

# Discovering The Ocean From Space The Unique Applications Of Satellite Oceanography Springer Praxis Books

*Featuring incredible photos and new information about the latest research into Mars, this updated edition of DISCOVERING MARS covers everything about the great red planet, from past to present. Topics include myths and facts about life on Mars, a history of NASA's Mars research, including the Rover missions, and ideas about our potential future relationship with the planet. With its lively text narrative and beautiful color photos, students and teachers alike will enjoy learning everything there is to know about Mars.*

*Optical Remote Sensing is one of the main technologies used in sea surface monitoring. Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments. It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution, 1-4m, and on the observations of surface wave hydrodynamic processes. It also describes the implementation of spectral-statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics-based criteria for detection of complex wave phenomena*

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and hydrodynamic disturbances including assessment and management of optical databases. This book explains the physical principles of high-resolution optical imagery of the ocean surface, discusses for the first time the capabilities of observing hydrodynamic processes and events, and emphasizes the integration of optical measurements and enhanced data analysis. It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection. This book is an invaluable resource for researches, industry professionals, engineers, and students working on cross-disciplinary problems in ocean hydrodynamics, optical remote sensing of the ocean and sea surface remote sensing. Readers in the fields of geosciences and remote sensing, applied physics, oceanography, satellite observation technology, and optical engineering will learn the theory and practice of optical interactions with the ocean.

From beloved author Alyson Gerber comes another realistic contemporary novel perfect for fans of Judy Blume. Sarah loves basketball more than anything. Crushing it on the court makes her feel like she matters. And it's the only thing that helps her ignore how much it hurts when her mom forgets to feed her. But lately Sarah can't even play basketball right. She's slower now and missing shots she should be able to make. Her body doesn't feel like it's her own anymore. She's worried that changing herself back to how she used to be is the only way she can take control over what's happening. When Sarah's crush asks her to be partners in a cooking competition, she

feels pulled in a million directions. She'll have to dig deep to stand up for what she needs at home, be honest with her best friends, and accept that she doesn't need to change to feel good about herself. Booklist described Gerber's novels in starred reviews as both "highly empathetic" and "truly inspiring." Taking Up Space promises to be a realistic and compelling story about struggling with body image and learning that true self-esteem comes from within. "Fascinating . . . memorable . . . revealing . . . perhaps the best of Carl Sagan's books."—The Washington Post Book World (front page review) In Cosmos, the late astronomer Carl Sagan cast his gaze over the magnificent mystery of the Universe and made it accessible to millions of people around the world. Now in this stunning sequel, Carl Sagan completes his revolutionary journey through space and time. Future generations will look back on our epoch as the time when the human race finally broke into a radically new frontier—space. In Pale Blue Dot, Sagan traces the spellbinding history of our launch into the cosmos and assesses the future that looms before us as we move out into our own solar system and on to distant galaxies beyond. The exploration and eventual settlement of other worlds is neither a fantasy nor luxury, insists Sagan, but rather a necessary condition for the survival of the human race. "Takes readers far beyond Cosmos . . . Sagan sees humanity's future in the stars."—Chicago Tribune

Ocean Monsters

The New Intimacy

How to Survive a Tsunami

Rare Earth

The unique applications of satellite oceanography

*Discovering the Magic at the Heart of Your Differences  
Knowing the ocean as a space*

**\*\*Kirkus Best Books of the Year (2013)\*\*** From one of our finest and most popular science writers, and the best-selling author of *Your Inner Fish*, comes the answer to a scientific mystery as big as the world itself: How are the events that formed our solar system billions of years ago embedded inside each of us? In *Your Inner Fish*, Neil Shubin delved into the amazing connections between human bodies—our hands, heads, and jaws—and the structures in fish and worms that lived hundreds of millions of years ago. In *The Universe Within*, with his trademark clarity and exuberance, Shubin takes an even more expansive approach to the question of why we look the way we do. Starting once again with fossils, he turns his gaze skyward, showing us how the entirety of the universe's fourteen-billion-year history can be seen in our bodies. As he moves from our very molecular composition (a result of stellar events at the origin of our solar system) through the workings of our eyes, Shubin makes clear how the evolution of the cosmos has profoundly marked our own bodies. WITH BLACK-AND-WHITE LINE DRAWINGS THROUGHOUT

Describes the physical characteristics, behavior, and habitat of eight giant sea reptiles.

Describes the rescue efforts involved in saving the lives of animals affected by an oil spill, showing how they are captured, cleaned, and released back into the wild.

An ideal book for anyone who loves the shore.

The first complete guide to collecting, identifying, and understanding the history behind smooth glass shards found at the water's edge. More than 250 color photos pay tribute to both sea glass and the historical glassware that is frequently its source. Beachcombers can now use subtle clues regarding color and shape to determine age, rarity, and even origin.

Vast Expanses

Exploring Light and Life in the Deep Sea

Marine Geology & Geophysics

Plunge into the depths of the ocean and discover wonderful sea creatures, incredible habitats, and unmissable underwater events

Soundings

An Introduction for Oceanographers and Remote-Sensing Scientists

Atlas of Ocean Adventures

Discover the wonder and learn the truth about our rocky home. Why does life exist on Earth but nowhere else in our solar system? What causes Earth's seasons? What makes up the Earth's interior? This book answers these questions and many more about our rocky home. From Earth's place in space, to its atmosphere and time zones, everything readers need to know about planet Earth is covered! Planets and

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stars, moons and galaxies! The universe is a vast and mysterious place with much to explore. And there's no better way to make amazing discoveries about space than with this reimagined series. With the latest NASA imagery, the classic structure and features of A True Book, and lively text, the titles in Our Universe bring the awe of the cosmos directly to readers. Students will come away with a wealth of knowledge about the incredible celestial bodies in our universe. This series covers Next Generation Science Standards core ideas including "The Universe and its stars" and "Earth and the solar system."

Now celebrating the 42nd anniversary of *The Hitchhiker's Guide to the Galaxy*, soon to be a Hulu original series! "A madcap adventure . . . Adams' writing teeters on the fringe of inspired lunacy." —United Press International  
Back on Earth with nothing more to show for his long, strange trip through time and space than a ratty towel and a plastic shopping bag, Arthur Dent is ready to believe that the past eight years were all just a figment of his stressed-out imagination. But a gift-wrapped fishbowl with a cryptic inscription, the mysterious disappearance of Earth's dolphins, and the discovery of his battered copy of *The Hitchhiker's Guide to the Galaxy* all conspire to give Arthur the sneaking suspicion that something otherworldly is indeed going on. God only knows what it all means. Fortunately, He left behind a Final Message of explanation. But since it's light-years away from Earth, on a star surrounded by souvenir booths, finding out what it is will mean hitching a ride to the far reaches of space aboard a UFO with a giant robot. What else is new? "The most ridiculously exaggerated situation comedy known to created beings . . . Adams is irresistible." —The Boston Globe

"Understanding Tides, Surges, Tsunamis and Mean Sea-

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Level Changes Sea levels change for many reasons and on many timescales, and extreme sea levels can result in catastrophic coastal flooding, such as the Katrina storm surge in 2005 or the Sumatra tsunami in 2004. As global sea level rises, and coastal populations increase, understanding sea-level processes becomes key to plan future coastal defence effectively"--

In the history of humankind, the sea has always played a key role as a privileged medium for communication, commerce and contact among population centers. It constitutes an essential ecosystem, and an invaluable reservoir and source of food for all living beings. Therefore, its health is a critical challenge for the survival of all humanity, particularly as one of the most important environmental components targeted by global warming. Measuring and monitoring techniques are key tools for managing the marine environment and for supporting the Blue Economy. With this perspective, a series of annual international events, entitled MetroSea (Metrology for the Sea) was begun in 2017. Their increasing success inspired this book, which provides an anthology of tutorials dealing with a representative selection of topics of concern to a broad readership. The book covers two broad application areas, marine hydrography and meteorology, and then deals with instrumentation for measurement at sea. Typical metrological issues such as calibration and traceability, are considered, for both physical and chemical quantities. Key techniques, such as underwater acoustic investigation, remote sensing, measurement of waves and monitoring networks, are treated alongside marine geology and the monitoring of animal species. Economic and legal aspects of metrology for navigation are also discussed. Such an unparalleled wide vision of measurement for the sea will be of interest to a broad audience of scientists, engineers, economists, and their students. .

The Deep History of the Human Body

Satellite Oceanography

True Tales of Exploring the Deep Sea, Discovering Hidden  
Life and Selling the Seabed

A Vision of the Human Future in Space

Life on an Ocean Planet

Discovering Nature's Vanishing Gems

Blue Ocean Shift

*Shows how to turn conflict and disappointment in a relationship  
into opportunities for learning, mutual growth, and intimacy*

*The deep sea is the last, vast wilderness on the planet. For  
centuries, myth-makers and storytellers have concocted  
imaginary monsters of the deep, and now scientists are looking  
there to find bizarre, unknown species, chemicals to make new  
medicines, and to gain a greater understanding of how this world  
of ours works. With an average depth of 12,000 feet and  
chasms that plunge much deeper, it forms a frontier for new  
discoveries. The Brilliant Abyss tells the story of our relationship  
with the deep sea – how we imagine, explore and exploit it. It  
captures the golden age of discovery we are currently in and  
looks back at the history of how we got here, while also looking  
forward to the unfolding new environmental disasters that are  
taking place miles beneath the waves, far beyond the public gaze.  
Throughout history, there have been two distinct groups of deep-  
sea explorers. Both have sought knowledge but with different  
and often conflicting ambitions in mind. Some people want to  
quench their curiosity; many more have been lured by the  
possibilities of commerce and profit. The tension between these  
two opposing sides is the theme that runs throughout the book,  
while readers are taken on a chronological journey through  
humanity's developing relationship with the deep sea. The  
Brilliant Abyss ends by looking forwards to humanity's*

*advancing impacts on the deep, including mining and pollution and what we can do about them.*

*As established markets become less profitable, companies increasingly need to find ways to create and capture new markets. Despite much investment and commitment, most firms struggle to do this. What, exactly, is getting in their way? The authors of the best-selling book Blue Ocean Strategy have spent over a decade exploring that question. They have seen that the trouble lies in managers' mental models--ingrained assumptions and theories about the way the world works. Though these models may work perfectly well in mature markets, they undermine executives' attempts to discover uncontested new spaces with ample potential (blue oceans) and keep companies firmly anchored in existing spaces where competition is bloody (red oceans). This article describes how to break free of these red ocean traps. To do that, managers need to: (1) Focus on attracting new customers, not pleasing current customers; (2) Worry less about segmentation and more about what different segments have in common; (3) Understand that market creation is not synonymous with either technological innovation or creative destruction; and (4) Stop focusing on premium versus low-cost strategies. The Harvard Business Review Classics series offers you the opportunity to make seminal Harvard Business Review articles a part of your permanent management library. Each highly readable volume contains a groundbreaking idea that continues to shape best practices and inspire countless managers around the world--and will have a direct impact on you today and for years to come.*

*Teacher digital resource package includes 2 CD-ROMs and 1 user guide. Includes Teacher curriculum guide, PowerPoint chapter presentations, an image gallery of photographs,*

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*illustrations, customizable presentations and student materials, Exam Assessment Suite, PuzzleView for creating word puzzles, and LessonView for dynamic lesson planning. Laboratory and activity disc includes the manual in both student and teacher editions and a lab materials list.*

*Why Complex Life is Uncommon in the Universe*

*National Science Foundation 1950-2000*

*Alien Oceans*

*Understanding Tides, Surges, Tsunamis and Mean Sea-Level Changes*

*Games and Activities for Kids of All Ages*

*The principles and methods of satellite oceanography*

*Michael Collins*

What determines whether complex life will arise on a planet, or even any life at all? Questions such as these are investigated in this groundbreaking book. In doing so, the authors synthesize information from astronomy, biology, and paleontology, and apply it to what we know about the rise of life on Earth and to what could possibly happen elsewhere in the universe.

Everyone who has been thrilled by the recent discoveries of extrasolar planets and the indications of life on Mars and the Jovian moon Europa will be fascinated by *Rare Earth*, and its implications for those who look to the heavens for companionship.

Now a New York Times and USA Today bestseller! Winner of Best Science Fiction in the 2020 Goodreads Choice Awards! *To Sleep in a Sea of Stars* is a brand new epic novel from #1 New York Times bestselling author of *Eragon*, Christopher Paolini. Kira Navárez dreamed of life on new worlds. Now she's awakened a nightmare. During a routine survey mission on an uncolonized planet, Kira finds an alien relic. At first she's delighted, but elation turns to terror when the ancient dust around her begins to move. As war erupts among the stars, Kira is launched into a galaxy-spanning odyssey of discovery and transformation. First contact isn't at all what she imagined, and events push her to the very limits of what it means to be human. While Kira faces her own horrors, Earth and its colonies stand upon the brink of annihilation. Now, Kira might be humanity's greatest and final hope . . . . At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

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 gobal 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.

Contains an assortment of puzzles, brain-teasers and coloring activities help children understand the problem of marine debris while having fun at the same time. Suitable for all ages.

So Long, and Thanks for All the Fish  
The Story of the Remarkable Woman Who Mapped the Ocean Floor  
Discovering History's Heroes  
The Search for Life in the Depths of

Catalog of audiovisual productions

A Personal History of Deep-Sea

Exploration

Sea-Level Science

Her maps of the ocean floor have been called "one of the most remarkable achievements in modern cartography", yet no one knows her name.

Soundings is the story of the enigmatic, unknown woman behind one of the greatest achievements of the 20th century. Before Marie Tharp, geologist and gifted draftsman, the whole world, including most of the scientific community, thought the ocean floor was a vast expanse of nothingness. In 1948, at age 28, Marie walked into the newly formed geophysical lab at Columbia University and practically demanded a job. The scientists at the lab were all male; the women who worked there were relegated to secretary or assistant. Through sheer willpower and obstinacy, Marie was given the job of interpreting the soundings (records of sonar pings measuring the ocean's depths) brought back from the ocean-going expeditions of her male colleagues. The marriage of artistry and science behind her analysis of this dry data gave birth to a major work: the first comprehensive map of the ocean floor, which laid the groundwork for proving the then-controversial theory of continental drift.

When combined, Marie's scientific knowledge, her eye for detail and her skill as an artist revealed not a vast empty plane, but an entire world of mountains and volcanoes, ridges and rifts, and a gateway to the past that allowed scientists the means to imagine how the continents and the oceans had been created over time. Just as Marie dedicated more than twenty years of her professional life to what became the Lamont Geological Observatory, engaged in the task of mapping every ocean on Earth, she dedicated her personal life to her great friendship with her co-worker, Bruce Heezen. Partners in work and in many ways, partners in life, Marie and Bruce were devoted to one another as they rose to greater and greater prominence in the scientific community, only to be envied and finally dismissed by their beloved institute. They went on together, refining and perfecting their work and contributing not only to humanity's vision of the ocean floor, but to the way subsequent generations would view the Earth as a whole. With an imagination as intuitive as Marie's, brilliant young writer Hali Felt brings to vivid life the story of the pioneering scientist whose work became the basis for the work of others scientists for generations to come. In the last 25 years, planetary science experienced a revolution, as vast oceans of liquid water have been discovered within the heart of the icy moons

of our Solar System. These subsurface oceans lie hidden under thick layers of ice. We call them ocean worlds. Some of these icy moons, such as Ganymede, may hold two to three times more liquid water than all the water present on Earth, while others, such as Enceladus and Europa, are thought by astrobiologists to be our best hope of finding extraterrestrial life. In this book, we will explore and compare a variety of Solar System ocean worlds, meeting in the process 22 of the most intriguing objects, from the giant asteroid Ceres to the enigmatic, distant Sedna. In doing so, we will also encounter the multiple spacecraft that brought back most of what we know of these worlds (Pioneers, Voyagers, Cassini-Huygens, etc.), as well as the latest scientific research on this new topic. We will also entertain the possibility of life on each of these ocean worlds by assessing their habitability, as ultimately, these ocean worlds might hold the key to answering the fundamental questions in life: How did life appear? Where do we come from? Is there life out there? With the contributions of leading planetary scientists from NASA, ESA, and other institutions, this book aims to be the go-to reference for anyone wanting to know more about this fascinating topic. Jeter Publishing presents the second nonfiction biography in a brand-new series that celebrates men and women who altered the course of history

often without recognition. On July 16, 1969, a Gemini rocket lifted off from Kennedy Space Center in Florida. Previous launches had focused on getting astronauts into space, docking two spacecraft, and even walking in space, but this mission was different. Apollo 11 was designed to land two astronauts on the moon and then bring them back to Earth. Four days later, two astronauts, Neal Armstrong and Buzz Aldrin, did walk on the moon. But did you know that there were actually three astronauts aboard the rocket on July 16? Michael Collins didn't get to walk on the Moon, but his contribution is just as important as Armstrong and Aldrin's. Prior to joining NASA, Collins was in the Air Force and flew fighter jets. After joining NASA, he made two trips into space, performing one of the first EVAs or Extravehicular activities (in other words, walking in space) as well as making that trip to the moon. Collins continued to contribute even after leaving the space program. He took a job in the State Department and even served as director of the National Air & Space Museum and as undersecretary of the Smithsonian Institution in Washington, DC. He may not have walked on the moon, but he's one of only twenty-four people to travel there. In fact, without Michael Collins, that first moon landing might never have happened.

Much of human experience can be distilled to

saltwater: tears, sweat, and an enduring connection to the sea. In *Vast Expanses*, Helen M. Rozwadowski weaves a cultural, environmental, and geopolitical history of that relationship, a journey of tides and titanic forces reaching around the globe and across geological and evolutionary time. Our ancient connections with the sea have developed and multiplied through industrialization and globalization, a trajectory that runs counter to Western depictions of the ocean as a place remote from and immune to human influence.

Rozwadowski argues that knowledge about the oceans—created through work and play, scientific investigation, and also through human ambitions for profiting from the sea—has played a central role in defining our relationship with this vast, trackless, and opaque place. It has helped us to exploit marine resources, control ocean space, extend imperial or national power, and attempt to refashion the sea into a more tractable arena for human activity. But while deepening knowledge of the ocean has animated and strengthened connections between people and the world's seas, to understand this history we must address questions of how, by whom, and why knowledge of the ocean was created and used—and how we create and use this knowledge today. Only then can we can forge a healthier relationship with our future sea.

Supporting the Marine Environment and the Blue Economy

Measuring the Oceans from Space

Exploring the Ocean Worlds of Our Solar System

Red Ocean Traps (Harvard Business Review Classics)

Discovering the Ocean from Space

Understanding Marine Debris

Pure Sea Glass

The man who discovered the wreck of the Titanic looks back on a career spent mostly underwater looking for sunken ships and exploring volcanic cracks in the ocean floor to confirm the theory of plate tectonics.

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. A broad general introduction to remote sensing and its applications in oceanography. Designed to provide specialists with a sufficient depth of information necessary to understand oceanographic remote sensing processes and applications and non-specialists with the breadth of information necessary to understand how remote sensing makes a contribution to marine science. Provides an overview of all types of satellite remote sensing in ocean study: visible, infrared and microwave frequencies and both active and passive sensors. Also offers remote-sensing specialists the information required to assess the needs and perspectives of oceanographers. For millenia humans have considered Mars the most fascinating planet in our solar system. We've watched this Earth-like world first with the naked eye, then using telescopes, and, most

recently, through robotic orbiters and landers and rovers on the surface. Historian William Sheehan and astronomer and planetary scientist Jim Bell combine their talents to tell a unique story of what we've learned by studying Mars through evolving technologies. What the eye sees as a mysterious red dot wandering through the sky becomes a blurry mirage of apparent seas, continents, and canals as viewed through Earth-based telescopes. Beginning with the Mariner and Viking missions of the 1960s and 1970s, space-based instruments and monitoring systems have flooded scientists with data on Mars's meteorology and geology, and have even sought evidence of possible existence of life-forms on or beneath the surface. This knowledge has transformed our perception of the Red Planet and has provided clues for better understanding our own blue world. Discovering Mars vividly conveys the way our understanding of this other planet has grown from earliest times to the present. The story is epic in scope—an Iliad or Odyssey for our time,

at least so far largely without the folly, greed, lust, and tragedy of those ancient stories. Instead, the narrative of our quest for the Red Planet has showcased some of our species' most hopeful attributes: curiosity, cooperation, exploration, and the restless drive to understand our place in the larger universe. Sheehan and Bell have written an ambitious first draft of that narrative even as the latest chapters continue to be added both by researchers on Earth and our robotic emissaries on and around Mars, including the latest: the Perseverance rover and its Ingenuity helicopter drone, which set down in Mars's Jezero Crater in February 2021.

The Universe Within

To Sleep in a Sea of Stars

How a Sea Captain's Chance Discovery  
Launched a Determined Quest to Save the  
Oceans

A Derivative of Encyclopedia of Ocean  
Sciences, 2nd Edition

Saving Animals from Oil Spills

Beyond Competing - Proven Steps to  
Inspire Confidence and Seize New Growth

The Eternal Darkness

**The Coastal Ocean is a derivative of the Encyclopedia of Ocean Sciences, 2nd Edition, and serves as an important reference on coastal oceanography in one convenient and accessible source. Its selection of articles provides current knowledge and expertise in the areas of: Rivers, estuaries and fjords; Salt marshes, lagoons, beaches and rocky shores; Corals and reefs; Groundwater seepage; Ice and permafrost; Waves, tides, surges, tsunami and seiches; Topography and sea level; Plankton and benthos; Management, mariculture and fisheries; Pollution; Sediments, slides, slumps and cycling; Circulation and models; Remote sensing by acoustics, aircraft and satellites; and rigs, structures and shipping. The Coastal Ocean serves as an ideal reference for topical research. References related articles in coastal oceanography to facilitate further research Richly illustrated with figures and tables that aid in understanding key concepts Includes an introductory overview and then explores each topic in detail, making it useful to experts and graduate-level researchers Topical arrangement makes it the perfect desk reference Written in British English, Forest Fire! describes how, why and where forest fires happen. A pioneering marine biologist takes us down into the deep ocean in this 'thrilling blend of**

**hard science and high adventure' (The New York Times) Edith Widder grew up determined to become a marine biologist. But after complications from a surgery during college caused her to go temporarily blind, she became fascinated by light as well as the power of optimism. Below the Edge of Darkness explores the depths of the planet's oceans as Widder seeks to understand bioluminescence, one of the most important and widely used forms of communication in nature. In the process, she reveals hidden worlds and a dazzling menagerie of behaviours and animals. Alongside Widder, we experience life-and-death equipment malfunctions and witness breakthroughs in technology and understanding, all of it set against a growing awareness of the deteriorating health of our largest and least understood ecosystem. 'A vivid account of ocean life' ROBIN MCKIE, GUARDIAN BOOK OF THE DAY 'Edie's story is one of hardscrabble optimism, two-fisted exploration and groundbreaking research. She's done things I dream of doing' JAMES CAMERON 'A book of marvels, marvellously written' RICHARD DAWKINS**

**Inside the epic quest to find life on the water-rich moons at the outer reaches of the solar system Where is the best place to find life**

**beyond Earth? We often look to Mars as the most promising site in our solar system, but recent scientific missions have revealed that some of the most habitable real estate may actually lie farther away. Beneath the frozen crusts of several of the small, ice-covered moons of Jupiter and Saturn lurk vast oceans that 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 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 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 what lies ahead in our search for life in our solar system and**

**beyond, setting the stage for the transformative discoveries that may await us.**

**The Brilliant Abyss**

**Measurement for the Sea**

**Discovering Mars: The Amazing Story of the Red Planet**

**Forest Fire!**

**Discovering Mars**

**A History of the Oceans**

**Optical Remote Sensing of Ocean Hydrodynamics**

This series offers a unique look at our solar system and beyond for older children. Adopting a travel guide format, the series takes the reader on a fact-packed voyage, offering insights and points of interest along the way.

Learn how people prepare for and react to massive tsunamis to survive.

NEW YORK TIMES BESTSELLER #1 WALL STREET JOURNAL BESTSELLER USA TODAY BESTSELLER BLUE OCEAN SHIFT is the essential follow up to Blue Ocean Strategy, the classic and 3.6 million copy global bestseller by world-renowned professors W. Chan Kim and Renee Mauborgne. Drawing on more than a decade of new work, Kim and Mauborgne show you how to move beyond competing, inspire your people's confidence, and seize new growth, guiding you step-by-step through

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how to take your organization from a red ocean crowded with competition to a blue ocean of uncontested market space. By combining the insights of human psychology with practical market-creating tools and real-world guidance, Kim and Mauborgne deliver the definitive guide to shift yourself, your team, or your organization to new heights of confidence, market creation, and growth. They show why nondisruptive creation is as important as disruption in seizing new growth. BLUE OCEAN SHIFT is packed with all-new research and examples of how leaders in diverse industries and organizations made the shift and created new markets by applying the process and tools outlined in the book. Whether you are a cash-strapped startup or a large, established company, nonprofit or national government, you will learn how to move from red to blue oceans in a way that builds your people's confidence so that they own and drive the process. With battle-tested lessons learned from successes and failures in the field, BLUE OCEAN SHIFT is critical reading for leaders, managers, and entrepreneurs alike. You'll learn what works, what doesn't, and how to avoid the pitfalls along the way. This book will empower you to succeed as you embark on

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your own blue ocean journey. BLUE OCEAN SHIFT is indispensable for anyone committed to building a compelling future. This book describes the development of ocean sciences over the past 50 years, highlighting the contributions of the National Science Foundation (NSF) to the field's progress. Many of the individuals who participated in the exciting discoveries in biological oceanography, chemical oceanography, physical oceanography, and marine geology and geophysics describe in the book how the discoveries were made possible by combinations of insightful individuals, new technology, and in some cases, serendipity. In addition to describing the advance of ocean science, the book examines the institutional structures and technology that made the advances possible and presents visions of the field's future. This book is the first-ever documentation of the history of NSF's Division of Ocean Sciences, how the structure of the division evolved to its present form, and the individuals who have been responsible for ocean sciences at NSF as "rotators" and career staff over the past 50 years.

Pale Blue Dot  
Plastic Ocean

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Oceanography Springer Praxis Books

50 Years of Ocean Discovery

A History of Observation and Exploration  
of the Red Planet

The Geography of the Ocean

The Sun and Stars

Taking Up Space

*Meet some of nature's most fantastic underwater creatures in this beautifully illustrated exploration of the sea. Get ready for a deep dive into THE WORLDS'S GREAT OCEANS, and discover the DIVERSITY OF LIFE that exists in the DEEP BLUE SEA. Whether you're traveling long-haul with LEATHERBACK TURTLES across the Pacific, snoozing with SEA OTTERS, or ice-bathing with a WALRUS, this book brings together EPIC OCEAN ADVENTURES from the high seas to the ocean floor. With over 30 scenes to explore, young nature adventurers will find hundreds of things to spot, with facts to learn on every page.*

*The researcher who discovered the Great Pacific Garbage Patch—and remains one of today's key advocates for plastic pollution awareness—inspires a fundamental rethinking of the modern Plastic Age. In 1997, environmentalist Charles Moore discovered the world's*

largest collection of floating trash—the Great Pacific Garbage Patch ("GPGP")—while sailing from Hawaii to California. Moore was shocked by the level of pollution that he saw. And in the last 20 years, it's only gotten worse—a 2018 study has found that the vast dump of plastic waste swirling in the Pacific Ocean is now bigger than France, Germany, and Spain combined—far larger than previously feared. In *Plastic Ocean*, Moore recounts his ominous findings and unveils the secret life of plastics. From milk jugs and abandoned fishing gear to polymer molecules small enough to penetrate human skin and be unknowingly inhaled, plastic is now suspected of contributing to a host of ailments, including infertility, autism, thyroid dysfunction, and certain cancers. An urgent call to action, *Plastic Ocean's* sobering revelations have been embraced by activists, concerned parents, and anyone alarmed by the deadly impact and implications of this man-made environmental catastrophe.

This book offers a survey of the contribution of satellite data to the

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*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.*

*Planet Earth (A True Book)  
Below the Edge of Darkness*