

## Oceans Of The World In Color Marine Life And Oceanography For Children

No individual has contributed more to the stability and peaceful order in the world's oceans in the last four decades than Satya N. Nandan. Peaceful Order in the World's Oceans, edited by Michael W. Lodge and Myron H. Nordquist, collects original and substantive essays in his honor from eminent figures from around the world.

Sail across spectacular seas and discover the mind-boggling marine life of the world's oceans. Find out about the five great oceans on our planet, and learn about their biological and geographical features. Explore the deepest depths of the Mariana Trench, spot shipwrecks at the bottom of the sea, and uncover the beauty of the Great Barrier Reef. This ebook will teach children about the incredible oceans and seas that cover around seventy percent of our world. Dive in with amazing illustrations, discover how we can protect our oceans, and stock up on facts to amaze your friends. Includes information, photographs, and colorful illustrations, DKfindout! Oceans is a beautiful compendium of ocean life, from the Pacific to the Atlantic. DKfindout! Oceans introduces creatures great and small, from the great white shark, dolphins, and giant squid, to penguins and colorful coral. The DK findout! series introduces children to a range of exciting topics in a fun, engaging way. Checked by specialist consultants and an educational expert, this is not only a source of information you can trust but one that is age-appropriate and supports your child's schoolwork.

All young children love to play in the waves at the beach. Now here's a Hello, World! board book that teaches them all about oceans and the creatures and plants that live there. Hello, World! is a series designed to introduce first nonfiction concepts to babies and toddlers. Told in clear and easy terms ("An octopus has eight arms. Can you count them all?") and featuring bright, cheerful illustrations, Hello, World! is a perfect way to bring science, nature, and culture into the busy world of a toddler, where learning never stops. Look for all the books in the Hello, World! series: Solar System, Weather, Backyard Bugs, Birds, Dinosaurs, My Body, and How Do Apples Grow?

From a brilliant Brookings Institution writer, a vivid, timely, and insightful examination of the critical role that oceans play in the daily struggle for global power, in the bestselling tradition of Robert Kaplan's The Revenge of Geography. For centuries, oceans were the chessboard on which empires battled for dominance. But in the nuclear age, air power and missile systems dominated our worries about security, and for the United States, the economy was largely driven by domestic production, with trucking and railways that crisscrossed the continent the primary modes of commercial transit. All that has changed, as nine-tenths of global commerce and the bulk of energy trade is today linked to sea-based flows. A brightly-painted 40-foot steel shipping container loaded in Asia with twenty tons of goods may arrive literally anywhere else in the world; how that

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really happens and who actually profits by it show that the struggle for power on the seas is a critical issue today. Now, in bright, closely observed prose, *To Rule the Waves* author Bruce Jones conducts us on a fascinating voyage through the great modern ports and naval bases of this era—from the vast container ports of Shanghai and Hong Kong to the vital naval base of the American 7th fleet in Hawaii to the sophisticated security arrangements in the port of New York. Along the way, the book illustrates how global commerce works, that we are amidst a global naval arms race, and why the oceans are so crucial to America's standing going forward. As Jones reveals, the three great geopolitical struggles of our time—for military power, for economic dominance, and over our changing climate—are playing out atop, within, and below the world's oceans. The essential question, he shows, is this: who will rule the waves and set the terms of the world to come?

How do seas differ from oceans? Find the answer to this question, and so much more, by opening the pages of this educational book. The way information is presented here allows for easy understanding of an otherwise complex subjects. Pictures are considered universal; so their use here is very age-appropriate. Secure a copy today!

This collection of scientific papers provides a state-of-the-art look at current knowledge on ocean worlds in our solar system and beyond. It is the result of a collaborative effort by scientists studying both terrestrial and extraterrestrial oceans, and analyzes the emergence of life and its survival on Earth as well as other potentially habitable planets and moons. The papers examine the more remote provinces of our solar system, focusing on the icy moons of the giant planets, like Europa and Titan, as well as bodies like Ceres and putative extrasolar ocean worlds. Their potential for subsurface liquid water oceans are explored, as is as their astrobiological potential. The collection also takes a look at Earth's own oceans, which offer important clues for the investigation of other ocean worlds. In addition, the collection addresses the outstanding key scientific questions and measurements, technologies and laboratory experiments necessary for the exploration of ocean worlds known today. Previously published in *Space Science Reviews* in the Topical Collection "Ocean Worlds"

The world's oceans face multiple threats: the effects of climate change, pollution, overfishing, plastic waste, and more. Confronted with the immensity of these challenges and of the oceans themselves, we might wonder what more can be done to stop their decline and better protect the sea and marine life. Such widespread environmental threats call for a simple but significant shift in reasoning to bring about long-overdue, elemental change in the way we use ocean resources. In *Future Sea*, ocean advocate and marine-policy researcher Deborah Rowan Wright provides the tools for that shift. Questioning the underlying philosophy of established ocean conservation approaches, Rowan Wright lays out a radical alternative: a bold and far-reaching strategy of 100 percent ocean protection that would put an end to destructive industrial activities,

better safeguard marine biodiversity, and enable ocean wildlife to return and thrive along coasts and in seas around the globe. Future Sea is essentially concerned with the solutions and not the problems. Rowan Wright shines a light on existing international laws intended to keep marine environments safe that could underpin this new strategy. She gathers inspiring stories of communities and countries using ocean resources wisely, as well as of successful conservation projects, to build up a cautiously optimistic picture of the future for our oceans—counteracting all-too-prevalent reports of doom and gloom. A passionate, sweeping, and personal account, Future Sea not only argues for systemic change in how we manage what we do in the sea, but also describes steps that anyone, from children to political leaders (or indeed, any reader of the book), can take toward safeguarding the oceans and their extraordinary wildlife. Critical human activities take place at sea, including trade, tourism, migration, scientific exploration and resource exploitation. This book offers a novel and important contribution to an ever-emerging cross-disciplinary subject matter and challenges human geography's preoccupation with the terrestrial. Linking to new theoretical debates shaping the geographic discipline, (such as affect, assemblage, emotion, hybridity and the more-than-human) this volume unlocks new knowledge concerning the human geographies of ocean space and dispenses with fixed conceptions of space. It advances geographical understanding based on the world as 'becoming', changing, mobile and processional.

The riveting story of the exploration of the final frontier of our planet—the deep ocean—and history-making mission to reach the bottom of all five seas. Humankind has explored every continent on earth, climbed its tallest mountains, and gone into space. But the largest areas of our planet remain largely a mystery: the deep oceans. At over 36,000 feet deep, these areas closest to earth's core have remained nearly impossible to reach—until now. Technological innovations, engineering breakthroughs and the derring-do of a team of explorers, led by explorer Victor Vescovo, brought together an audacious global quest to dive to the deepest points of all five oceans for the first time in history. The expedition pushed technology to the limits, mapped hidden landscapes, discover previously unknown life forms and began to piece together how life in the deep oceans affects our planet—but it was far from easy. Expedition Deep Ocean is the inside story of this exploration of one of the most unforgiving and mysterious places on our planet, including the site of the Titanic wreck and the little-understood Hadal Zone. Vescovo and his team would design the most advanced deep-diving submersible ever built, where the pressure on the sub is 8 tons per square inch—the equivalent of having 292 fueled and fully loaded 747s stacked on top of it. And then there were hurricane-laden ocean waters and the byzantine web of global oceanography politics. Expedition Deep Ocean reveals the marvelous and other-worldly life found in all five deep ocean trenches, including several new species that have posed as of yet unanswered questions about survival and migration from ocean to ocean. Then there are the newly discovered sea mounts that cause tsunamis when they are broken by shifting subduction plates and jammed back into the earth crust, something that can now be

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studied to predict future disasters. Filled with high drama, adventure and the thrill of discovery, Expedition Deep Ocean celebrates courage and ingenuity and reveals the majesty and meaning of the deep ocean.

There are five oceans in the world, the Arctic, Atlantic, Indian, Pacific and Southern Oceans. Look into the details of each ocean.

A large body of recent oceanographic research has shown that the Antarctic Circumpolar Current (ACC), an ocean current that flows from west to east around Antarctica, plays a crucial role in global ocean circulation. The region where the cold waters of the ACC meet and mingle with the warmer waters of the north defines a distinct border - the Antarctic Convergence - which fluctuates with the seasons, but which encompasses a discrete body of water and a unique ecologic region. The Convergence concentrates nutrients, which promotes marine plant life, and which, in turn, allows for a greater abundance of animal life. In 2000, the International Hydrographic Organization delimited the waters within the Convergence as a fifth world ocean - the Southern Ocean - by combining the southern portions of the Atlantic Ocean, Indian Ocean, and Pacific Ocean. The Southern Ocean extends from the coast of Antarctica north to 60 degrees south latitude, which coincides with the Antarctic Treaty Limit and which approximates the extent of the Antarctic Convergence. As such, the Southern Ocean is now the fourth largest of the world's five oceans (after the Pacific Ocean, Atlantic Ocean, and Indian Ocean, but larger than the Arctic Ocean). The world's oceans cover just over 70.8 per cent of the Earth's surface, and yet we know more about the moon than what lies beneath these dark waters. As early as 5000 BC, efforts have been made to map these oceans, establish trade routes and discover new lands. In more recent years, this energy has focused downwards, into the ocean's inky depths and shadowy seabeds. Award winning writer Carolyn Fry explores all of the above, narrating centuries of maritime exploration - from James Cook to James Cameron - and the fascinating discoveries which helped to map the world. This book is produced in collaboration with the National Maritime Museum. Based in Greenwich, London, this prestigious museum has the largest archives for maritime history in the world, comprising of more than 1.5 million items. Dedicated to conservation, educational outreach and cutting-edge research, the NMM is a world-leading institution in the study of maritime history. This beautifully illustrated full-color book includes an incredible selection of rare maps from their archives, from historic sea charts to topographic maps of the ocean floor. Mapping the Oceans combines remarkable history with cutting edge science, including all you need to know about this fantastic and tantalizing of phenomena - the sea.

“A prodigiously imaginative collection.” —New York Times Book Review, Editor’s Choice “Dazzling tales from a master of the fantastic.” —Washington Post Book World  
Fragile Things is a sterling collection of exceptional tales from Neil Gaiman, multiple award-winning (the Hugo, Bram Stoker, Newberry, and Eisner Awards, to name just a few), #1 New York Times bestselling author of The Graveyard Book, Anansi Boys, Coraline, and the groundbreaking Sandman graphic novel series. A uniquely imaginative creator of wonders whose unique storytelling genius has been acclaimed by a host of literary luminaries from Norman Mailer to Stephen King, Gaiman’s astonishing powers are on glorious displays in Fragile Things. Enter and be amazed! This single-volume resource explores the five major oceans of the world, addressing

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current issues such as sea rise and climate change and explaining the significance of the oceans from historical, geographic, and cultural perspectives. • Introduces readers to the five major oceans of the world and provides ready-reference entries relating to geography, the environment, science, history, and culture • Entries are engaging and accessible to all readers from high school to university students to general readers • Includes sidebars of "fun facts" throughout the text that highlight interesting oceanic subtopics

Constituting more than 70 percent of Earth's surface, the world's oceans are so vast as to remain something of an enigma to this day. Navigating these imposing seas and unlocking their secrets is the calling of oceanographers. Their research helps determine what climatic, geologic, and chemical impact oceans have on a variety of organisms. In spite of their magnitude and might, the world's oceans are not immune to the effects of adverse human activity, such as pollution. This volume surveys this huge, but fragile, ecosystem and the individuals who help fight for the preservation of this vital resource that has critical significance to all earthly life.

Life in the World's Oceans: Diversity, Abundance and Distribution is a true landmark publication. Comprising the synthesis and analysis of the results of the Census of Marine Life this most important book brings together the work of around 2000 scientists from 80 nations around the globe. The book is broadly divided into four sections, covering oceans past, oceans present, oceans future and a final section covering the utilisation of the data which has been gathered, and the coordination and communication of the results. Edited by Professor Alasdair McIntyre, Marine Life is a book which should find a place on the shelves of all marine scientists, ecologists, conservation biologists, oceanographers, fisheries scientists and environmental biologists. All universities and research establishments where biological, earth and fisheries science are studied and taught should have copies of this essential book on their shelves. A true landmark publication One of the most important marine science books ever published Contributions from many world leading researchers Synthesis of a huge amount of important data Represents the culmination of 10 years' research by 2000 scientists from 80 countries

A visually stunning celebration of the rich variety of ocean life, with 180 color photographs.

Travel the world with the Sounds of Nature series – press the note in each of the 10 ocean habitats to hear vivid recordings of over 60 different marine animal sounds. The Sounds of Nature series brings the natural world to life with the sounds of real animals recorded in the wild. Captivating edge-to-edge illustrations show animals in action in their habitats around the globe. The animals are numbered in the order they can be heard, with fascinating facts and descriptions of the sounds they make, so you can listen out for each one. A speaker set into the back cover plays a sound clip when you press firmly on the note in each illustration. The battery is already installed, so simply open and explore. In World of Oceans, discover these amazing habitats: open ocean of the Pacific; frozen water of the Arctic; coral waters of Australia's Great Barrier Reef; swamp waters of Florida, USA; a rockpool in Cornwall, UK; bay waters of San Francisco, USA; island waters of Indonesia, Asia; the deep sea of the Mariana Trench; coastal waters of Brazil, South America; and sandy coastline of Cape Town, Africa. Listen to these and more watery places come to life as you hear the: Booming snorts,

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roars and growls of the northern elephant seal (Pacific Ocean) Happy squeaks, chirps, whistles and clucks of the ghostly white beluga whales (Arctic Ocean) Angry hissing noise of a common snapping turtle warning off intruders (Florida swamp) Scuttling noise of a giant spider crab (Mariana Trench) High-pitched clicking sounds of poison dart frogs (Brazil) Loud splash of a great white shark as it falls back into the water (South Africa) Dip your toe in, hold your breath and get ready to plunge into the deep blue oceans that cover our planet!

**NATIONAL BESTSELLER** • A riveting, adrenaline-fueled tour of a vast, lawless, and rampantly criminal world that few have ever seen: the high seas. There are few remaining frontiers on our planet. But perhaps the wildest, and least understood, are the world's oceans: too big to police, and under no clear international authority, these immense regions of treacherous water play host to rampant criminality and exploitation. Traffickers and smugglers, pirates and mercenaries, wreck thieves and repo men, vigilante conservationists and elusive poachers, seabound abortion providers, clandestine oil-dumpers, shackled slaves and cast-adrift stowaways—drawing on five years of perilous and intrepid reporting, often hundreds of miles from shore, Ian Urbina introduces us to the inhabitants of this hidden world. Through their stories of astonishing courage and brutality, survival and tragedy, he uncovers a globe-spanning network of crime and exploitation that emanates from the fishing, oil, and shipping industries, and on which the world's economies rely. Both a gripping adventure story and a stunning exposé, this unique work of reportage brings fully into view for the first time the disturbing reality of a floating world that connects us all, a place where anyone can do anything because no one is watching.

Learn about currents and tides, mining for oil and much more.

Where is the deepest point on Earth? How are tsunamis caused? Why do some people live in houses on stilts? Raise the anchor and set sail on a journey round the five oceans of the world. Read maps and interpret simple map keys to explore famous places, islands and busy ports. Learn about extreme weather and the valuable resources the oceans provide. Dive deep to explore the ocean floor and the remarkable plants and animals that thrive there. Explore the biggest ocean on Earth, the Pacific Ocean. Learn about the extreme features of the Ring of Fire and Shanghai's busy port. Hold your nose for the biggest rubbish dump in the world!

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

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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.

This lavishly illustrated, fact-filled atlas--a follow-up to *Maps of the World*--allows children to discover the fascinating and mysterious world below sea level with links to explore even further on computers and tablets. Covering every ocean and major sea in the world, *Maps of the World's Oceans* is a vibrant and comprehensive atlas that children of all ages will love to explore. The dozens of colorful, detailed maps are filled with hundreds of illustrated icons highlighting creatures that inhabit the waters of the world from deep-ocean sharks to sea birds that rely on the water to survive. Also featured are vital vegetation, submerged shipwrecks, and icons representing the myths and legends of the various peoples who supposedly lived by the seas. Along the surface, readers will explore ports, lighthouses, famous explorers and voyages, old navigation secrets, and more. Flip the next page from any map and the corresponding icon key explains why these fish, animals, various organisms and more are so vital to the oceans and the seas - and therefore the world. Young readers will learn about waves and tides, currents and oceanic ridges, and more giving them a complete look at the world's waters. Each map includes a link allowing kids to download a version of them on computers and tablets to explore even further. Captivating and comprehensive, *Maps of the World's Oceans* will entice even the most reluctant young explorer.

This book explores cross-cultural encounters in the context of exploration, migration, and trade across the world's oceans. From the early migrations of Austronesian peoples to the increasing globalization of recent centuries, it examines trans-oceanic communication and exchange as a major motor of transformation in World History, providing readers with better appreciation of how oceans connect human societies, rather than separate them.

This volume examines the deep sea ecosystem from a variety of perspectives. The initial chapters examine the deep-sea floor, the deep pelagic environment and the more specialised chemosynthetic environments of hydrothermal vents and cold seeps. These environments are examined from the perspective of the relationship of deep-sea animals to their physico-chemical environment. Later chapters examine the biogeography of the main deep oceans (Atlantic, Pacific and Indian) with particular attention to the downward flux of surface-derived organic matter and how this drives the processes within the deep-sea ecosystem. The peripheral deep seas including the polar seas and the marginal deep seas (inter alia the Mediterranean, Red, Caribbean and Okhotsk seas) are explored in the same context. The final chapters examine the processes occurring in the deep sea and include an analysis of why the deep sea has high species diversity, how the fauna respond to organic input and how species have adapted reproductive activity in the deep sea. The volume concludes with an analysis of the anthropogenic impact on the deep sea.

Includes fascinating sea creatures from around the world, from whales and sharks to turtles and deep-sea fish.

Oceans make up most of the surface of our blue planet. They may form just a sliver on the outside of the Earth, but they are very important, not only in hosting life, including the fish and other animals on which many humans depend, but in terms of their role in the Earth system, in regulating climate, and cycling nutrients. As climate change, pollution, and over-exploitation by humans puts this precious resource at risk, it is more important than ever that we understand and appreciate the nature and history of oceans. There is much we still do not know about the

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story of the Earth's oceans, and we are only just beginning to find indications of oceans on other planets. In this book, geologists Jan Zalasiewicz and Mark Williams consider the deep history of oceans, how and when they may have formed on the young Earth — topics of intense current research — how they became salty, and how they evolved through Earth history. We learn how oceans have formed and disappeared over millions of years, how the sea nurtured life, and what may become of our oceans in the future. We encounter some of the scientists and adventurers whose efforts led to our present understanding of oceans. And we look at clues to possible seas that may once have covered parts of Mars and Venus, that may still exist, below the surface, on moons such as Europa and Callisto, and the possibility of watery planets in other star systems.

Enter the world of oceans and the animals that live in them. Swim with jellyfish, wonder at the busy life of a seagrass meadow, and fence with narwhals. Fish, sharks, whales, and invertebrates swim through the pages of this colorful ocean book, which combines gorgeous illustrations and photos to help young enthusiasts learn all about the world's oceans. From glowing jellyfish to deep sea dwellers, they'll discover the incredible secret world of life under the sea. They'll also find out how they can help take care of the ocean themselves. Earth's Incredible Oceans, written by ocean expert Jess French and illustrated by Claire McElfrick, takes children on a fascinating underwater journey, showing them just how amazing oceans are, what plants and animals live in them, and how we can help them. It includes all sorts of ocean life, plus amazing facts on how ocean animals have fun, look after their young, and interact with each other.

Fragile Things Short Fictions and Wonders Harper Collins

This book breaks new ground by bringing together multidisciplinary approaches to examine contemporary Indian Ocean worlds. It reconfigures the Indian Ocean as a space for conceptual and theoretical relationality based on social science and humanities scholarship, thus moving away from an area-based and geographical approach to Indian Ocean studies. Contributors from a variety of disciplines focus on keywords such as relationality, space/place, quotidian practices, and new networks of memory and maps to offer original insights to reimagine the Indian Ocean. While the volume as a whole considers older histories, mobilities, and relationships between places in Indian Ocean worlds, it is centrally concerned with new connectivities and layered mappings forged in the lived experiences of individuals and communities today. The chapters are steeped in ethnographic, multi-modal, and other humanities methodologies that examine different sources besides historical archives and textual materials, including everyday life, cities, museums, performances, the built environment, media, personal narratives, food, medical practices, or scientific explorations. An important contribution to several fields, this book will be of interest to academics of Indian Ocean studies, Afro-Asian linkages, inter-Asian exchanges, Afro-Arab crossroads, Asian studies, African studies, Anthropology, History, Geography, and International Relations. Geography is a big subject to study as it encompasses boundaries set by man. How do you make it a friendly topic for young children? You break down concepts into easy to understand bits, of course! Top that with a presentation composed of vibrant images and great layout. Secure a copy of this educational book today!

The 4.4-billion-year history of the oceans and their role in Earth's climate system It has often been said that we know more about the moon than we do about our own oceans. In fact, we know a great deal more about the oceans than many people realize. Scientists know that our actions today are shaping the oceans and climate of tomorrow—and that if we continue to act recklessly, the consequences will be dire. Eelco Rohling traces the 4.4-billion-year history of Earth's oceans while also shedding light on the critical role they play in our planet's climate system. This timely and accessible book explores the close interrelationships of the oceans, climate, solid Earth processes, and life, using the context of Earth and ocean history to provide

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perspective on humankind's impacts on the health and habitability of our planet.

From one of the most admired admirals of his generation -- and the only admiral to serve as Supreme Allied Commander at NATO -- comes a remarkable voyage through all of the world's most important bodies of water, providing the story of naval power as a driver of human history and a crucial element in our current geopolitical path. From the time of the Greeks and the Persians clashing in the Mediterranean, sea power has determined world power. To an extent that is often underappreciated, it still does. No one understands this better than Admiral Jim Stavridis. In *Sea Power*, Admiral Stavridis takes us with him on a tour of the world's oceans from the admiral's chair, showing us how the geography of the oceans has shaped the destiny of nations, and how naval power has in a real sense made the world we live in today, and will shape the world we live in tomorrow. Not least, *Sea Power* is marvelous naval history, giving us fresh insight into great naval engagements from the battles of Salamis and Lepanto through to Trafalgar, the Battle of the Atlantic, and submarine conflicts of the Cold War. It is also a keen-eyed reckoning with the likely sites of our next major naval conflicts, particularly the Arctic Ocean, Eastern Mediterranean, and the South China Sea. Finally, *Sea Power* steps back to take a holistic view of the plagues to our oceans that are best seen that way, from piracy to pollution. When most of us look at a globe, we focus on the shape of the of the seven continents. Admiral Stavridis sees the shapes of the seven seas. After reading *Sea Power*, you will too. Not since Alfred Thayer Mahan's legendary *The Influence of Sea Power upon History* have we had such a powerful reckoning with this vital subject.

Oceans cover three-quarters of the planet. This fascinating book shows how the world's five oceans Pacific, Atlantic, Indian, Southern, and Arctic are interconnected and why they are vitally important to the rest of Earth. Concise text, easy-to-read maps, and dazzling full-color photographs provide kids with an overview of these unique biomes. Topics include

As our children flip through television channels, they are sure to stumble upon on a TV channel that displays the wonderful waters of our world. They may become quite excited upon seeing some of our world's greatest, largest, and beautiful creatures, including, but not limited to: whales, dolphins, sharks, seals, sea otters, and fish. Also, they may wonder how the oceans are able to produce such great waves. Their curiosity will end up becoming attained knowledge when delving into an *Oceans of the World in Color* picture book. The book will teach them about our oceans; covering basic facts, such as names, locations, size, and more.

Discusses the importance of water to planet Earth, including what animals live in water and where the most beautiful bodies of water are.

The history of the Indian Ocean provides a snapshot of many of the key issues in world history.

Inside the epic quest to find life on the water-rich moons at the outer reaches of

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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.

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