Earth s recovery efforts calls upon Gwen Bar a Venusian engineer to regain control of the deserted moon outpost and collect fuel for Earth s collapsing power grids However what Gwen discovers churning in Enceladus s subsurface waters brings her and Colonel Rhodes straightforward plans to a crashing halt Soon Gwen finds herself in the middle of an interplanetary standoff Win and give the last humans on Earth a chance to survive Lose and risk the permanent dismantling of human society across the Solar System Forced to take sides in this war for power resources and species survival Gwen must make choices that not only affect her own life but also force her to question what life itself might really mean Will the promise of Enceladus energy be enough to salvage what is left of Earth s society Are these humans worthy of salvation

On the Shores of Titan's Farthest Sea Michael Carroll, 2015-06-26 Titan is practically a planet in its own right with a diameter similar to that of Mercury methane rainstorms organic soot and ethane seas All of the most detailed knowledge on the moon s geology volcanology meteorology marine sciences and chemistry are gathered together here to paint a factually accurate hypothetical future of early human colonization on this strange world The views from Titan s Mayda Outpost are spectacular but all is not well at the moon s remote science base On the shore of a methane sea beneath glowering skies atmospheric researcher Abigail Marco finds herself in the middle of murder piracy and colleagues who seem to be seeing sea monsters and dead people from the past On the Shores of Titan s Farthest Sea provides thrills excitement and mystery couched in the latest science on one of the Solar System s most bizarre worlds Saturn s huge moon Titan This riveting story set against a plausibly well integrated interplanetary space carries us along with its bright and interesting characters We feel absolutely transported to a hauntingly beautiful and alien Titan through Carroll s masterful weaving of art and science Jani Radebaugh Professor of Planetary Sciences Titan dune expert BYU It s a fun read Really makes Titan come alive literally Astrophysicist and author Ralph Lorenz Michael Carroll s new novel On the Shores of Titan s Farthest Sea Springer is a gripping good vs evil tale that sparkles with imagination It s set on the shores of Kraken Mare the vast methane sea found high in the northern

latitudes of Saturn's moon Titan in a future when humanity has spread throughout the solar system. The villains are wicked, the heroes are scientists. Thanks, Mike, the story is convincing, the dialogue snappy, and the scenery is right out of our catalog of findings on this cold, hazy, and alien world. If you fancy skipping forward 250 years and checking out how humankind might be navigating the very geography and landforms we have uncovered in our years touring Saturn, this book is for you. Carolyn Porco, leader of the Cassini Imaging Science team and the Director of the Cassini Imaging Central Laboratory for Operations (CICLOPS) at the Space Science Institute in Boulder, Colorado. Yearbook on Space Policy 2012/2013 Cenan

Al-Ekabi, Blandina Baranes, Peter Hulsroij, Arne Lahcen, 2015-02-06. The Yearbook on Space Policy is the reference publication analyzing space policy developments. Each year it presents issues and trends in space policy and the space sector as a whole. Its scope is global and its perspective is European. The Yearbook also links space policy with other policy areas. It highlights specific events and issues and provides useful insights, data, and information on space activities. The Yearbook on Space Policy is edited by the European Space Policy Institute (ESPI) based in Vienna, Austria. It combines in-house research and contributions of members of the European Space Policy Research and Academic Network (ESPRAN) coordinated by ESPI. The Yearbook is designed for government decision makers and agencies, industry professionals, as well as the service sectors, researchers, and scientists, and the interested public.

The Beauty of Space Art Jon Ramer, Ron Miller, 2020-12-01. Long before humans wrote, we painted. From mud and ash to acrylic and computers, artists across the centuries have found countless inventive ways to explore and express some of life's biggest mysteries. Enter space art, a genre of artistic expression that strives to capture the wonders of our universe. This lavishly illustrated book chronicles the remarkable development of space art from a fledgling theme to a modern movement. In Part I, we traverse the history of art and astronomy from ancient times through the Industrial Revolution and into the 20th century Space Age. Part II delves into the diverse techniques and subgenres of space art where you will learn about things like rocks and balls, hardware art, and cosmic expressionism. Along the way, we'll stop at places where neither humans nor spacecraft can easily go: from the scorching surface of Venus and the radiation-soaked volcanoes of Io to the alien terrain of exoplanets and the depths of distant galaxies. Featuring hundreds of original color images from space artists and astronomers alike, this book is a vivid visual story about the power of art, astronomy, and human curiosity. A heavily revised edition of the original *Beauty of Space*, it will entertain, educate, and inspire anybody who yearns to make sense of the strange and surreal sights in our universe.

Blue Ecocriticism and the Oceanic Imperative Sidney I. Dobrin, 2021-03-28. This book initiates a conversation about blue ecocriticism, critical ethical, cultural, and political positions that emerge from oceanic or aquatic frames of mind rather than traditional land-based approaches. Ecocriticism has rapidly become not only a disciplinary, legitimate critical form but also one of the most dynamic, active criticisms to emerge in recent times. However, even in its institutional success, ecocriticism has exemplified an ocean deficit. That is, ecocriticism has thus far primarily been a land-based criticism stranded on a liquid planet. *Blue Ecocriticism*

and the Oceanic Imperative contributes to efforts to overcome ecocriticism's ocean deficit. The chapters explore a vast archive of oceanic literature, visual art, television, and film, games, theory, and criticism. By examining the relationships between these representations of ocean and cultural imaginaries, *Blue Ecocriticism* works to unmoor ecocriticism from its land-based anchors. This book aims to simultaneously advance blue ecocriticism as an intellectual pursuit within the environmental humanities and to advocate for ocean conservation as derivative of that pursuit.

Blue Legalities Irus Braverman, Elizabeth R. Johnson, 2020-01-17. The ocean and its inhabitants sketch and stretch our understandings of law in unexpected ways. Inspired by the blue turn in the social sciences and humanities, *Blue Legalities* explores how regulatory frameworks and governmental infrastructures are made, reworked, and contested in the oceans. Its interdisciplinary contributors analyze topics that range from militarization and Maori cosmologies to island building in the South China Sea and underwater robotics. Throughout, *Blue Legalities* illuminates the vast and unusual challenges associated with regulating the turbulent materialities and lives of the sea. Offering much more than an analysis of legal frameworks, the chapters in this volume show how the more-than-human ocean is central to the construction of terrestrial institutions and modes of governance. By thinking with the more-than-human ocean, *Blue Legalities* questions what we think we know and what we don't know about oceans, our earthly planet, and ourselves. Contributors: Stacy Alaimo, Amy Braun, Irus Braverman, Holly Jean Buck, Jennifer L. Gaynor, Stefan Helmreich, Elizabeth R. Johnson, Stephanie Jones, Zsófia Korosy, Berit Kristoffersen, Jessica Lehman, Astrida Neimanis, Susan Reid, Alison Rieser, Katherine G. Sammler, Astrid Schrader, Kristen L. Shake, Phil Steinberg.

Planet Earth, Past and Present Michael Carroll, 2023-10-18. The Earth is not the world it once was, and it is not the world it will always be. This book describes the exciting, complex, and occasionally baffling history of our own planet. Over the course of its 4.5 billion years, Earth has undergone astonishing changes to its surface and atmosphere at times more closely resembling other planets in our Solar System than the habitable, teeming biosphere of today. Through these otherworldly analogs, author and illustrator Michael Carroll teaches readers about different aspects of our own planet's past. Our nearest cosmic neighbor, Venus, offers insights into Earth's own young atmosphere and surface, while Saturn's moon, Titan, may offer a window into the genesis of life on Earth. *Planet Earth, Past and Present* explores these and many more connections. Original art accompanies each chapter, depicting major stages of the Earth's evolution and providing vivid comparisons to other planets or moons. Come along on this journey through the Solar System, a journey that ultimately leads us home.

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web the moon is a satellite planet in geophysical terms and among all planetary mass objects of the solar system larger and more massive than all known solar dwarf planets the moon s mass density and surface gravity of about one sixth of earth s at 0 1654 g are rivaled among solar system satellites only by jupiter s moon io

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web there are 171 moons or natural satellites orbiting the planets in our solar system earth mars jupiter saturn uranus and neptune have 1 2 66 62 27 and 13 moons respectively the following is a list of some of the major planetary moons including those of the dwarf planet

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